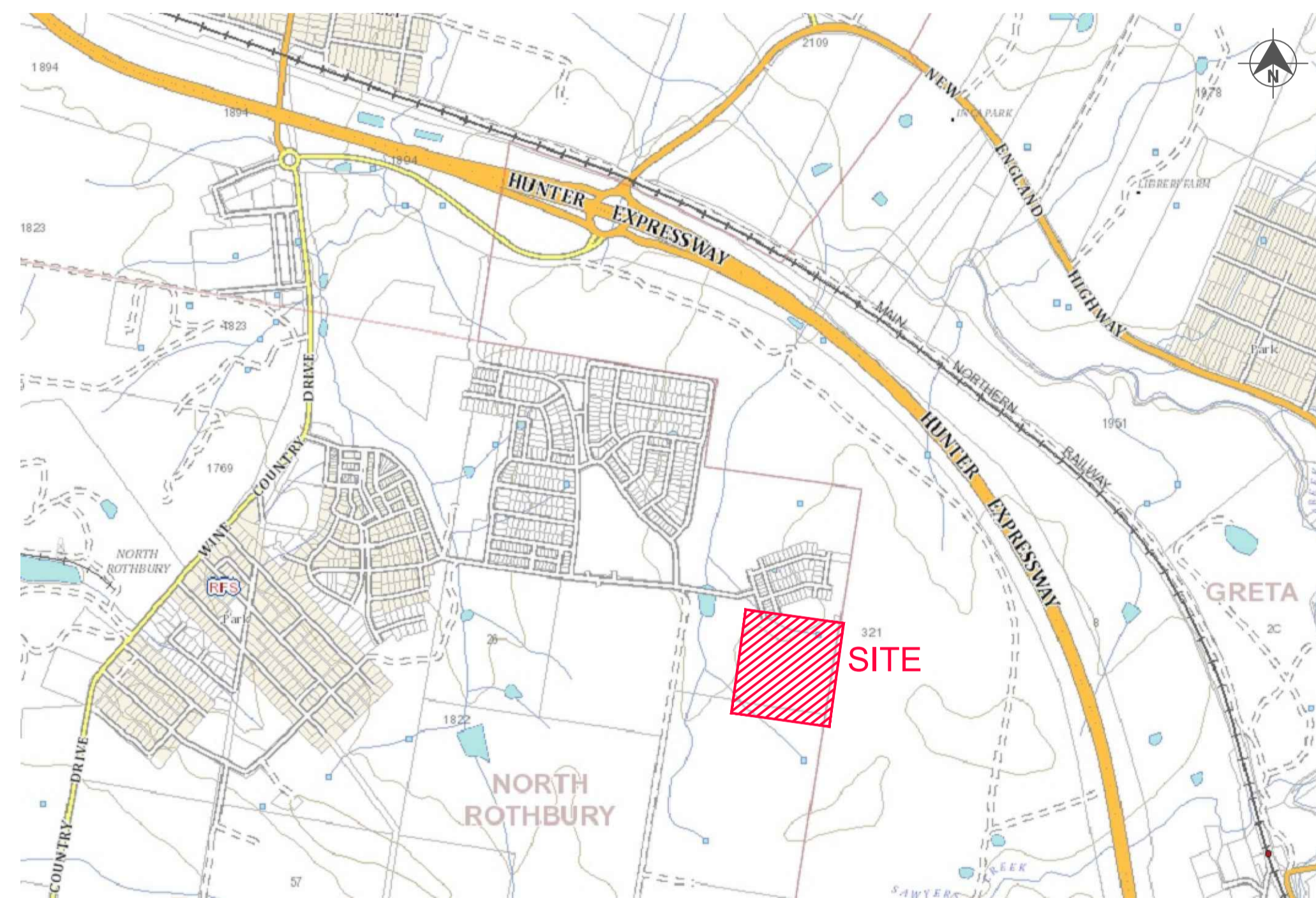




PROPOSED SUBDIVISION STAGE 28 HUNTLEE



LOCALITY SKETCH
NOT TO SCALE

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 *[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

DRAWING INDEX	
Sheet Title	Sheet Description
24.0037(28)-WAT-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
24.0037(28)-WAT-002	GENERAL NOTES
24.0037(28)-WAT-003	OVERALL SITE PLAN
24.0037(28)-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
24.0037(28)-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
24.0037(28)-WAT-103	POTABLE WATER DETAIL PLAN - SHEET 3
24.0037(28)-WAT-104	POTABLE WATER DETAIL PLAN - SHEET 4
24.0037(28)-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
24.0037(28)-WAT-202	RECYCLED WATER DETAIL PLAN - SHEET 2
24.0037(28)-WAT-203	RECYCLED WATER DETAIL PLAN - SHEET 3
24.0037(28)-WAT-204	RECYCLED WATER DETAIL PLAN - SHEET 4
24.0037(28)-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
24.0037(28)-WAT-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
24.0037(28)-WAT-303	PRESSURE SEWER DETAIL PLAN - SHEET 3
24.0037(28)-WAT-304	PRESSURE SEWER DETAIL PLAN - SHEET 4
24.0037(28)-WAT-351	FITTINGS TABLE
24.0037(28)-WAT-401	TYPICAL PIPEWORK TRENCHING DETAILS
24.0037(28)-WAT-402	TYPICAL SERVICE CONNECTION DETAILS
24.0037(28)-WAT-403	WASTE WATER COLLECTION TANK LEVEL DETAILS
24.0037(28)-WAT-404	THRUST BLOCK DETAILS

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	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

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

CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 28
 HUNTLEE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
 PLAN TITLE COVER SHEET, LOCALITY PLAN & DRAWING INDEX
 PROJECT No. 240037(28) DISCIPLINE - WAC - NUMBER 001 REV. 2

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 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 (CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- FOR LOTS WITH TANKS IN THE REAR 1 x ø25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x ø25mm ELECTRICAL CONDUIT (ORANGE)(WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
- THE CONSTRUCTOR SHALL PROVIDE 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 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.
 - 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	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 ⁵	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 CLEARANCE 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	<i>(Signature)</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: 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

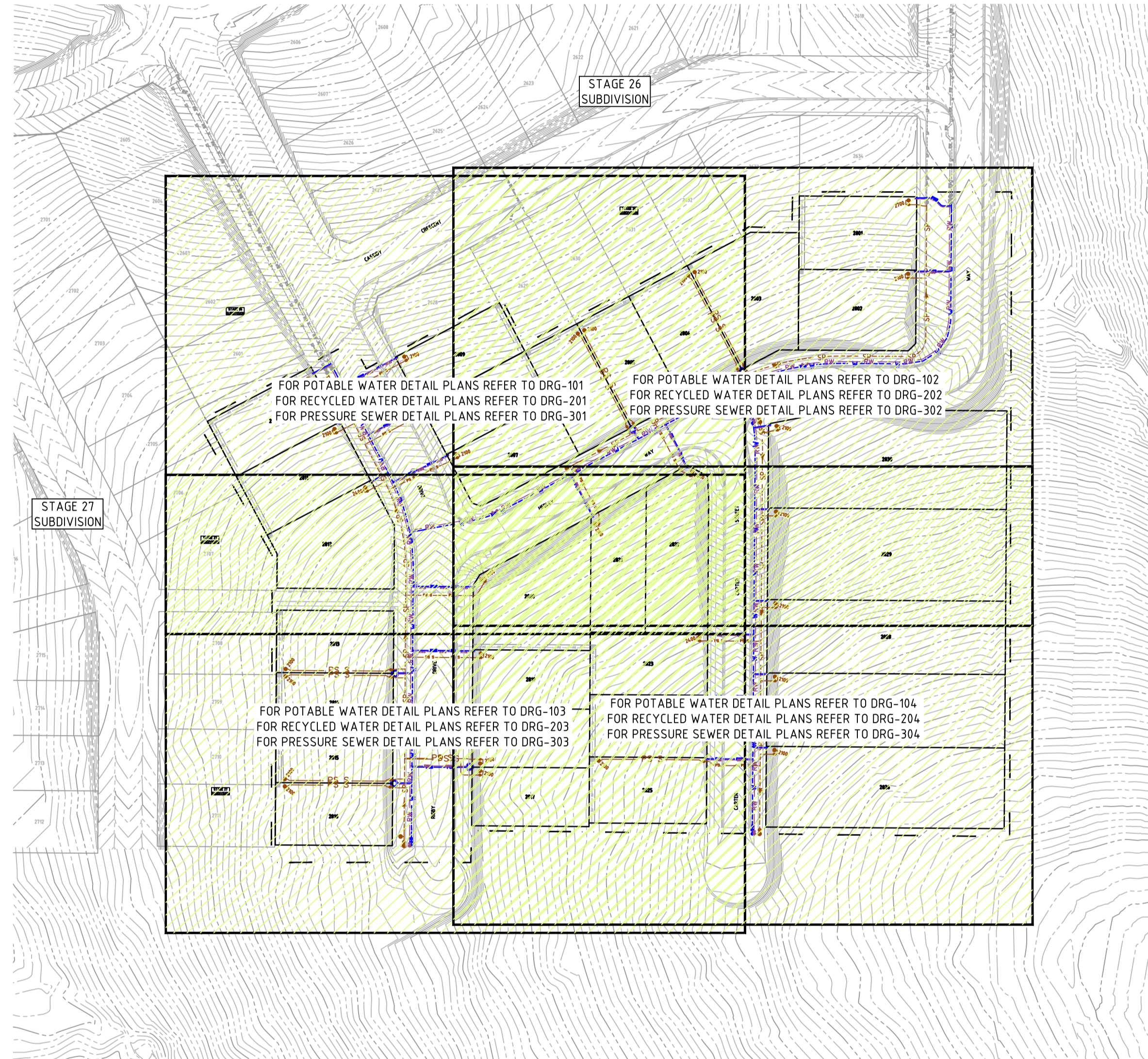
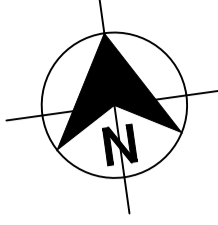
WORK AS CONSTRUCTED

240037(28)-WAC-001

100mm AT FULL SIZE

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	02.08.2021	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 28 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	GENERAL NOTES	240037(28)	- WAC -	002	2
B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.									
0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.									



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

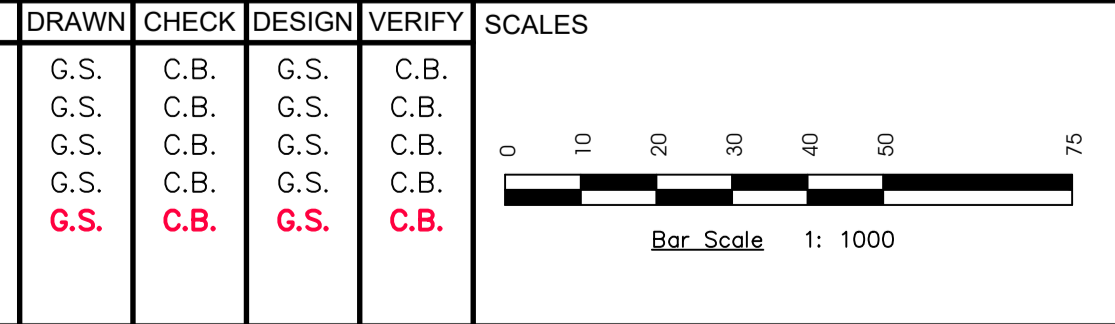
ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345 612.942 MGA Datum: GDA94
 N: 6 382 878.917 MGA Zone: 56
 RL: 77.675m

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

WORK AS CONSTRUCTED

PLAN
 SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.
B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.
0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.



adw Johnson

Hunter Office
 Unit 7/335 Hillsborough Rd
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 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 28
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	OVERALL SITE PLAN		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(28)	- WAC -	003	2

240037(28)-WAC-104

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



DIAL 1100 BEFORE YOU DIG

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
*		STOP VALVE
●		HYDRANT
●		FLUSHING HYDRANT
○		PROPERTY SERVICE CONNECTION
○		LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
112.5° 22.5°		HORIZONTAL BEND ANGLES IN MAIN
- - -		PROPOSED EASEMENT
- - -		SUBDIVISION STAGE BOUNDARY

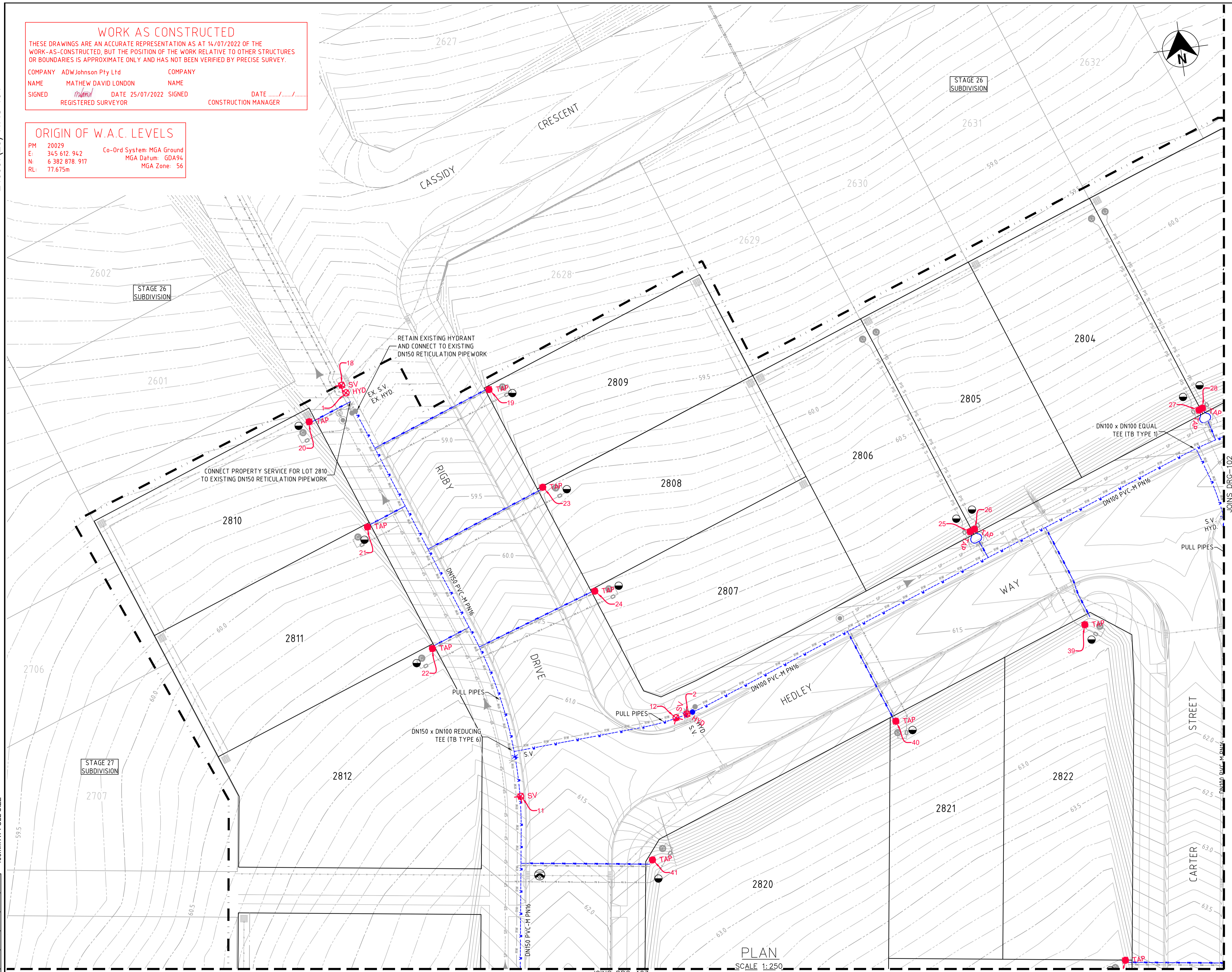
- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 30 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 10 x SHORT SIDE
 - 10 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	135
DN100	PVC-M PN16	320
DN20 (LATERAL)	PE100 PN16	260

