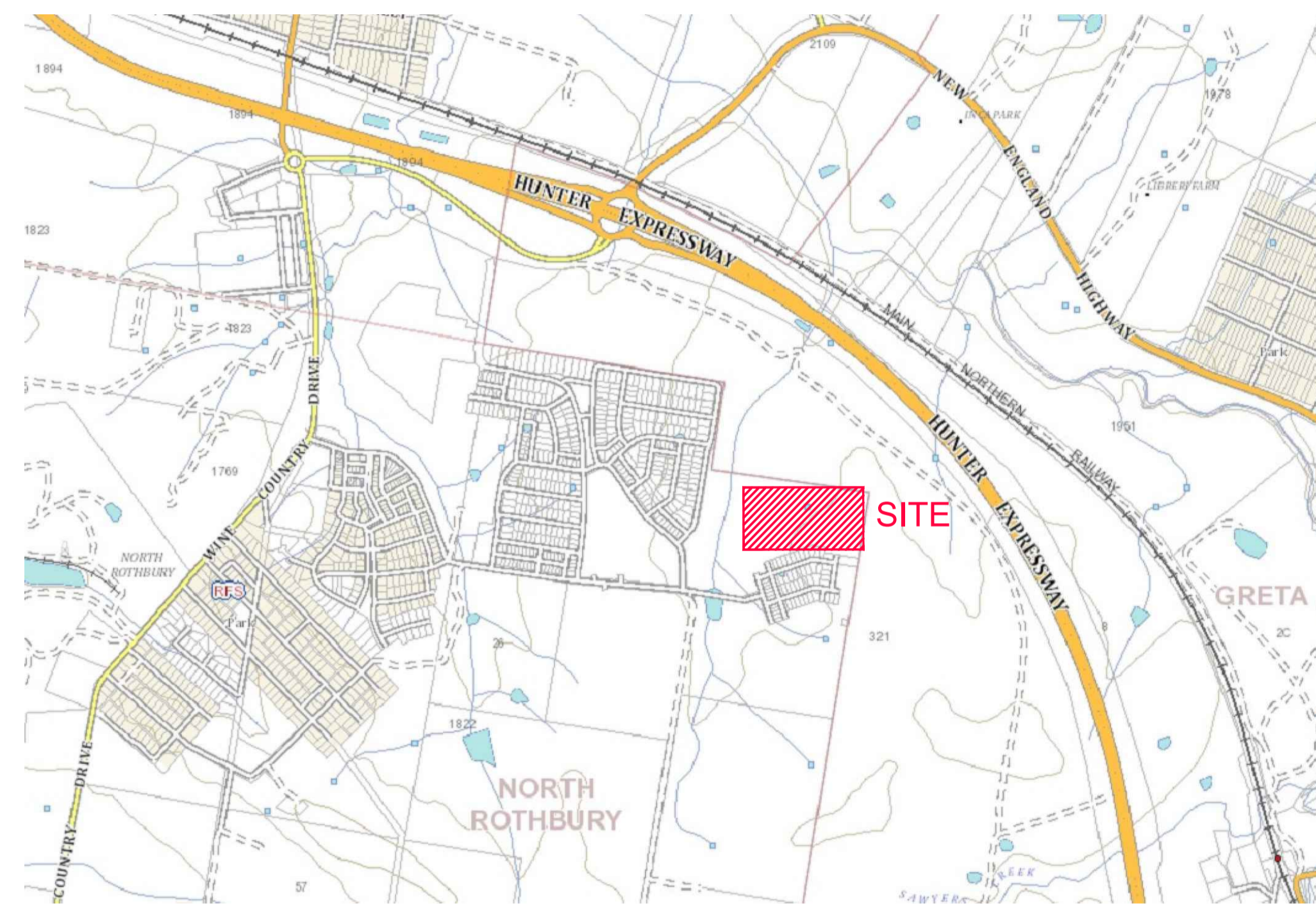




PROPOSED SUBDIVISION STAGE 19a RIGBY DRIVE, HUNTLEE



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
240037(19a)-WAT-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
240037(19a)-WAT-002	GENERAL NOTES
240037(19a)-WAT-003	OVERALL SITE PLAN
240037(19a)-WAT-004	POTABLE WATER DETAIL PLAN - SHEET 1
240037(19a)-WAT-005	POTABLE WATER DETAIL PLAN - SHEET 2
240037(19a)-WAT-006	POTABLE WATER DETAIL PLAN - SHEET 3
240037(19a)-WAT-007	NOT USED
240037(19a)-WAT-008	RECYCLED WATER DETAIL PLAN - SHEET 1
240037(19a)-WAT-009	RECYCLED WATER DETAIL PLAN - SHEET 2
240037(19a)-WAT-010	RECYCLED WATER DETAIL PLAN - SHEET 3
240037(19a)-WAT-011	NOT USED
240037(19a)-WAT-012	PRESSURE SEWER DETAIL PLAN - SHEET 1
240037(19a)-WAT-013	PRESSURE SEWER DETAIL PLAN - SHEET 2
240037(19a)-WAT-014	PRESSURE SEWER DETAIL PLAN - SHEET 3
240037(19a)-WAT-015	PRESSURE SEWER FLOW REDIRECTION DETAIL
240037(19a)-WAT-016	TYPICAL PIPEWORK TRENCHING DETAILS
240037(19a)-WAT-017	NOT USED
240037(19a)-WAT-018	TYPICAL SERVICE CONNECTION DETAILS
240037(19a)-WAT-019	WASTEWATER COLLECTION TANK LEVEL DETAILS
240037(19a)-WAT-020	THRUST BLOCK DETAILS

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 26/11/2020 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.
 COMPANY: ADW Johnson Pty Ltd
 NAME: MATHEW DAVID LONDON
 SIGNED: [Signature] DATE: 02/12/2020
 REGISTERED SURVEYOR

ORIGIN OF W.A.C. LEVELS
 PM: 20029
 E: 345 613.420
 N: 6 382 880.288
 RL: 77.675m
 Co-Ord System: MGA Ground
 MGA Datum: GDA2020
 MGA Zone: 56

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	
B	11.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
C	18.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
0	24.06.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
1	16.07.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	28.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION STAGE 19a MORAN PARKWAY, HUNTLEE	
SURVEYED	DATUM
ADW Johnson	A.H.D.

