240037(23A)-WAC-003

DIAL1100
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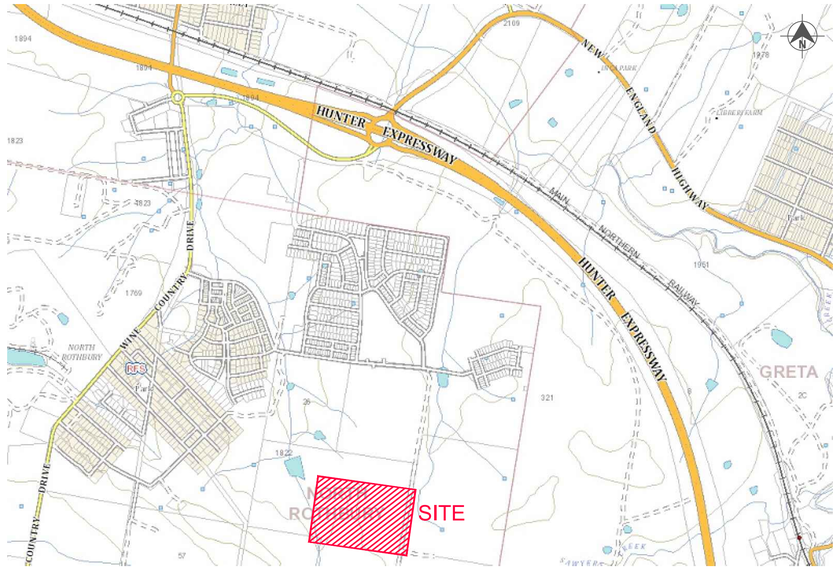
PROPOSED SUBDIVISION
STAGE 23A
FERRY PARADE, HUNTLEE



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX

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240037(23A)-WAC-004	POTABLE WATER DETAIL PLAN - SHEET 1
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240037(23A)-WAC-016	THRUST BLOCK DETAILS

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/09/2021 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 — DATE 30/09/2021 — SIGNED — DATE ...../...../.....
REGISTERED SURVEYOR — 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:25/03/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	C.B.	T.S.	C.B.
0	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.
2	**30.09.2021**	**WORK AS CONSTRUCTED**	**I.B.**	**C.B.**	**T.S.**	**C.B.**

SCALES

DESIGN FILE N:\

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: TITLE SHEET

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(23A)	- WAC -	001	2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:20 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-003.dwg

240037(23A)-WAC-003

PRESSURE SEWER NOTES:

1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON "POLYETHYLENE PIPING SYSTEMS"PRODUCT RANGE.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
   THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION.
   THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA.
5. ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
   ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
   INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED.
   600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS.
   MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS.
   MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND.
   THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
7. MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
8. MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
9. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
10. ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
11. MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 : R8.0m, DN250 : R5.0m, DN200 : R4.0m, DN160 : R3.2m, DN125 : R2.5m, DN90 : R1.8m, DN75 : R1.5m, DN63 : R1.3m, DN50 : R1.0m, DN40 : R0.8m).
12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
13. FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS.
    REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION.
    SMALL MAINS (≤ DN110)
    http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf
    LARGE MAINS (> DN110)
    http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf
14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION.
    THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
17. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
18. ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
19. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
20. FOR LOTS WITH TANKS IN THE REAR.
    1 x ϕ25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x ϕ25mm ELECTRICAL CONDUIT (ORANGE)(WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE . CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
22. UPON COMPLETION OF WORKS , ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE.
    THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 21.3.4) ARE:
    TRAFFICABLE
    PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
    NON-TRAFFICABLE
    PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4).
    e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
27. ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.
    ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000KPa.
28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
30. ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
31. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
32. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.

POTABLE WATER AND RECYCLED WATER NOTES:

1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
   THE 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.
5. THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
   INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED.
   600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS.
   MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V).
   MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND.
   THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
7. ALL POTABLE WATERMAINS TO BE BLUE PVC-M (PN16).
   ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16).
   DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATER MAINS.
   RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE WATER MAINS.
   150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.
8. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
9. LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL BE ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
10. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION PS-350, 368 AND 369.
    GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE ALTOGETHER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE AND THE NED FOR TRENCH DRAINAGE/BULKHEADS.
11. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
12. HYDRANTS , STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
13. HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
14. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
15. ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS.
    REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION.
    SINGLE SERVICE: *http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf*
    DUAL SERVICE: *http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf*
16. PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
17. SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc. SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
18. ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
19. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
20. WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1(SYDNEY WATER EDITION-2014. CLAUSE 19.7).
21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE . CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
22. UPON COMPLETION OF WORKS , ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE.
    THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
25. MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5) :
    TRAFFICABLE
    PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
    NON-TRAFFICABLE
    PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE.
    PROPERTY SERVICES
    TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES.
    TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
27. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
28. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
29. WHERE THE PIPE GRADE EXCEEDS 5% , TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/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:

1. THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS. ANY SERVICE LOCATIONS SHOWN IN THIS DRAWING SET ARE INDICATIVE ONLY.
3. MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENT AND FOOTPATHS) TO P.C.A. AND SUPERINTENDENT'S REQUIREMENTS.
4. SUITABLE PROTECTION TO EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

DIAL1100
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CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE (mm) NEW MAIN SIZE ≤ DN200	MINIMUM HORIZONTAL CLEARANCE (mm) NEW MAIN SIZE ≥ DN200	MINIMUM VERTICAL CLEARANCE (mm)
WATER MAINS > DN375	600	60	300
WATER MAINS < DN375	300 [4]	600	150
GAS MAINS	300 [4]	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300 [4]	600	150
ELECTRICITY CONDUITS AND CONDUITS	200	1000	225 [8]
STORMWATER DRAINS	300 [4]	600	150 [9]
SEWERS (GRAVITY)	1000 [6] / 600	1000 [6] / 600	500 [9]
SEWERS (PRESSURE AND VACUUM)	600	600	300 [9]
KERBS	150	600 [5]	150 (WHERE POSSIBLE)

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

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

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COMPANY ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 30/09/2021 — SIGNED — DATE ...../...../.....
REGISTERED SURVEYOR — 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
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BY ADW Johnson Pty Ltd
Date Approved:25/03/2021

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0	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.
2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.