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - 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 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
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1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

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

adw Johnson

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 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 28
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

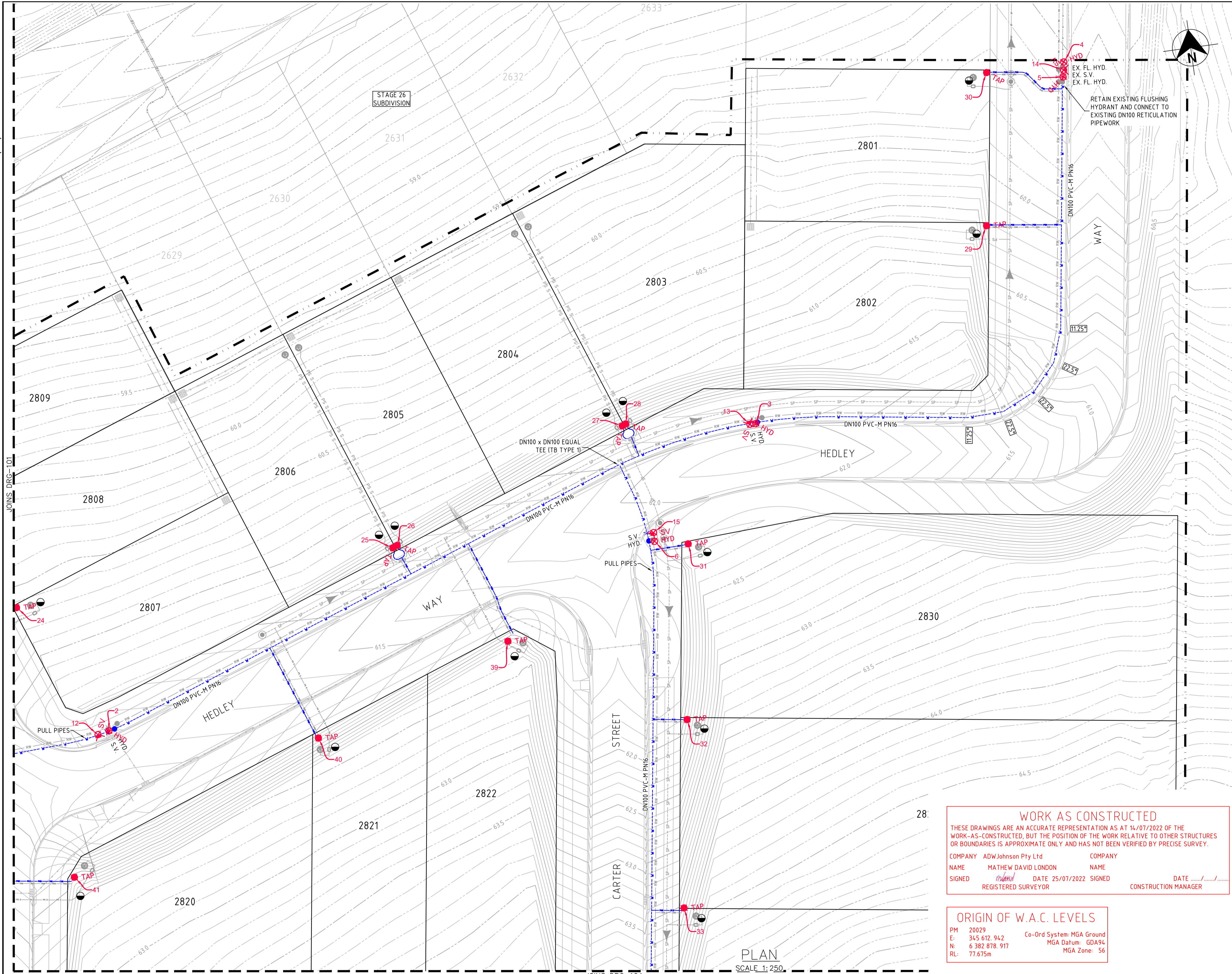
DATUM
 GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No.	240037(28)	DISCIPLINE	- WAC -
NUMBER	101	REV.	2

240037(28)-WAC-104

JOINS DRG-101

100mm AT FULL SIZE



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 PWS - EXISTING POTABLE WATER RETICULATION
- EX RW - EXISTING RECYCLED WATER RETICULATION
- EX PS - EXISTING PRESSURE SEWER RETICULATION
- SW - 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
- 11.25° 22.5° - HORIZONTAL BEND ANGLES IN MAIN
- - - - - PROPOSED EASEMENT
- - - - - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 30 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 10 x SHORT SIDE
 - 10 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	135
DN100	PVC-M PN16	320
DN20 (LATERAL)	PE100 PN16	260

- 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 204.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED

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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

WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
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1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

DESIGN FILE N:\

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adw Johnson

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 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 28
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

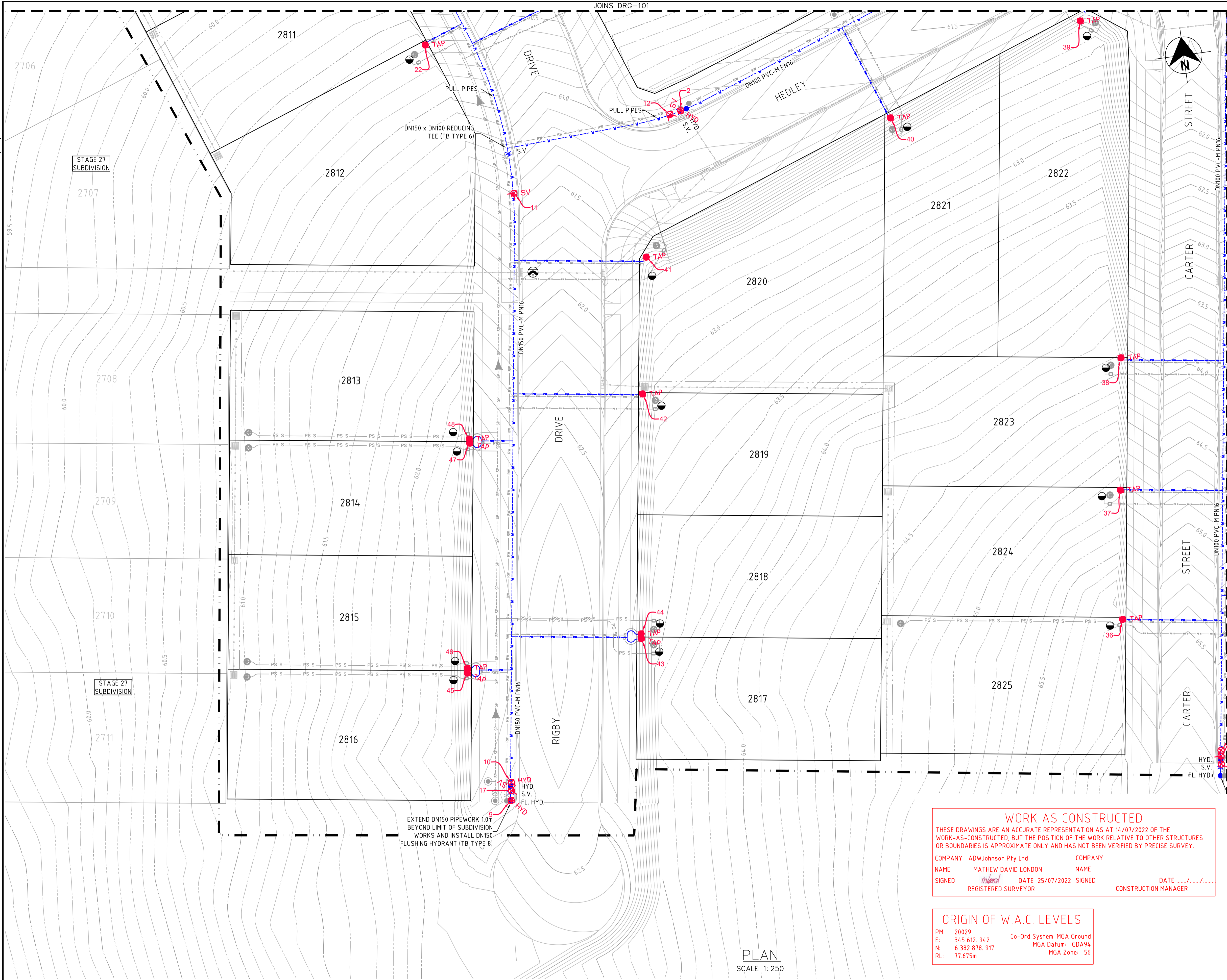
PROJECT
 POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
 POTABLE WATER DETAIL PLAN - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(28)	- WAC -	102	2

240037(28)-WAC-104

100mm AT FULL SIZE



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	PE PRESSURE SEWER PROPERTY SERVICE
EX W	EXISTING POTABLE WATER RETICULATION
EX RW	EXISTING RECYCLED WATER RETICULATION
EX PS	EXISTING PRESSURE SEWER RETICULATION
SW	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
1125° 225°	HORIZONTAL BEND ANGLES IN MAIN
- - -	PROPOSED EASEMENT
- - -	SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 30 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 10 x SHORT SIDE
 - 10 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	135
DN100	PVC-M PN16	320
DN20 (LATERAL)	PE100 PN16	260

- 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 204.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

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

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

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

WORK AS CONSTRUCTED

PLAN
 SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)
B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

DESIGN FILE N:\
 Plotted By: shanes Plot Date: 11/08/22 - 16:53 Cod File: N:\240072\DWG\Water & Sewer\Stage 28-WAC\240037(28)-WAC-104.dwg

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 28
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

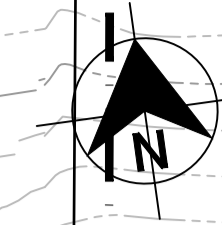
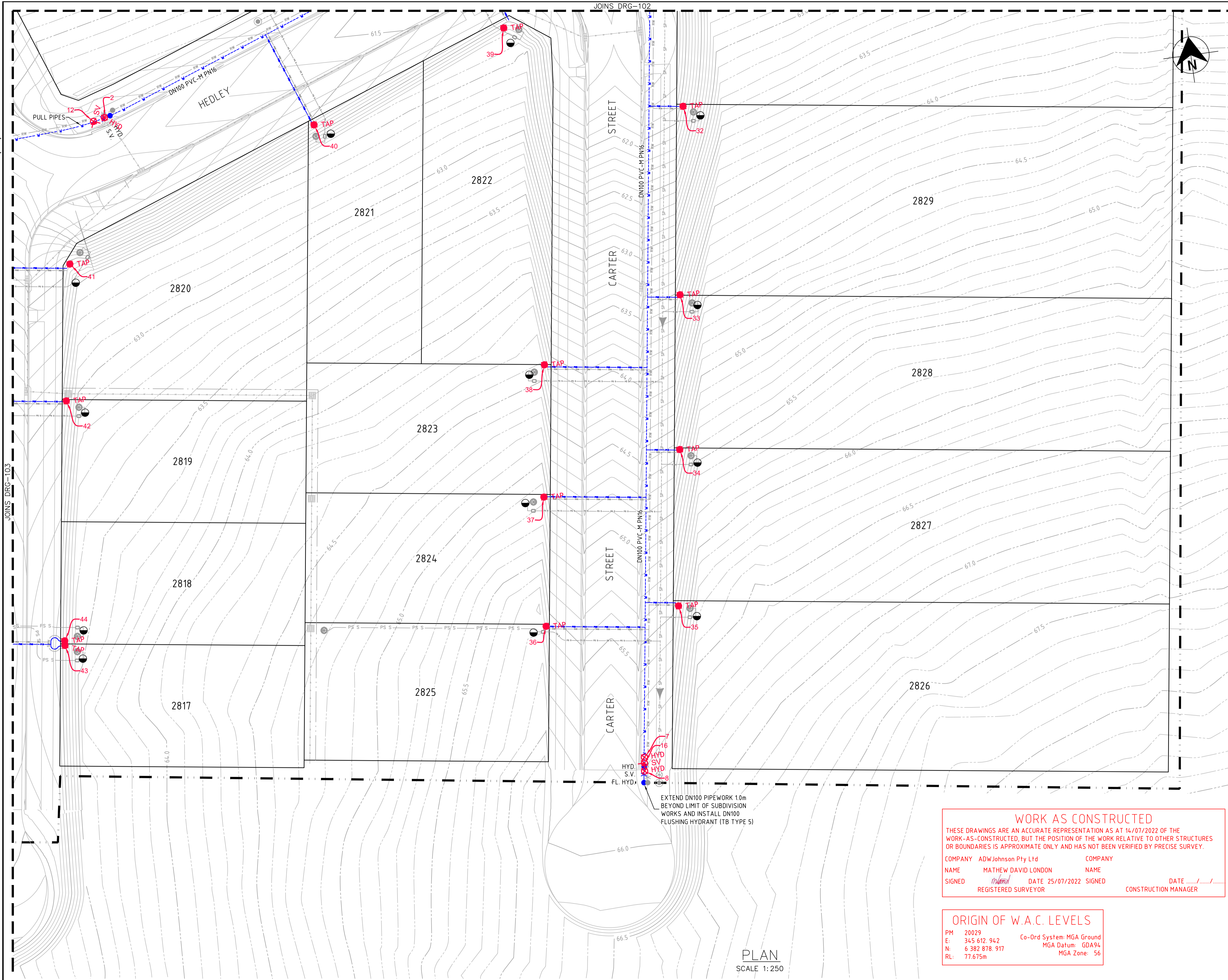
PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 3

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(28)	- WAC -	103	2

240037(28)-WAC-104

JOINS DRG-103

100mm AT FULL SIZE



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
*	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 30 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 10 x SHORT SIDE
 - 10 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	135
DN100	PVC-M PN16	320
DN20 (LATERAL)	PE100 PN16	260