PROJECT			
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE			
COVER SHEET, LOCALITY PLAN AND DRAWING INDEX			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	001	3

240037(19a)-WAC-001 to 003(2)

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, FLOW SYSTEMS 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 FLOW SYSTEMS REQUIREMENTS.
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 FLOW SYSTEMS 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. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED.
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. 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.
12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
13. FLUSHING PITS SHALL CONFORM WITH FLOW SYSTEMS STANDARD DRAWINGS. REFER TO FLOW SYSTEMS WEBSITE FOR CURRENT VERSION.
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 FLOW SYSTEMS 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 FLOW SYSTEMS REQUIREMENTS.
32. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE FLOW SYSTEMS Q.A. SUBMISSION CHECKLIST.

POTABLE WATER AND RECYCLED WATER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, FLOW SYSTEMS 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 FLOW SYSTEMS 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. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED.
7. ALL POTABLE WATERMANS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATERMANS SHALL BE LILAC 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. 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 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. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m FROM EACH BOUNDARY OR ON BOUNDARIES.
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 FLOW SYSTEMS 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 FLOW SYSTEMS REQUIREMENTS.
28. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE FLOW SYSTEMS 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%.
FLOW SYSTEMS STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:
http://askus.flowssystem.com.au/hc/en-us/articles/21065383--Standard-Drawings

GENERAL NOTES:

- 1. THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, FLOW SYSTEMS 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. 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.

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, 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, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL.
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.
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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Table with columns: COMPANY, NAME, SIGNED, DATE, SIGNED, DATE. Includes ADW Johnson Pty Ltd and Matthew David London.

ORIGIN OF W.A.C. LEVELS

Table with columns: PM, E, N, RL, Co-Ord System, MGA Datum, MGA Zone. Includes values for 20029, 345 613.420, 6 382 880.288, 77.675m, GDA2020, MGA Zone: 56.

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

Date Approved: 03/07/2020

CONSTRUCTION ISSUE

100mm AT FULL SIZE

Table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES. Includes revision history for preliminary issue, amended issues, and construction issue.

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

Huntlee Water logo and client information.

Table with columns: SURVEYED, DATUM. Values: ADW Johnson, A.H.D.

Table with columns: PROJECT, PLAN TITLE, PROJECT No., DISCIPLINE, NUMBER, REV. Values: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION, GENERAL NOTES, 240037(19a), WAT, 002, 3.



WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *Matthew* DATE 02/12/2020 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345 613.420 MGA Datum: GDA2020
 N: 6 382 880.288 MGA Zone: 56
 RL: 77.675m

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

CONSTRUCTION ISSUE

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	 A1 / A3 1:1000 / 1:2000
B	11.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
C	18.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
0	24.06.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
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3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

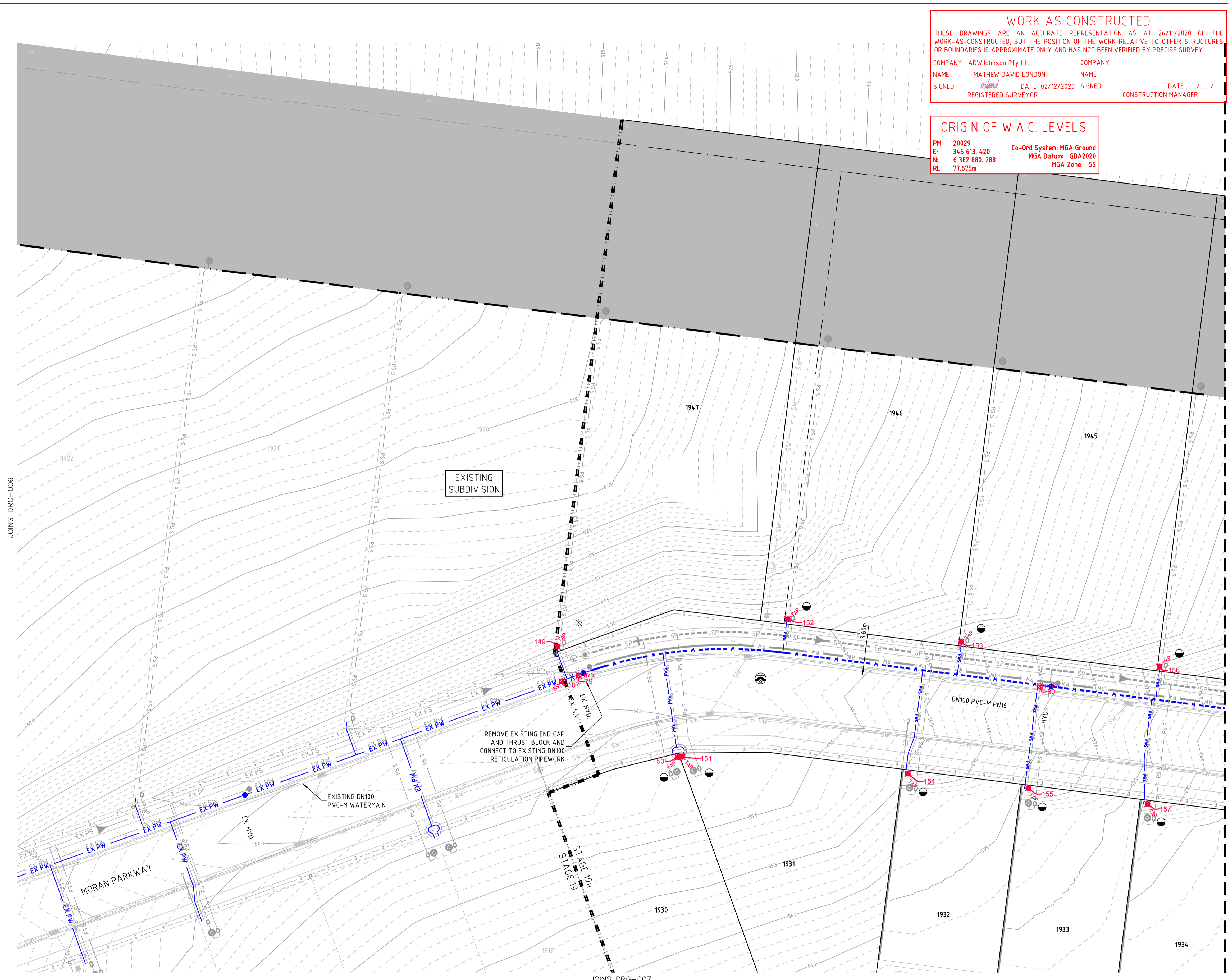
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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 HUNTLEE
 SURVEYED ADW Johnson DATUM A.H.D.