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

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 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
PLAN TITLE: GENERAL NOTES

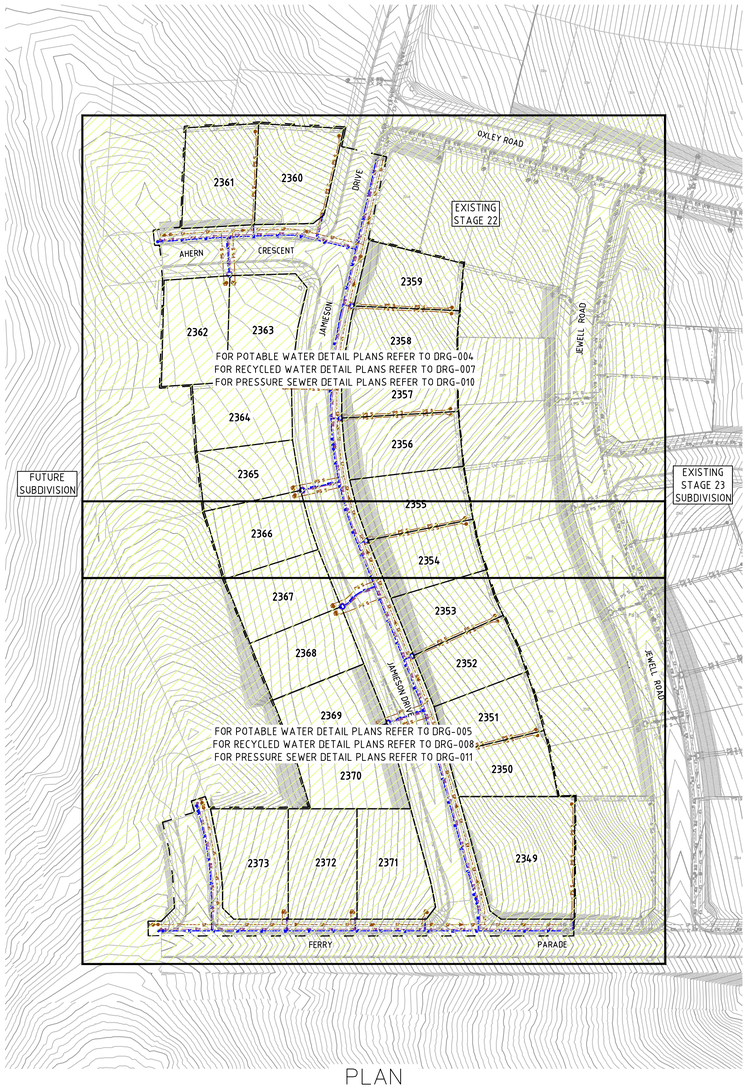
PROJECT No. 240037(23A) — DISCIPLINE - WAC - NUMBER 002 — REV. 2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:20 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-003.dwg

240037(23A)-WAC-003

DIAL1100
BEFORE YOU DIG



PLAN
SCALE 1:1000

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 30/09/2021	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		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:25/03/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	C.B.	T.S.	C.B.
0	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.
2	**30.09.2021**	**WORK AS CONSTRUCTED**	**I.B.**	**C.B.**	**T.S.**	**C.B.**

SCALES
0 10 20 30 40
A1 / A3
1:1000 / 1:2000

DESIGN FILE N:\
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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 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: OVERALL SITE PLAN

PROJECT No. 240037(23A) – DISCIPLINE WAC – NUMBER 003 – REV. 2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 – 18:20 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-003.dwg

240037(23A)-WAC-005

WORK AS CONSTRUCTED

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 30/09/2021	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

DIAL1100 BEFORE YOU DIG

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

EXISTING DN100 PVC-M PN16
CONNECT TO EXISTING DN100 RETICULATION PIPEWORK
EX. S.V.
EX. FL. HYD.
OXLEY ROAD
DRIVE
EXTEND DN100 PIPEWORK 1.0m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL DN100 FLUSHING HYDRANT (TB TYPE 7)
PULL PIPES
DN100 PVC-M PN16
AHERN
CRESCENT
DN100 x DN100 EQUAL TEE (TB TYPE 5)
EXISTING STAGE 22
EXISTING STAGE 23
JAMIESON
JEWELL ROAD
FUTURE SUBDIVISION DEVELOPMENT
DN100 PVC-M PN16
JOINS DRG-005

2360 2361 2362 2363 2364 2365 2366 2359 2358 2357 2356 2355 2354

81 SV
66 HYD
97 TAP
100 TAP
65 SNO
82 SV
99 TAP
98 TAP
101 TAP
102 TAP
105 TAP
103 TAP
104 TAP
S.V. HYD. 83
SV HYD 67
106 TAP
107 TAP
108 TAP
109 TAP

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
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 25 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 4 x SHORT SIDE
  - 1 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 6 x SHORT SIDE
  - 4 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	500
DN20 (LATERAL)	PE100 PN16	137

NOTES:
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 TO 012.
3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved:25/03/2021

AS CONSTRUCTED

PLAN
SCALE 1:300

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	C.B.	T.S.	C.B.
0	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.
2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.

SCALES: 0 5 10 15 — A1 / A3 1:300 / 1:600

DESIGN FILE N:\

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adw johnson
Hunter Office
Unit 7/335 Hillsborough Rd
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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 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: POTABLE WATER DETAIL PLAN - SHEET 1

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(23A)	- WAC -	004	2

Plotted By: iainb Plot Date: 30/09/21 - 18:20 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-005.dwg

240037(23A)-WAC-005

JOINS DRG-004

WORK AS CONSTRUCTED

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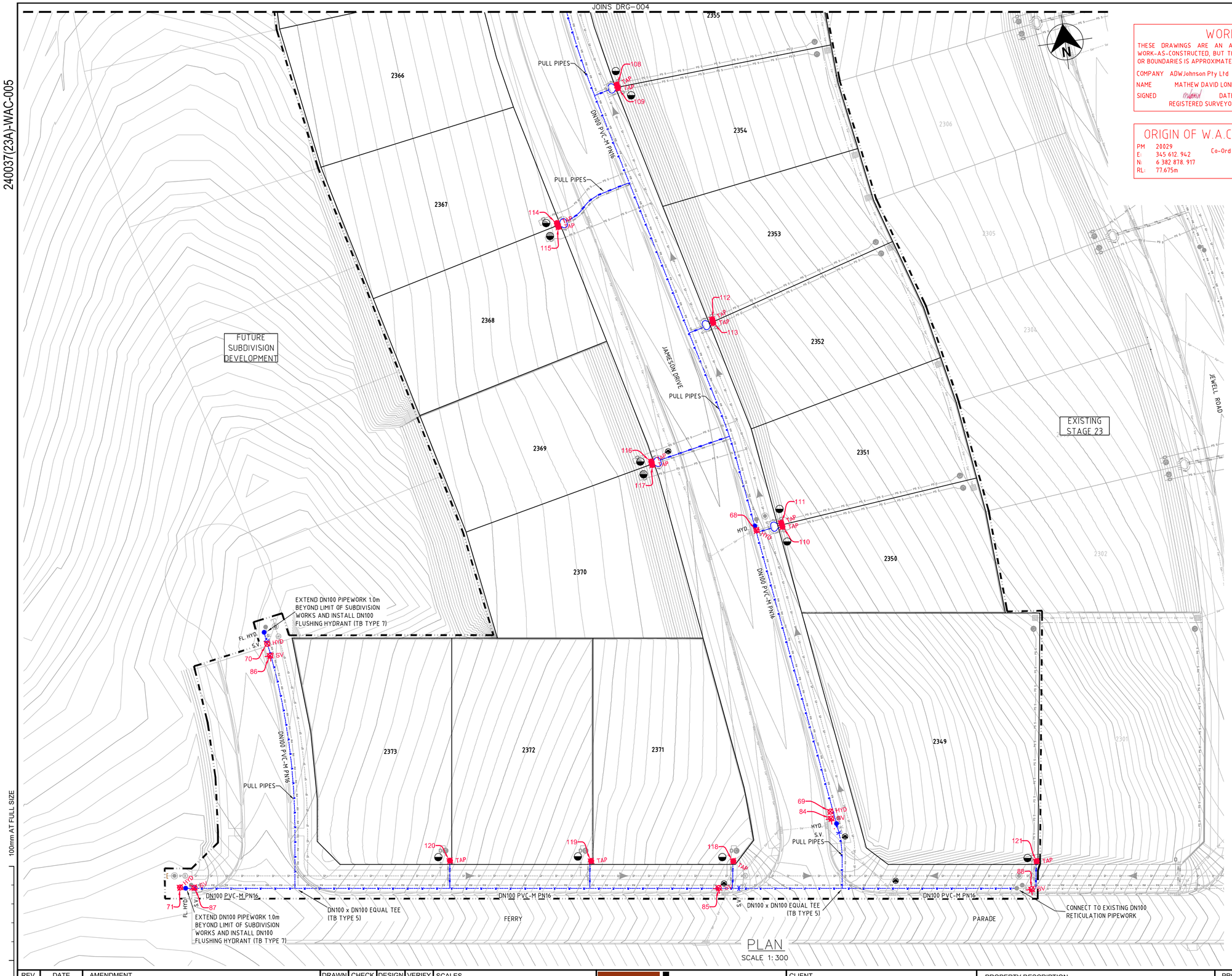
COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 30/09/2021	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

