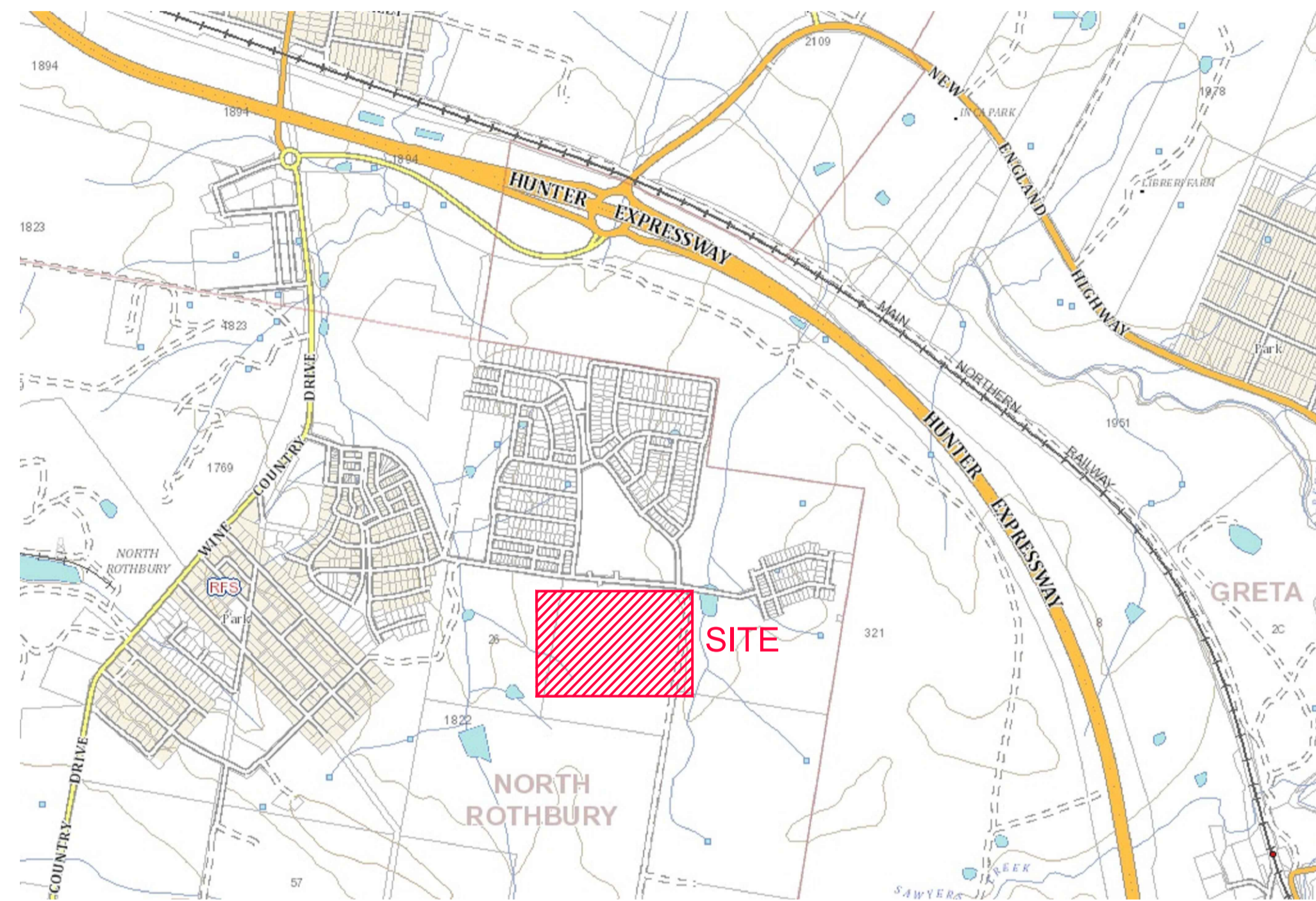




# PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLEE



LOCALITY SKETCH  
NOT TO SCALE

DRAWING INDEX	
Sheet Title	Sheet Description
240037(18)-WAC-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
240037(18)-WAC-002	GENERAL NOTES
240037(18)-WAC-003	OVERALL SITE PLAN
240037(18)-WAC-004	POTABLE WATER WAC PLAN - SHEET 1
240037(18)-WAC-005	POTABLE WATER WAC PLAN - SHEET 2
240037(18)-WAC-006	POTABLE WATER WAC PLAN - SHEET 3
240037(18)-WAC-007	POTABLE WATER WAC PLAN - SHEET 4
240037(18)-WAC-008	NOT USED
240037(18)-WAC-009	RECYCLED WATER WAC PLAN - SHEET 1
240037(18)-WAC-010	RECYCLED WATER WAC PLAN - SHEET 2
240037(18)-WAC-011	RECYCLED WATER WAC PLAN - SHEET 3
240037(18)-WAC-012	RECYCLED WATER WAC PLAN - SHEET 4
240037(18)-WAC-013	NOT USED
240037(18)-WAC-014	PRESSURE SEWER WAC PLAN - SHEET 1
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240037(18)-WAC-016	PRESSURE SEWER WAC PLAN - SHEET 3
240037(18)-WAC-017	PRESSURE SEWER WAC PLAN - SHEET 4
240037(18)-WAC-018	PRESSURE SEWER WAC PLAN - SHEET 5
240037(18)-WAC-019	NOT USED
240037(18)-WAC-020	TYPICAL PIPEWORK TRENCHING DETAILS
240037(18)-WAC-021	TYPICAL SERVICE CONNECTION DETAILS - NOV MONO INVIZI-Q
240037(18)-WAC-022	TYPICAL SERVICE CONNECTION DETAILS
240037(18)-WAC-023	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(18)-WAC-024	THRUST BLOCK DETAILS
240037(18)-WAC-025	WAC SERVICE POINTS DETAILS

**WORK AS CONSTRUCTED**

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COMPANY: ADW JOHNSON PTY LTD      COMPANY .....

NAME: MATHEW DAVID LONDON      NAME .....

SIGNED: *Matthew London*      DATE 16/02/2021      SIGNED: .....      DATE ..... / ..... / .....

REGISTERED SURVEYOR      CONSTRUCTION MANAGER

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

PM: 20029      Co-Ord System: MGA Ground  
 E: 365612.942      MGA Datum: GDA94  
 N: 6382878.917      MGA Zone: 56  
 RL: 77.675

**WORK AS CONSTRUCTED**

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	
B	11.08.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
C	28.08.2020	AMENDED ISSUE	J.N.	C.B.	J.N.	C.B.	
0	03.09.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
1	15.10.2020	LOTS 1831 & 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	
2	29.10.2020	LOT 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	
3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.	

**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

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLEE	
SURVEYED	DATUM
ADW Johnson	A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE PLAN OF WORKS AS CONSTRUCTED POTABLE WATER, RECYCLED WATER & PRESSURE SEWER			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240072(18)	- WAC -	001	3

PRESSURE SEWER NOTES:

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA, 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.
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.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
5. ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
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 HUNTLEE WATER REPRESENTATIVE).
9. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
10. ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS.
11. MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN.
12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
13. FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS.
14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION.
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.
21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
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 HUNTLEE WATER REPRESENTATIVE.
25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 21.3.4) ARE:
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4).
27. ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.
28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO HUNTLEE WATER 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:

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA 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.
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.
7. ALL POTABLE WATERMANS TO BE BLUE PVC-M (PN16).
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.
10. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION PS-350, 368 AND 369.
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.
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.
16. PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE HUNTLEE WATER 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.
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 HUNTLEE WATER REPRESENTATIVE.
25. MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5):
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO HUNTLEE WATER 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%.
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 WSA 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.
3. MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENT AND FOOTPATHS) TO P.C.A. AND SUPERINTENDENT'S REQUIREMENTS.
4. SUITABLE PROTECTION TO EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

Table with columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm), MINIMUM VERTICAL CLEARANCE (mm). Rows include Water Mains, Gas Mains, Telecommunication Conduits, Electricity Conduits, Stormwater Drains, Sewers, and Kerbs.

- 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.
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.
5. CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB FOR WATER/SEWER - DN 375.
6. WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm.
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 HUNTLEE WATER REPRESENTATIVE IN WRITING.

WORK AS CONSTRUCTED
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COMPANY: ADW JOHNSON PTY LTD
NAME: MATHEW DAVID LONDON
SIGNED: [Signature] DATE 16/02/2021
REGISTERED SURVEYOR

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

WORK AS CONSTRUCTED

Table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES, CLIENT, PROPERTY DESCRIPTION, PROJECT, PLAN TITLE, SURVEYED, DATUM, PROJECT No., DISCIPLINE, NUMBER, REV. Includes logos for ADW Johnson and Huntlee Water.



**WORK AS CONSTRUCTED**

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COMPANY: ADW JOHNSON PTY LTD      COMPANY: \_\_\_\_\_  
 NAME: MATHEW DAVID LONDON      NAME: \_\_\_\_\_  
 SIGNED: \_\_\_\_\_ DATE 16/02/2021      SIGNED: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_  
 REGISTERED SURVEYOR      CONSTRUCTION MANAGER

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

PM 20029      Co-Ord System MGA Ground  
 E: 345612.942      MGA Datum: GDA94  
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 RL: 77.675

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT	PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLÉE	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
						0 10 20 30 40 A1 / A3 1:1000 / 1:2000					PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER
A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.					240072(18)	- WAC -	003	3
B	11.08.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.								
C	28.08.2020	AMENDED ISSUE	J.N.	C.B.	J.N.	C.B.								
0	03.09.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.								
1	15.10.2020	LOTS 1831 & 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.								
2	29.10.2020	LOT 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.								
3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.								

240072(18)-WAC-004 to 007

**WORK AS CONSTRUCTED**

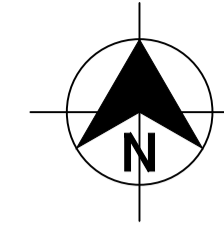
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COMPANY: ADW JOHNSON PTY LTD COMPANY: \_\_\_\_\_  
NAME: MATHEW DAVID LONDON NAME: \_\_\_\_\_  
SIGNED: \_\_\_\_\_ DATE 16/02/2021 SIGNED: \_\_\_\_\_ DATE \_\_\_\_\_  
REGISTERED SURVEYOR CONSTRUCTION MANAGER

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

PM 20029 Co-Ord System: MGA Ground  
E: 345612.942 MGA Datum: GDA94  
N: 6382878.917 MGA Zone: 56  
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JOINS DRG-005



DIAL 1100  
BEFORE YOU DIG

**LEGEND**

- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- EXISTING POTABLE WATER RETICULATION
- EXISTING RECYCLED WATER RETICULATION
- EXISTING PRESSURE SEWER RETICULATION
- STORMWATER PIPEWORK
- STOP VALVE
- HYDRANT
- FLUSHING HYDRANT
- 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
- 11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
- 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 37 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 13 x SHORT SIDE
    - 14 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 5 x SHORT SIDE
    - 0 x LONG SIDE

**POTABLE WATER PIPE DATA**

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	80
DN100	PVC-M PN16	498

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 TO 012.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 019.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.

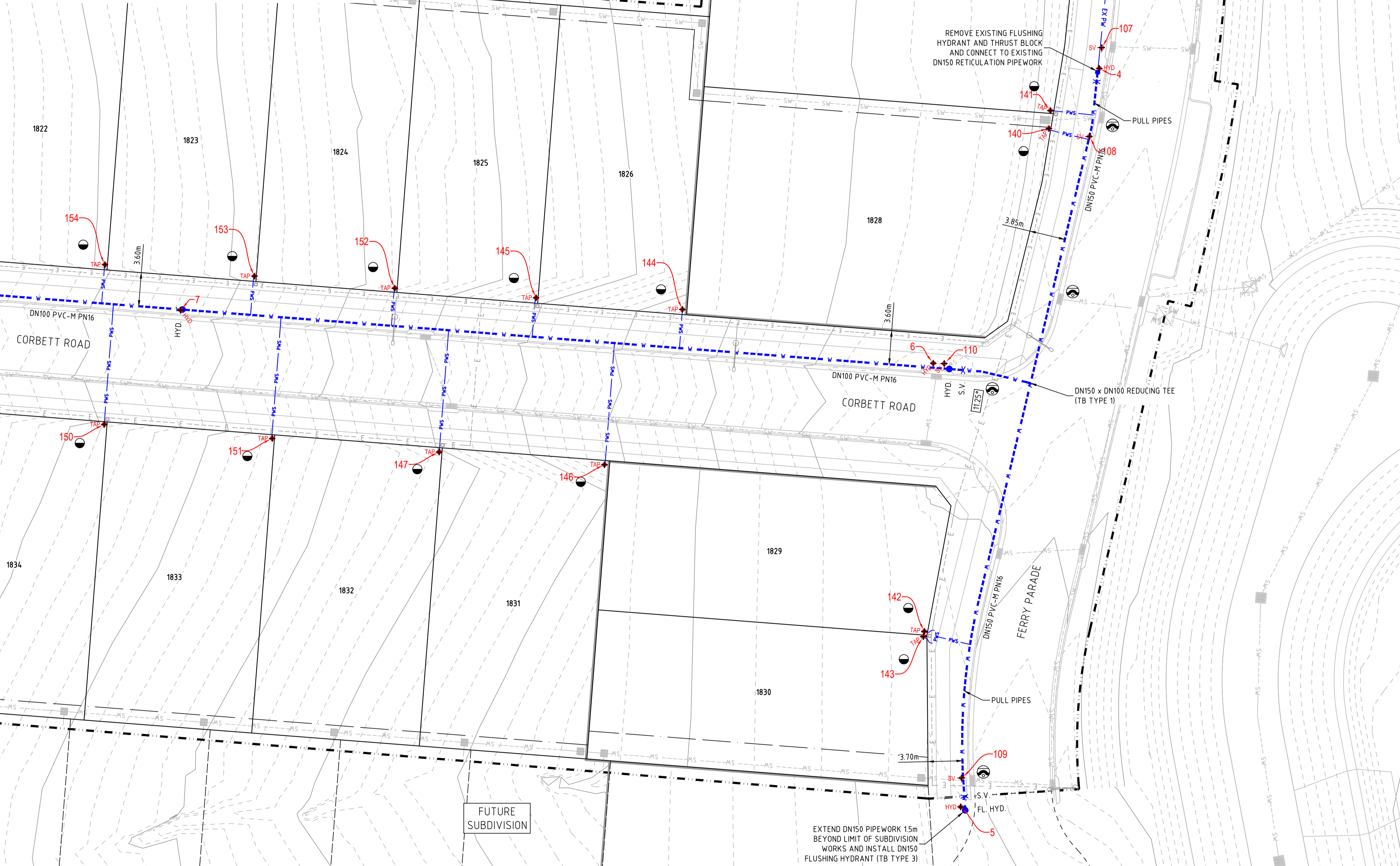
EXISTING SUBDIVISION

FERRY PARADE

EXISTING DN150 PVC-M WATERMAIN

REMOVE EXISTING FLUSHING HYDRANT AND THRUST BLOCK AND CONNECT TO EXISTING DN150 RETICULATION PIPEWORK

PULL PIPES



PLAN  
SCALE 1:250

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	A1 / A3 1:250 / 1:500
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3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.	