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED

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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

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

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345 612 962 MGA Datum: GDA94
 N: 6 382 878 917 MGA Zone: 56
 RL: 77.675m

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
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1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

DESIGN FILE N:\
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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 28
HUNTLEE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
POTABLE WATER DETAIL PLAN - SHEET 4

PROJECT No. 240037(28) DISCIPLINE - WAC - NUMBER 104 REV. 2

240037(28)-WAC-204

WORK AS CONSTRUCTED

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COMPANY ADWJohnson 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



DIAL 1100
BEFORE YOU DIG

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
11.25° 22.5°		HORIZONTAL BEND ANGLES IN MAIN
---	---	PROPOSED EASEMENT
- - - -	- - - -	SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 30 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 10 x SHORT SIDE
 - 10 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE

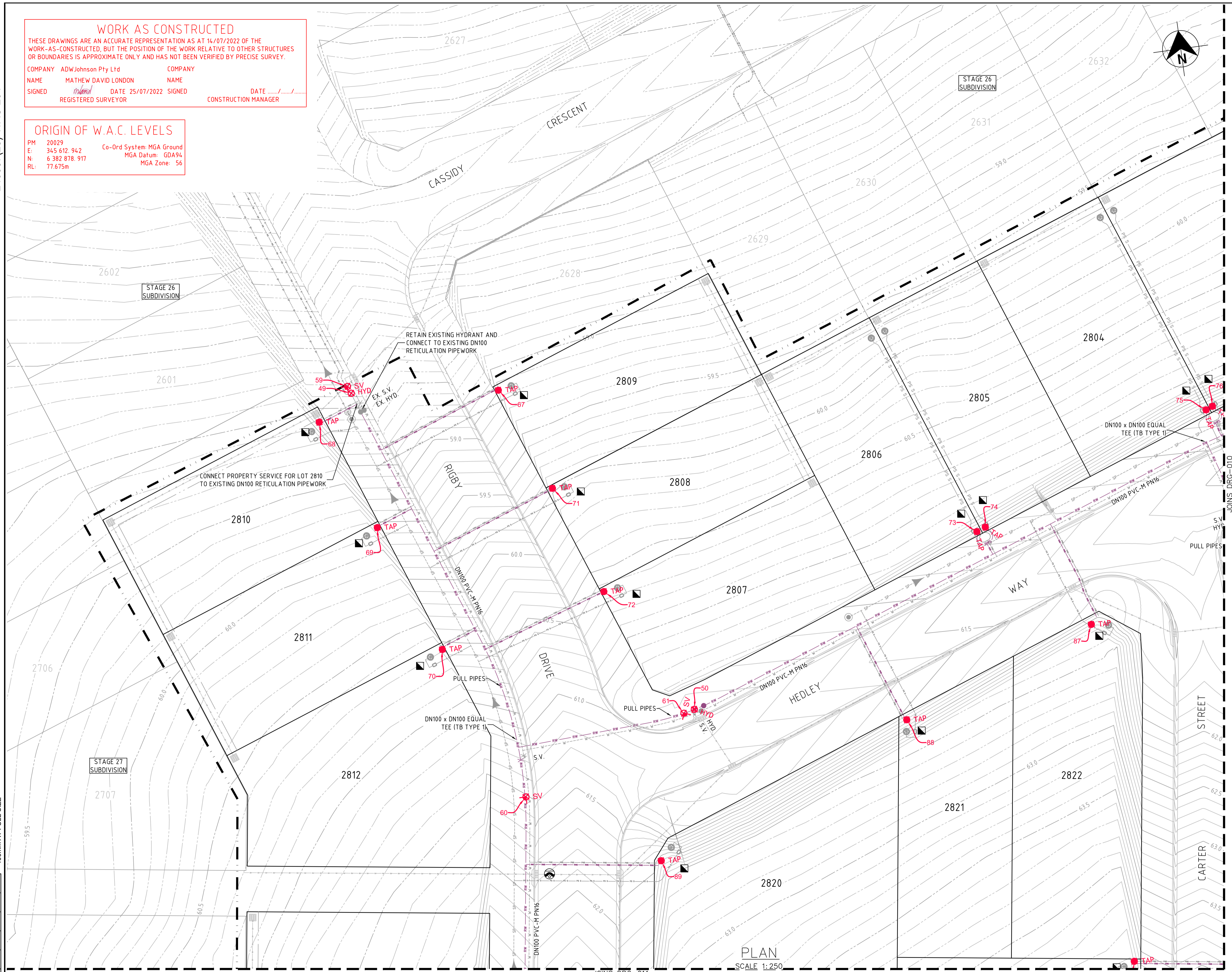
RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	455
DN25 (LATERAL)	PE100 PN16	260

- 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 104.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 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



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

DESIGN FILE N:\
 Plotted By: shanes Plot Date: 11/08/22 - 16:53 Cod File: N:\240072\DWG\Water & Sewer\Stage 28-WAC\240037(28)-WAC-204.dwg

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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 28
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 1		
PROJECT No.	240037(28)	DISCIPLINE	- WAC -
NUMBER	201	REV.	2

240037(28)-WAC-204

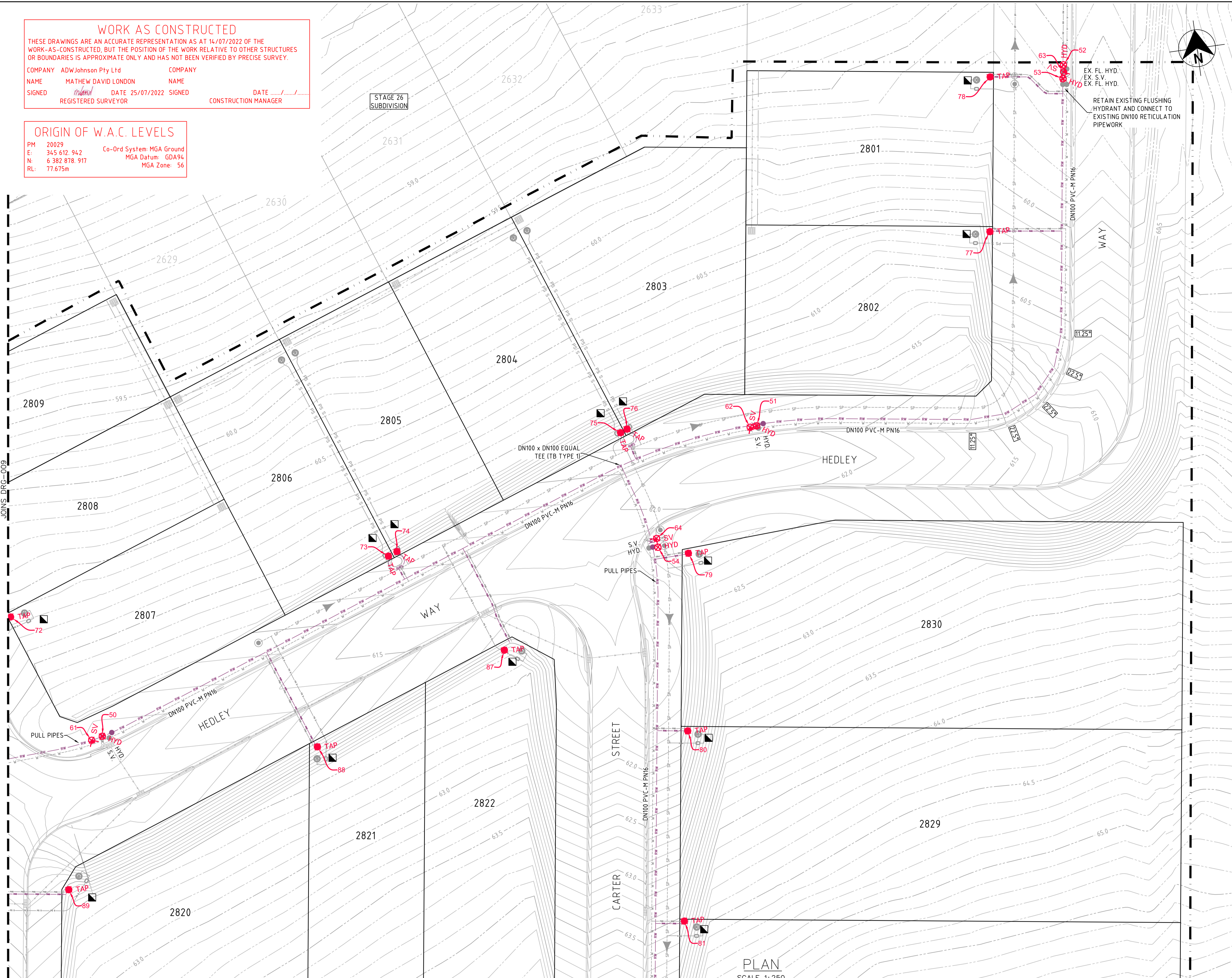
WORK AS CONSTRUCTED

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 [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



DIAL 1100 BEFORE YOU DIG

- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - PWS PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PWS EXISTING POTABLE WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW EXISTING 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 30 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 10 x SHORT SIDE
 - 10 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	455
DN25 (LATERAL)	PE100 PN16	260

- 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 104.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)
B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

DESIGN FILE N:\
Plotted By: shanes Plot Date: 11/08/22 - 16:54 Cod File: N:\240072\DWG\Water & Sewer\Stage 28-WAC\240037(28)-WAC-204.dwg

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 28
HUNTLEE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

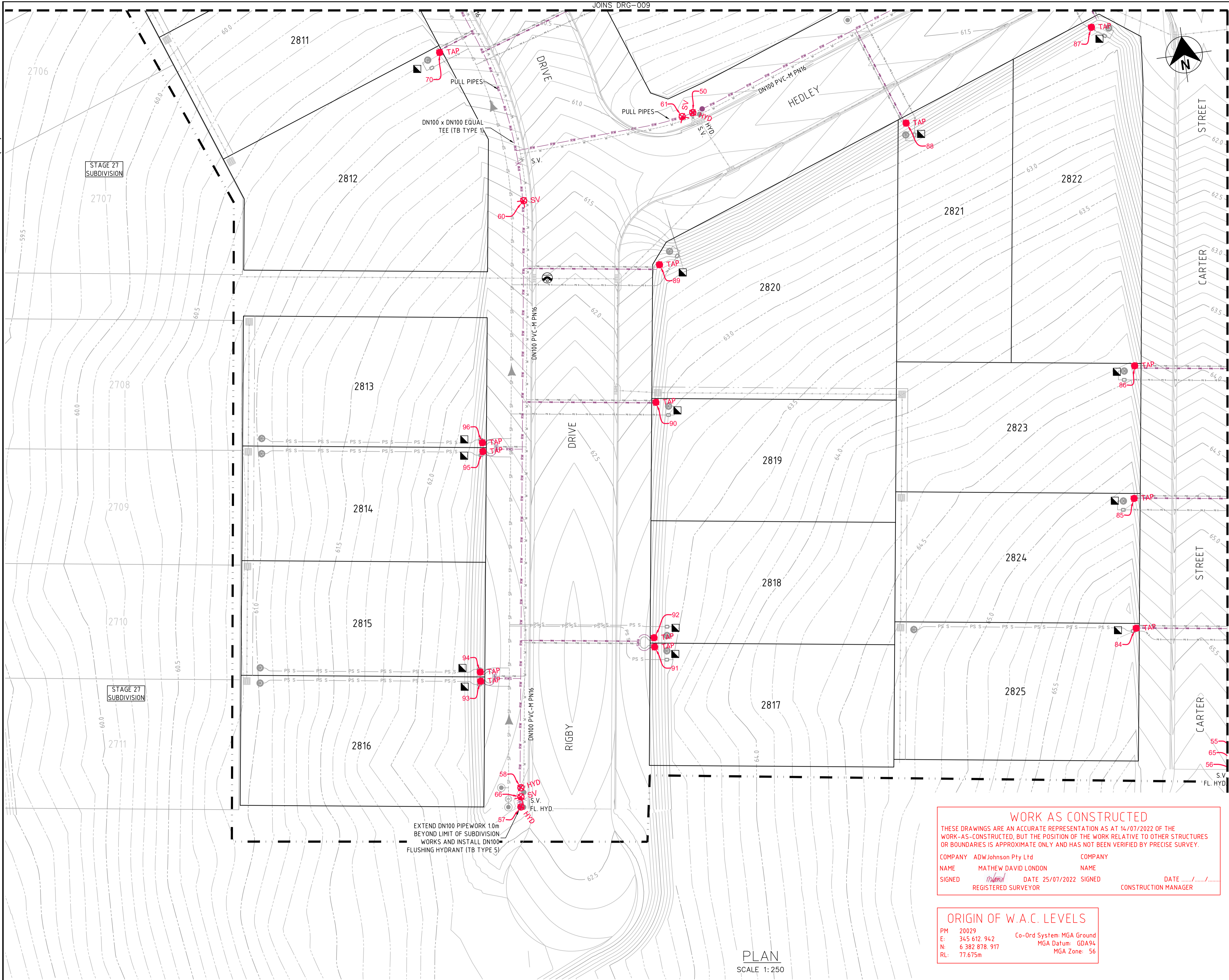
PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
RECYCLED WATER DETAIL
PLAN - SHEET 2

PROJECT No. 240037(28)	DISCIPLINE - WAC -	NUMBER 202	REV. 2
---------------------------	-----------------------	---------------	-----------

240037(28)-WAC-204

100mm AT FULL SIZE



LEGEND

	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	PWS	PVC-M POTABLE WATER RETICULATION
	PWS	POTABLE WATER PROPERTY SERVICE
	SP	PE PRESSURE SEWER RETICULATION
	PS S	PE PRESSURE SEWER PROPERTY SERVICE
	EX RW	EXISTING RECYCLED WATER RETICULATION
	EX PW	EXISTING POTABLE WATER RETICULATION
	EX PS	EXISTING PRESSURE SEWER RETICULATION
	SW	EXISTING 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
	11.25° 22.5°	HORIZONTAL BEND ANGLES IN MAIN
		PROPOSED EASEMENT
		SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 30 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 10 x SHORT SIDE
 - 10 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	455
DN25 (LATERAL)	PE100 PN16	260

- 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 104.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/07/2022 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 [Signature] DATE 25/07/2022 SIGNED [Signature] DATE [Signature]
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029
 E: 345 612 942 Co-Ord System: MGA Ground
 N: 6 382 878 917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56

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

WORK AS CONSTRUCTED

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)
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0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 28
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