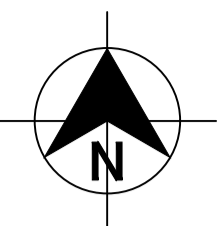
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	OVERALL SITE PLAN		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	003	3

240072(19a)-WAC-004 to 007(3)



WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED [Signature] DATE 02/12/2020 SIGNED [Signature] DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345 613.420 MGA Datum: GDA2020
 N: 6 382 880.288 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - E UNDERGROUND POWER
 - SW STORMWATER PIPEWORK
 - SV STOP VALVE
 - HYD. HYDRANT
 - 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 6° 6° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - EXISTING PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - ASSET PROTECTION ZONE (NON-SERVICABLE)
 - ASSET PROTECTION ZONE BOUNDARY
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 7x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 1 x LONG SIDE
 - EXISTING SERVICE - 1

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	204

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 010.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-018.

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

CONSTRUCTION ISSUE

PLAN
 SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	
B	11.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
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0	24.06.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
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3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

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

CLIENT
Huntlee + Water

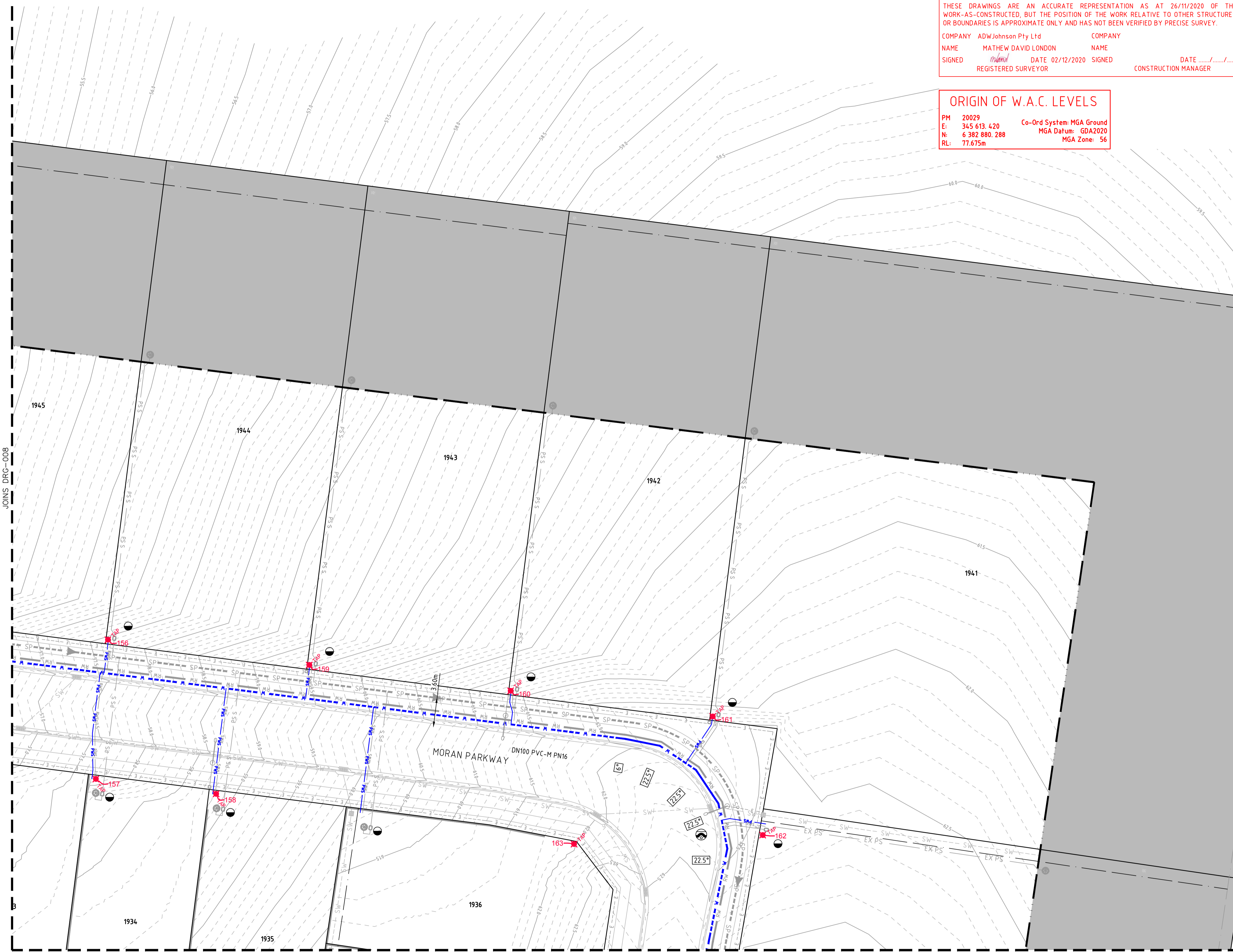
PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 HUNTLEE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
 PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 1

240072(19a)-WAC-004 to 007(3)

JOINS DRG-008

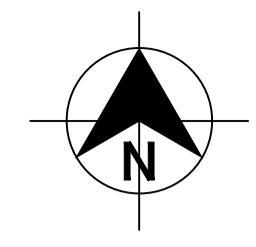
100mm AT FULL SIZE



JOINS DRG-009
PLAN
 SCALE 1:250

WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *Matthew* DATE 02/12/2020 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345 613.420 MGA Datum: GDA2020
 N: 6 382 880.288 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- W --- W PVC-M POTABLE WATER RETICULATION
 - PWS --- PWS POTABLE WATER PROPERTY SERVICE
 - RW --- RW PVC-M RECYCLED WATER RETICULATION
 - RWS --- RWS RECYCLED WATER PROPERTY SERVICE
 - SP --- SP PE PRESSURE SEWER RETICULATION
 - PS S --- PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX PW --- EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW --- EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PS --- EX PS EXISTING PRESSURE SEWER RETICULATION
 - E --- E UNDERGROUND POWER
 - SW --- SW STORMWATER PIPEWORK
 - SV * STOP VALVE
 - HYD. • HYDRANT
 - 22.5° 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 6° 6° 6° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - ⊗ EXISTING PROPERTY SERVICE CONNECTION
 - ⊙ LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - ASSET PROTECTION ZONE (NON-SERVICABLE)
 - ASSET PROTECTION ZONE BOUNDARY
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 7x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 1 x LONG SIDE
 - EXISTING SERVICE - 1

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	204

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 010.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-018.