**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

**Huntlee + Water**

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
STAGE 18  
FERRY PARADE, HUNTLÉE

SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

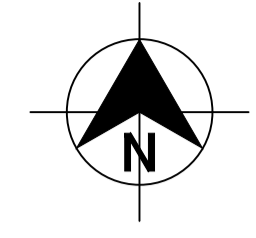
PLAN TITLE PLAN OF WORKS AS CONSTRUCTED POTABLE WATER

PROJECT No.	DISCIPLINE	NUMBER	REV.
240072(18)	- WAC -	004	3



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 N: 6382878.917 MGA Zone: 56  
 RL: 77.675

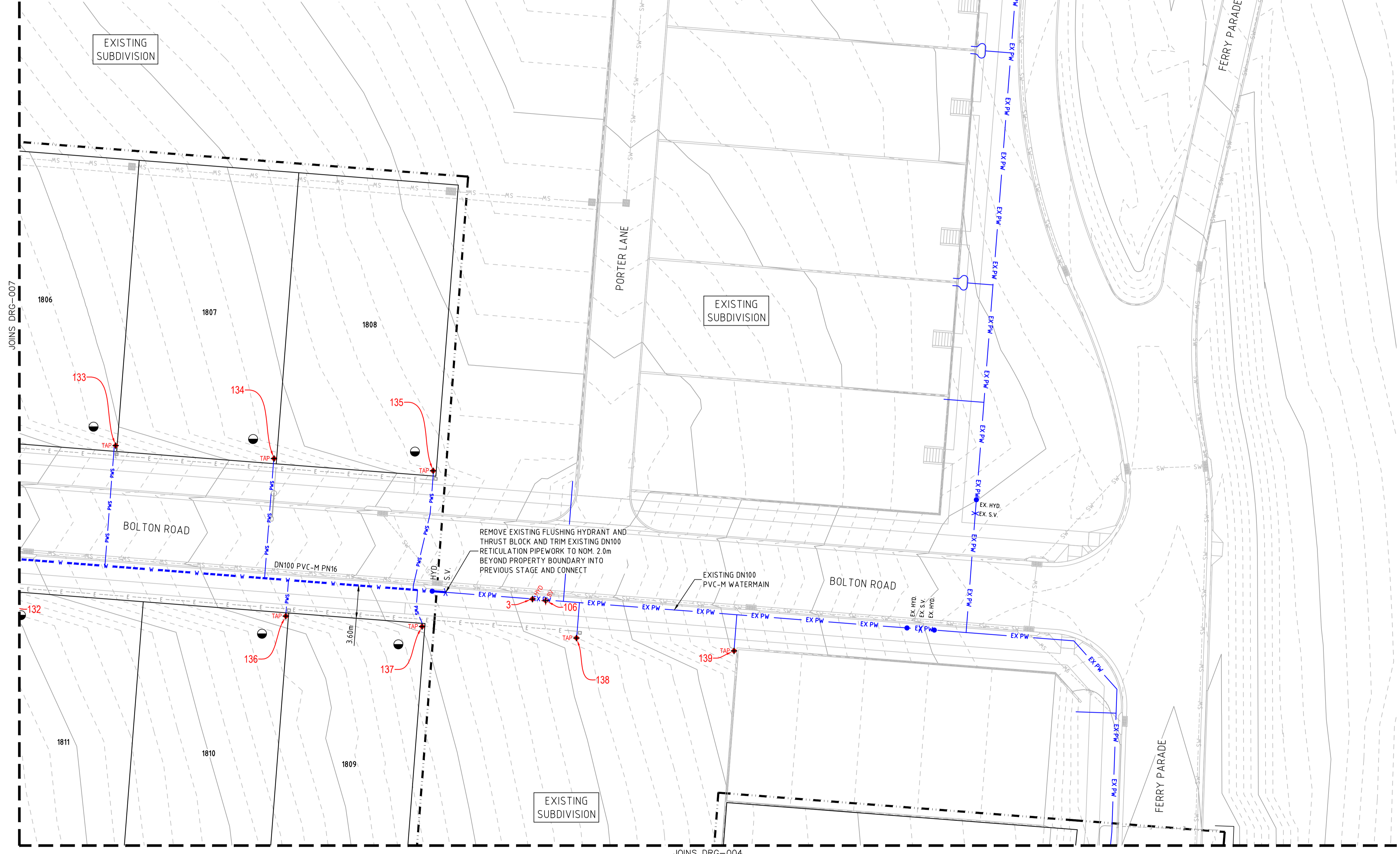


- LEGEND**
- PVC-M POTABLE WATER RETICULATION
  - POTABLE WATER PROPERTY SERVICE
  - PVC-M RECYCLED WATER RETICULATION
  - RECYCLED WATER PROPERTY SERVICE
  - PE PRESSURE SEWER RETICULATION
  - PE PRESSURE SEWER PROPERTY SERVICE
  - EXISTING POTABLE WATER RETICULATION
  - EXISTING RECYCLED WATER RETICULATION
  - EXISTING PRESSURE SEWER RETICULATION
  - STORMWATER PIPEWORK
  - STOP VALVE
  - HYDRANT
  - FL. HYD.
  - 22.5°
  - 11.25°
  - 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 37 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 13 x SHORT SIDE
    - 14 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 5 x SHORT SIDE
    - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	80
DN100	PVC-M PN16	498

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 TO 012.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 019.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.



REMOVE EXISTING FLUSHING HYDRANT AND THRUST BLOCK AND TRIM EXISTING DN100 RETICULATION PIPEWORK TO NOM. 2.0m BEYOND PROPERTY BOUNDARY INTO PREVIOUS STAGE AND CONNECT

PLAN  
 SCALE 1:250

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	0 5 10 A1 / A3 1:250 / 1:500
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3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.	

**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

**Huntlee + Water**

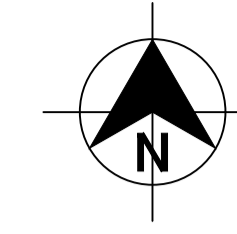
CLIENT  
 PROPOSED SUBDIVISION  
 STAGE 18  
 FERRY PARADE, HUNTLÉE

PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
	PLAN TITLE	PLAN OF WORKS AS CONSTRUCTED POTABLE WATER		
SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 240072(18)	DISCIPLINE - WAC -	NUMBER 005
				REV. 3

240072(18)-WAC-004 to 007

100mm AT FULL SIZE

JOINS DRG-007



DIAL 1100 BEFORE YOU DIG

**WORK AS CONSTRUCTED**

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COMPANY: ADW JOHNSON PTY LTD COMPANY: \_\_\_\_\_  
NAME: MATHEW DAVID LONDON NAME: \_\_\_\_\_  
SIGNED: \_\_\_\_\_ DATE 16/02/2021 SIGNED: \_\_\_\_\_ DATE \_\_\_\_\_  
REGISTERED SURVEYOR CONSTRUCTION MANAGER

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

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

**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
- PWS PWS PE PRESSURE SEWER PROPERTY SERVICE
- EX PW EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EX RW EXISTING RECYCLED WATER RETICULATION
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- SW SW STORMWATER PIPEWORK
- SV STOP VALVE
- HYD. HYDRANT
- FL HYD. FLUSHING HYDRANT
- 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
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    - 14 x LONG SIDE
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    - 5 x SHORT SIDE
    - 0 x LONG SIDE

**POTABLE WATER PIPE DATA**

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	80
DN100	PVC-M PN16	498

- NOTES:**
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  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.

PLAN  
SCALE 1:250

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**adw Johnson**

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

CLIENT

**Huntlee + Water**

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
STAGE 18  
FERRY PARADE, HUNTLÉE

SURVEYED ADW Johnson DATUM A.H.D.

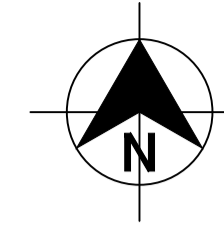
PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE PLAN OF WORKS AS CONSTRUCTED POTABLE WATER

PROJECT No.	DISCIPLINE	NUMBER	REV.
240072(18)	- WAC -	006	3

240072(18)-WAC-004 to 007

100mm AT FULL SIZE



DIAL 1100  
BEFORE YOU DIG

**WORK AS CONSTRUCTED**

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COMPANY: ADW JOHNSON PTY LTD COMPANY: \_\_\_\_\_  
 NAME: MATHEW DAVID LONDON NAME: \_\_\_\_\_  
 SIGNED: \_\_\_\_\_ DATE 16/02/2021 SIGNED: \_\_\_\_\_ DATE \_\_\_\_\_  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

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

PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
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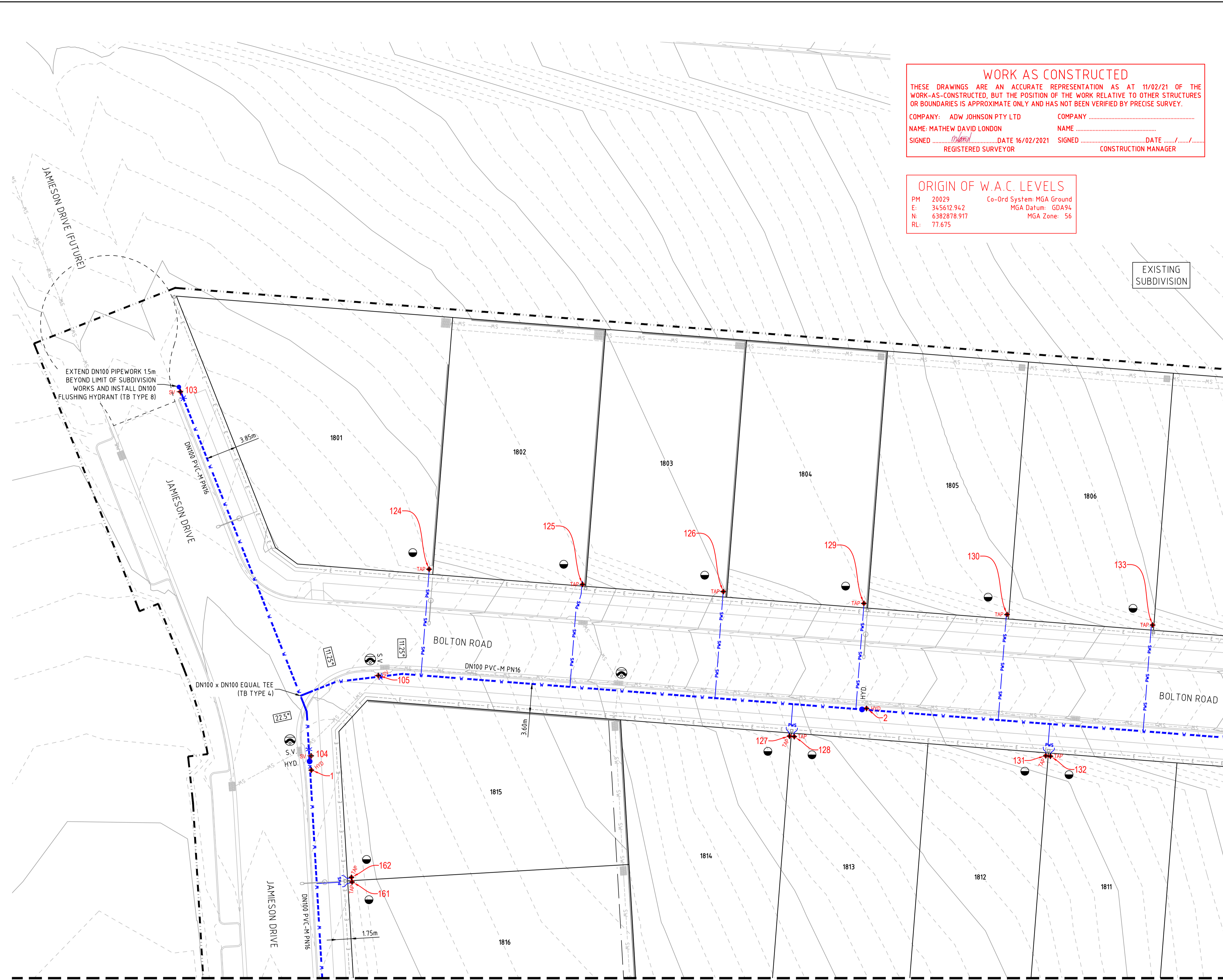
**LEGEND**

- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
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PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
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- NOTES:**
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  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.