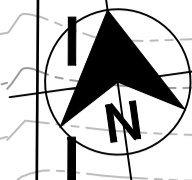
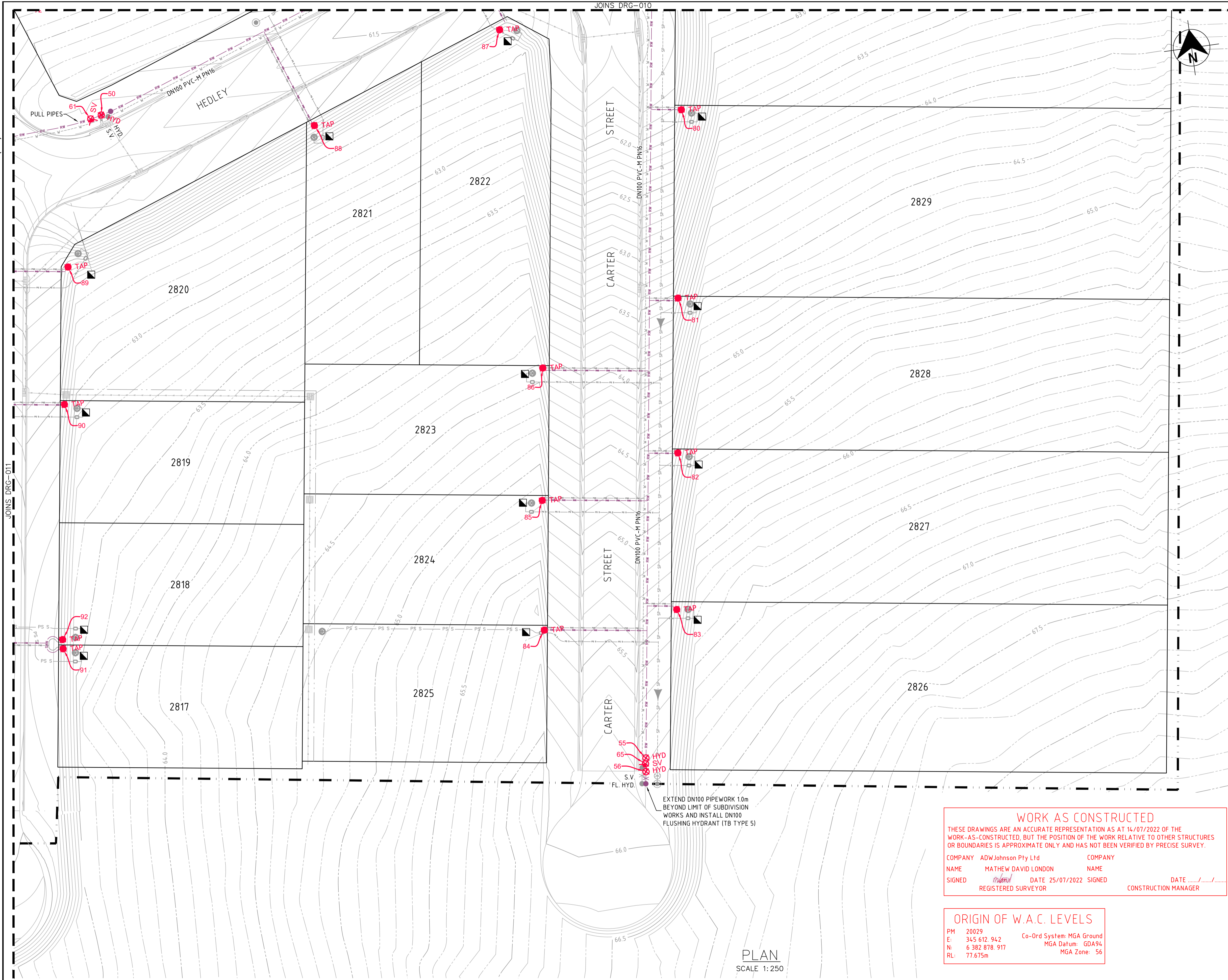
PLAN TITLE
 RECYCLED WATER DETAIL
 PLAN - SHEET 3

PROJECT No. 240037(28) DISCIPLINE - WAC - NUMBER 203 REV. 2

240037(28)-WAC-204

JOINS DRG-011

100mm AT FULL SIZE



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
11.25°	22.5°	HORIZONTAL BEND ANGLES IN MAIN
- - - - -	- - - - -	PROPOSED EASEMENT
- - - - -	- - - - -	SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 30 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 10 x SHORT SIDE
 - 10 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	455
DN25 (LATERAL)	PE100 PN16	260

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

EXTEND DN100 PIPEWORK 1.0m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL DN100 FLUSHING HYDRANT (TB TYPE 5)

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>MatheW</i>	DATE	25/07/2022
REGISTERED SURVEYOR		SIGNED	
		CONSTRUCTION MANAGER	

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

ORIGIN OF W.A.C. LEVELS

PM	20029	Co-Ord System:	MGA Ground
E	315 612 942	MGA Datum:	GDA94
N	6 382 878 917	MGA Zone:	56
RL	77.675m		

WORK AS CONSTRUCTED

PLAN
 SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
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2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

adw Johnson

Hunter Office
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 Phone: (02) 4978 5100
 Fax: (02) 4978 5199
 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 28
 HUNTLEE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 4

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(28)	- WAC -	204	2

240037(28)-WAC-304

WORK AS CONSTRUCTED

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COMPANY ADWJohnson 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



DIAL 1100
BEFORE YOU DIG

- 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

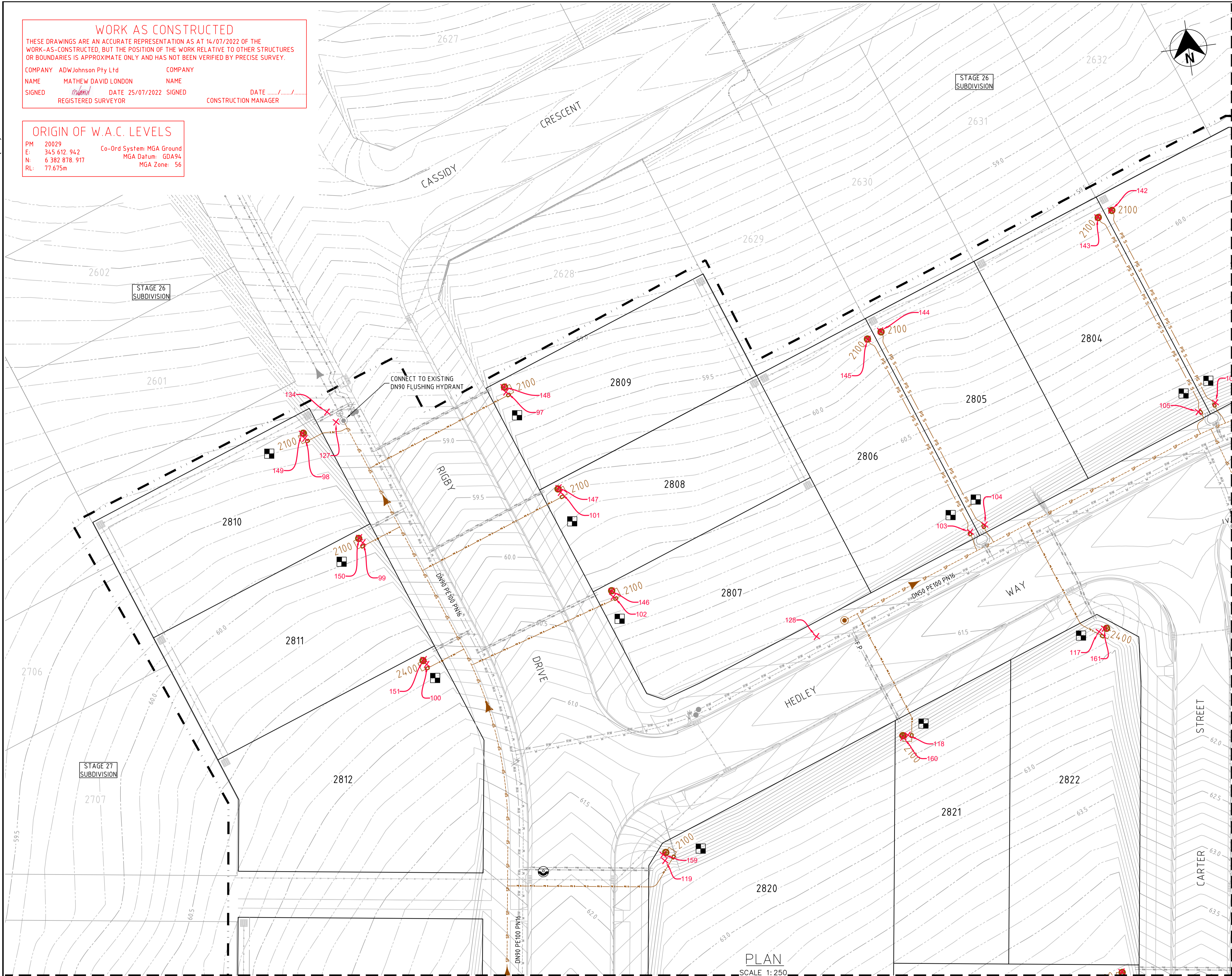
- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
- TOTAL 30 CONNECTIONS
- SINGLE SERVICES
- 18 x SHORT SIDE
- 12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN90	PE100 SDR11	134
DN50	PE100 SDR11	270
DN40 (LATERAL)	PE100 SDR11	543

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - 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).
 - 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 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

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email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 28
HUNTLEE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 1		
PROJECT No.	240037(28)	DISCIPLINE	- WAC -
NUMBER	301	REV.	2

240037(28)-WAC-304

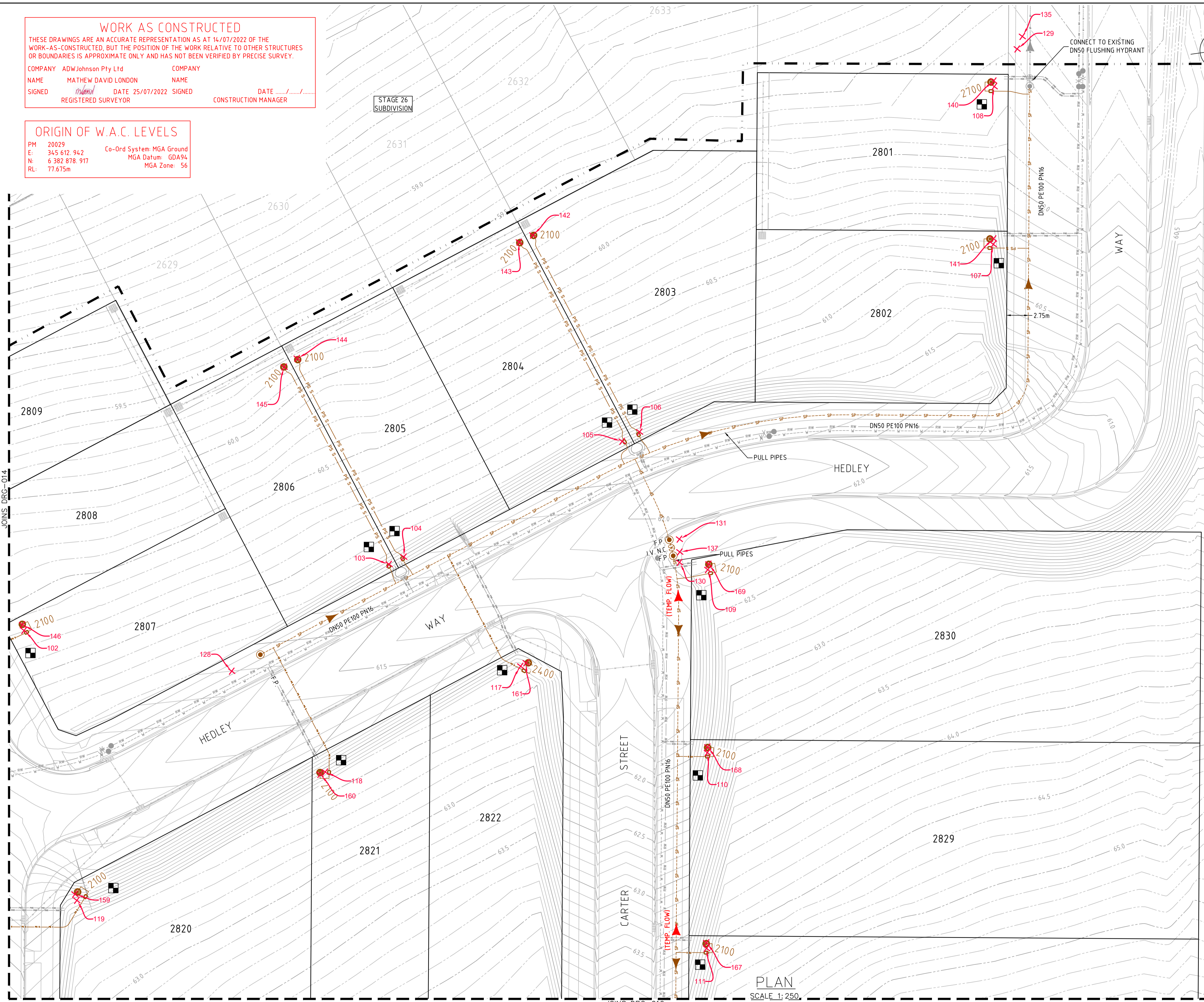
WORK AS CONSTRUCTED

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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



- 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 30 CONNECTIONS
• SINGLE SERVICES
- 18 x SHORT SIDE
- 12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN90	PE100 SDR11	134
DN50	PE100 SDR11	270
DN40 (LATERAL)	PE100 SDR11	543

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - 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

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DESIGN FILE N:\
Plotted By: shanes Plot Date: 11/08/22 - 16:54 Cod File: N:\240072\DWG\Water & Sewer\Stage 28-WAC\240037(28)-WAC-304.dwg

Hunter Office
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ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 28
HUNTLEE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