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	 A1 / A3 1:250 / 1:500
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2	28.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

adw Johnson
 Hunter Office
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 Warners Bay N.S.W. 2282
 Phone: (02) 4978 5100
 Fax: (02) 4978 5199
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 ABN 62 129 445 398

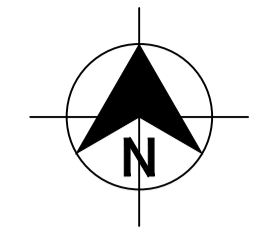
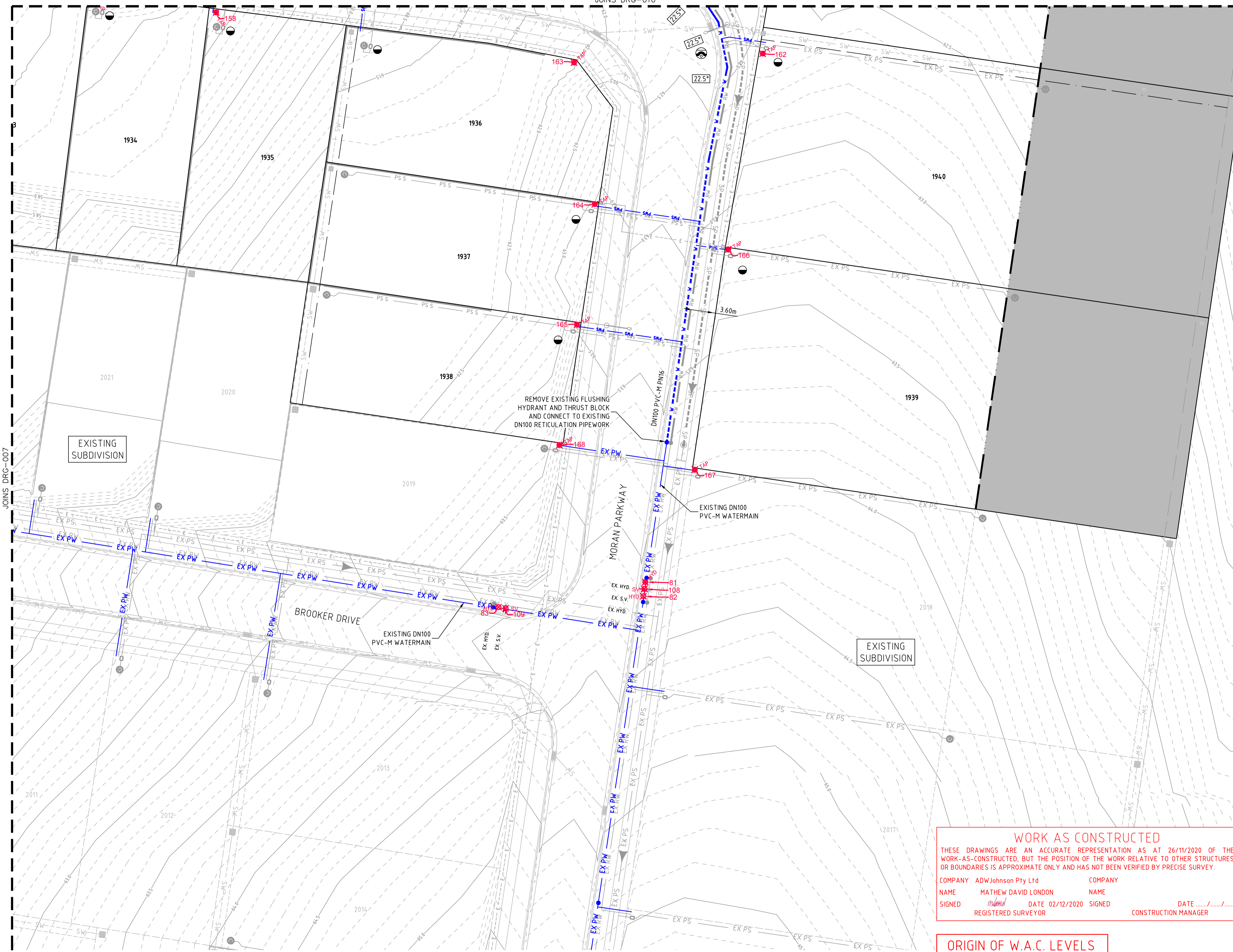
CLIENT
Huntlee Water

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 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.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	005	3

240072(19a)-WAC-004 to 007(3)



- 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
 - E --- E UNDERGROUND POWER
 - SW --- SW STORMWATER PIPEWORK
 - SV. * STOP VALVE
 - HYD. ● HYDRANT
 - 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 6° 6° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - ⊗ EXISTING PROPERTY SERVICE CONNECTION
 - ⊙ LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - ASSET PROTECTION ZONE (NON-SERVICABLE)
 - ASSET PROTECTION ZONE BOUNDARY
 - - - PROPOSED EASEMENT
 - ▬▬▬ SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 7x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 1 x LONG SIDE
 - EXISTING SERVICE - 1

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	204

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 010.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-018.

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>MatheW</i>	SIGNED	
REGISTERED SURVEYOR		DATE	02/12/2020
		DATE	03/07/2020
		CONSTRUCTION MANAGER	

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

ORIGIN OF W.A.C. LEVELS

PM: 20029
 E: 345 613.420
 N: 6 382 880.288
 RL: 77.675m

Co-Ord System: MGA Ground
 MGA Datum: GDA2020
 MGA Zone: 56

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	
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3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

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

CLIENT

Huntlee + Water

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 HUNTLEE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 3

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
ADW Johnson	A.H.D.	240037(19a)	- WAT -	006	3

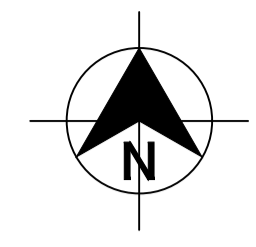
240072(19a)-WAC-008 to 011(3)