DIAL1100 BEFORE YOU DIG

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



PLAN
SCALE 1: 300

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
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 25 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 4 x SHORT SIDE
  - 1 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 6 x SHORT SIDE
  - 4 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	500
DN20 (LATERAL)	PE100 PN16	137

NOTES:
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 TO 012.
3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved:25/03/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	C.B.	T.S.	C.B.
0	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.
2	**30.09.2021**	**WORK AS CONSTRUCTED**	**I.B.**	**C.B.**	**T.S.**	**C.B.**

DESIGN FILE N:\

SCALES
0 5 10 15 A1 / A3
1:300 / 1:600

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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 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: POTABLE WATER DETAIL PLAN - SHEET 2

PROJECT No. 240037(23A) — DISCIPLINE WAC — NUMBER 005 — REV. 2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:20 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-005.dwg

240037(23A)-WAC-008

PLAN
SCALE 1:300

WORK AS CONSTRUCTED

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COMPANY ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 30/09/2021 — SIGNED — DATE ...../...../.....
REGISTERED SURVEYOR — CONSTRUCTION MANAGER

DIAL1100 BEFORE YOU DIG

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 RW — PVC-M RECYCLED WATER RETICULATION
- RWS RWS RWS — RECYCLED WATER PROPERTY SERVICE
- W W — PVC-M POTABLE WATER RETICULATION
- PWS 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
- STOP VALVE
- HYDRANT
- FLUSHING HYDRANT
- PROPERTY SERVICE CONNECTION
- 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 25 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 4 x SHORT SIDE
  - 1 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 6 x SHORT SIDE
  - 4 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	500
DN25 (LATERAL)	PE100 PN16	178

NOTES:
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved:25/03/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	C.B.	T.S.	C.B.
0	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.
2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.

SCALES: 0 5 10 15 — A1 / A3 1:300 / 1:600

DESIGN FILE N:\

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adw johnson
Hunter Office
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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 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: RECYCLED WATER DETAIL PLAN - SHEET 1

PROJECT No. 240037(23A) — DISCIPLINE - WAC - — NUMBER 007 — REV. 2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:21 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-008.dwg

240037(23A)-WAC-008

JOINS DRG-007

PLAN
SCALE 1:300

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 30/09/2021	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

DIAL1100
BEFORE YOU DIG

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

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

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 25 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 4 x SHORT SIDE
  - 1 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 6 x SHORT SIDE
  - 4 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	500
DN25 (LATERAL)	PE100 PN16	178

NOTES:
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved:25/03/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	C.B.	T.S.	C.B.
0	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.
2	**30.09.2021**	**WORK AS CONSTRUCTED**	**I.B.**	**C.B.**	**T.S.**	**C.B.**

DESIGN FILE N:\

SCALES
0 5 10 15 A1 / A3
1:300 / 1:600

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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 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

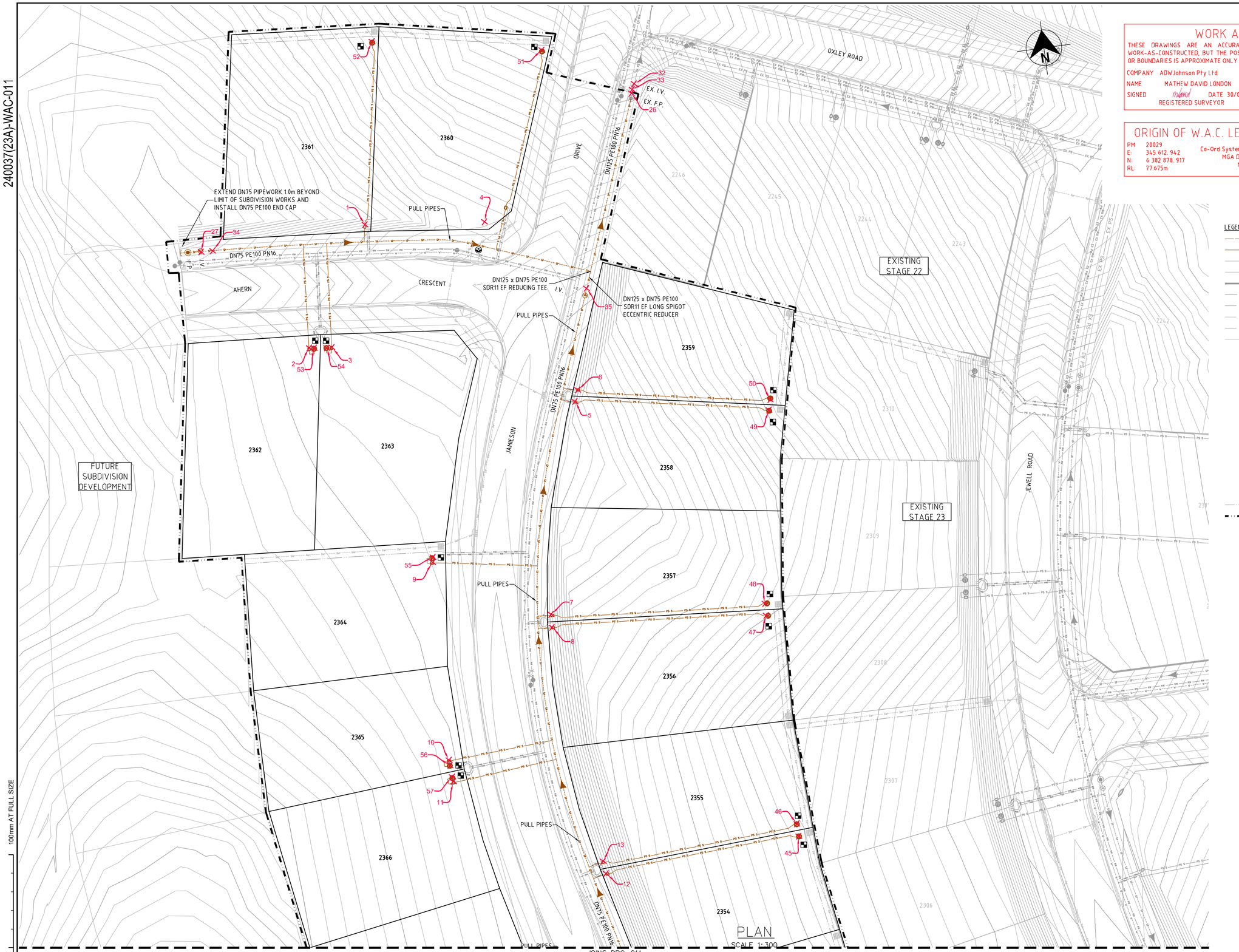
PLAN TITLE: RECYCLED WATER DETAIL PLAN - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(23A)	- WAC -	008	2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:21 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-008.dwg