PLAN  
SCALE 1:250

**WORK AS CONSTRUCTED**

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

CLIENT

**Huntlee Water**

PROPERTY DESCRIPTION

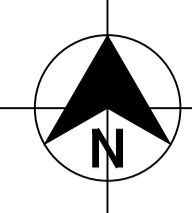
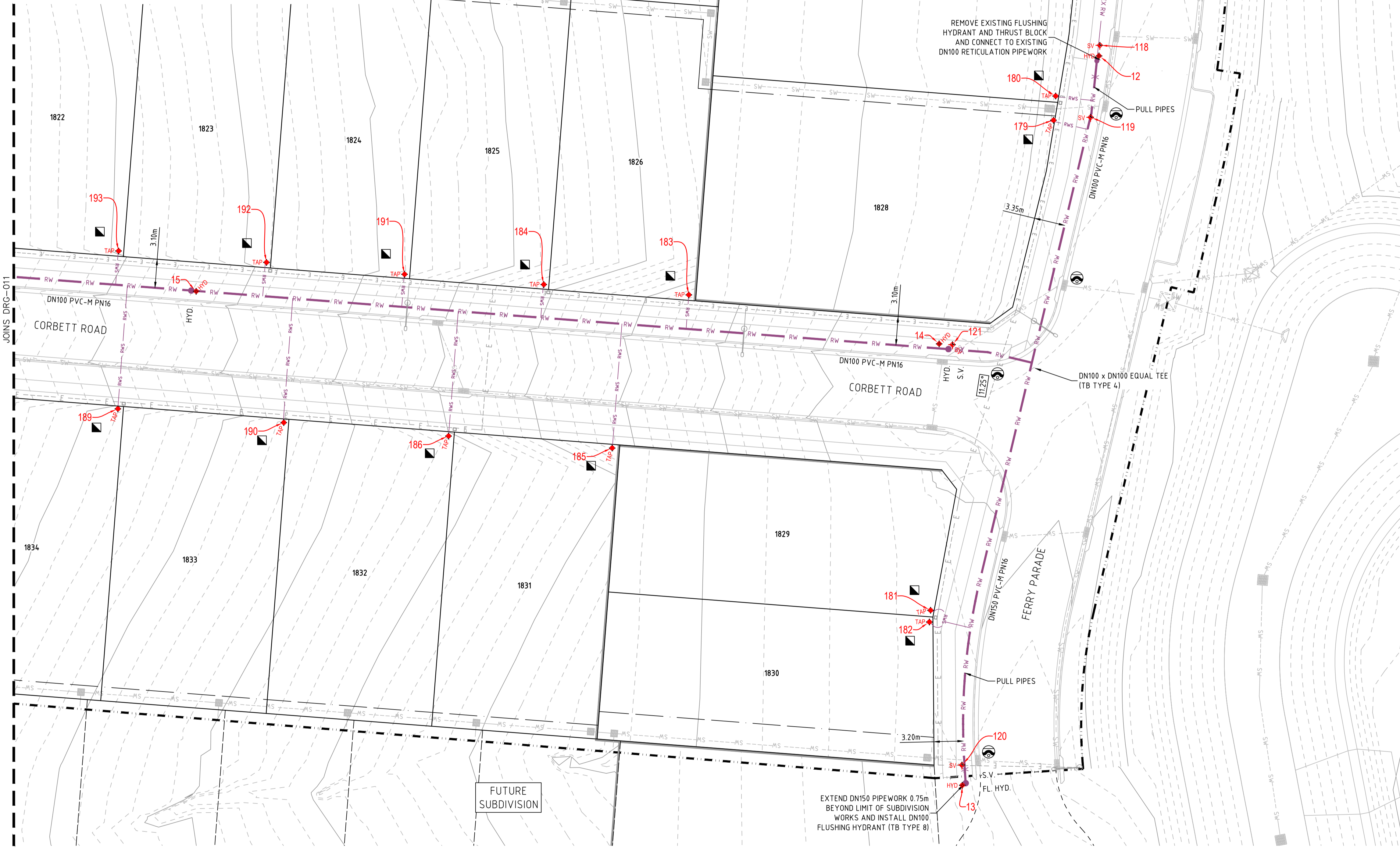
PROPOSED SUBDIVISION  
 STAGE 18  
 FERRY PARADE, HUNTLÉE

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

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PLAN OF WORKS AS CONSTRUCTED POTABLE WATER		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240072(18)	- WAC -	007	3

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 COMPANY: ADW JOHNSON PTY LTD COMPANY  
 NAME: MATHEW DAVID LONDON NAME  
 SIGNED: *MDL* DATE 16/02/2021 SIGNED: \_\_\_\_\_ DATE \_\_\_\_/\_\_\_\_/\_\_\_\_  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382878.917 MGA Zone: 56  
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- LEGEND**
- RW — PVC-M RECYCLED WATER RETICULATION
  - RWS — RECYCLED WATER PROPERTY SERVICE
  - PWS — 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 — STORMWATER PIPEWORK
  - SV — STOP VALVE
  - HYD. — HYDRANT
  - FL HYD. — FLUSHING HYDRANT
  - 22.5° — 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
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  - - - - - SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS  
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 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
 -5 x SHORT SIDE  
 -0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	577

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
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PLAN  
 SCALE 1:250

**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>28.07.2020</td> <td>PRELIMINARY ISSUE</td> <td>J.N.</td> <td>C.B.</td> <td>J.N.</td> <td>C.B.</td> </tr> <tr> <td>B</td> <td>11.08.2020</td> <td>AMENDED ISSUE - CLIENT COMMENTS</td> <td>J.N.</td> <td>C.B.</td> <td>J.N.</td> <td>C.B.</td> </tr> <tr> <td>C</td> <td>28.08.2020</td> <td>AMENDED ISSUE</td> <td>J.N.</td> <td>C.B.</td> <td>J.N.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>03.09.2020</td> <td>CONSTRUCTION ISSUE</td> <td>J.N.</td> <td>C.B.</td> <td>J.N.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>15.10.2020</td> <td>LOTS 1831 &amp; 1837 PAD LEVEL AMENDED</td> <td>T.S.</td> <td>C.B.</td> <td>J.N.</td> <td>C.B.</td> </tr> <tr> <td>2</td> <td>29.10.2020</td> <td>LOT 1837 PAD LEVEL AMENDED</td> <td>T.S.</td> <td>C.B.</td> <td>J.N.</td> <td>C.B.</td> </tr> <tr> <td>3</td> <td>16.02.2021</td> <td>WORKS AS CONSTRUCTED</td> <td>G.S.</td> <td>M.L.</td> <td>-</td> <td>M.L.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	B	11.08.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	C	28.08.2020	AMENDED ISSUE	J.N.	C.B.	J.N.	C.B.	0	03.09.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	1	15.10.2020	LOTS 1831 & 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	2	29.10.2020	LOT 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.	<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 18                  FERRY PARADE, HUNTLÉE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>PLAN OF WORKS AS CONSTRUCTED RECYCLED WATER</p>	<p>PROJECT No.</p> <p>240072(18)</p>	<p>DISCIPLINE</p> <p>- WAC -</p>	<p>NUMBER</p> <p>009</p>	<p>REV.</p> <p>3</p>
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240072(18)-WAC-009 to 012

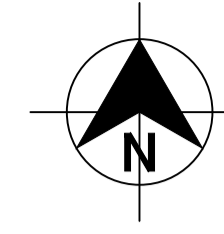
JOINS DRG-012

100mm AT FULL SIZE

JOINS DRG-009

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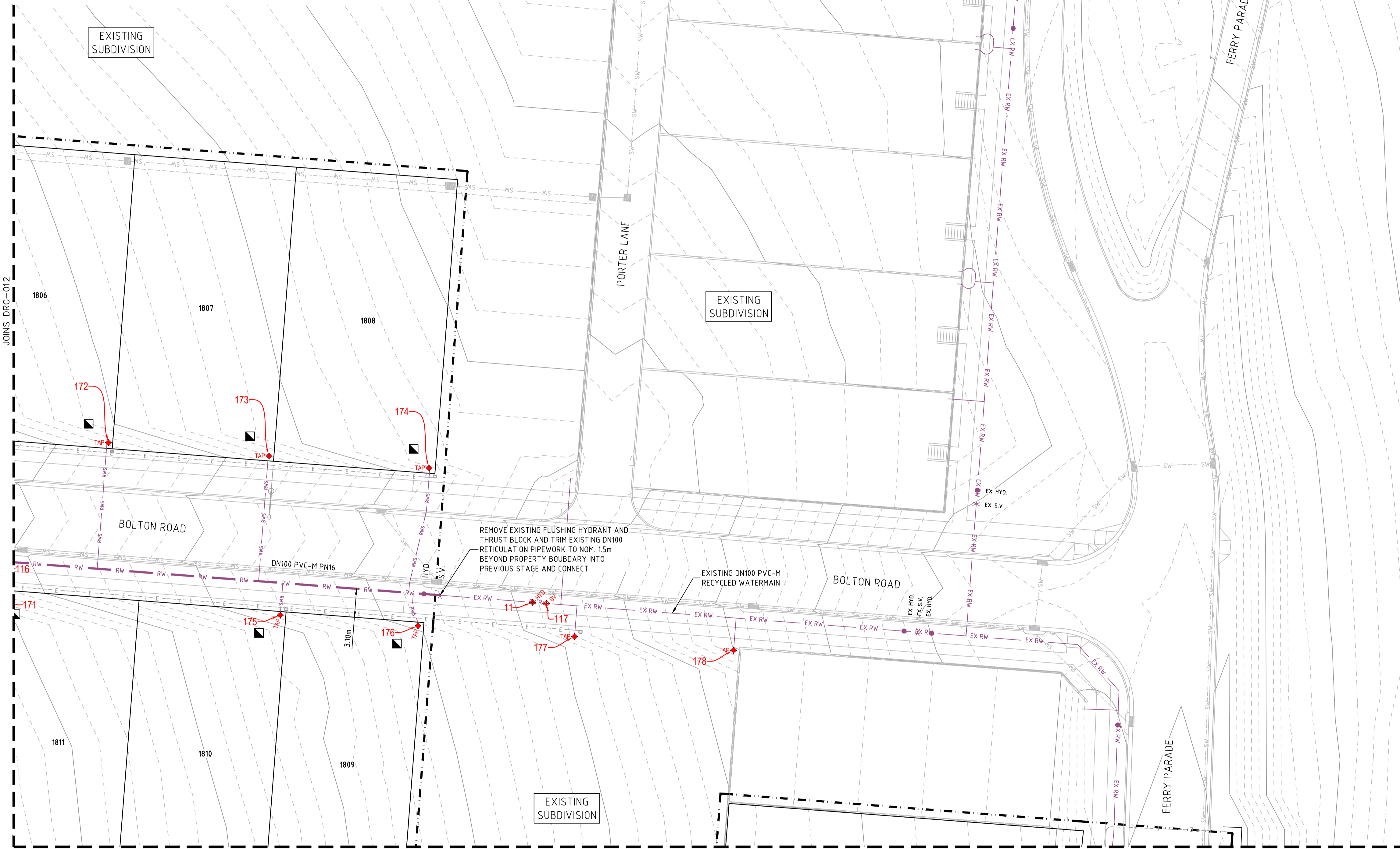
DIAL 1100 BEFORE YOU DIG

- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
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PLAN SCALE 1:250

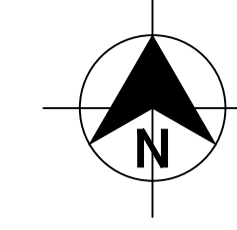
**WORK AS CONSTRUCTED**

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240072(18)-WAC-009 to 012

100mm AT FULL SIZE

JOINS DRG-012



DIAL 1100 BEFORE YOU DIG

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 11/02/21 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 16/02/2021 SIGNED: DATE
REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

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

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 STORMWATER PIPEWORK
SV STOP VALVE
HYD. HYDRANT
FL HYD. FLUSHING HYDRANT
22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
11.25° 11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
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 37 CONNECTIONS
• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-13 x SHORT SIDE
-14 x LONG SIDE
• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-5 x SHORT SIDE
-0 x LONG SIDE

RECYCLED WATER PIPE DATA

Table with 3 columns: PIPE SIZE (mm), PIPE MATERIAL, TOTAL LENGTH (m). Row 1: DN100, PVC-M PN16, 577

- NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 019.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.

PLAN SCALE 1:250

Table with 4 columns: REV., DATE, AMENDMENT, DRAWN/CHECK/DESIGN/VERIFY. Includes revision history from 28.07.2020 to 16.02.2021.

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

Huntlee Water logo and client information.

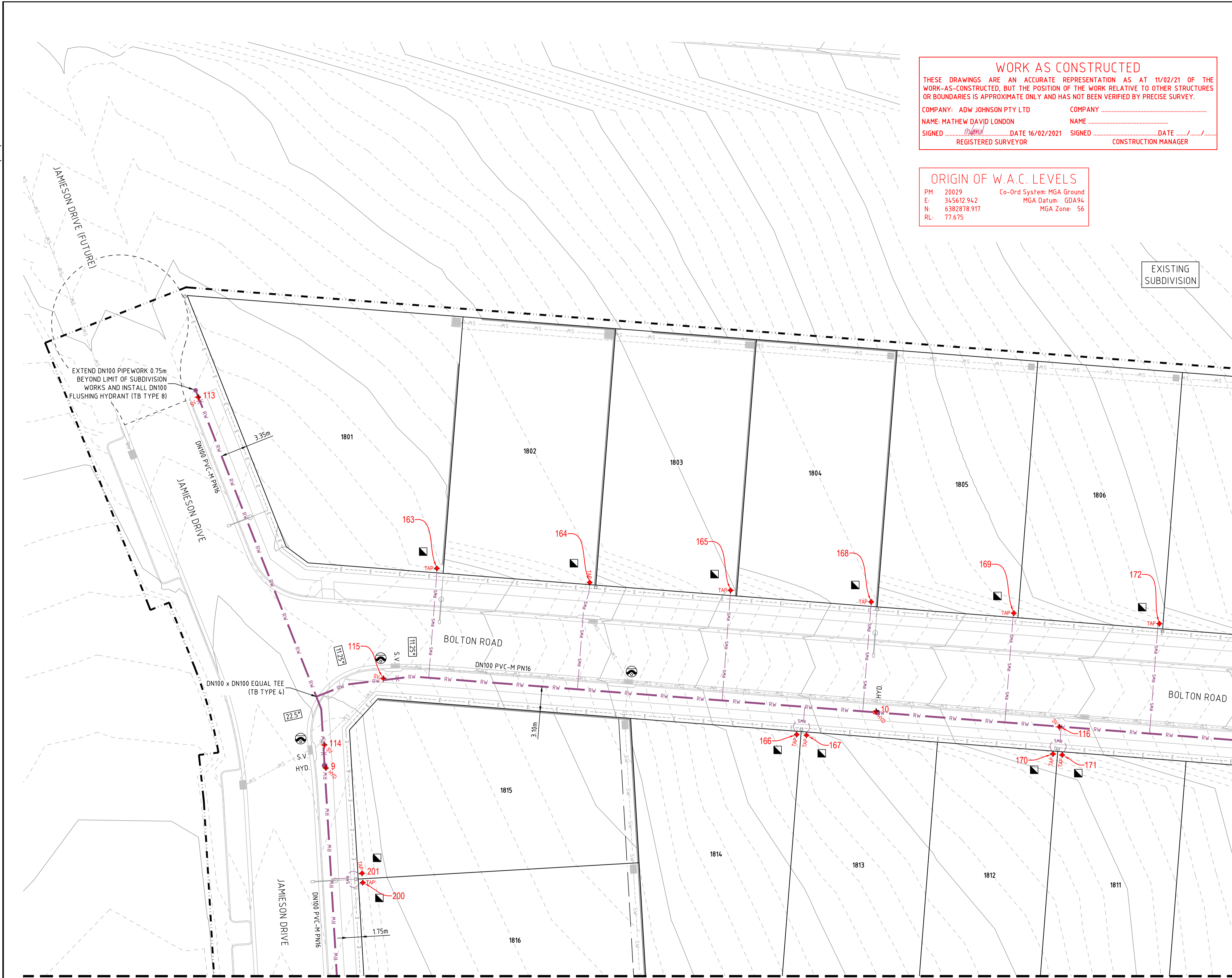
Table with 2 columns: SURVEYED (ADW Johnson), DATUM (A.H.D.).