100mm AT FULL SIZE

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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *MatheW* DATE 02/12/2020 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345 613.420 MGA Datum: GDA2020
 N: 6 382 880.288 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- RW RW PVC-M RECYCLED WATER RETICULATION
 - RWS RWS RECYCLED WATER PROPERTY SERVICE
 - W W PVC-M POTABLE WATER RETICULATION
 - PWS PWS POTABLE WATER PROPERTY SERVICE
 - SP SP PE PRESSURE SEWER RETICULATION
 - PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - E E UNDERGROUND POWER
 - SW SW STORMWATER PIPEWORK
 - SV STOP VALVE
 - HYD. HYDRANT
 - FL HYD. FLUSHING HYDRANT
 - 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 6° 6° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - EXISTING PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - ASSET PROTECTION ZONE (NON-SERVICABLE)
 - ASSET PROTECTION ZONE BOUNDARY
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

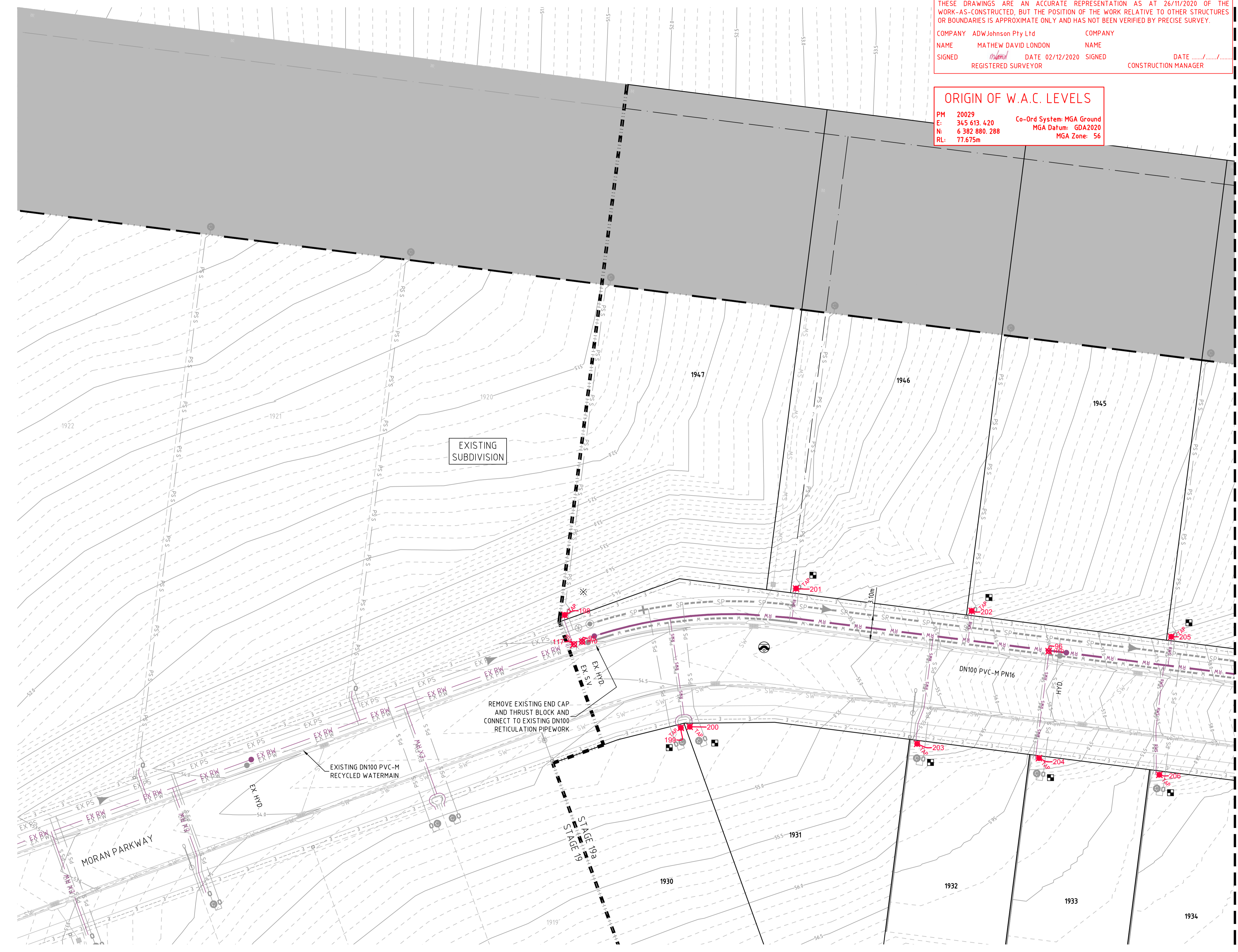
- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 7 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 1 x LONG SIDE
 - EXISTING SERVICES - 1

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	204

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-018.

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

CONSTRUCTION ISSUE



PLAN
 SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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adw Johnson