240037(23A)-WAC-011



WORK AS CONSTRUCTED

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COMPANY ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED DATE 30/09/2021 — SIGNED DATE ...../...../.....
REGISTERED SURVEYOR — CONSTRUCTION MANAGER

DIAL1100 BEFORE YOU DIG

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

- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- EXISTING PRESSURE SEWER RETICULATION
- EXISTING POTABLE WATER RETICULATION
- EXISTING RECYCLED WATER RETICULATION
- STORMWATER PIPEWORK
- ISOLATION VALVE
- ISOLATION VALVE - NORMALLY CLOSED
- FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- 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 25 CONNECTIONS
- SINGLE SERVICES
  - 16 x SHORT SIDE
  - 9 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN50	PE100 SDR11	23
DN63	PE100 SDR11	155
DN75	PE100 SDR11	298
DN125	PE100 SDR11	29
DN40 (LATERAL)	PE100 SDR11	580

NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 AND 012.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.
4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
5. FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
6. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
7. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved:25/03/2021

AS CONSTRUCTED

PLAN
SCALE 1:300

JOINS DRG-011

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	C.B.	T.S.	C.B.
0	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.
2	**30.09.2021**	**WORK AS CONSTRUCTED**	**I.B.**	**C.B.**	**T.S.**	**C.B.**

SCALES: 0 5 10 15 — A1 / A3 1:300 / 1:600

DESIGN FILE N:\

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

CLIENT: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN - SHEET 1

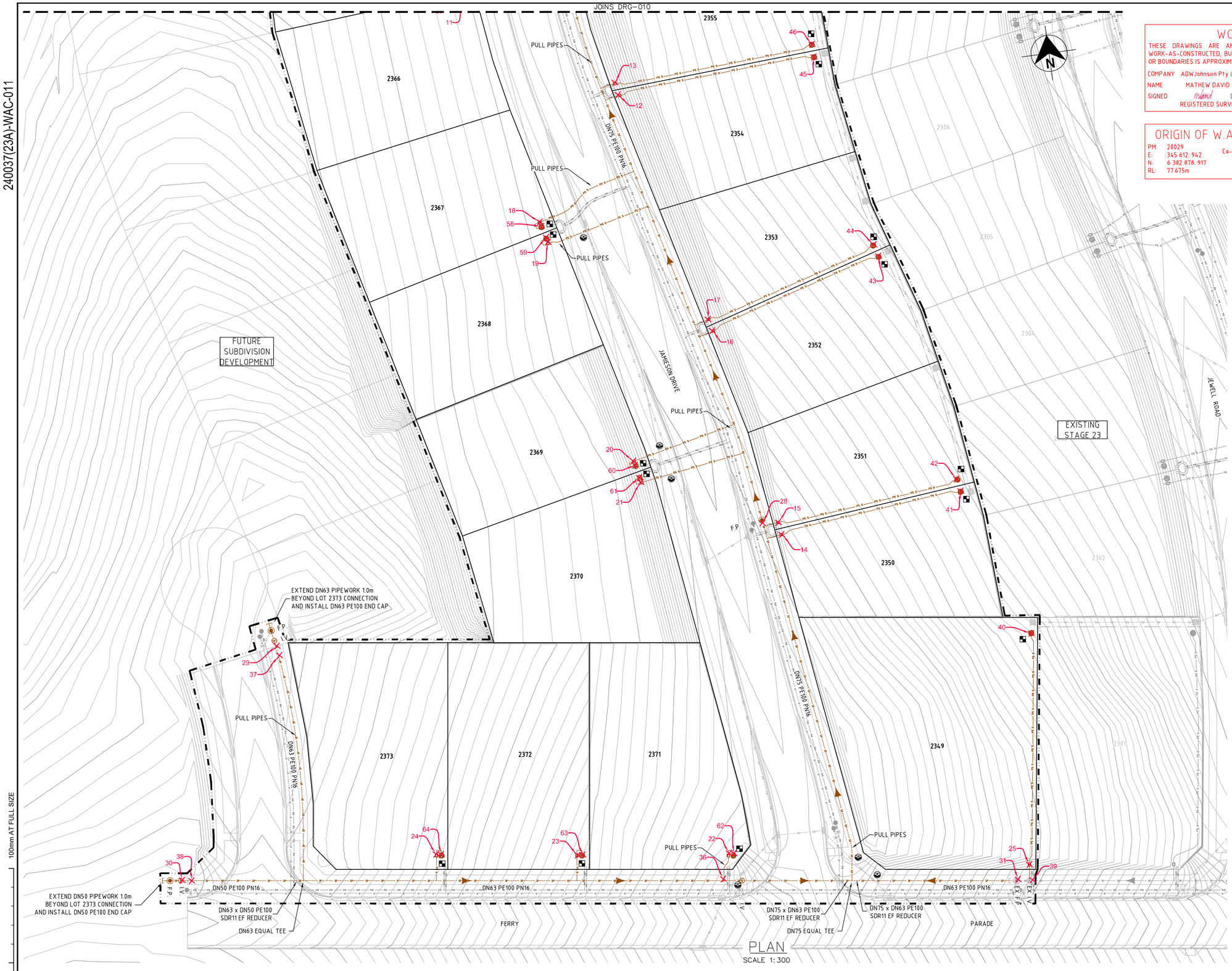
PROJECT No. 240037(23A) — DISCIPLINE - WAC - — NUMBER 010 — REV. 2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:21 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-011.dwg

240037(23A)-WAC-011

JOINS DRG-010



PLAN
SCALE 1:300

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 30/09/2021	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

DIAL1100 BEFORE YOU DIG

ORIGIN OF W.A.C. LEVELS

PM 20029
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MGA Datum: GDA94
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APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved:25/03/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
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2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.

SCALES: 0 5 10 15 — A1 / A3 1:300 / 1:600

DESIGN FILE N:\

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adw johnson
Hunter Office
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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 23A
FERRY PARADE, HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN - SHEET 2

SURVEYED	DATUM
ADW Johnson	A.H.D.