Table with 4 columns: PROJECT (POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION), PLAN TITLE (PLAN OF WORKS AS CONSTRUCTED RECYCLED WATER), PROJECT No. (240072(18)), DISCIPLINE (WAC), NUMBER (011), REV. (3).

WORK AS CONSTRUCTED

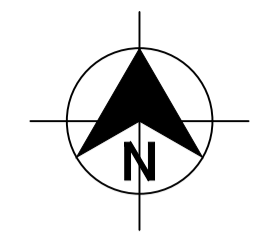
240072(18)-WAC-009 to 012

100mm AT FULL SIZE



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 NAME: MATHEW DAVID LONDON NAME \_\_\_\_\_  
 SIGNED: *MatheW* DATE 16/02/2021 SIGNED \_\_\_\_\_ DATE \_\_\_\_/\_\_\_\_/\_\_\_\_\_  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382818.917 MGA Zone: 56  
 RL: 77.675



- LEGEND**
- RW RW PVC-M RECYCLED WATER RETICULATION
  - RWS RWS RECYCLED WATER PROPERTY SERVICE
  - PVC-M POTABLE WATER RETICULATION
  - POTABLE WATER PROPERTY SERVICE
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RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	577

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PLAN  
SCALE 1:250

**WORK AS CONSTRUCTED**

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COMPANY: ADW JOHNSON PTY LTD COMPANY: \_\_\_\_\_  
 NAME: MATHEW DAVID LONDON NAME: \_\_\_\_\_  
 SIGNED: \_\_\_\_\_ DATE 16/02/2021 SIGNED: \_\_\_\_\_ DATE \_\_\_\_\_  
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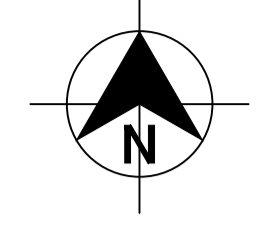
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 PM: 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382878.917 MGA Zone: 56  
 RL: 77.675

JOINS DRG-016

JOINS DRG-015

EXISTING SUBDIVISION

FUTURE SUBDIVISION



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - PWS PVC-M POTABLE WATER RETICULATION
  - PWS POTABLE WATER PROPERTY SERVICE
  - RW PVC-M RECYCLED WATER RETICULATION
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  - EX RW EXISTING RECYCLED WATER RETICULATION
  - SW STORMWATER PIPEWORK
  - IV ISOLATION VALVE
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  - 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
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■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS  
 TOTAL 37 CONNECTIONS  
 • SINGLE SERVICES -23 x SHORT SIDE  
 -14 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE100 SDR11	282
DN50	PE100 SDR11	385

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 AND 012.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.
  - 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).

PLAN  
 SCALE 1:250

**WORK AS CONSTRUCTED**

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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

**Huntlee + Water**

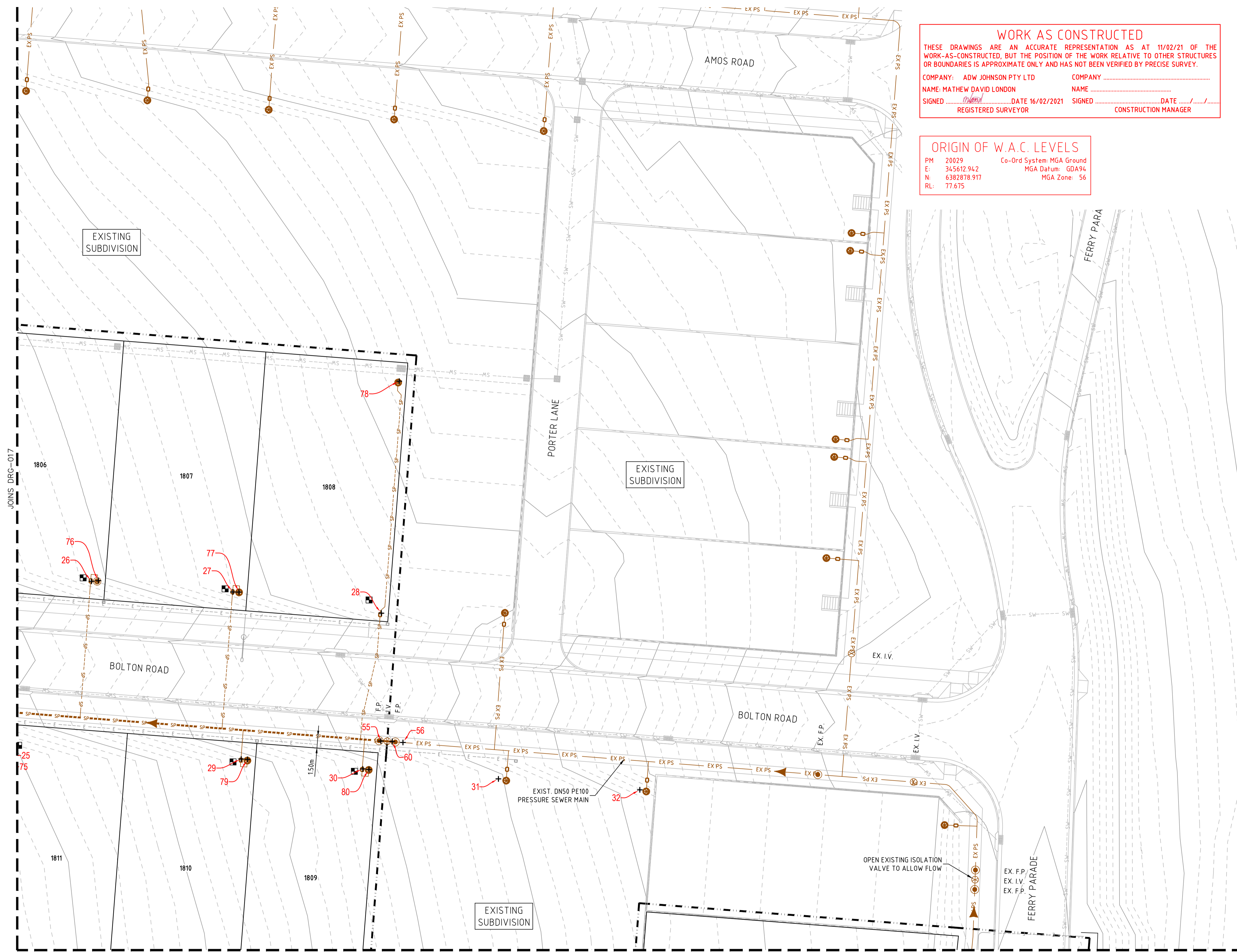
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 STAGE 18  
 FERRY PARADE, HUNTLÉE

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

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PLAN OF WORKS AS CONSTRUCTED PRESSURE SEWER		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240072(18)	- WAC -	014	3

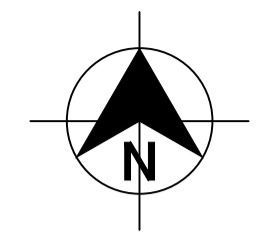
240072(18)-WAC-014 to 018



JOINS DRG-014  
**PLAN**  
 SCALE 1:250

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 NAME: MATHEW DAVID LONDON  
 SIGNED: [Signature] DATE 16/02/2021 REGISTERED SURVEYOR  
 COMPANY: [Signature] NAME: [Signature] DATE: [Signature] CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029 Co-Ord System: MGA Ground  
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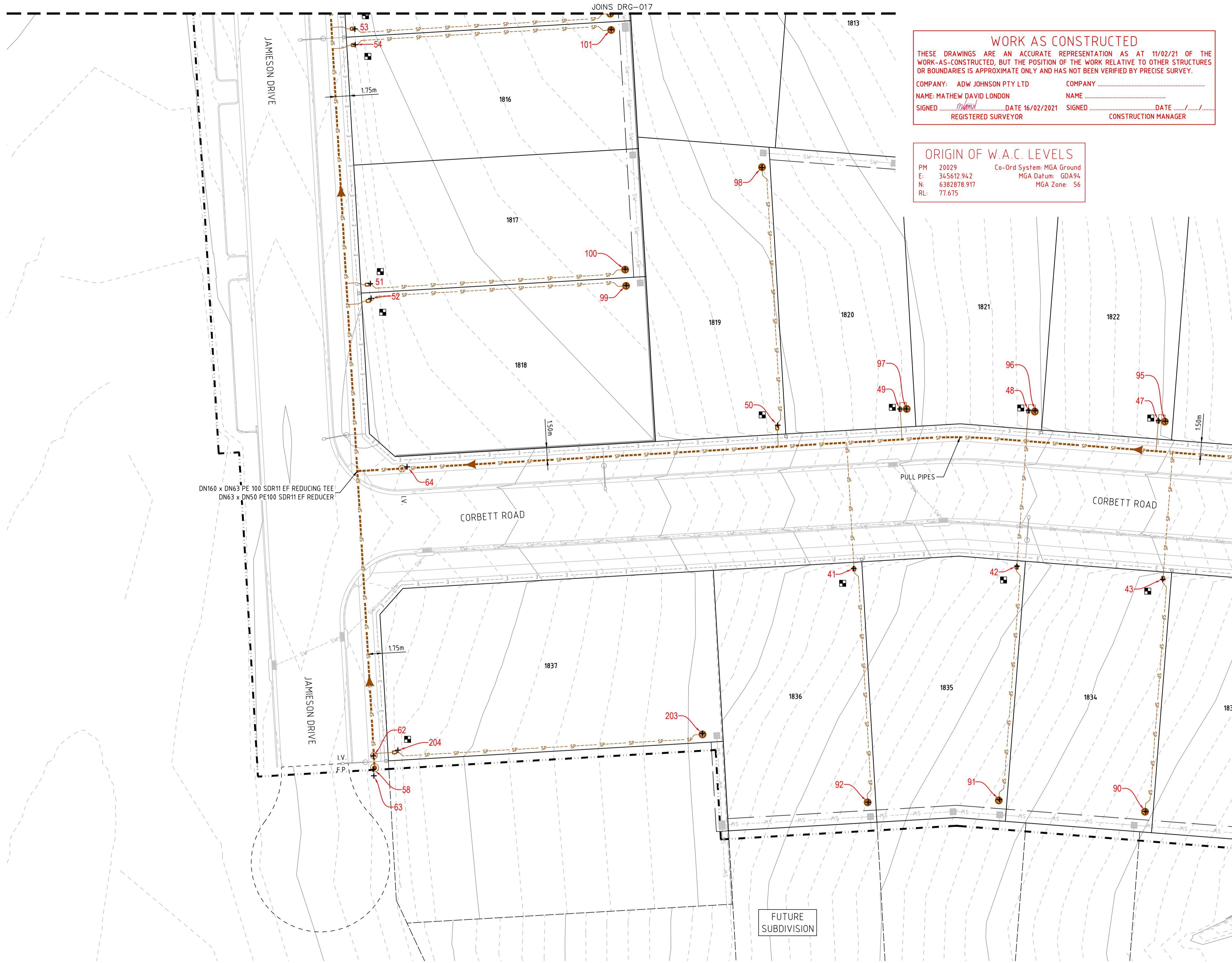
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  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 AND 012.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - FOR FLOW MONITORING POINT TYPICAL 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**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	<b>Huntlee + Water</b>	CLIENT PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLÉE	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLÉE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE PLAN OF WORKS AS CONSTRUCTED PRESSURE SEWER	PROJECT No. 240072(18)	DISCIPLINE - WAC -	NUMBER 015	REV. 3	
A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	0 5 10 A1 / A3												
B	11.08.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	1:250 / 1:500												
C	28.08.2020	AMENDED ISSUE	J.N.	C.B.	J.N.	C.B.													
0	03.09.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
1	15.10.2020	LOTS 1831 & 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.													
2	29.10.2020	LOT 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.													
3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.													

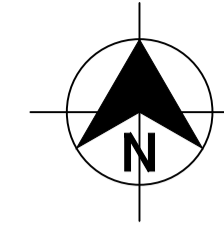
240072(18)-WAC-014 to 018

100mm AT FULL SIZE



**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 11/02/21 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 16/02/2021 SIGNED: \_\_\_\_\_ DATE \_\_\_\_\_  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 638278.917 MGA Zone: 56  
 RL: 77.675



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - PWS PVC-M POTABLE WATER RETICULATION
  - PWS POTABLE WATER PROPERTY SERVICE
  - RW PVC-M RECYCLED WATER RETICULATION
  - RWS RECYCLED WATER PROPERTY SERVICE
  - EX PS EXISTING PRESSURE SEWER RETICULATION
  - EX PW EXISTING POTABLE WATER RETICULATION
  - EX RW EXISTING RECYCLED WATER RETICULATION
  - SW STORMWATER PIPEWORK
  - IV ISOLATION VALVE
  - FP 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 37 CONNECTIONS  
 • SINGLE SERVICES -23 x SHORT SIDE  
 -14 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE100 SDR11	282
DN50	PE100 SDR11	385

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 AND 012.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.
  - 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).

PLAN  
SCALE 1:250

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	0 5 10 A1 / A3 1:250 / 1:500
B	11.08.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
C	28.08.2020	AMENDED ISSUE	J.N.	C.B.	J.N.	C.B.	
0	03.09.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
1	15.10.2020	LOTS 1831 & 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	
2	29.10.2020	LOT 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	
3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.	