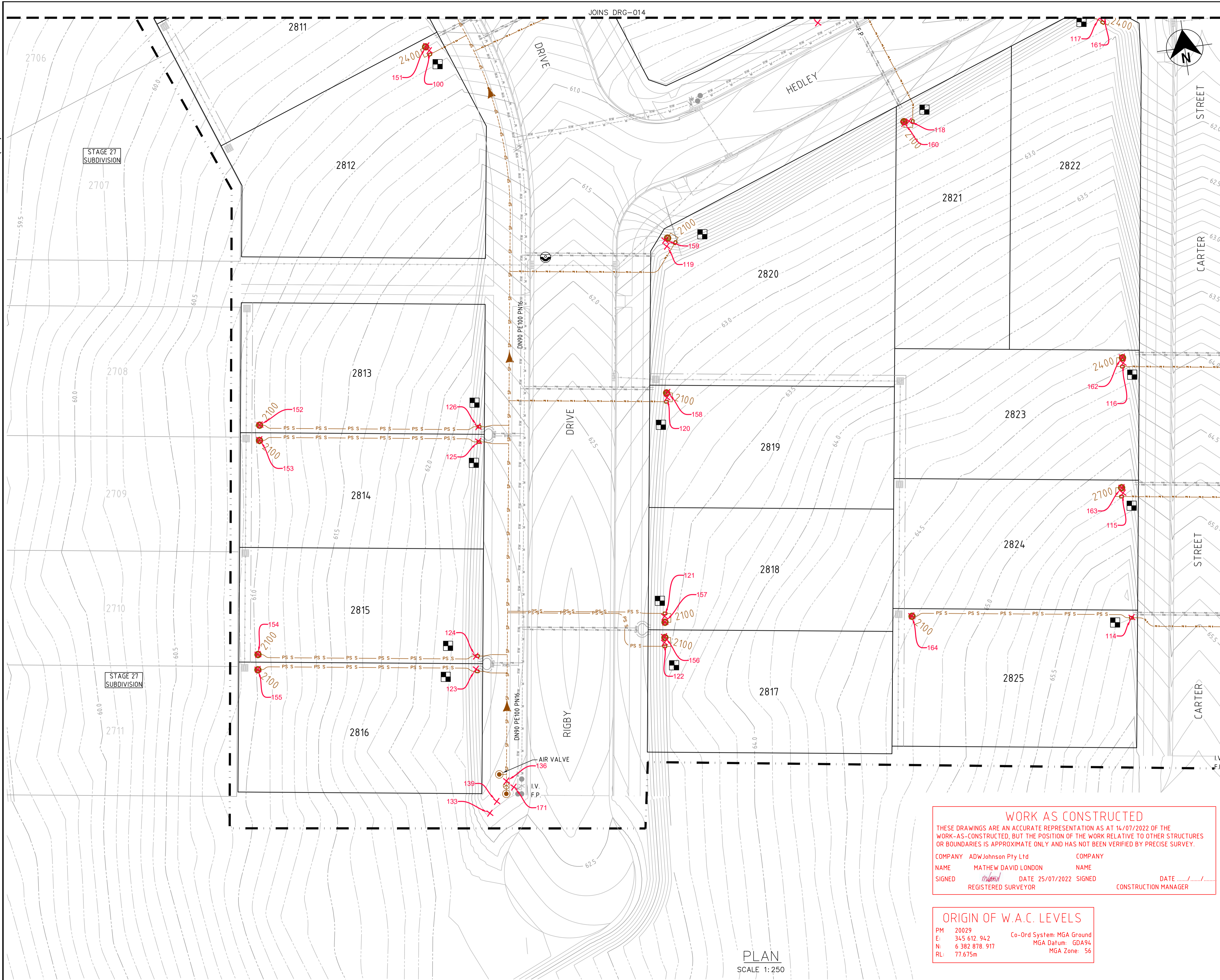
PROJECT
POTABLE WATER, RECYCLED WATER AND
PRESSURE SEWER RETICULATION

PLAN TITLE
PRESSURE SEWER DETAIL
PLAN - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(28)	- WAC -	302	2

240037(28)-WAC-304

100mm AT FULL SIZE



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 30 CONNECTIONS
 • SINGLE SERVICES
 -18 x SHORT SIDE
 -12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN90	PE100 SDR11	134
DN50	PE100 SDR11	270
DN40 (LATERAL)	PE100 SDR11	543

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - 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).

WORK AS CONSTRUCTED
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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

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

ORIGIN OF W.A.C. LEVELS
 PM 20029
 E: 345 612 942 Co-Ord System: MGA Ground
 N: 6 382 878 917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56

PLAN
 SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)
B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 28
 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 3		
PROJECT No.	240037(28)	DISCIPLINE	- WAC -
NUMBER	303	REV.	2



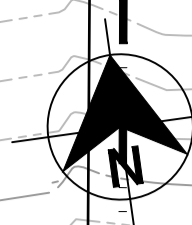
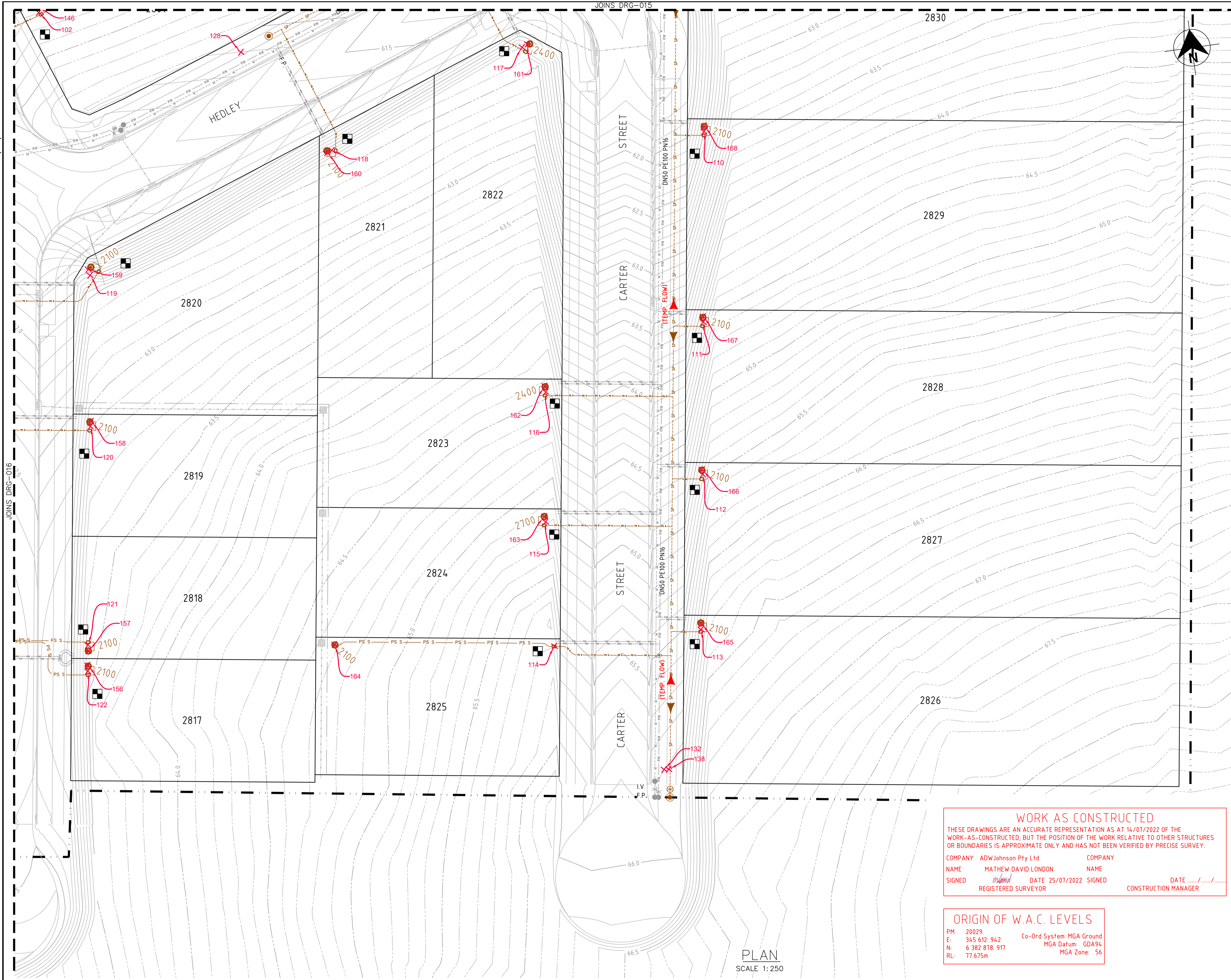
WORK AS CONSTRUCTED

240037(28)-WAC-304

JOINS DRG-016

100mm AT FULL SIZE

JOINS DRG-015



- 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
 - IV ISOLATION VALVE
 - IV (closed) ISOLATION VALVE - NORMALLY CLOSED
 - FP FLUSHING POINT
 - WWT WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PSD PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - PSD (temp) PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PC PROPERTY SERVICE CONNECTION
 - LS LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PE PROPOSED EASEMENT
 - SB SUBDIVISION STAGE BOUNDARY

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
- TOTAL 30 CONNECTIONS
- SINGLE SERVICES
- 18 x SHORT SIDE
- 12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN90	PE100 SDR11	134
DN50	PE100 SDR11	270
DN40 (LATERAL)	PE100 SDR11	543

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - 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.
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WORK AS CONSTRUCTED

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

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

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345 612.942 MGA Datum: GDA94
 N: 6 382 978.917 MGA Zone: 56
 RL: 77.675m

WORK AS CONSTRUCTED

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 28
HUNTLEE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 4

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(28)	- WAC -	304	2



Point Table				
Point #	Eastings	Northings	Levels	Codes
1	346937.68	6382920.46	58.28	waHYD
2	346976.20	6382872.45	61.13	waHYD
3	347065.74	6382900.58	62.12	waHYD
4	347112.27	638294.192	59.56	waHYD
5	347111.94	6382939.98	59.58	waHYD
6	347050.46	6382887.15	61.96	waHYD
7	347034.66	6382779.73	65.85	waHYD
8	347034.43	6382777.93	65.91	waHYD
9	34694.173	6382786.07	62.63	waHYD
10	34694.208	6382788.41	62.67	waHYD
11	346953.08	6382864.77	61.48	waSV
12	346974.73	6382872.16	61.10	waSV
13	347064.97	6382900.61	62.15	waSV
14	347112.11	6382940.88	59.57	waSV
15	347050.51	6382888.30	61.98	waSV
16	347034.56	6382778.97	65.88	waSV
17	34694.194	6382787.34	62.63	waSV
18	346937.24	6382921.53	58.28	waSV
19	346956.34	6382918.30	58.98	waTAP
20	346932.36	6382917.36	58.52	waTAP
21	346938.03	6382902.61	59.57	waTAP
22	34694.4.27	6382885.60	60.50	waTAP
23	346961.56	6382904.60	59.78	waTAP
24	346966.45	6382890.12	60.59	waTAP
25	347016.38	6382891.05	61.54	waTAP
26	347016.99	6382891.28	61.52	waTAP
27	347048.38	6382902.71	61.75	waTAP
28	347048.86	6382902.89	61.64	waTAP
29	347099.29	6382922.08	60.38	waTAP
30	347102.07	638294.194	59.66	waTAP
31	347054.78	6382886.22	62.03	waTAP
32	347051.46	6382863.43	62.13	waTAP
33	347047.65	6382839.05	63.69	waTAP
34	34704.4.81	6382818.99	64.82	waTAP
35	34704.182	6382798.73	65.57	waTAP
36	347024.28	6382798.48	65.49	waTAP
37	347026.33	6382815.28	64.86	waTAP
38	347028.80	6382832.43	64.14	waTAP
39	347029.62	6382876.85	61.85	waTAP
40	347003.26	6382867.72	61.85	waTAP
41	346969.07	6382854.09	61.69	waTAP
42	346966.13	6382836.41	62.51	waTAP
43	346961.52	6382804.72	62.84	waTAP
44	346961.58	6382805.32	62.91	waTAP
45	346938.34	6382803.39	62.82	waTAP
46	346938.44	6382804.00	62.82	waTAP
47	34694.2.82	6382833.16	62.46	waTAP
48	34694.2.85	6382833.69	62.43	waTAP
49	346937.20	6382920.33	58.33	waHYDR
50	346976.11	6382872.95	61.14	waHYDR
51	347065.76	6382901.06	62.19	waHYDR
52	347111.68	638294.192	59.57	waHYDR
53	347111.36	6382940.15	59.53	waHYDR
54	347050.90	6382887.25	61.97	waHYDR
55	347035.10	6382779.70	65.88	waHYDR
56	347034.87	6382777.92	65.90	waHYDR
57	34694.1.28	6382786.11	62.64	waHYDR
58	34694.1.61	6382788.61	62.67	waHYDR
59	346936.84	6382921.29	58.31	waSVR

Point Table				
Point #	Eastings	Northings	Levels	Codes
60	346952.60	6382864.61	61.54	waSVR
61	346974.68	6382872.62	61.13	waSVR
62	347064.91	6382901.00	62.18	waSVR
63	347111.56	6382941.00	59.58	waSVR
64	347050.89	6382888.39	62.01	waSVR
65	347034.96	6382778.95	65.88	waSVR
66	34694.1.46	6382787.41	62.66	waSVR
67	346956.40	6382918.05	58.98	waTAPR
68	346932.50	6382917.14	58.54	waTAPR
69	346938.16	6382902.36	59.56	waTAPR
70	34694.4.40	6382885.32	60.54	waTAPR
71	346961.66	6382904.30	59.81	waTAPR
72	346966.47	6382889.92	60.59	waTAPR
73	347016.11	6382890.95	61.55	waTAPR
74	347017.29	6382891.38	61.54	waTAPR
75	34704.8.16	6382902.63	61.74	waTAPR
76	34704.9.05	6382902.97	61.67	waTAPR
77	347099.23	6382921.82	60.39	waTAPR
78	347102.04	6382941.68	59.64	waTAPR
79	347054.71	6382885.92	62.02	waTAPR
80	347051.44	6382863.12	62.16	waTAPR
81	34704.7.59	6382838.75	63.75	waTAPR
82	34704.4.77	6382818.68	64.86	waTAPR
83	34704.1.79	6382798.40	65.61	waTAPR
84	347024.24	6382798.12	65.46	waTAPR
85	347026.32	6382814.98	64.92	waTAPR
86	347028.79	6382832.14	64.18	waTAPR
87	347029.32	6382876.78	61.91	waTAPR
88	347003.56	6382867.72	61.85	waTAPR
89	346969.04	6382853.84	61.68	waTAPR
90	346966.09	6382836.08	62.44	waTAPR
91	346961.49	6382804.42	62.88	waTAPR
92	346961.60	6382805.63	62.93	waTAPR
93	346938.33	6382803.13	62.78	waTAPR
94	346938.44	6382804.31	62.85	waTAPR
95	34694.2.78	6382832.84	62.53	waTAPR
96	34694.2.88	6382833.99	62.45	waTAPR
97	346958.27	6382917.72	59.24	seBDYKIT
98	346931.47	6382915.37	59.14	seBDYKIT
99	346937.07	6382900.85	59.88	seBDYKIT
100	34694.3.11	6382884.00	60.70	seBDYKIT
101	346963.50	6382903.78	60.11	seBDYKIT
102	346968.44	6382889.35	60.79	seBDYKIT
103	347015.71	6382891.28	61.74	seBDYKIT
104	347017.70	6382891.93	61.76	seBDYKIT
105	34704.7.31	6382902.69	62.04	seBDYKIT
106	34704.9.69	6382903.56	62.12	seBDYKIT
107	347097.66	6382921.01	60.86	seBDYKIT
108	347100.57	6382940.92	59.91	seBDYKIT
109	347055.85	6382884.97	62.35	seBDYKIT
110	347052.58	6382861.87	62.69	seBDYKIT
111	34704.9.02	6382837.17	64.32	seBDYKIT
112	347046.19	6382817.42	65.36	seBDYKIT
113	347043.18	6382797.34	66.16	seBDYKIT
114	347023.87	6382797.84	65.65	seBDYKIT
115	347024.97	6382814.12	65.29	seBDYKIT
116	347027.34	6382830.96	64.53	seBDYKIT
117	347030.52	6382876.08	62.25	seBDYKIT
118	347003.98	6382866.18	62.19	seBDYKIT