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(23A)	- WAC -	011	2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:21 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-011.dwg

240037(23A)-WAC-015

DIAL1100
BEFORE YOU DIG

Point Table				
Point #	Eastings	Northings	Levels	Codes
1	346307.15	6382510.55	75.19	seBDYKIT
2	346295.47	6382492.10	75.36	seBDYKIT
3	346299.11	6382491.65	75.38	seBDYKIT
4	346326.29	6382508.31	74.94	seBDYKIT
5	346336.74	6382477.61	75.11	seBDYKIT
6	346337.43	6382479.39	75.09	seBDYKIT
7	346328.15	6382444.12	75.31	seBDYKIT
8	346328.04	6382442.04	75.31	seBDYKIT
9	346310.41	6382455.06	75.57	seBDYKIT
10	346308.62	6382423.12	75.56	seBDYKIT
11	346308.83	6382419.58	75.57	seBDYKIT
12	346331.18	6382401.51	75.35	seBDYKIT
13	346330.97	6382403.52	75.37	seBDYKIT
14	346347.27	6382328.80	74.99	seBDYKIT
15	346346.99	6382330.77	74.97	seBDYKIT
16	346340.84	6382362.36	75.13	seBDYKIT
17	346340.41	6382364.22	75.13	seBDYKIT
18	346316.09	6382383.24	75.41	seBDYKIT
19	346316.93	6382379.90	75.45	seBDYKIT
20	346325.55	6382343.59	75.70	seBDYKIT
21	346326.26	6382340.09	75.71	seBDYKIT
22	346331.98	6382279.84	75.74	seBDYKIT
23	346308.14	6382282.86	77.11	seBDYKIT
24	346285.92	6382286.12	78.34	seBDYKIT
25	346378.94	6382271.48	73.43	seBDYKIT
26	346352.61	6382525.59	73.46	seFP
27	346280.33	6382509.82	75.73	seFP
28	346344.45	6382331.02	75.05	seFP
29	346265.44	6382322.34	78.76	seFP
30	346245.41	6382287.59	79.59	seFP
31	346376.86	6382269.38	73.16	seFP
32	346353.30	6382527.01	73.34	seSV
33	346352.82	6382526.17	73.43	seSV
34	346282.23	6382509.74	75.79	seSV
35	346341.10	6382495.41	74.91	seSV
36	346330.51	6382275.91	75.65	seSV
37	346265.63	6382320.79	78.82	seSV
38	346246.88	6382287.30	79.52	seSV
39	346379.09	6382268.99	73.04	seSV
40	346384.33	6382307.75	72.80	seTANK2349
41	346376.37	6382331.69	73.79	seTANK2350
42	346375.96	6382333.68	73.79	seTANK2351
43	346368.60	6382370.45	73.18	seTANK2352
44	346368.11	6382372.31	73.20	seTANK2353
45	346362.80	6382403.16	73.07	seTANK2354
46	346362.77	6382405.19	73.10	seTANK2355
47	346362.50	6382439.13	73.64	seTANK2356
48	346362.57	6382441.08	73.63	seTANK2357
49	346367.53	6382471.90	73.05	seTANK2358
50	346367.97	6382473.54	73.07	seTANK2359
51	346339.29	6382534.49	73.61	seTANK2360
52	346312.34	6382539.64	74.46	seTANK2361
53	346296.26	6382491.96	75.46	seTANK2362
54	346298.27	6382491.69	75.47	seTANK2363
55	346310.58	6382455.91	75.69	seTANK2364
56	346308.64	6382422.26	75.70	seTANK2365
57	346308.75	6382420.36	75.70	seTANK2366
58	346316.25	6382382.51	75.56	seTANK2367
59	346316.78	6382380.65	75.56	seTANK2368

Point Table				
Point #	Eastings	Northings	Levels	Codes
60	346325.73	6382342.88	75.82	seTANK2369
61	346326.15	6382340.84	75.82	seTANK2370
62	346332.75	6382279.69	75.82	seTANK2371
63	346308.93	6382282.77	77.21	seTANK2372
64	346286.68	6382285.95	78.42	seTANK2373
65	346276.70	6382508.22	75.71	waHYD
66	346343.03	6382505.99	74.49	waHYD
67	346323.08	6382432.25	75.33	waHYD
68	346342.81	6382329.40	74.97	waHYD
69	346348.27	6382283.46	74.78	waHYD
70	346263.18	6382322.33	78.67	waHYD
71	346244.10	6382285.83	79.57	waHYD
72	346276.68	6382508.67	75.71	waHYDR
73	346320.69	6382504.45	74.72	waHYDR
74	346343.44	6382505.78	74.49	waHYDR
75	346323.59	6382432.55	75.33	waHYDR
76	346343.25	6382329.89	74.99	waHYDR
77	346348.64	6382284.42	74.76	waHYDR
78	346263.64	6382322.41	78.65	waHYDR
79	346244.15	6382286.26	79.57	waHYDR
80	346377.68	6382267.43	73.01	waHYDR
81	346351.58	6382527.92	73.31	waSV
82	346278.76	6382508.02	75.72	waSV
83	346323.16	6382433.54	75.33	waSV
84	346348.25	6382282.35	74.76	waSV
85	346328.98	6382273.89	75.77	waSV
86	346263.39	6382320.37	78.68	waSV
87	346246.34	6382285.47	79.51	waSV
88	346378.27	6382266.79	72.97	waSV
89	346351.87	6382527.25	73.39	waSVR
90	346278.16	6382508.57	75.75	waSVR
91	346323.68	6382434.17	75.36	waSVR
92	346348.48	6382280.68	74.80	waSVR
93	346329.94	6382274.28	75.68	waSVR
94	346263.94	6382320.64	78.74	waSVR
95	346245.73	6382285.95	79.54	waSVR
96	346378.89	6382267.20	72.95	waSVR
97	346307.74	6382509.92	74.99	waTAP
98	346297.92	6382493.53	75.22	waTAP
99	346297.33	6382493.62	75.23	waTAP
100	346326.64	6382507.60	74.66	waTAP
101	346336.90	6382478.83	75.11	waTAP
102	346336.69	6382478.27	75.08	waTAP
103	346327.85	6382443.42	75.31	waTAP
104	346327.77	6382442.78	75.30	waTAP
105	346312.28	6382456.77	75.36	waTAP
106	346310.28	6382421.65	75.48	waTAP
107	346310.33	6382421.06	75.48	waTAP
108	346330.59	6382402.69	75.35	waTAP
109	346330.71	6382402.14	75.32	waTAP
110	346346.95	6382329.40	74.95	waTAP
111	346346.85	6382330.05	74.95	waTAP
112	346340.46	6382363.61	75.07	waTAP
113	346340.55	6382363.03	75.02	waTAP
114	346318.09	6382382.20	75.27	waTAP
115	346318.26	6382381.59	75.30	waTAP
116	346327.73	6382342.56	75.18	waTAP
117	346327.81	6382342.03	75.14	waTAP
118	346331.85	6382277.79	75.56	waTAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
119	346309.46	6382280.94	76.92	waTAP
120	346287.21	6382284.09	78.15	waTAP
121	346379.66	6382271.09	73.17	waTAP
122	346307.35	6382510.00	75.07	waTAPR
123	346296.97	6382493.63	75.20	waTAPR
124	346298.23	6382493.52	75.21	waTAPR
125	346326.37	6382507.72	74.67	waTAPR
126	346336.98	6382479.13	75.09	waTAPR
127	346336.58	6382478.00	75.06	waTAPR
128	346327.88	6382443.67	75.30	waTAPR
129	346327.73	6382442.50	75.30	waTAPR
130	346312.28	6382456.51	75.36	waTAPR
131	346310.24	6382421.97	75.47	waTAPR
132	346310.40	6382420.74	75.46	waTAPR
133	346330.47	6382403.01	75.34	waTAPR
134	346330.78	6382401.83	75.31	waTAPR
135	346346.95	6382329.17	74.97	waTAPR
136	346346.80	6382330.40	74.96	waTAPR
137	346340.38	6382363.92	75.03	waTAPR
138	346340.65	6382362.75	75.02	waTAPR
139	346317.97	6382382.46	75.30	waTAPR
140	346318.33	6382381.28	75.31	waTAPR
141	346327.70	6382342.92	75.17	waTAPR
142	346327.82	6382341.62	75.12	waTAPR
143	346331.52	6382277.79	75.59	waTAPR
144	346309.14	6382281.01	76.92	waTAPR
145	346286.92	6382284.19	78.18	waTAPR
146	346379.39	6382271.19	73.21	waTAPR