**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  
**Huntlee + Water**

PROPERTY DESCRIPTION  
 PROPOSED SUBDIVISION  
 STAGE 18  
 FERRY PARADE, HUNTLÉE

SURVEYED  
ADW Johnson

DATUM  
A.H.D.

PROJECT  
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE  
PLAN OF WORKS AS CONSTRUCTED PRESSURE SEWER

PROJECT No.	DISCIPLINE	NUMBER	REV.
240072(18)	- WAC -	016	3

240072(18)-WAC-014 to 018

100mm AT FULL SIZE

JOINS DRG-018

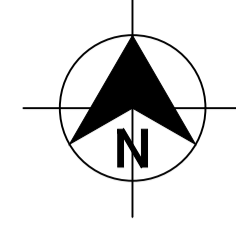
JOINS DRG-016

PLAN  
SCALE 1:250

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COMPANY: ADW JOHNSON PTY LTD      COMPANY: \_\_\_\_\_  
 NAME: MATHEW DAVID LONDON      NAME: \_\_\_\_\_  
 SIGNED: \_\_\_\_\_ DATE 16/02/2021      SIGNED: \_\_\_\_\_ DATE \_\_\_\_\_  
 REGISTERED SURVEYOR      CONSTRUCTION MANAGER

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



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - PWS PVC-M POTABLE WATER RETICULATION
  - PWS POTABLE WATER PROPERTY SERVICE
  - RW PVC-M RECYCLED WATER RETICULATION
  - RWS RECYCLED WATER PROPERTY SERVICE
  - EX PS EXISTING PRESSURE SEWER RETICULATION
  - EX PW EXISTING POTABLE WATER RETICULATION
  - EX RW EXISTING RECYCLED WATER RETICULATION
  - SW STORMWATER PIPEWORK
  - IV ISOLATION VALVE
  - FP 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 37 CONNECTIONS  
 • SINGLE SERVICES - 23 x SHORT SIDE  
 - 14 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE100 SDR11	282
DN50	PE100 SDR11	385

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 AND 012.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.
  - 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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B	11.08.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
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0	03.09.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
1	15.10.2020	LOTS 1831 & 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	
2	29.10.2020	LOT 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	
3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.	

**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

**Huntlee + Water**

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 STAGE 18  
 FERRY PARADE, HUNTLÉE

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

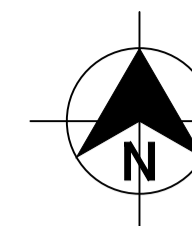
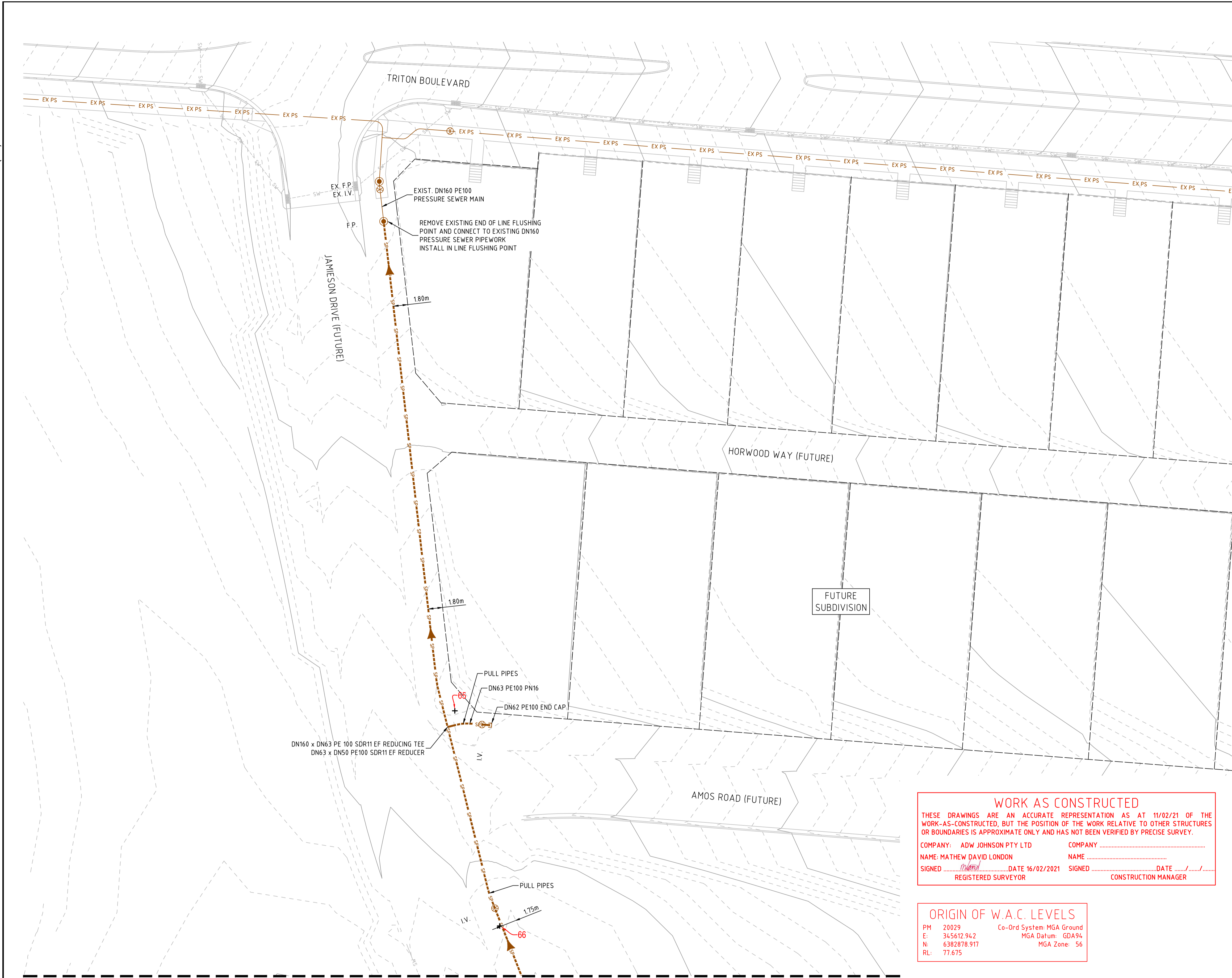
PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PLAN OF WORKS AS CONSTRUCTED PRESSURE SEWER

PROJECT No.	DISCIPLINE	NUMBER	REV.
240072(18)	- WAC -	017	3

240072(18)-WAC-014 to 018

100mm AT FULL SIZE



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - PWS 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 PWS EXISTING POTABLE WATER RETICULATION
  - EX RW EXISTING RECYCLED WATER RETICULATION
  - SW STORMWATER PIPEWORK
  - IV ISOLATION VALVE
  - FP 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 37 CONNECTIONS  
 • SINGLE SERVICES - 23 x SHORT SIDE  
 - 14 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE100 SDR11	282
DN50	PE100 SDR11	385

**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 11/02/21 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: 16/02/2021  
 REGISTERED SURVEYOR

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

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 AND 012.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-022.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
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  - 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).

JOINS DRG-011  
**PLAN**  
 SCALE 1:250

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	0 5 10 A1 / A3		ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	HUNTLEE + WATER	PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN OF WORKS AS CONSTRUCTED PRESSURE SEWER	240072(18)	- WAC -	018
B	11.08.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.										
C	28.08.2020	AMENDED ISSUE	J.N.	C.B.	J.N.	C.B.										
0	03.09.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
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2	29.10.2020	LOT 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.										
3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.										





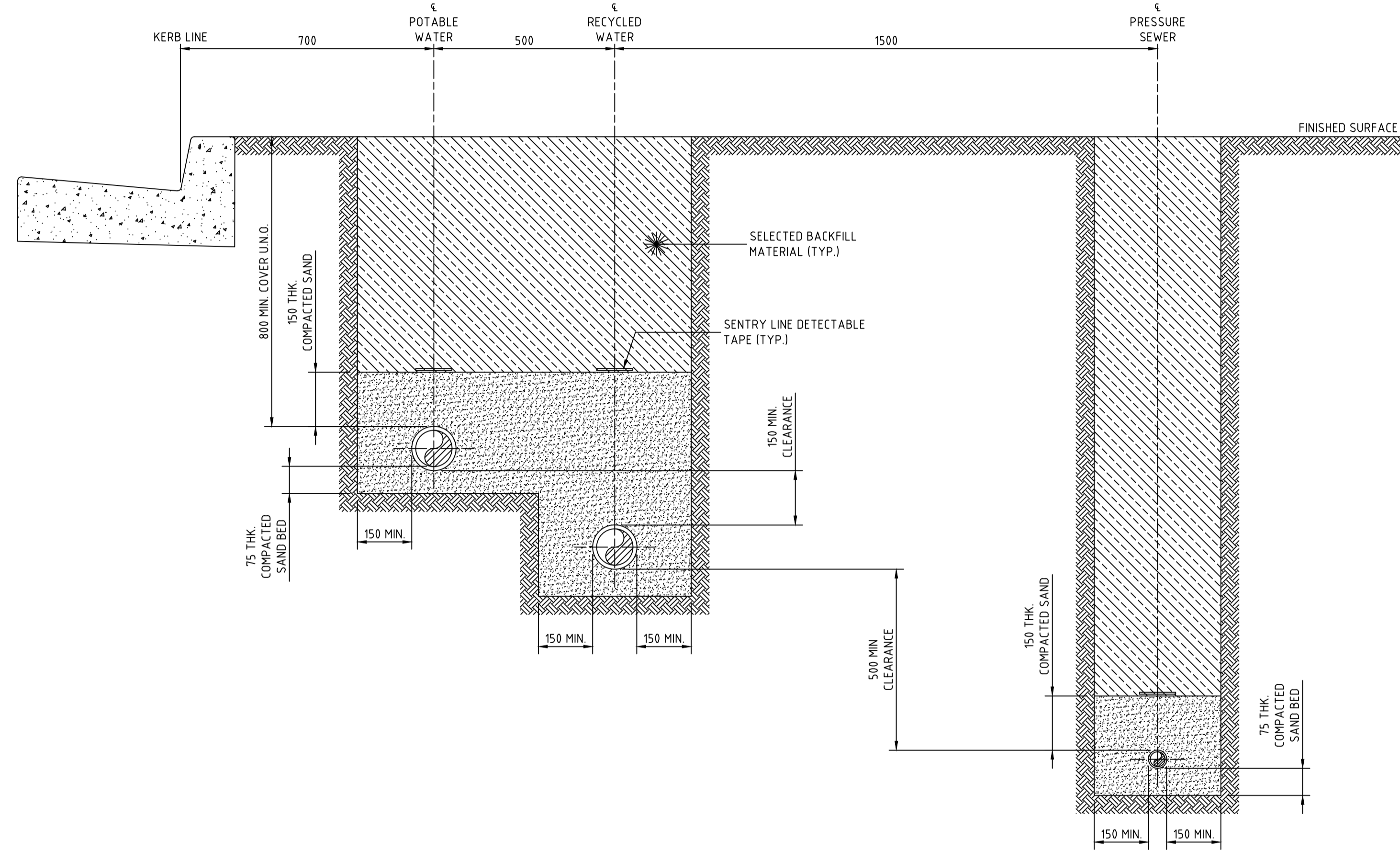
**WORK AS CONSTRUCTED**

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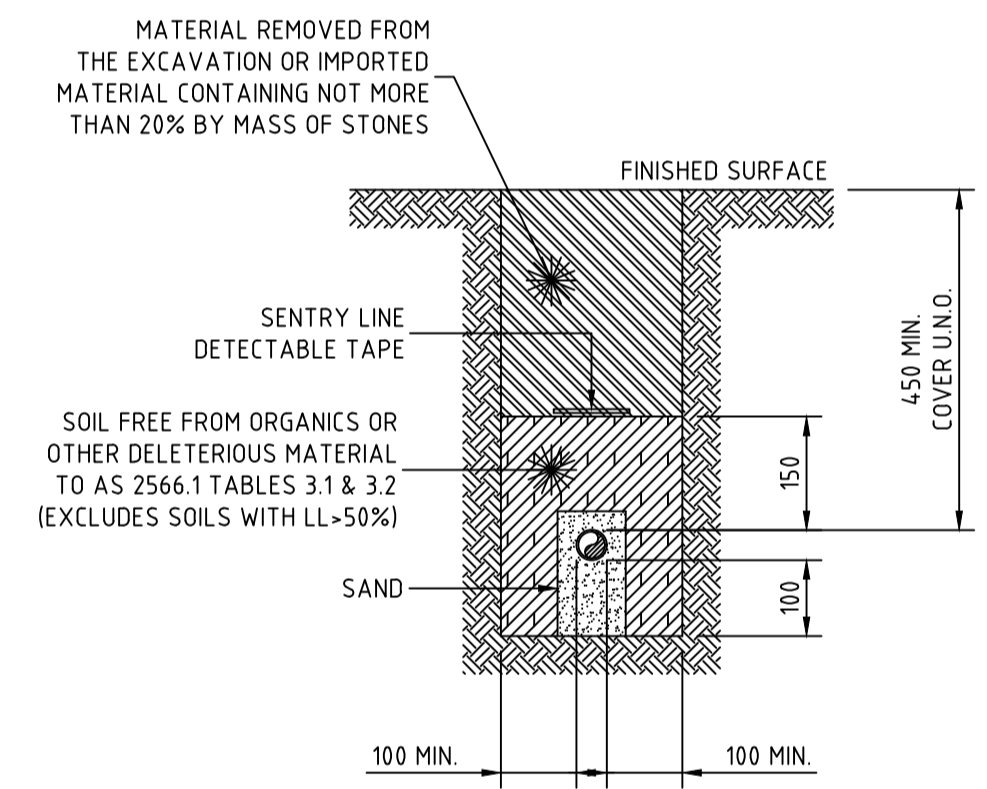
COMPANY: ADW JOHNSON PTY LTD      COMPANY: \_\_\_\_\_  
 NAME: MATHEW DAVID LONDON      NAME: \_\_\_\_\_  
 SIGNED: \_\_\_\_\_ DATE 16/02/2021      SIGNED: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_  
 REGISTERED SURVEYOR      CONSTRUCTION MANAGER

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

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



**STREET PRESSURE MAIN  
TYPICAL DETAIL**  
SCALE 1:10



**PRIVATE PROPERTY PRESSURE MAIN  
TYPICAL DETAIL**  
SCALE 1:10

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

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.	