Point Table				
Point #	Eastings	Northings	Levels	Codes
119	346970.34	6382854.34	61.88	seBDYKIT
120	346967.62	6382834.73	63.16	seBDYKIT
121	346963.35	6382806.45	63.50	seBDYKIT
122	346962.86	6382803.05	63.52	seBDYKIT
123	346938.00	6382803.02	62.90	seBDYKIT
124	346938.18	6382804.71	62.90	seBDYKIT
125	34694.2.43	6382832.49	62.74	seBDYKIT
126	34694.2.63	6382834.38	62.76	seBDYKIT
127	346935.79	6382916.92	58.57	seFP
128	346993.95	6382880.55	61.41	seFP
129	347104.13	6382945.26	59.60	seFP
130	347052.42	6382886.38	62.11	seFP
131	347052.82	6382889.32	62.07	seFP
132	347035.85	6382779.87	65.91	seFP
133	346937.17	6382784.11	62.57	seFP
134	346934.79	6382918.38	58.43	seSV
135	347105.00	6382946.75	59.62	seSV
136	346939.91	6382787.98	61.85	seAIR-VALVE
137	347052.64	6382887.70	62.00	seSV
138	347036.45	6382779.80	65.91	seSV
139	346938.27	6382785.51	62.63	seSV
140	347100.60	6382941.64	59.92	seTANK2801
141	347097.80	6382921.70	60.85	seTANK2802
142	347039.66	6382930.29	59.84	seTANK2803
143	347037.83	6382929.65	59.86	seTANK2804
144	347007.73	6382918.89	59.87	seTANK2805
145	347005.94	6382918.03	59.87	seTANK2806
146	346968.34	6382890.11	60.78	seTANK2807
147	346963.38	6382904.42	60.14	seTANK2808
148	346958.09	6382918.43	59.23	seTANK2809
149	346931.23	6382916.07	59.22	seTANK2810
150	346936.73	6382901.58	59.91	seTANK2811
151	346942.87	6382884.67	60.83	seTANK2812
152	346914.42	6382838.58	61.15	seTANK2813
153	346914.11	6382836.67	61.12	seTANK2814
154	346910.00	6382808.88	61.12	seTANK2815
155	346909.73	6382806.94	61.14	seTANK2816
156	346962.97	6382803.83	63.56	seTANK2817
157	346963.30	6382805.69	63.56	seTANK2818
158	346967.82	6382835.41	63.19	seTANK2819
159	346970.21	6382855.16	61.95	seTANK2820
160	347003.29	6382865.96	62.20	seTANK2821
161	347031.27	6382876.41	62.26	seTANK2822
162	347027.32	6382831.76	64.54	seTANK2823
163	347024.92	6382814.86	65.26	seTANK2824
164	346995.37	6382802.04	64.76	seTANK2825
165	34704.3.30	6382798.11	66.17	seTANK2826
166	34704.6.21	6382818.07	65.40	seTANK2827
167	34704.9.12	6382837.88	64.29	seTANK2828
168	347052.73	6382862.58	62.66	seTANK2829
169	347056.08	6382885.66	62.36	seTANK2830
171	346940.75	6382787.05	61.85	seFILTRATION-POINT

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 NAME MATHEW DAVID LONDON NAME
 SIGNED *mat* DATE 25/07/2022 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

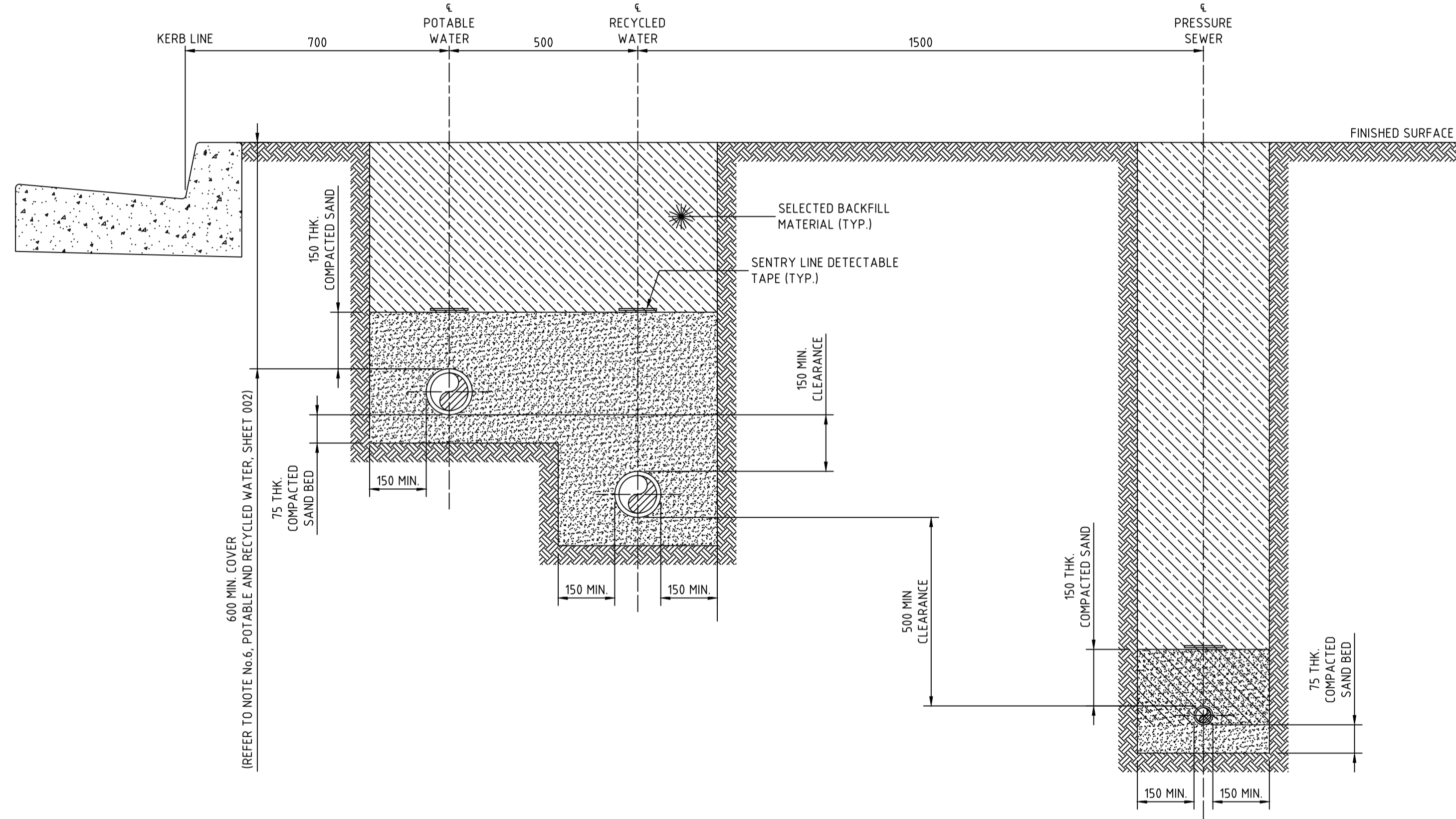
ORIGIN OF W.A.C. LEVELS

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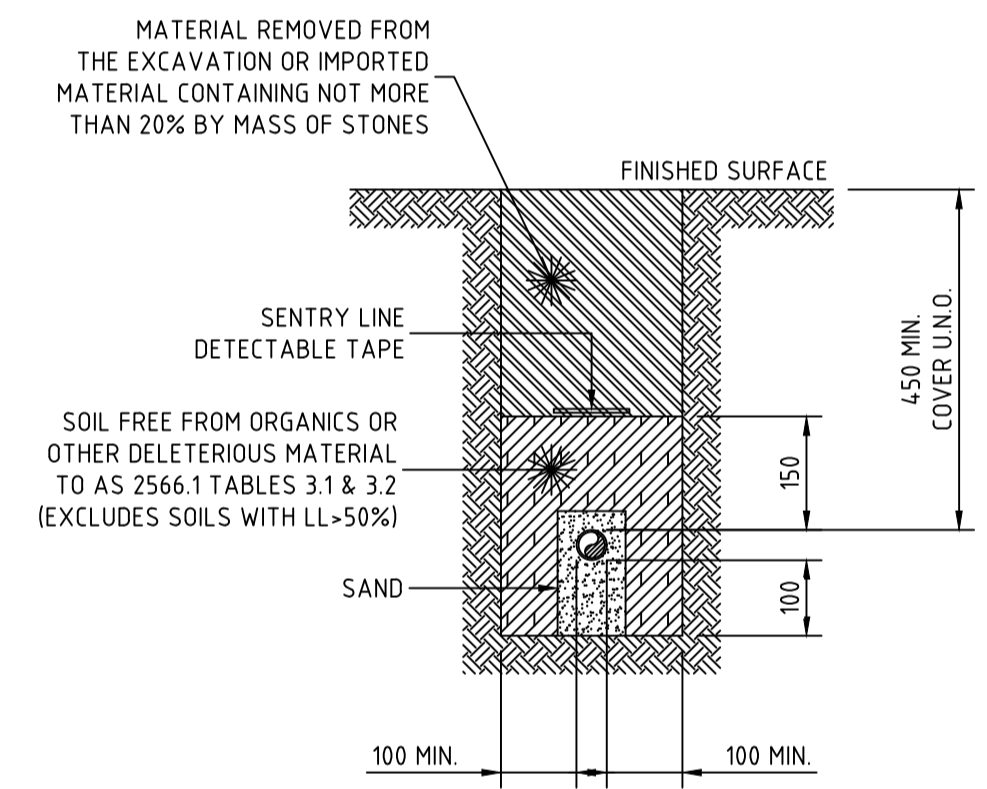
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 BY ADW Johnson Pty Ltd
 Date Approved: 03/06/2022

WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	<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 28 HUNTLEE	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	PLAN TITLE				FITTINGS TABLE		
B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	PROJECT No.				240037(28)		
0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	DISCIPLINE				- WAC -		
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	NUMBER	351					
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	REV.	2					
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED		DATUM	GDA94 MGA56 - A.H.D.
Plotted By: shones Plot Date: 11/08/22 - 16:54 Cod File: N:\240072\DWG\Water & Sewer\Stage 28-WAC\240037(28)-WAC-351.dwg								Daly.Smith Pty Ltd					



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 *mathew* DATE 25/07/2022 SIGNED DATE
REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
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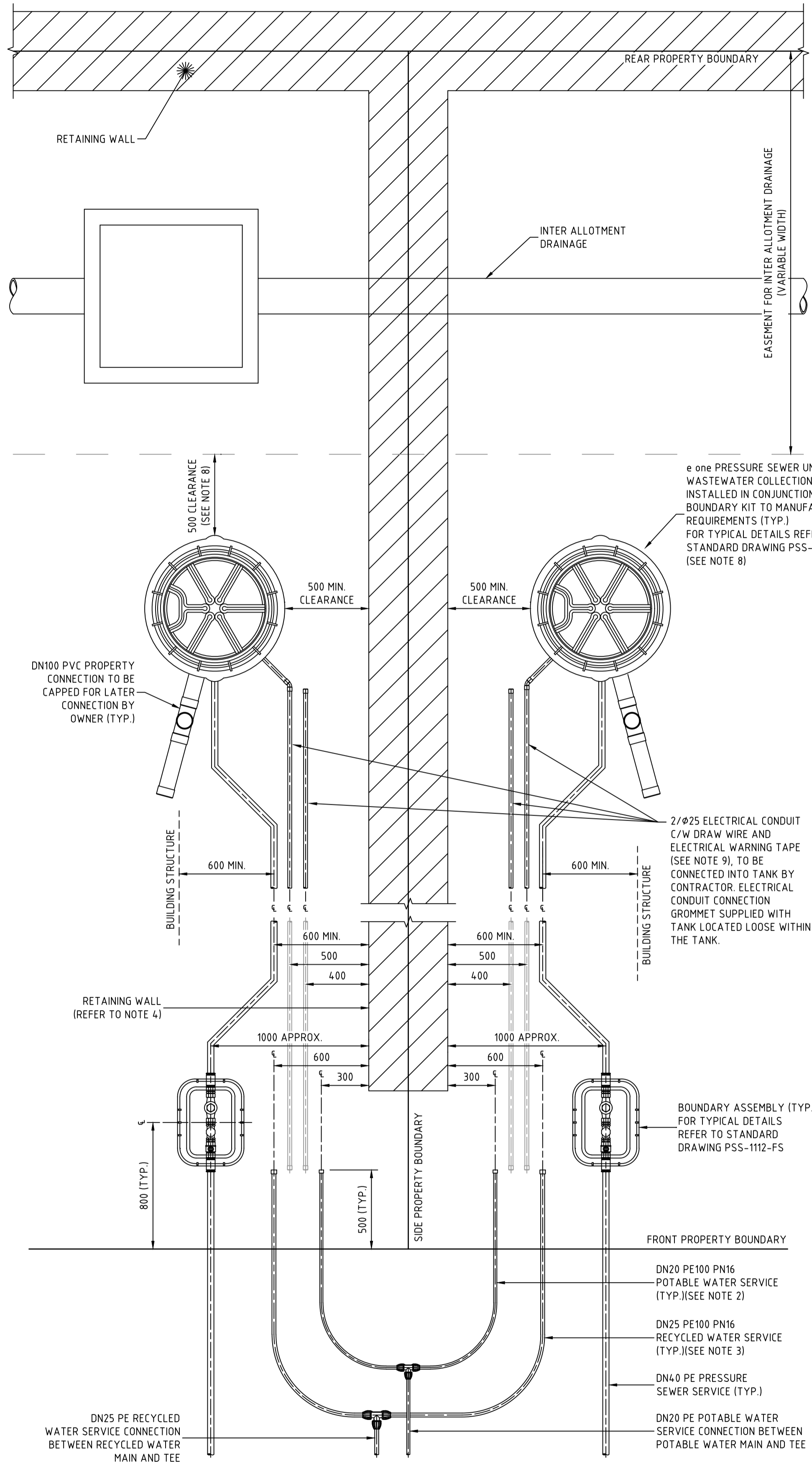
APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 03/06/2022