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COMPANY ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 30/09/2021 — SIGNED — DATE ...../...../.....
REGISTERED SURVEYOR — CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

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MGA Datum: GDA94
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100mm AT FULL SIZE

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2	**30.09.2021**	**WORK AS CONSTRUCTED**	**I.B.**	**C.B.**	**T.S.**	**C.B.**

DESIGN FILE N:\

SCALES
0 0.1 0.2 0.3 0.4 A1 / A3
1:10 / 1:20

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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 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

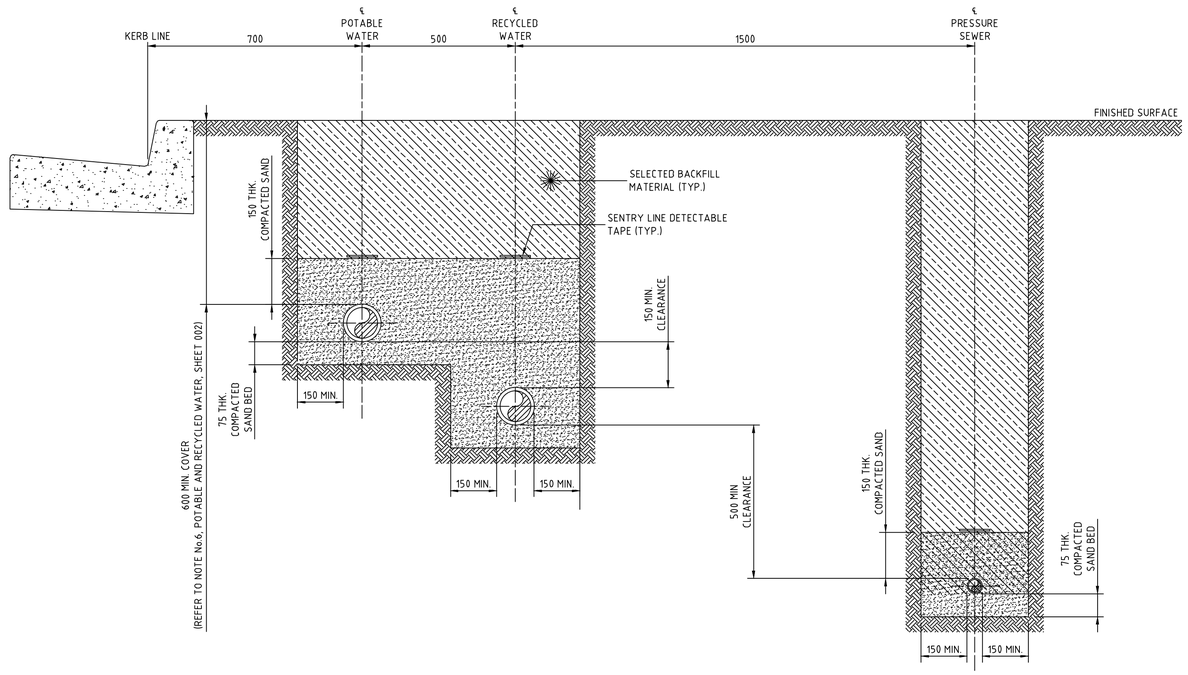
PLAN TITLE: FITTINGS TABLE

PROJECT No. 240037(23A) — DISCIPLINE - WAC - — NUMBER 012 — REV. 2

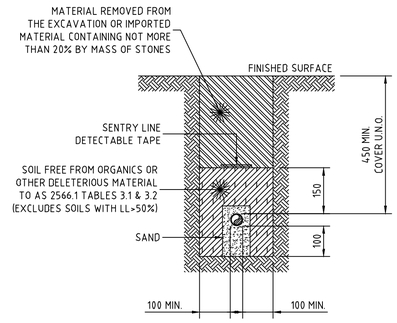
Plotted By: iainb Plot Date: 30/09/21 - 18:21 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-015.dwg

240037(23A)-WAC-015

DIAL1100
BEFORE YOU DIG



STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

NOTES:

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

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/09/2021 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	DATE 30/09/2021	SIGNED	DATE ...../...../.....
	REGISTERED SURVEYOR		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:25/03/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	C.B.	T.S.	C.B.
0	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.
2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.

DESIGN FILE N:\

SCALES
0 0.1 0.2 0.3 0.4 A1 / A3
1:10 / 1:20

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

CLIENT: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 23A
FERRY PARADE, HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