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 ABN 62 129 445 398

CLIENT

Huntlee + Water

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 HUNTLEE

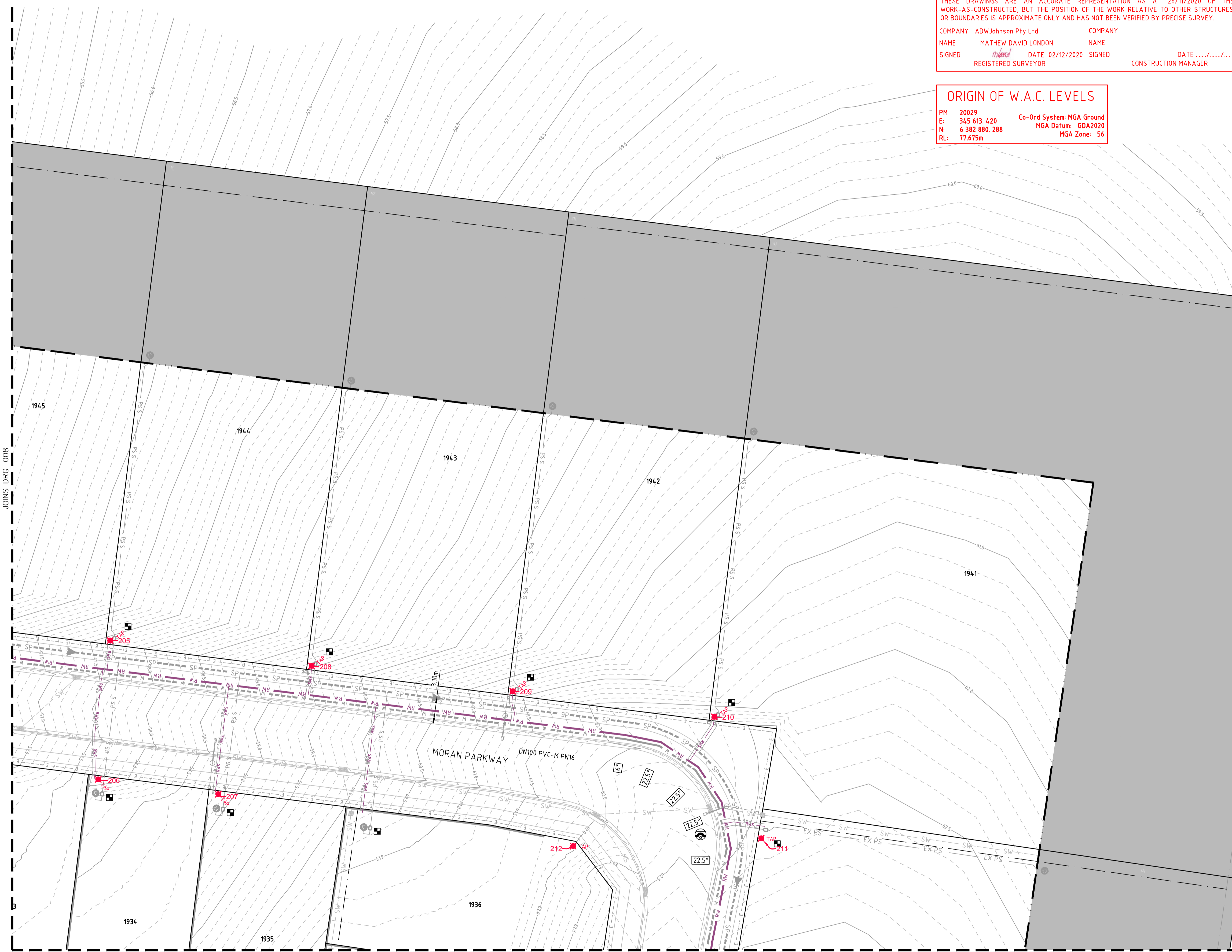
SURVEYED ADW Johnson DATUM A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	008	3

240072(19a)-WAC-008 to 011(3)

JOINS DRG-008

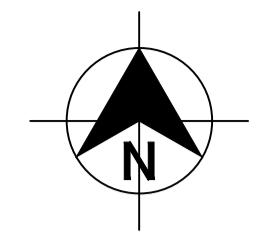
100mm AT FULL SIZE



JOINS DRG-010
PLAN
 SCALE 1:250

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 NAME MATHEW DAVID LONDON NAME
 SIGNED *MatheW* DATE 02/12/2020 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345 613.420 MGA Datum: GDA2020
 N: 6 382 880.288 MGA Zone: 56
 RL: 77.675m



- 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
 - UNDERGROUND POWER
 - STORMWATER PIPEWORK
 - STOP VALVE
 - HYDRANT
 - FLUSHING HYDRANT
 - 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 6° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - EXISTING PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - ASSET PROTECTION ZONE (NON-SERVICABLE)
 - ASSET PROTECTION ZONE BOUNDARY
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

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

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	204

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-018.

APPROVED FOR CONSTRUCTION
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3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

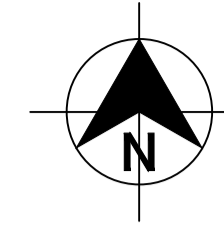
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 Phone: (02) 4978 5100
 Fax: (02) 4978 5199
 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 HUNTLLEE

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(19a)	- WAT -	009	3



DIAL 1100
BEFORE YOU DIG

LEGEND

	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	W	PVC-M POTABLE WATER RETICULATION
	PWS	POTABLE WATER PROPERTY SERVICE
	SP	PE PRESSURE SEWER RETICULATION
	PS S	PE PRESSURE SEWER PROPERTY SERVICE
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	E	UNDERGROUND POWER
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	22.5°	22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
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		LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
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- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
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RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	204

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>(Signature)</i>	SIGNED	
REGISTERED SURVEYOR		DATE	02/12/2020
		DATE	
		CONSTRUCTION MANAGER	