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

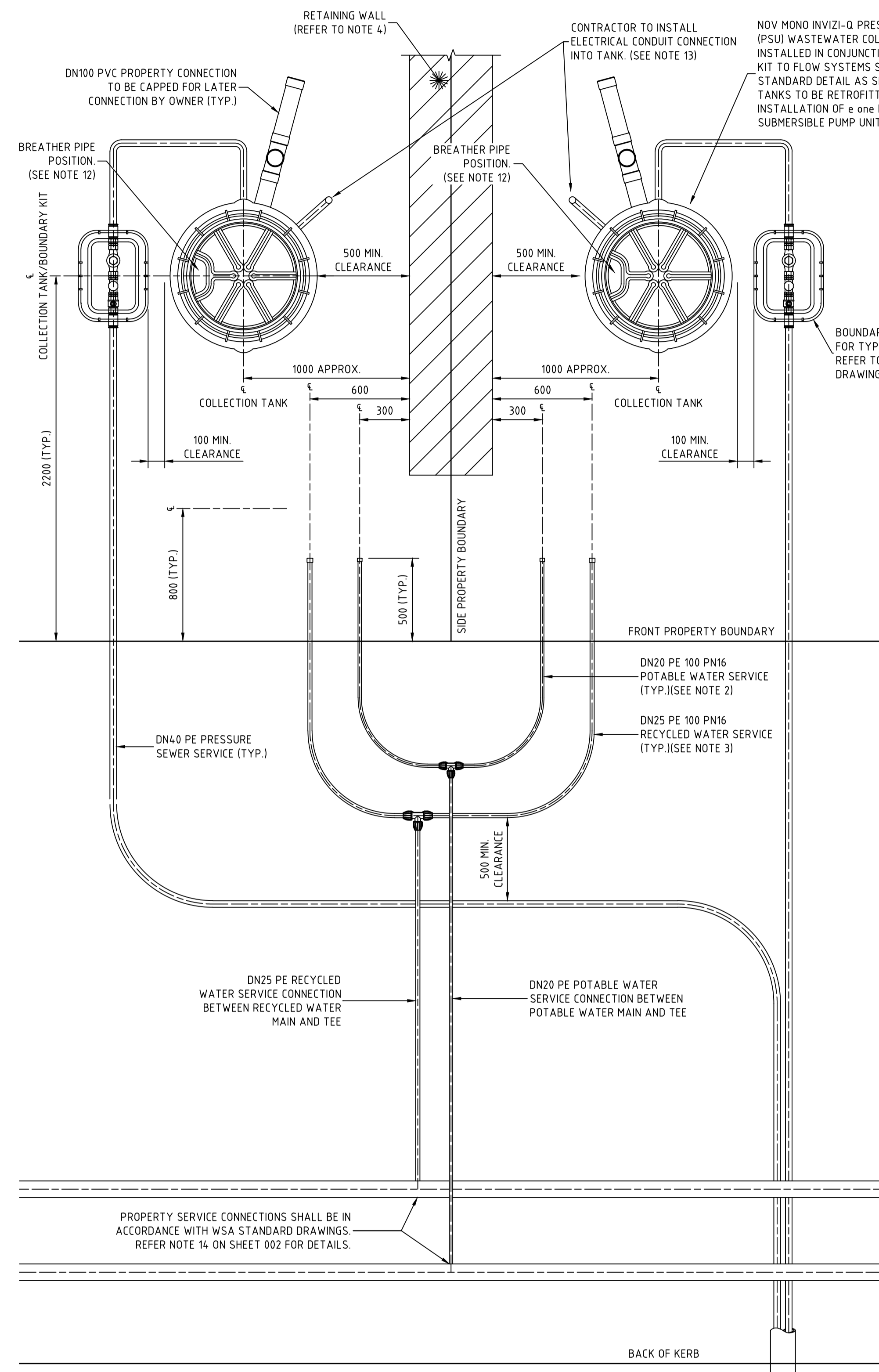
WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.				
A	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 PROPOSED SUBDIVISION STAGE 28 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PIPEWORK TRENCHING DETAILS	240037(28)	- WAC -	401	2				
B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.													
0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.													
1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.													
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.													
DESIGN FILE N:\								SURVEYED Daly Smith Pty Ltd		DATUM GDA94 MGA56 - A.H.D.		PROJECT No. 240037(28)		DISCIPLINE - WAC -		NUMBER 401		REV. 2	

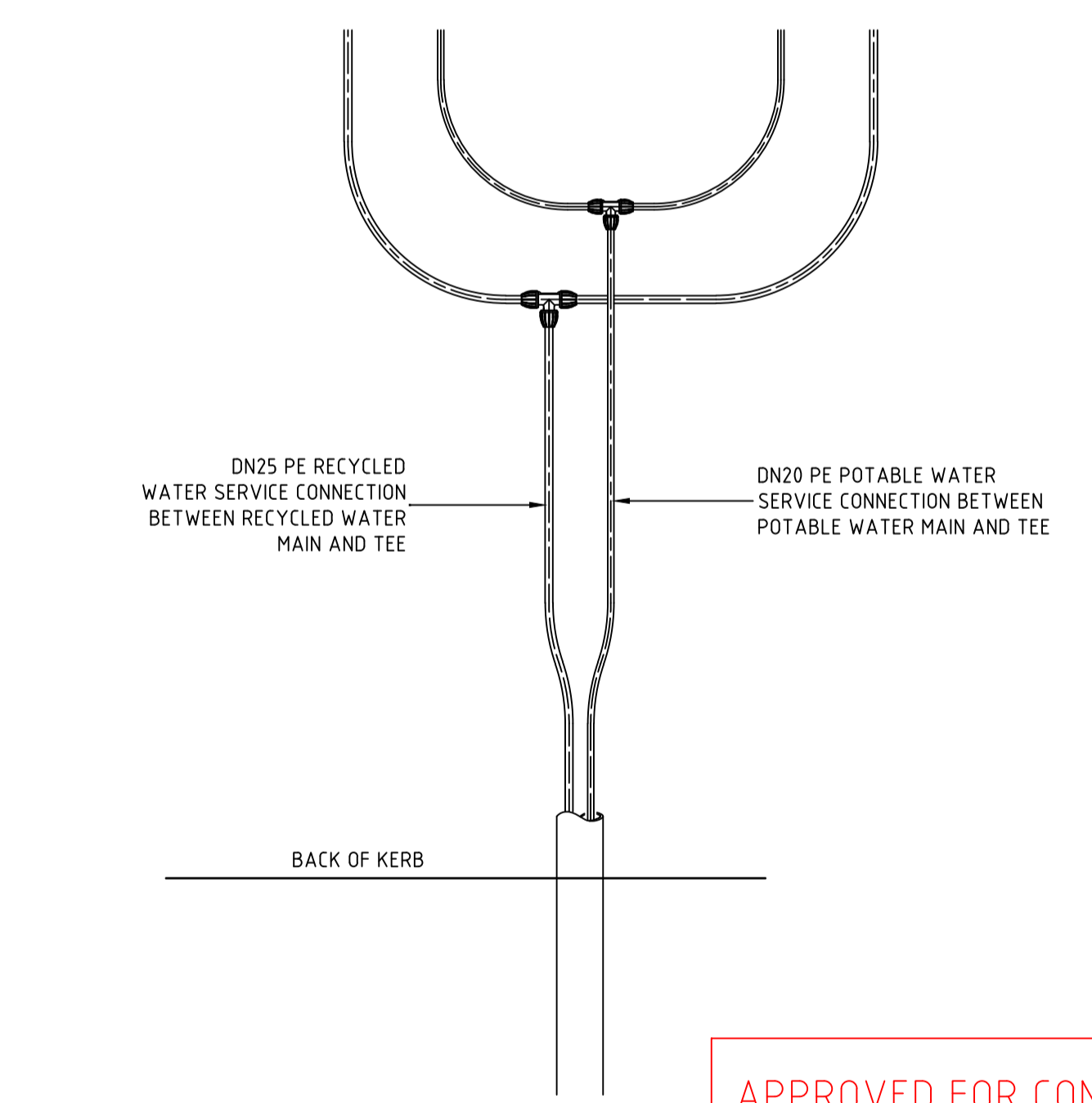
240037(28)-WAC-401



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



TYPICAL PROPERTY CONNECTION DETAIL
SCALE 1:20



TYPICAL POTABLE WATER AND
RECYCLED WATER CONDUIT DETAIL
(LONG SIDE)
SCALE 1:20

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

COMPANY NAME
 SIGNED [Signature] DATE 25/07/2022 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

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1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1:20 / 1:40
2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

DESIGN FILE N:\
 Plotted By: shanes Plot Date: 11/08/22 - 16:55 Cod File: N:\240072\DWG\Water & Sewer\Stage 28-WAC\240037(28)-WAC-401.dwg

adw Johnson

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

CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 28
 HUNTLEE

SURVEYED
 Daly Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND
 PRESSURE SEWER RETICULATION

PLAN TITLE
 TYPICAL SERVICE
 CONNECTION DETAILS

PROJECT No.
 240037(28)

DISCIPLINE
 - WAC -

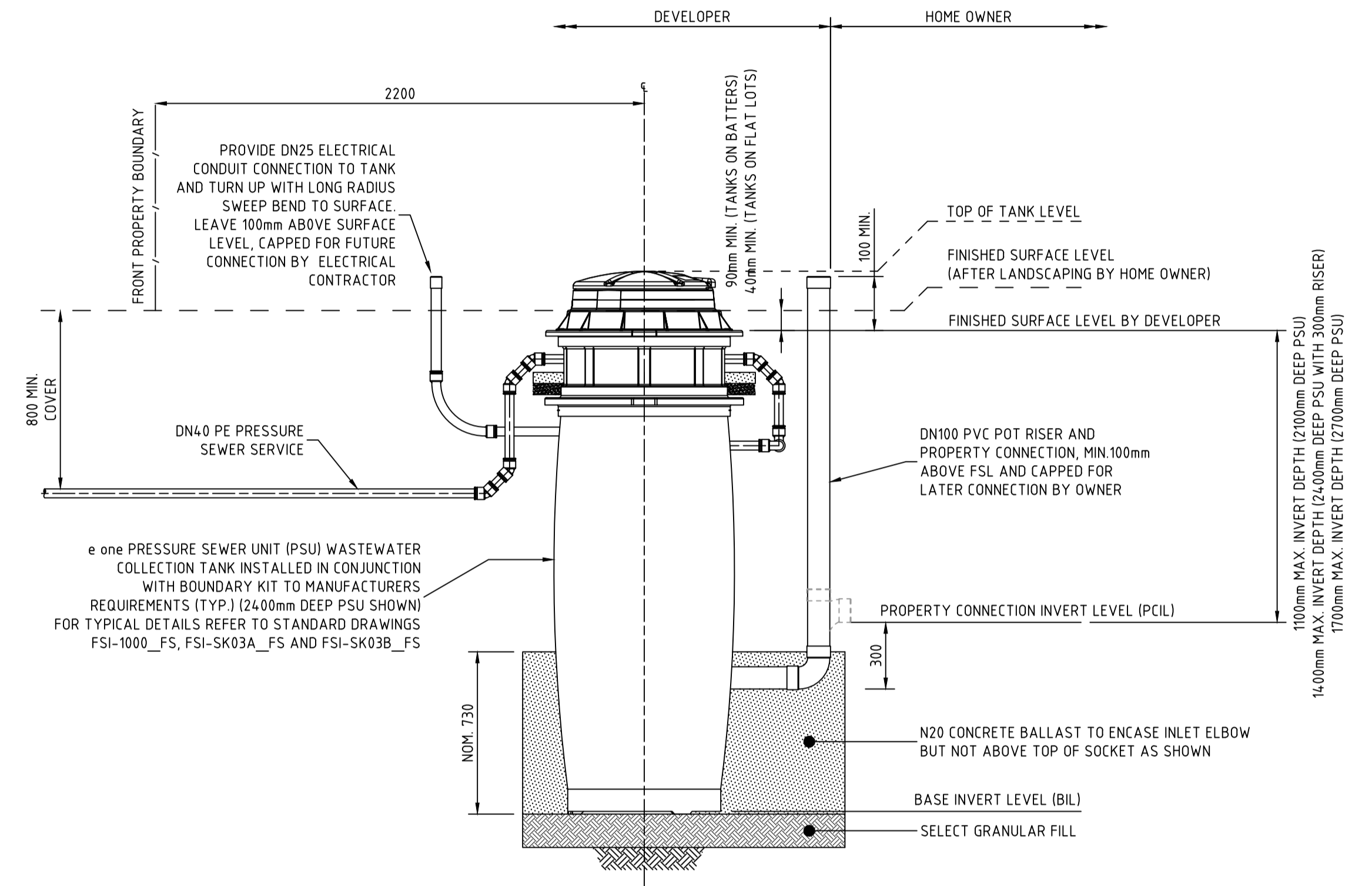
NUMBER
 402

REV.
 2



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
2801	59.88	59.75	57.15	58.05	2700	FRONT	347100.24	638294.154	59.880	57.97	-0.08
2802	60.81	60.68	58.68	59.58	2100	FRONT	347097.34	6382921.75	60.810	59.50	-0.08
2803	59.86	59.73	57.73	58.63	2100	REAR	347039.77	6382930.25	59.860	58.55	-0.09
2804	59.85	59.72	57.72	58.62	2100	REAR	347037.88	6382929.58	59.850	58.54	-0.08
2805	59.88	59.75	57.75	58.65	2100	REAR	347007.78	6382918.73	59.880	58.57	-0.08
2806	59.87	59.74	57.74	58.64	2100	REAR	347005.90	6382918.05	59.870	58.56	-0.09
2807	60.79	60.66	58.66	59.56	2100	FRONT	346968.33	6382890.16	60.790	59.48	-0.09
2808	60.15	60.02	58.02	58.92	2100	FRONT	346963.24	6382904.28	60.150	58.84	-0.09
2809	59.29	59.16	57.16	58.06	2100	FRONT	346958.16	6382918.39	59.290	57.98	-0.09
2810	59.25	59.12	57.12	58.02	2100	FRONT	346931.36	6382916.07	59.250	57.94	-0.09
2811	59.91	59.78	57.78	58.68	2100	FRONT	346936.61	6382901.48	59.910	58.60	-0.09
2812	60.81	60.68	58.68	59.58	2100	FRONT	346942.71	6382884.55	60.810	59.50	-0.08
2813	61.16	61.03	59.03	59.93	2100	REAR	346914.36	6382838.54	61.160	59.85	-0.09
2814	61.15	61.02	59.02	59.92	2100	REAR	346914.07	6382836.56	61.150	59.84	-0.09
2815	61.15	61.02	59.02	59.92	2100	REAR	346910.00	6382808.86	61.150	59.84	-0.09
2816	61.14	61.01	59.01	59.91	2100	REAR	346909.71	6382806.88	61.140	59.83	-0.08
2817	63.58	63.45	61.45	62.35	2100	FRONT	346963.02	6382803.70	63.580	62.27	-0.09
2818	63.57	63.44	61.44	62.34	2100	FRONT	346963.31	6382805.67	63.570	62.26	-0.09
2819	63.21	63.08	61.08	61.98	2100	FRONT BATTER	346967.66	6382835.36	63.210	61.90	-0.08
2820	61.98	61.85	59.85	60.75	2100	FRONT BATTER	346970.60	6382855.40	61.980	60.67	-0.09
2821	62.23	62.10	60.10	61.00	2100	FRONT BATTER	347003.31	6382866.20	62.230	60.92	-0.09
2822	62.28	62.15	59.85	60.75	24.00	FRONT BATTER	347031.55	6382876.38	62.280	60.67	-0.08
2823	64.56	64.43	62.13	63.03	24.00	FRONT	347027.35	6382831.66	64.560	62.95	-0.08
2824	65.29	65.16	62.56	63.46	2700	FRONT	347024.89	6382814.84	65.290	63.38	-0.08
2825	64.81	64.68	62.68	63.58	2100	REAR	346995.41	6382801.98	64.810	63.50	-0.08
2826	66.20	66.07	64.07	64.97	2100	FRONT BATTER	347043.27	6382798.20	66.200	64.89	-0.08
2827	65.40	65.27	63.27	64.17	2100	FRONT BATTER	347046.17	6382817.99	65.400	64.09	-0.08
2828	64.30	64.17	62.17	63.07	2100	FRONT BATTER	347049.07	6382837.78	64.300	62.99	-0.09
2829	62.66	62.53	60.53	61.43	2100	FRONT BATTER	347052.70	6382862.51	62.660	61.35	-0.09
2830	62.33	62.20	60.20	61.10	2100	FRONT	347056.09	6382885.62	62.330	61.02	-0.09