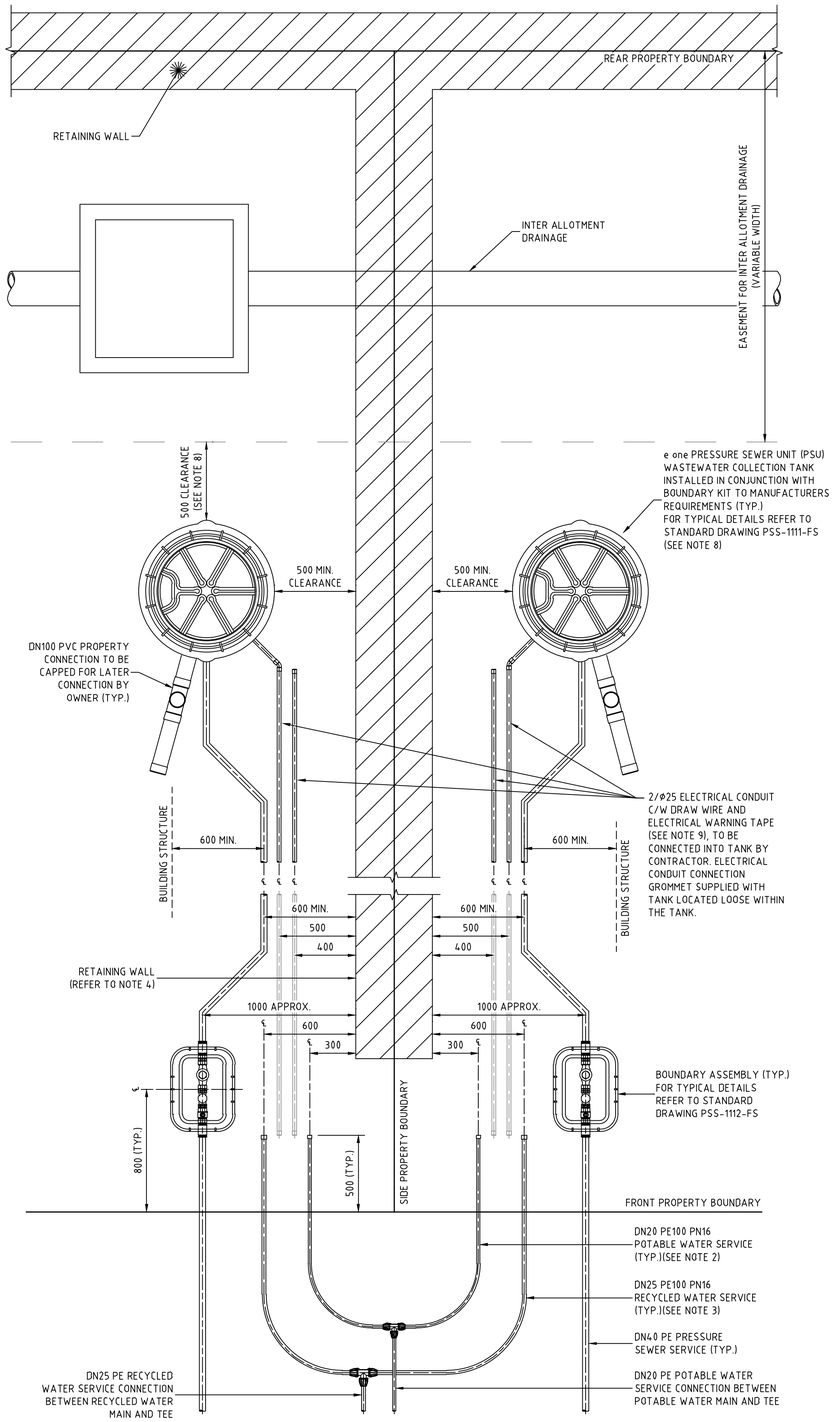
PLAN TITLE
TYPICAL PIPEWORK
TRENCHING DETAILS

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
ADW Johnson	A.H.D.	240037(23A)	- WAC -	013	2

100mm AT FULL SIZE

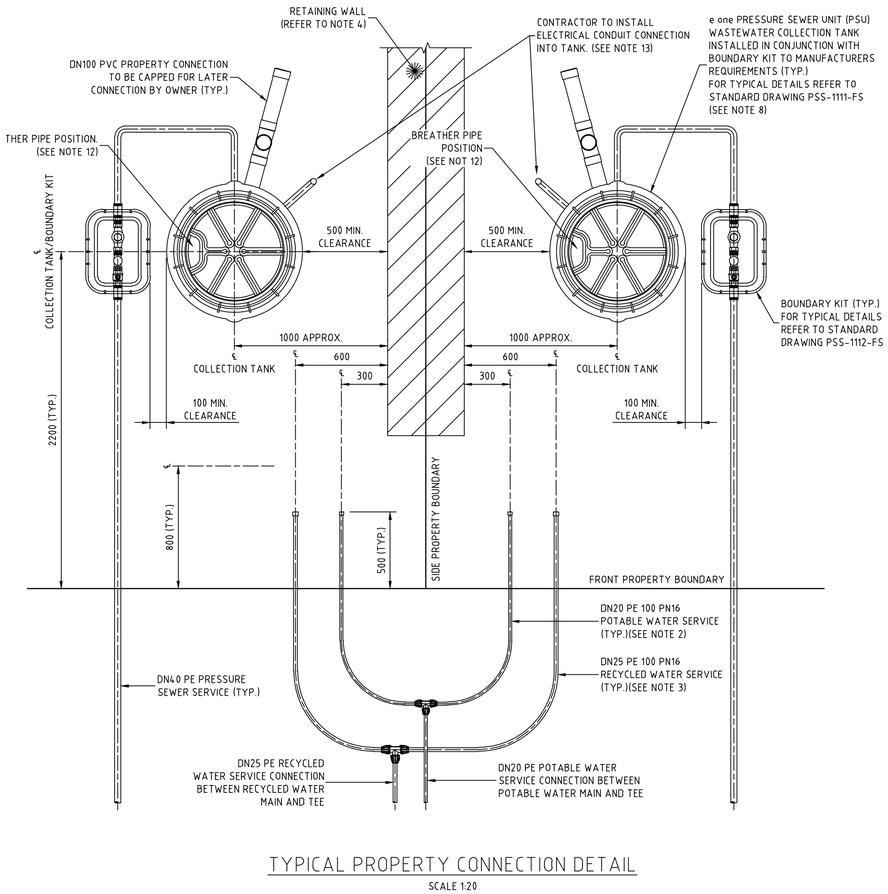
Plotted By: iainb Plot Date: 30/09/21 - 18:22 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-015.dwg

240037(23A)-WAC-015



TYPICAL PROPERTY CONNECTION DETAIL (PRESSURE SEWER UNIT AT REAR)

SCALE 1:20



TYPICAL PROPERTY CONNECTION DETAIL

SCALE 1:20

NOTES:

1. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
2. DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
3. DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
4. FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
5. WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
6. MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
7. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
8. PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
9. 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.
10. FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
11. FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.
12. POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
13. CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. ø25 CONDUIT TO BE PROVIDED WITH LONG RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.

DIAL 1100 BEFORE YOU DIG

WORK AS CONSTRUCTED

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 30/09/2021	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		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:25/03/2021

AS CONSTRUCTED

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SCALES
0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20
0 0.4 0.8 A1 / A3 1:20 / 1:40

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

CLIENT: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: TYPICAL SERVICE CONNECTION DETAILS

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(23A)	- WAC -	014	2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:22 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-015.dwg