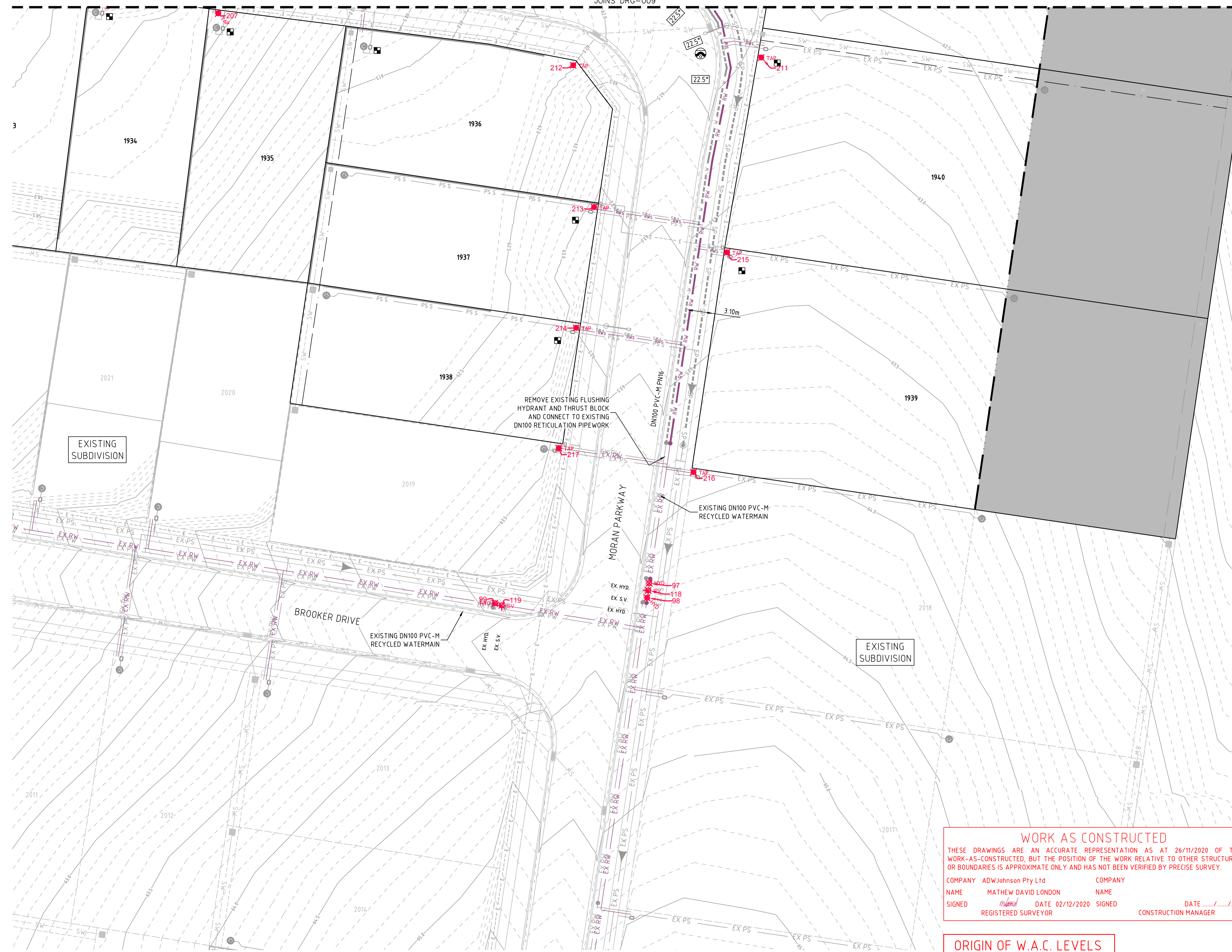
ORIGIN OF W.A.C. LEVELS

PM: 20029
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 N: 6 382 880.288
 RL: 77.675m

Co-Ord System: MGA Ground
 MGA Datum: GDA2020
 MGA Zone: 56

APPROVED FOR CONSTRUCTION
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 Date Approved: 03/07/2020

CONSTRUCTION ISSUE



PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 HUNTLEE

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

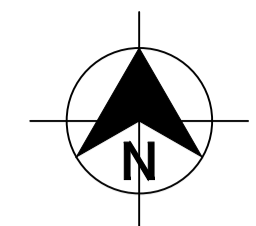
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 3		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	010	3

240072(19a)-WAC-012 to 015(3)

100mm AT FULL SIZE

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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *mat* DATE 02/12/2020 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
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 N: 6 382 880.288 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - E UNDERGROUND POWER
 - 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
 - EXISTING PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - ASSET PROTECTION ZONE (NON-SERVICABLE)
 - ASSET PROTECTION ZONE BOUNDARY
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

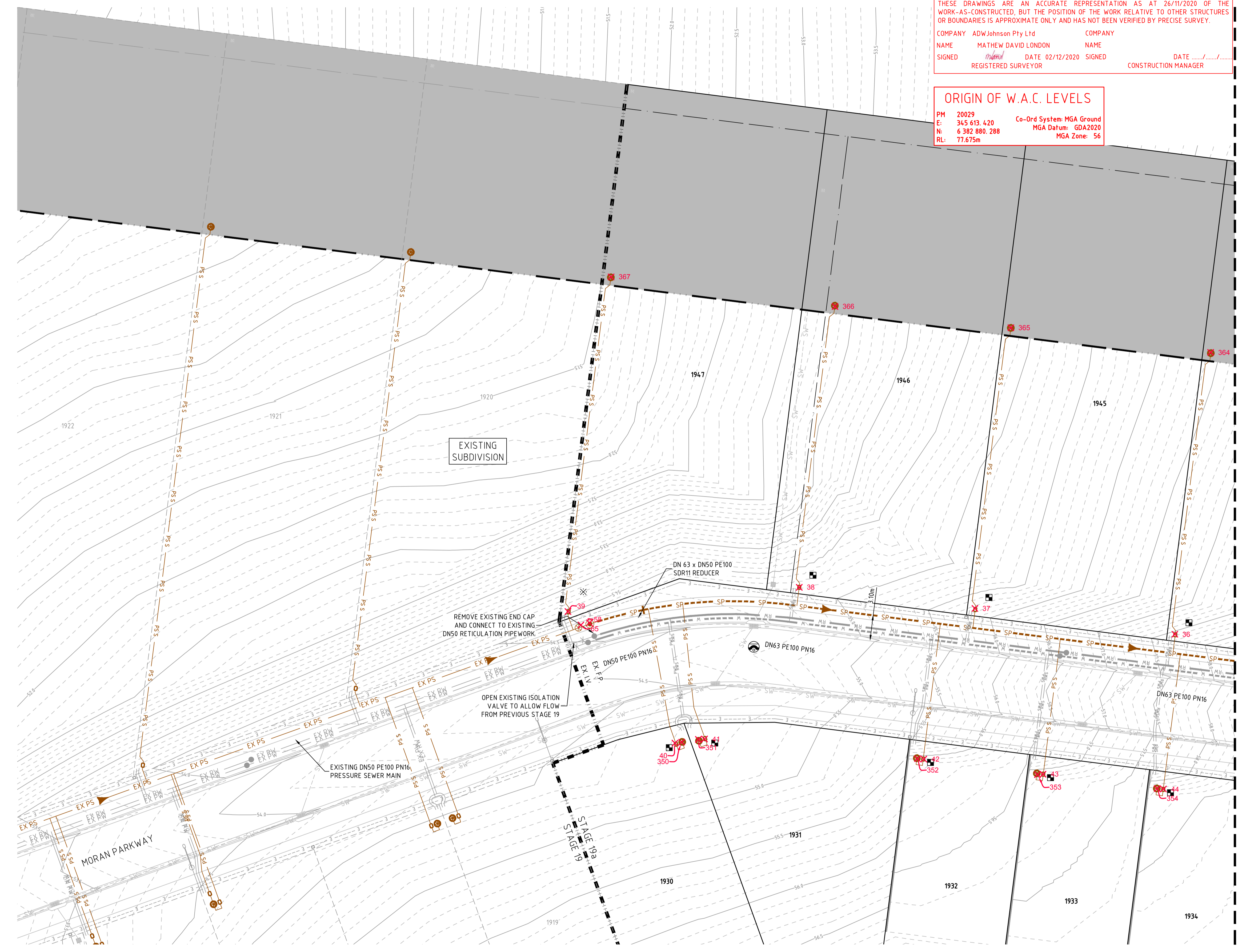
- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
 TOTAL 17 CONNECTIONS
 • SINGLE SERVICES
 - 8 x SHORT SIDE
 - 9 x LONG SIDE
 • EXISTING SERVICES - 1

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	201
DN50	PE100 SDR11	7

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 AND 010.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-018.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