**adw Johnson**

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

**Huntlee + Water**

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLÉE	
SURVEYED	DATUM
ADW Johnson	A.H.D.

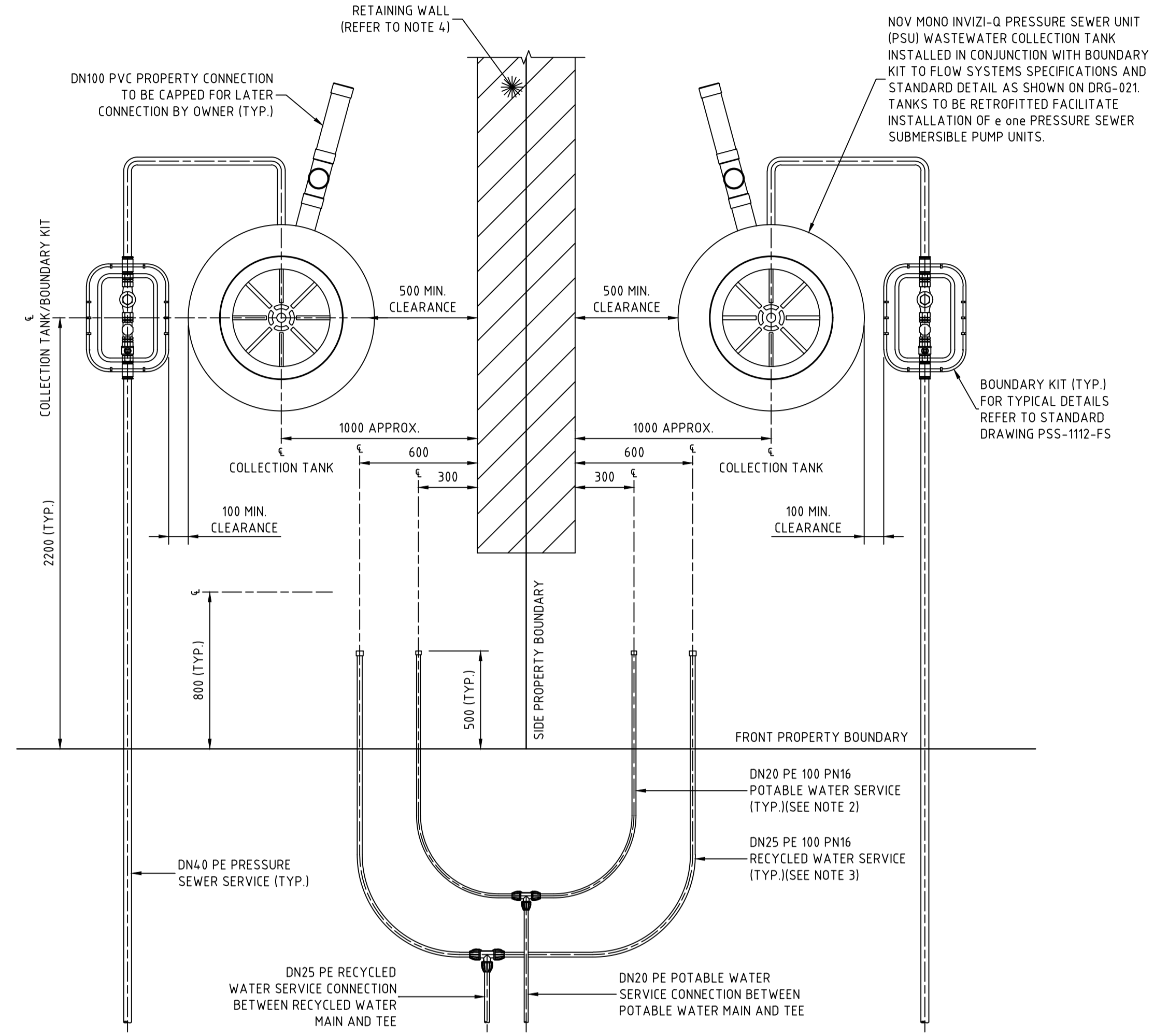
PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE TYPICAL PIPEWORK TRENCHING DETAIL			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240072(18)	- WAC -	020	3



**DIAL1100**  
BEFORE YOU DIG

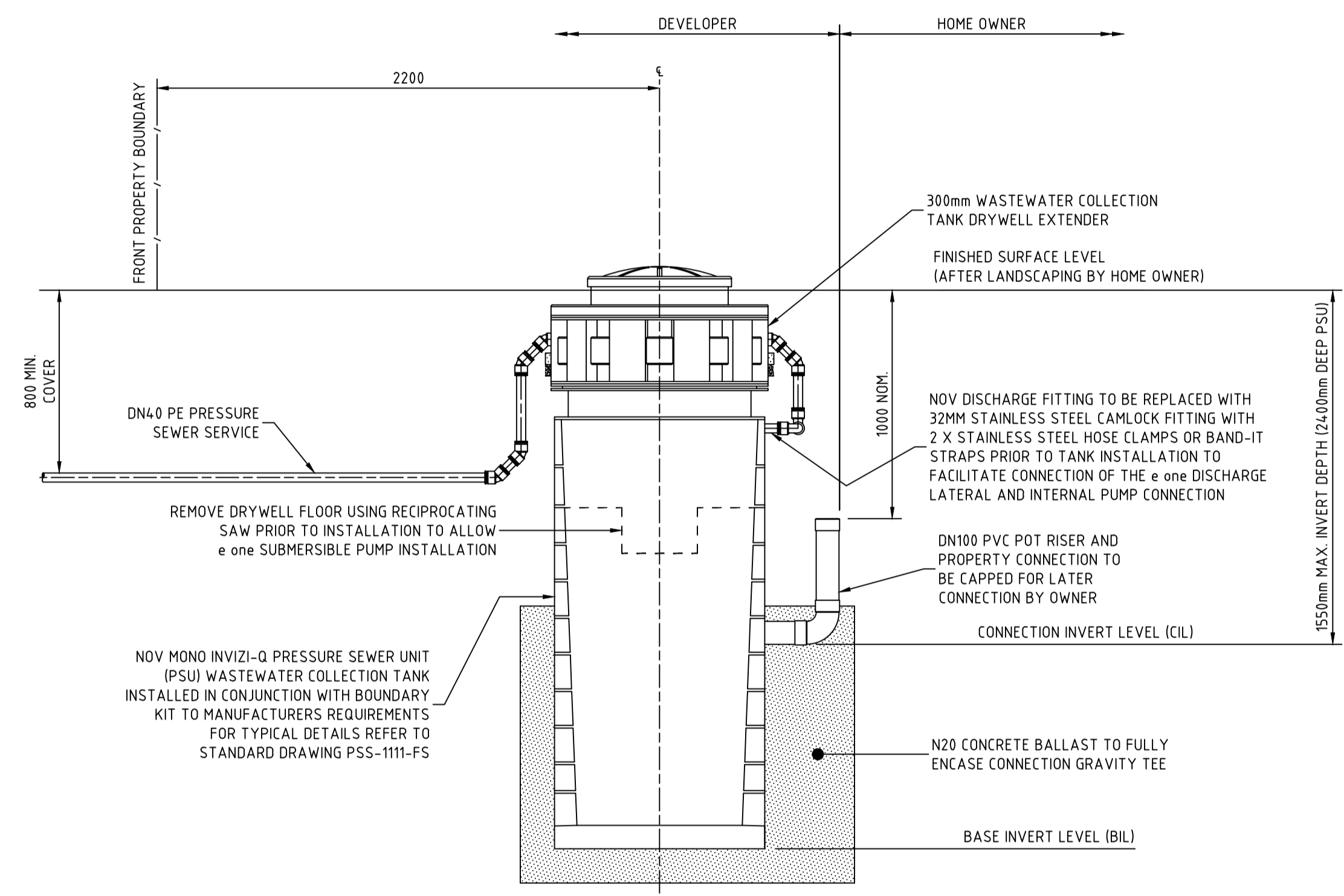
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COMPANY: ADW JOHNSON PTY LTD COMPANY .....  
NAME: MATHEW DAVID LONDON NAME .....  
SIGNED: ..... DATE 16/02/2021 SIGNED: ..... DATE .....  
REGISTERED SURVEYOR REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
PM 20029 Co-Ord System: MGA Ground  
E: 345612.942 MGA Datum: GDA94  
N: 638278.917 MGA Zone: 56  
RL: 71.675



TYPICAL PROPERTY CONNECTION DETAIL  
SCALE 1:20

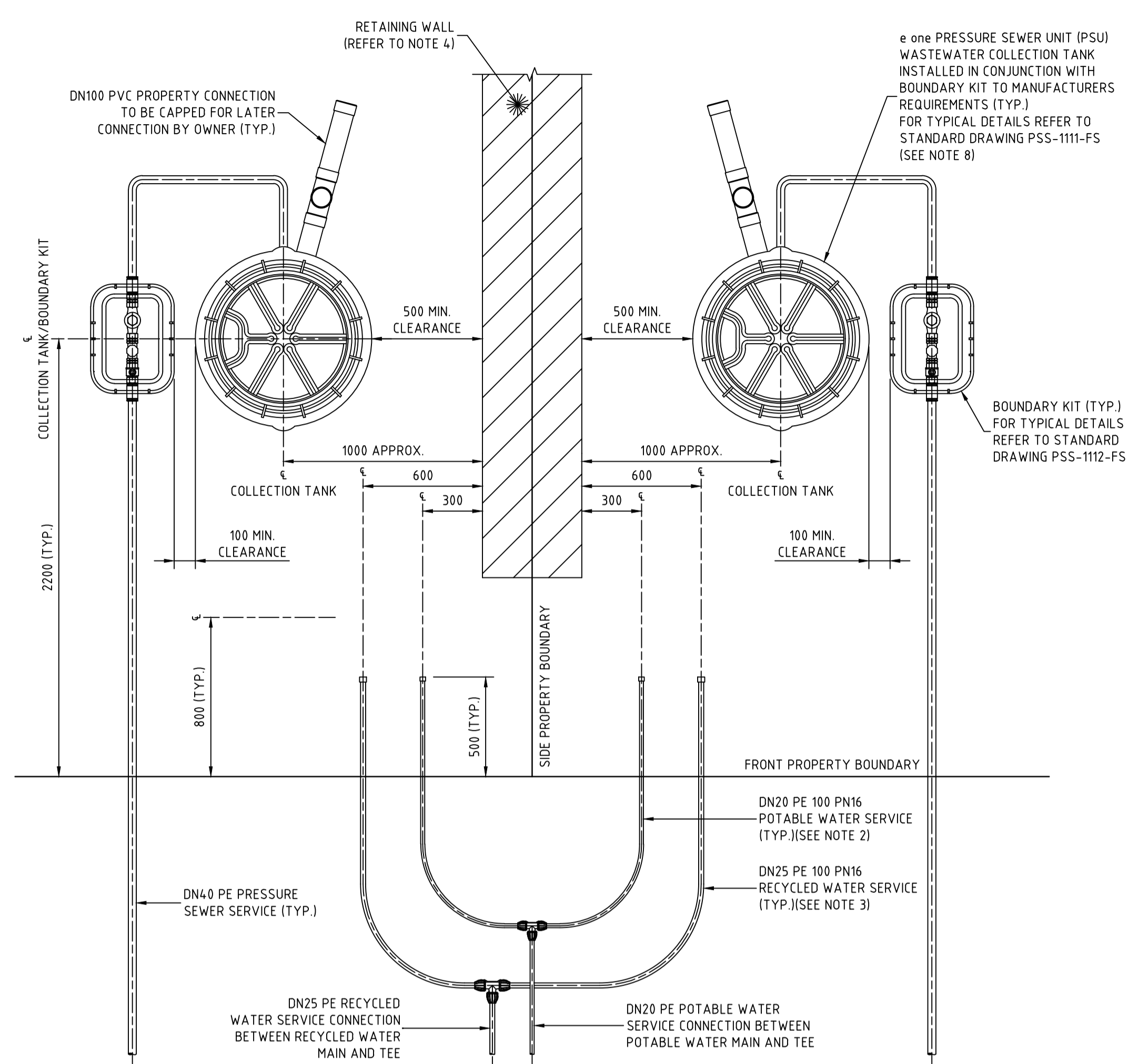
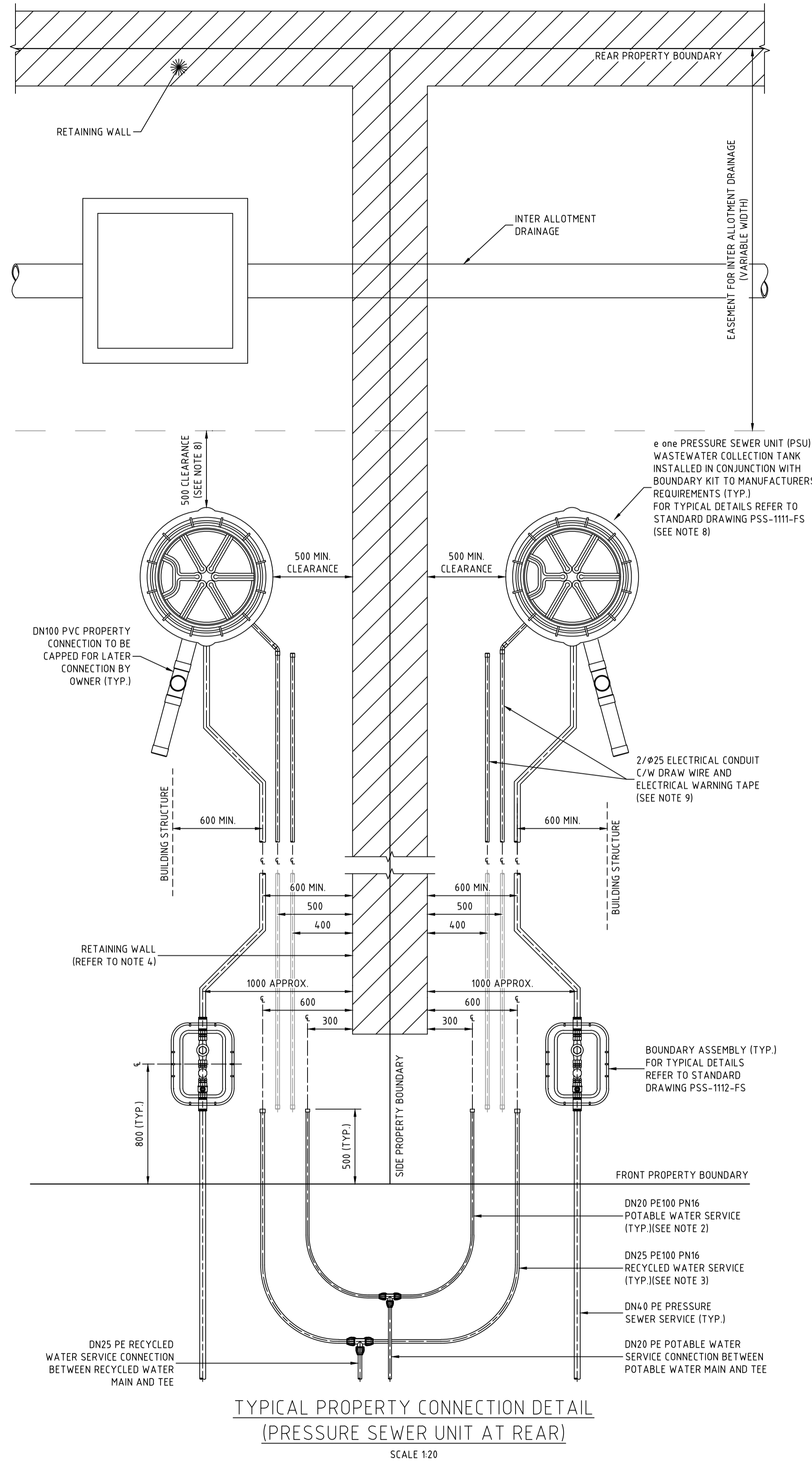
- NOTES:**
- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
  - DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
  - DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
  - FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
  - WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
  - MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
  - ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
  - PRESSURE SEWER UNIT (PSU) IS TO HAVE 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.