240037(23A)-WAC-015

DIAL1100
BEFORE YOU DIG

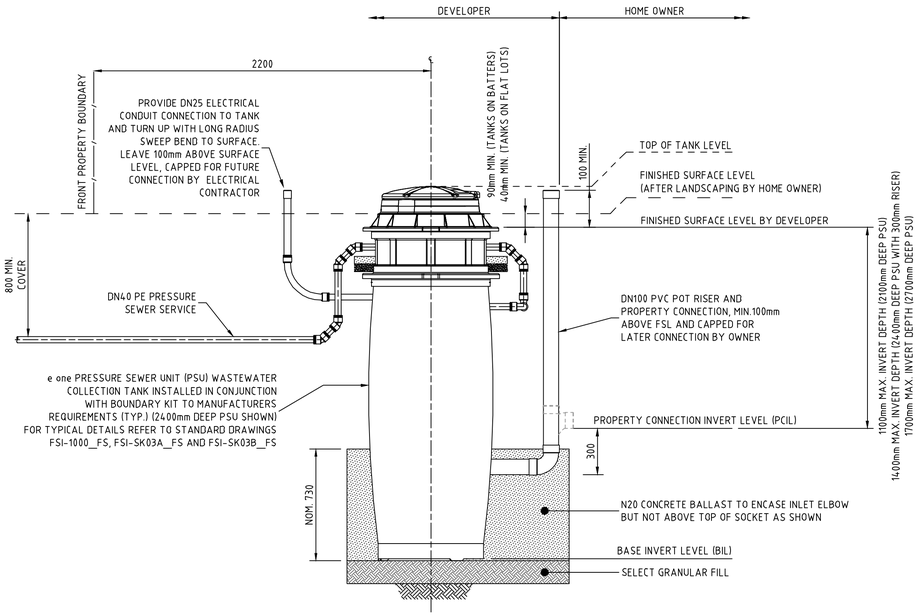
WASTEWATER COLLECTION TANK DETAILS

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
2349	72.90	72.72	70.77	71.67	2100	REAR	346384.319	6382307.799	72.80	71.48	-0.19
2350	73.73	73.55	71.60	72.50	2100	REAR	346376.329	6382331.573	73.79	72.48	-0.02
2351	73.70	73.52	71.57	72.47	2100	REAR	346376.077	6382333.558	73.79	72.47	0.00
2352	73.26	73.08	71.13	72.03	2100	REAR	346368.559	6382370.303	73.18	71.86	-0.17
2353	73.24	73.06	71.11	72.01	2100	REAR	346367.970	6382372.215	73.20	71.88	-0.13
2354	73.03	72.85	70.90	71.80	2100	REAR	346362.825	6382403.124	73.07	71.76	-0.04
2355	73.01	72.83	70.88	71.78	2100	REAR	346362.738	6382405.122	73.10	71.78	0.00
2356	73.70	73.52	71.57	72.47	2100	REAR	346362.821	6382439.062	73.64	72.33	-0.14
2357	73.78	73.60	71.65	72.55	2100	REAR	346362.916	6382441.061	73.63	72.31	-0.24
2358	73.15	72.97	71.02	71.92	2100	REAR	346367.550	6382471.773	73.05	71.73	-0.19
2359	73.08	72.90	70.95	71.85	2100	REAR	346368.013	6382473.721	73.07	71.75	-0.10
2360	74.42	74.24	72.29	73.19	2100	REAR	346339.276	6382534.250	73.61	72.30	-0.89
2361	74.52	74.34	72.39	73.29	2100	REAR	346312.349	6382539.441	74.46	73.15	-0.14
2362	75.54	75.36	73.41	74.31	2100	FRONT	346296.233	6382491.845	75.46	74.14	-0.17
2363	75.51	75.33	73.38	74.28	2100	FRONT	346298.233	6382491.674	75.47	74.15	-0.13
2364	75.57	75.39	73.44	74.34	2100	FRONT	346310.402	6382455.764	75.69	74.38	0.03
2365	75.72	75.54	73.59	74.49	2100	FRONT	346308.613	6382422.194	75.70	74.38	-0.11
2366	75.72	75.54	73.59	74.49	2100	FRONT	346308.757	6382420.199	75.70	74.39	-0.10
2367	75.61	75.43	73.48	74.38	2100	FRONT	346316.251	6382382.404	75.56	74.24	-0.14
2368	75.60	75.42	73.47	74.37	2100	FRONT	346316.726	6382380.461	75.56	74.25	-0.12
2369	75.90	75.72	73.77	74.67	2100	FRONT	346325.795	6382342.762	75.82	74.51	-0.16
2370	75.88	75.70	73.75	74.65	2100	FRONT	346326.189	6382340.801	75.82	74.50	-0.15
2371	75.89	75.71	73.76	74.66	2100	FRONT	346332.600	6382279.382	75.82	74.50	-0.16
2372	77.29	77.11	75.16	76.06	2100	FRONT	346308.805	6382282.707	77.21	75.90	-0.16
2373	78.49	78.31	76.36	77.26	2100	FRONT	346286.725	6382285.793	78.42	77.10	-0.16

UPDATED DETAILS

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	25
2400	0
2700	0



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

WORK AS CONSTRUCTED

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COMPANY ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 30/09/2021 — SIGNED — DATE ...../...../.....
REGISTERED SURVEYOR — 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:25/03/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
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2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.

SCALES: 0 0.4 0.8 A1 / A3 1:20 / 1:40

DESIGN FILE N:\

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adw Johnson
Hunter Office
Unit 7/335 Hillsborough Rd
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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 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: WASTE WATER COLLECTION TANK LEVEL DETAILS

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(23A)	- WAC -	015	2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:22 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-015.dwg

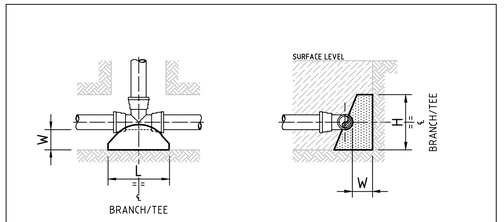
240037(23A)-WAC-016

DIAL1100
BEFORE YOU DIG

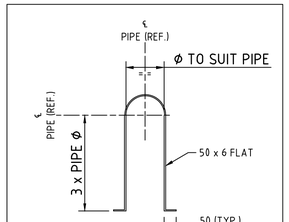
THRUST BLOCK NOTES:

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.

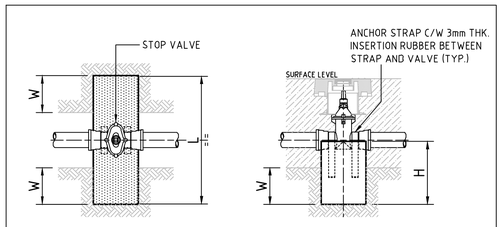
TYPE	FITTING	SOIL AHBP (kPa)	DESIGN STP (kPa)	THRUST	TA (m^2)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN150 x DN150 EQUAL TEE	100	1000	25.00	0.25	0.50	0.50	0.30
2	DN150 x DN100 REDUCING TEE	100	1000	12.00	0.12	0.40	0.30	0.30
3	DN150 SOCKETED STOP VALVE	100	1000	25.00	0.25	1.05	0.46	0.30
4	DN150 FLUSHING HYDRANT	100	1000	25.00	0.25	0.50	0.50	0.30
5	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
6	DN100 SOCKETED STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
7	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.30



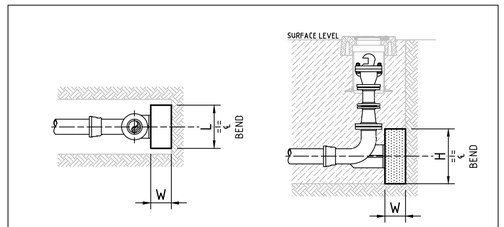
ANGLE BRANCH/TEE
N.T.S.



ANCHOR STRAP
MATERIAL: 316 STAINLESS STEEL
N.T.S.



SOCKETED STOP VALVE
N.T.S.



FLUSHING HYDRANT
N.T.S.

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COMPANY ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED DATE 30/09/2021 — SIGNED DATE ...../...../.....
REGISTERED SURVEYOR — CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

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SCALES

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ABN 62 129 445 398

CLIENT: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 23A
FERRY PARADE, HUNTLEE

SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: THRUST BLOCK DETAILS

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(23A)	- WAC -	016	2

100mm AT FULL SIZE

Plotted By: iainb Plot Date: 30/09/21 - 18:22 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 23A-WAC\240037(23A)-WAC-016.dwg