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	26
24.00	2
2700	2

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 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 Co-Ord System: MGA Ground
 N: 6 382 878 917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56

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>02.08.2021</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>17.08.2021</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>24.09.2021</td> <td>ISSUED 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>03.06.2022</td> <td>ISSUED 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>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	02.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	B	17.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	0	24.09.2021	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1	03.06.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	2	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	<p>DESIGN FILE N:\</p> <p>Plotted By: shanes Plot Date: 11/08/22 - 16:55 Cod File: N:\240072\DWG\Water & Sewer\Stage 28-WAC\240037(28)-WAC-401.dwg</p>	<p>ALL DIMENSIONS ARE IN METRES. 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 28 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>	<p>PROJECT No. 240037(28)</p> <p>DISCIPLINE - WAC -</p> <p>NUMBER 403</p> <p>REV. 2</p>
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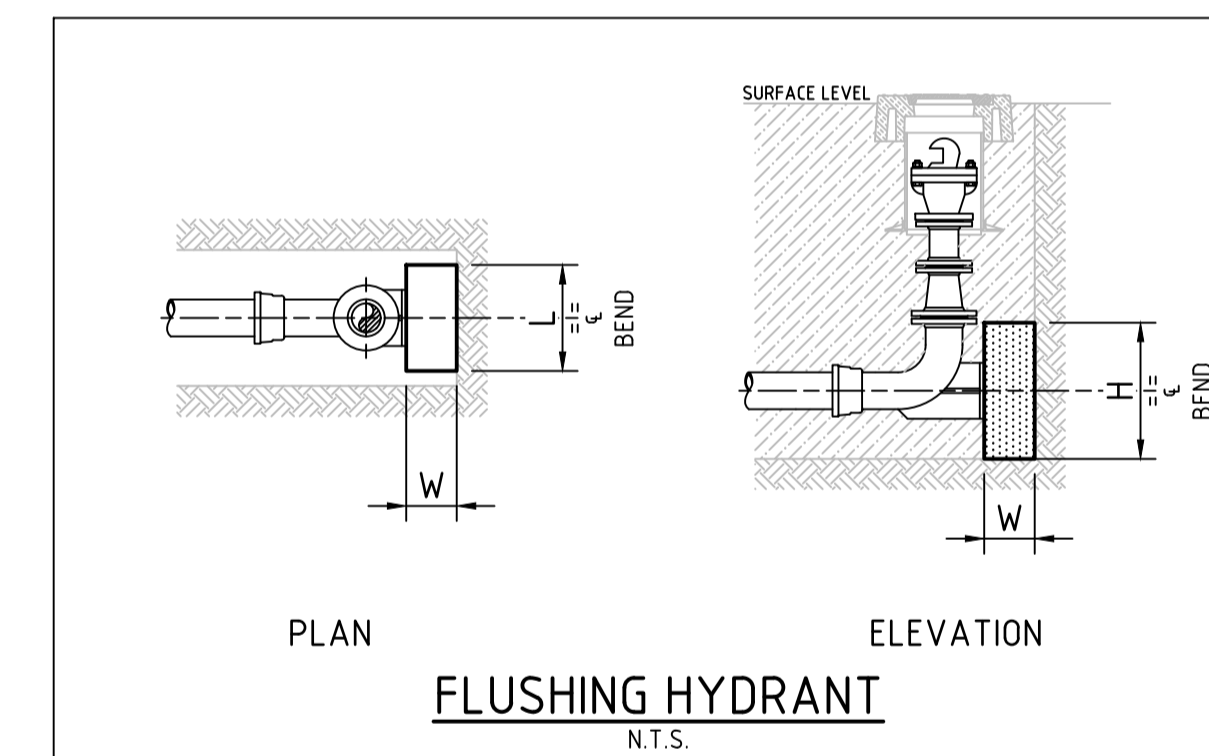
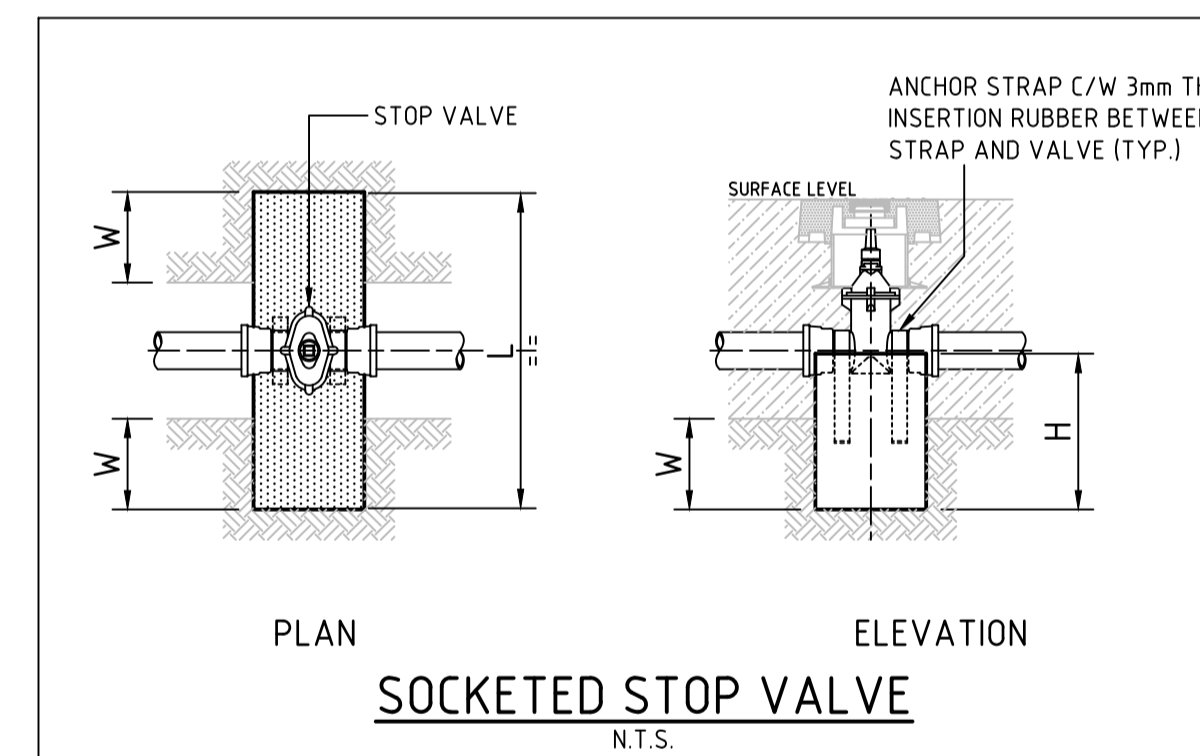
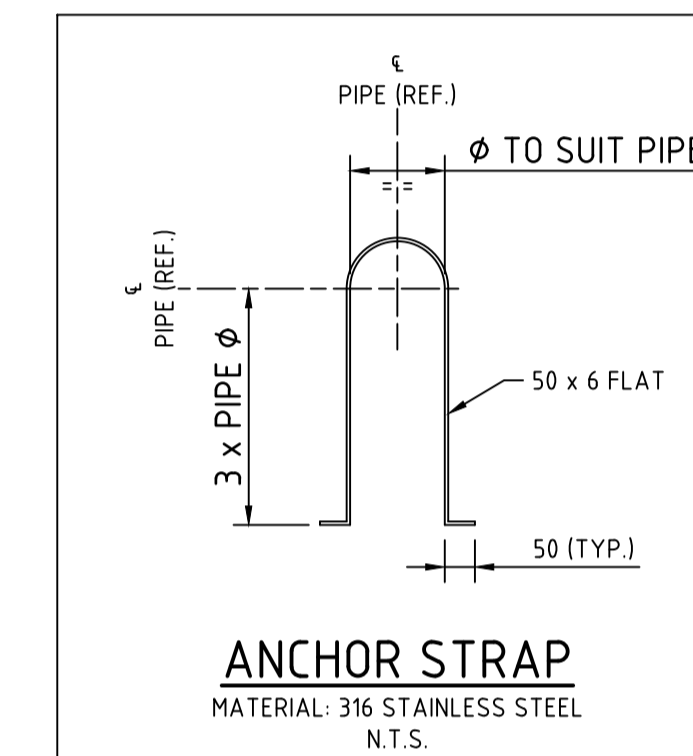
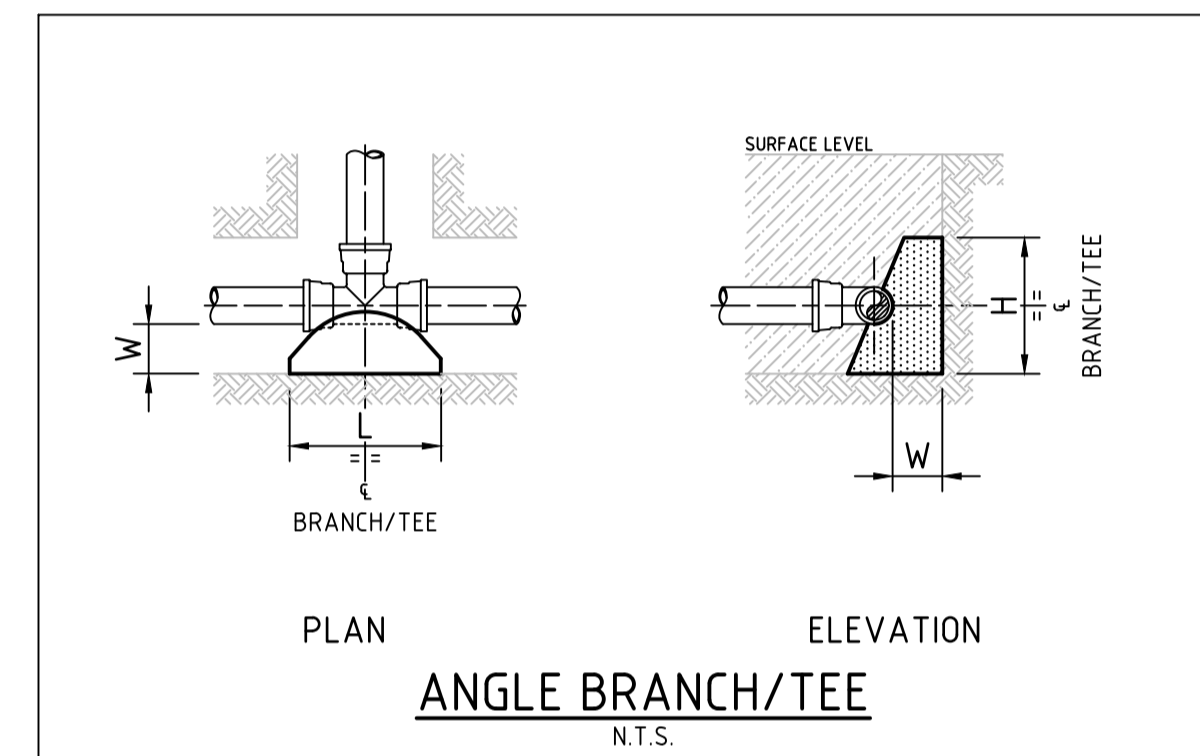


DIAL 1100
BEFORE YOU DIG

THRUST BLOCK NOTES:

- "N" DENOTES NOMINAL THRUST AREA TO BE ACHIEVED BY POURING CONCRETE THE FULL LENGTH OF THE FITTING AND EXTENDING FROM THE FLOOR OF THE TRENCH TO NOM. 100mm ABOVE THE FITTING.
- CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- THRUST BLOCK DIMENSIONS ARE BASED ON THE MINIMUM ALLOWABLE HORIZONTAL BEARING PRESSURES OF THE SOIL AS SHOWN. IF GROUND CONDITIONS ENCOUNTERED INDICATE THAT THESE BEARING PRESSURES MAY NOT BE ACHIEVED, THRUST BLOCK DESIGN IS TO BE REVISED.
- THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
- FINISH THRUST BLOCKS APPROXIMATELY 100mm ABOVE THE TOP OF THE FITTING OR BEARING PAD AND EXTEND TO THE FLOOR OF THE TRENCH OR DEEPER IF NECESSARY TO ACHIEVE THE REQUIRED THRUST AREA. MAXIMUM ENCASEMENT TO BE 180°.
- CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
- CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
- REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.
- THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.
- PROVIDE 3mm THK. INSERTION RUBBER BETWEEN ANCHOR STRAP AND PIPE BARREL.

TYPE	FITTING	SOIL AHBP (kPa)	DESIGN STP (kPa)	THRUST	TA (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 22.5° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
3	DN100 x 11.25° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
4	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
5	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
6	DN150 x DN100 REDUCING TEE	100	1500	18.00	0.18	0.40	0.45	0.30
7	DN150 SOCKETED STOP VALVE	100	1500	37.50	0.38	1.05	0.46	0.30
8	DN150 FLUSHING HYDRANT	100	1500	37.50	0.38	0.50	0.76	0.30



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adw Johnson
 Hunter Office
 Unit 7/335 Hillsborough Rd
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 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 28
 HUNTLEE
 SURVEYED: Daly Smith Pty Ltd
 DATUM: GDA94 MGA56 - A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
 PLAN TITLE: THRUST BLOCK DETAILS
 PROJECT No: 240037(28)
 DISCIPLINE: WAC
 NUMBER: 404
 REV: 2