PRESSURE SEWER SERVICE CONNECTION  
TYPICAL SECTIONAL ELEVATION  
SCALE 1:20  
(FRONT OF LOT SERVICE CONNECTION WITH 1 DRYWELL EXTENDER)

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	<b>CLIENT</b> 	PROPERTY DESCRIPTION		PROJECT		
PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLEE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION													
A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.		DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 240072(18)	DISCIPLINE - WAC -	NUMBER 021	REV. 3
B	11.08.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.									
C	28.08.2020	AMENDED ISSUE	J.N.	C.B.	J.N.	C.B.									
0	03.09.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.									
1	15.10.2020	LOTS 1831 & 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.									
2	29.10.2020	LOT 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.									
3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.									



- 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 JOINING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
  - PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
  - ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
  - FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-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.

**WORK AS CONSTRUCTED**

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COMPANY: ADW JOHNSON PTY LTD  
NAME: MATHEW DAVID LONDON  
SIGNED: [Signature] DATE 16/02/2021  
REGISTERED SURVEYOR

COMPANY: \_\_\_\_\_  
NAME: \_\_\_\_\_  
SIGNED: \_\_\_\_\_ DATE \_\_\_\_/\_\_\_\_/\_\_\_\_  
CONSTRUCTION MANAGER

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

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

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	28.07.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3
B	11.08.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	1:10 / 1:20
C	28.08.2020	AMENDED ISSUE	J.N.	C.B.	J.N.	C.B.	0 0.4 0.8 A1 / A3
0	03.09.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	1:20 / 1:40
1	15.10.2020	LOTS 1831 & 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	
2	29.10.2020	LOT 1837 PAD LEVEL AMENDED	T.S.	C.B.	J.N.	C.B.	
3	16.02.2021	WORKS AS CONSTRUCTED	G.S.	M.L.	-	M.L.	

**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

**Huntlee + Water**

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
STAGE 18  
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. 240072(18)  
DISCIPLINE - WAC -  
NUMBER 022  
REV. 3

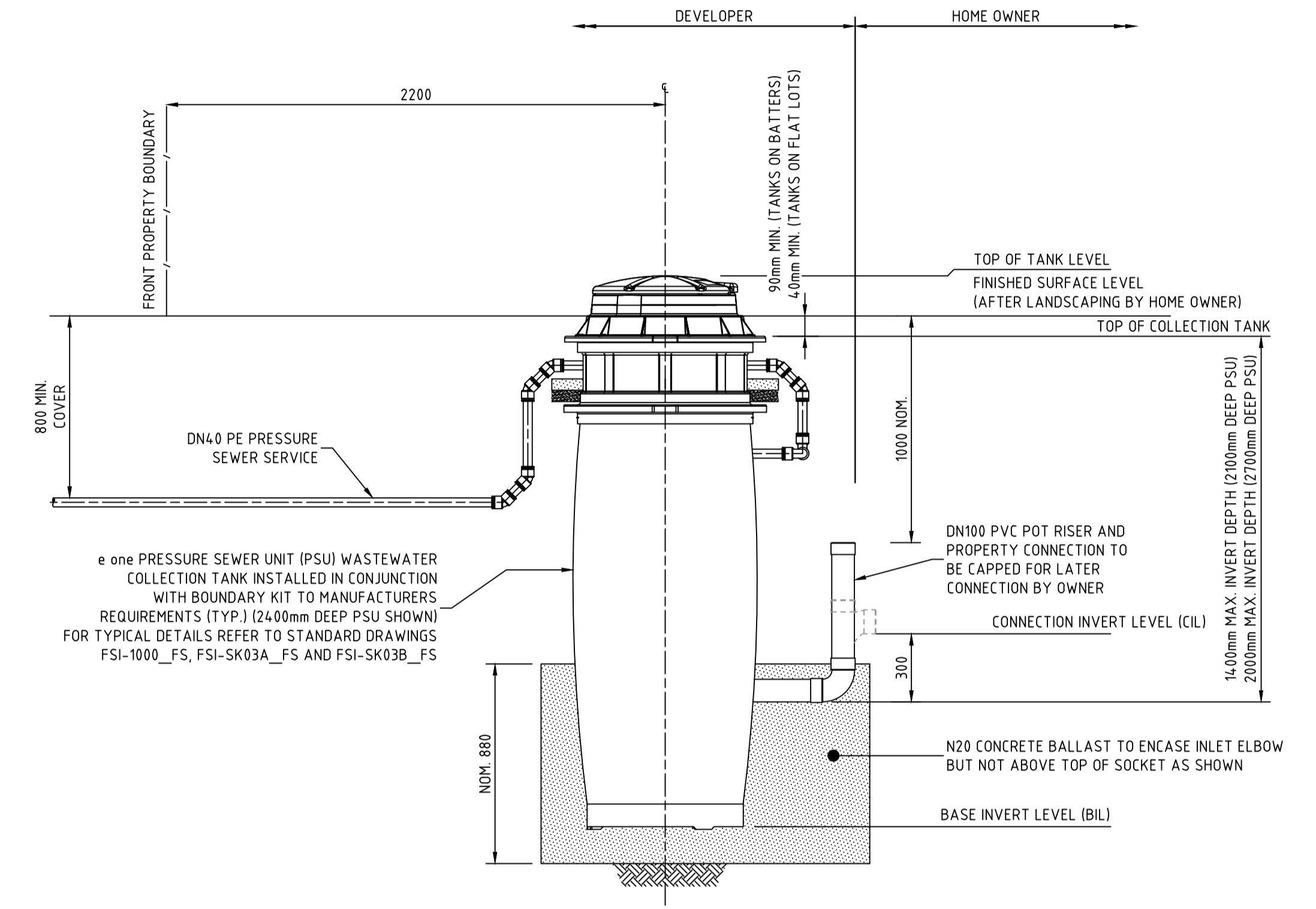


100mm AT FULL SIZE

WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	FINISHED SURFACE LEVEL (FSL)	TANK BASE INVERT LEVEL (BIL)	TANK CONNECTION INVERT LEVEL (CIL)	TANK HEIGHT	TANK CAPACITY	TANK LOCATION	EASTING	NORTHING	TOP OF COLLECTION TANK LID	CALCULATED SANITARY DRAINAGE INVERT LEVEL	WAC v's DESIGN INVERT LEVEL COMPARISON
1801	67.29	65.42	66.02	2100	650 L	REAR	34644.10	6383014.85	67.48	66.22	0.20
1802	67.30	65.13	65.73	2400	800 L	FRONT	346457.99	6382986.16	67.48	65.91	0.18
1803	66.20	64.03	64.63	2400	800 L	FRONT	346475.49	6382984.81	66.30	64.73	0.10
1804	64.80	62.63	63.23	2400	800 L	FRONT	346492.98	6382983.45	64.90	63.33	0.10
1805	63.42	61.55	62.15	2100	650 L	REAR	346512.59	6383009.32	62.50	61.24	-0.91
1806	62.10	59.88	60.55	2700	-	FRONT BATTER	346530.58	6383007.92	62.26	60.49	-0.06
1807	61.12	58.90	59.50	2400	800 L	FRONT BATTER	346546.17	6382979.34	61.23	59.66	0.16
1808	59.70	57.83	58.43	2100	650 L	REAR	346565.77	6383005.20	59.88	58.62	0.19
1809	61.11	59.19	59.79	2100	650 L	FRONT BATTER	346562.14	6382957.45	61.15	59.88	0.09
1810	62.04	60.12	60.72	2100	650 L	FRONT BATTER	346547.19	6382958.60	62.20	60.94	0.22
1811	63.72	61.50	62.10	2400	800 L	FRONT BATTER	346517.28	6382960.91	63.83	62.26	0.16
1812	63.83	61.91	62.51	2100	650 L	FRONT BATTER	346515.28	6382961.07	63.91	62.65	0.14
1813	65.29	63.42	64.02	2100	650 L	FRONT	346485.37	6382963.38	65.38	64.12	0.10
1814	65.44	63.57	64.17	2100	650 L	FRONT	346483.38	6382963.53	65.49	64.22	0.05
1815	68.06	66.19	66.79	2100	650 L	REAR	346461.83	6382950.19	68.20	66.93	0.14
1816	68.10	66.23	66.83	2100	650 L	REAR	346461.94	6382948.20	68.26	66.99	0.16
1817	68.65	66.78	67.38	2100	650 L	REAR	346463.65	6382918.81	68.86	67.60	0.22
1818	68.68	66.81	67.41	2100	650 L	REAR	346463.77	6382916.81	68.87	67.60	0.19
1819	66.60	64.73	65.33	2100	650 L	REAR	346482.22	6382901.08	66.78	65.51	0.18
1820	66.12	63.95	64.55	2400	800 L	FRONT	346498.19	6382902.01	66.26	64.69	0.14
1821	65.03	62.86	63.46	2400	800 L	FRONT	346513.92	6382901.39	65.18	63.61	0.15
1822	63.95	61.78	62.38	2400	800 L	FRONT	346529.87	6382900.16	64.10	62.54	0.16
1823	62.84	60.67	61.27	2400	800 L	FRONT	346545.83	6382898.92	62.98	61.42	0.15
1824	61.80	59.63	60.23	2400	800 L	FRONT	346560.91	6382897.76	61.93	60.37	0.14
1825	60.69	58.47	59.07	2400	800 L	FRONT BATTER	346575.99	6382896.59	60.85	59.28	0.21
1826	59.20	57.28	57.88	2100	650 L	FRONT BATTER	346591.75	6382895.37	59.30	58.04	0.16
1827	56.94	55.02	55.62	2100	650 L	FRONT BATTER	346630.00	6382915.78	57.10	55.84	0.22
1828	56.98	55.06	55.66	2100	650 L	FRONT BATTER	346629.43	6382912.31	57.10	55.83	0.17
1829	57.33	55.46	56.06	2100	650 L	FRONT	346616.49	6382859.96	57.46	56.19	0.13
1830	57.34	55.47	56.07	2100	650 L	FRONT	346616.31	6382857.96	57.48	56.21	0.14
1831	59.91	57.44	58.11	2700	-	FRONT	346583.20	6382875.37	60.09	58.32	0.21
1832	60.46	58.59	59.19	2100	650 L	REAR	346563.34	6382849.53	60.53	59.26	0.07
1833	61.82	59.95	60.55	2100	650 L	REAR	346545.39	6382850.91	61.91	60.64	0.09
1834	63.07	61.20	61.80	2100	650 L	REAR	346527.45	6382852.30	63.17	61.91	0.11
1835	64.28	62.41	63.01	2100	650 L	REAR	346509.50	6382853.69	64.35	63.09	0.08
1836	65.37	63.50	64.10	2100	650 L	REAR	346493.41	6382853.45	65.49	64.22	0.12
1837	67.93	66.06	66.66	2100	650 L	REAR	346473.15	6382861.79	68.10	66.84	0.17

⚠ DENOTES NOV MOND INVIZI-Q PRESSURE SEWER UNIT (PSU) WASTEWATER COLLECTION TANK TO BE INSTALLED REFER TO DRG-021 FOR TYPICAL DETAILS



PRESSURE SEWER SERVICE CONNECTION  
TYPICAL SECTIONAL ELEVATION  
SCALE 1:20

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 Co-Ord System: MGA Ground  
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**WORK AS CONSTRUCTED**

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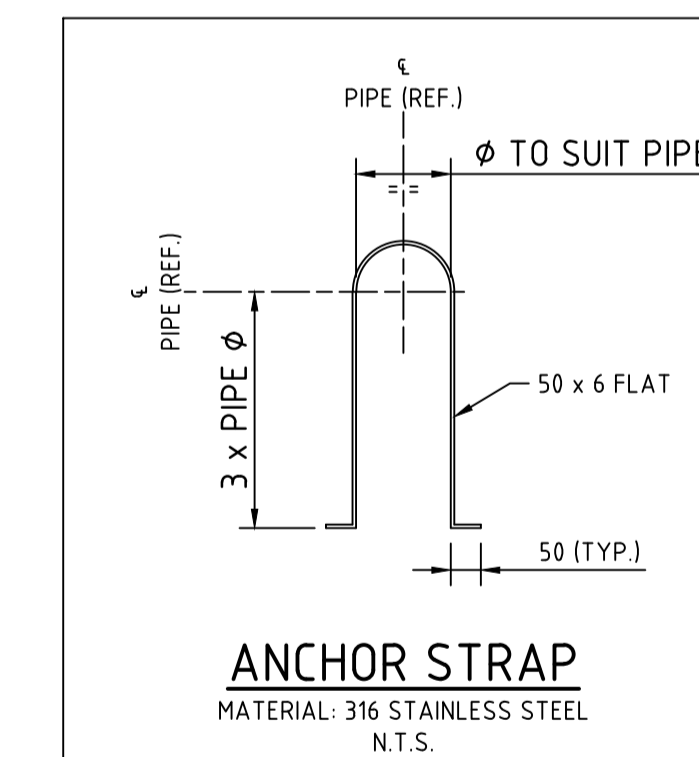
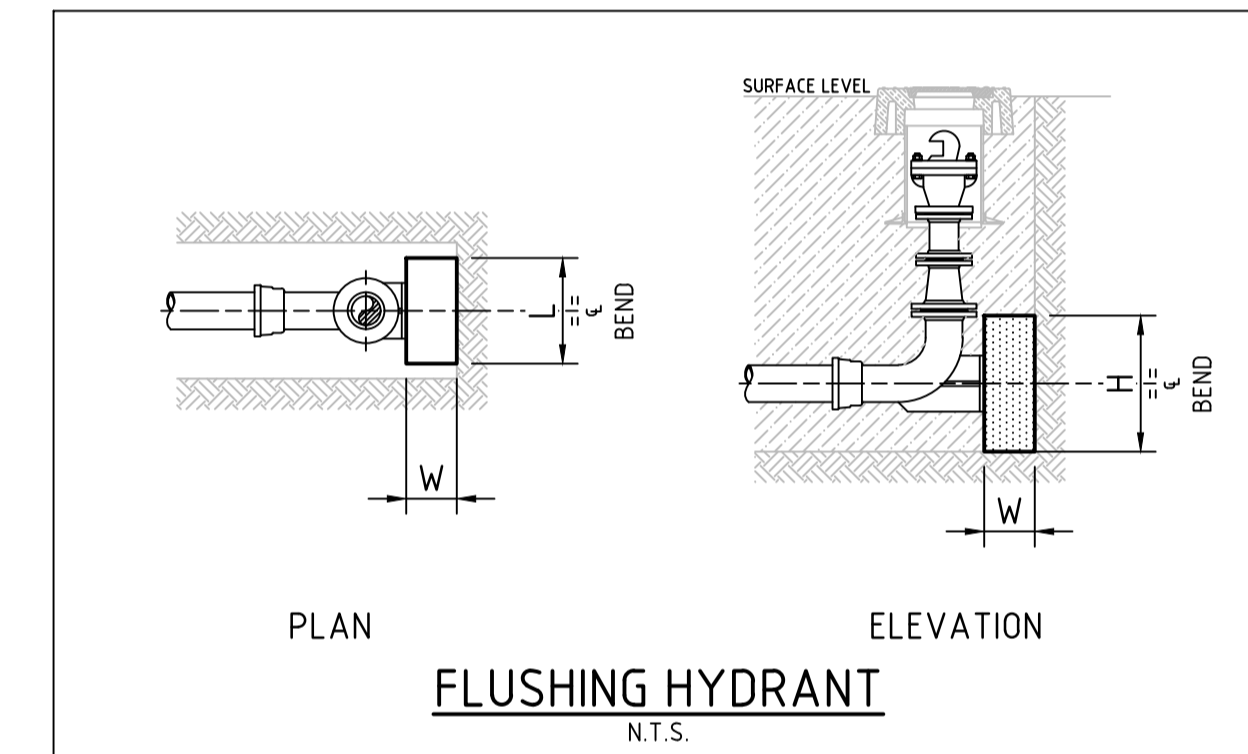
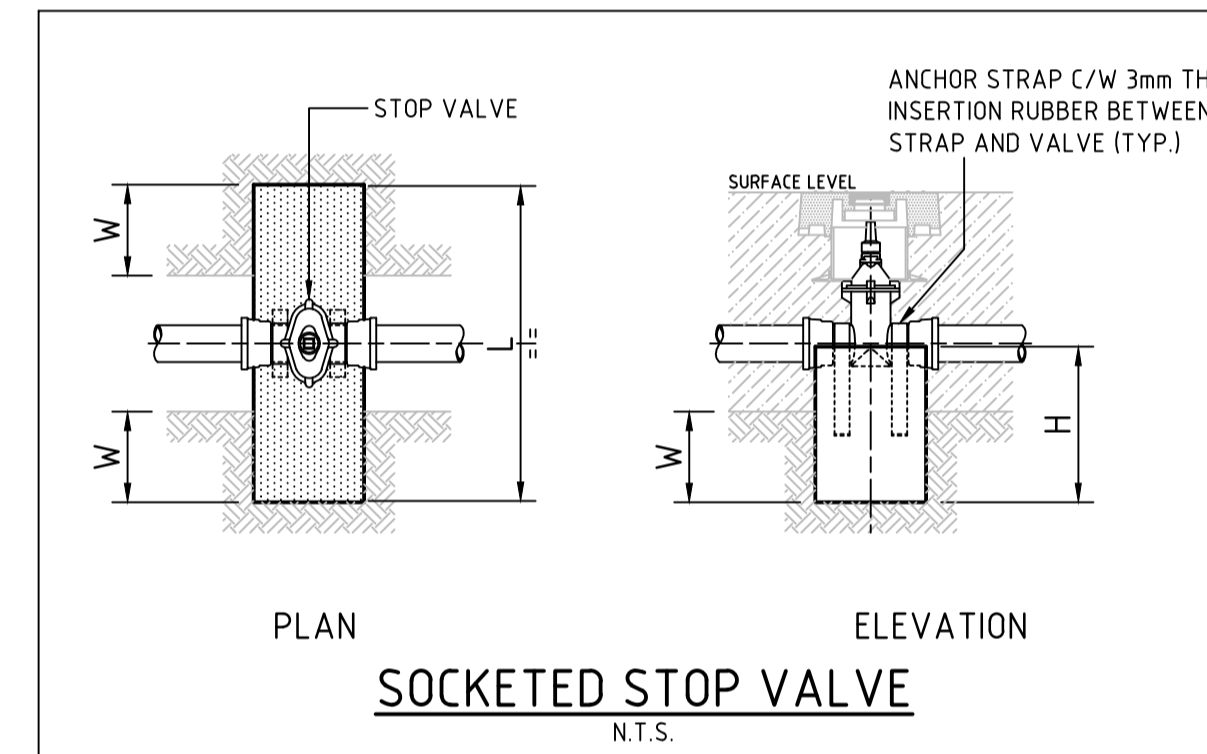
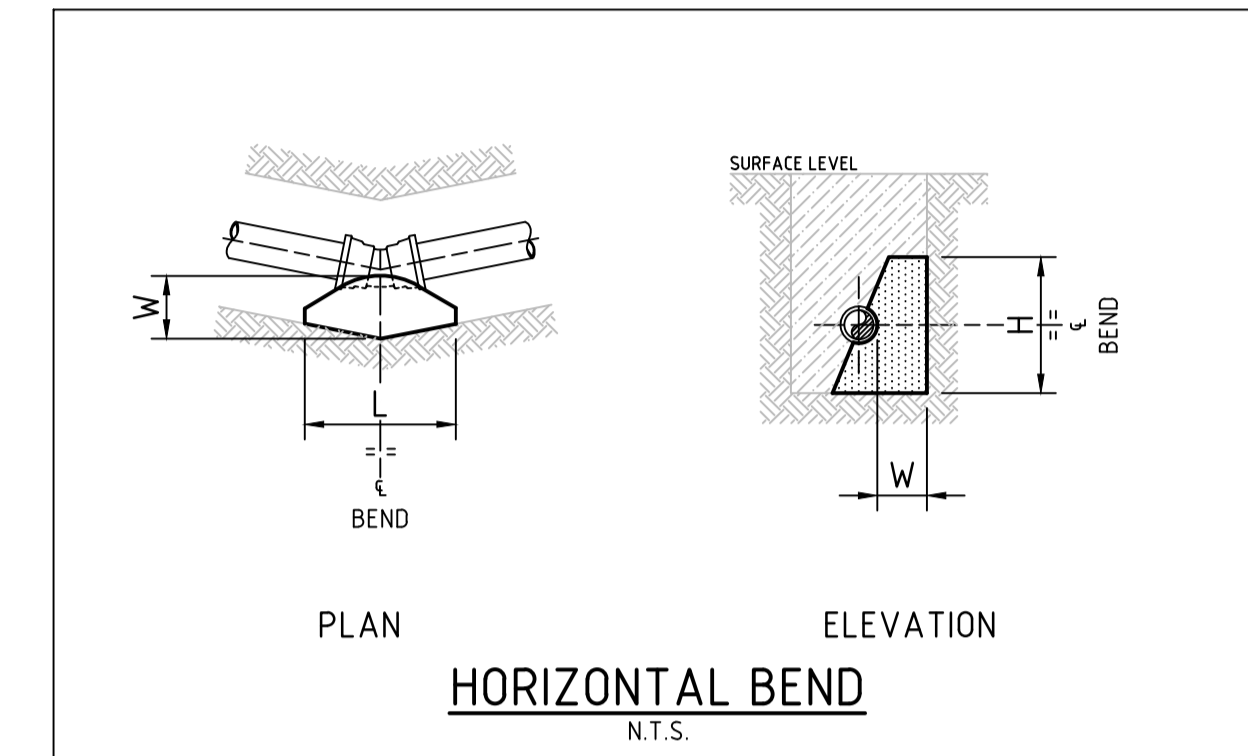
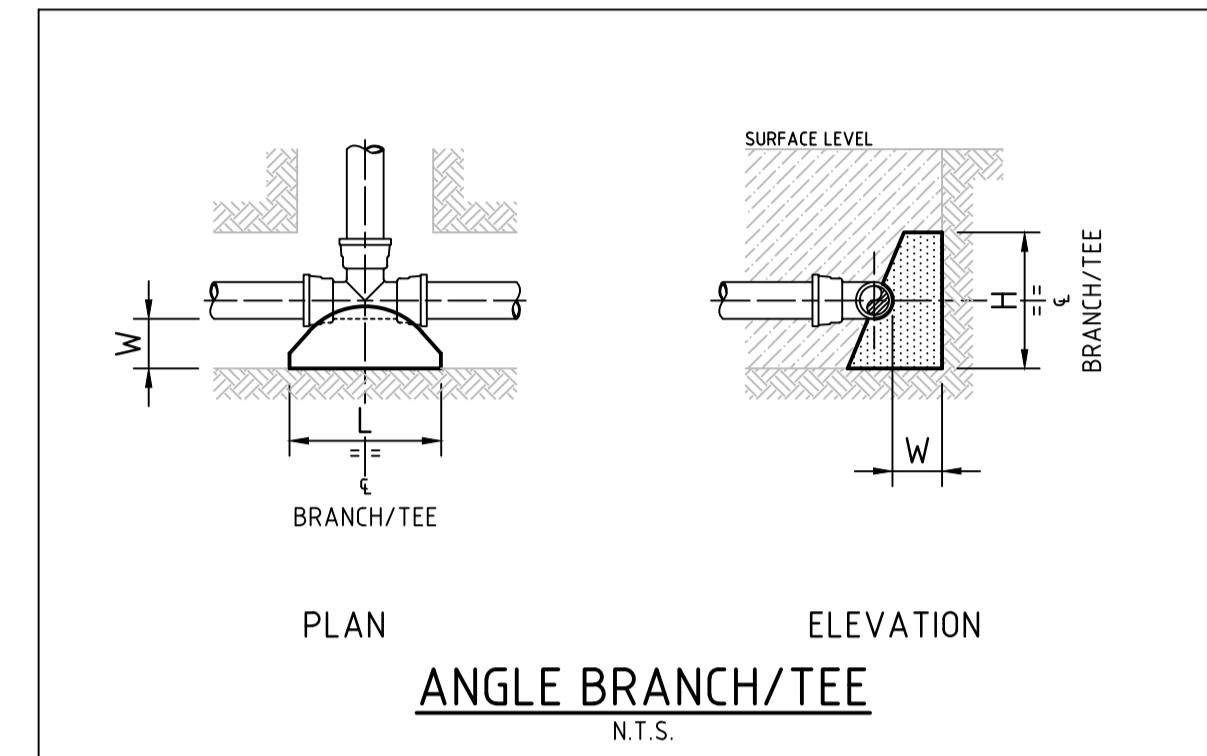


DIAL 1100  
BEFORE YOU DIG

**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 AHP (kPa)	DESIGN STP (kPa)	THRUST	TA (m <sup>2</sup> )	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN150 x DN100 REDUCING TEE	100	1000	12.00	0.12	0.40	0.30	0.30
2	DN150 SOCKETED STOP VALVE	100	1000	25.00	0.25	1.05	0.46	0.30
3	DN150 FLUSHING HYDRANT	100	1000	25.00	0.25	0.50	0.50	0.30
4	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
5	DN100 x 22.5° HORIZONTAL BEND	100	1000	5.00	0.05	N	N	0.30
6	DN100 x 11.25° HORIZONTAL BEND	100	1000	5.00	0.05	N	N	0.30
7	DN100 SOCKETED STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
8	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.30



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DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	<p><b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLÉE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>												
					<p>PLAN TITLE</p> <p>THRUST BLOCK DETAILS</p>												
					<table border="1"> <tr> <td>SURVEYED</td> <td>DATUM</td> <td>PROJECT No.</td> <td>DISCIPLINE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>ADW Johnson</td> <td>A.H.D.</td> <td>240072(18)</td> <td>- WAC -</td> <td>024</td> <td>3</td> </tr> </table>	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	ADW Johnson	A.H.D.	240072(18)	- WAC -	024	3
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Services Points Table with columns: Point #, Eastings, Northings, Levels, Codes. Contains 53 rows of data.

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WORK AS CONSTRUCTED
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 11/02/21 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.

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

WORK AS CONSTRUCTED

Project summary table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES, CLIENT (Hunter Office, Huntlee Water), PROPERTY DESCRIPTION (PROPOSED SUBDIVISION STAGE 18 FERRY PARADE, HUNTLLEE), PROJECT (POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION), PLAN TITLE (WAC SERVICE POINTS DETAILS), SURVEYED (ADW Johnson), DATUM (A.H.D.), PROJECT No. (240072(18)), DISCIPLINE (WAC), NUMBER (025), REV. (3)