CONSTRUCTION ISSUE



PLAN
 SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	A1 / A3 1:250 / 1:500
B	11.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
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1	16.07.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	28.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

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 19a
 MORAN PARKWAY,
 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.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	012	3

240072(19a)-WAC-012 to 015(3)

JOINS DRG-012

100mm AT FULL SIZE

JOINS DRG-014

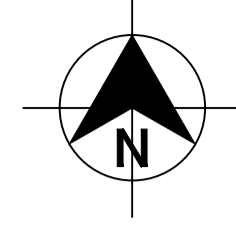
PLAN
SCALE 1:250

WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *MatheW* DATE 02/12/2020 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345 613.420 MGA Datum: GDA2020
 N: 6 382 880.288 MGA Zone: 56
 RL: 77.675m



DIAL 1100
BEFORE YOU DIG

- LEGEND**
- SP SP PE PRESSURE SEWER RETICULATION
 - PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W W PVC-M POTABLE WATER RETICULATION
 - PWS PWS POTABLE WATER PROPERTY SERVICE
 - RW RW PVC-M RECYCLED WATER RETICULATION
 - RWS RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - E E UNDERGROUND POWER
 - SW SW STORMWATER PIPEWORK
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 - PROPERTY SERVICE CONNECTION
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 - ASSET PROTECTION ZONE (NON-SERVICABLE)
 - ASSET PROTECTION ZONE BOUNDARY
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
 TOTAL 17 CONNECTIONS
 • SINGLE SERVICES
 - 8 x SHORT SIDE
 - 9 x LONG SIDE
 • EXISTING SERVICES - 1

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	201
DN50	PE100 SDR11	7

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
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 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
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 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 HUNTLEE

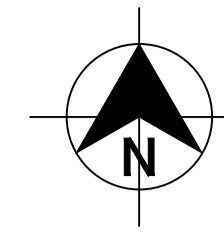
PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
 PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 2

DESIGN FILE N:\	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
N:\	ADW Johnson	A.H.D.	240037(19a)	- WAT -	013	3

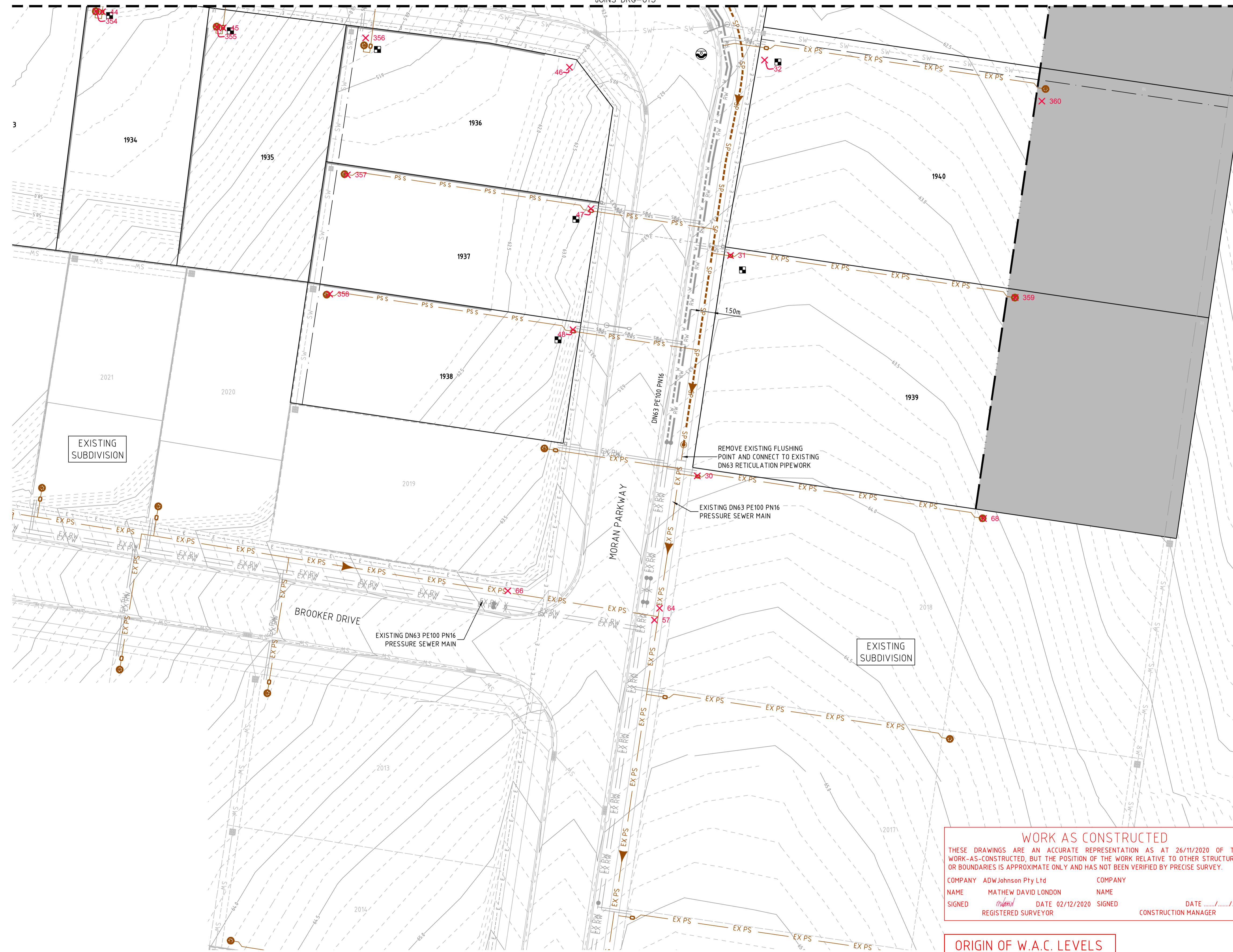
240072(19a)-WAC-012 to 015(3)

100mm AT FULL SIZE

JOINS DRG-013



DIAL 1100
BEFORE YOU DIG



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
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 - RWS RECYCLED WATER PROPERTY SERVICE
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- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
TOTAL 17 CONNECTIONS
 • SINGLE SERVICES
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 - 9 x LONG SIDE
 • EXISTING SERVICES - 1

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	201
DN50	PE100 SDR11	7

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
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COMPANY ADW Johnson Pty Ltd
 NAME MATHEW DAVID LONDON
 SIGNED [Signature] DATE 02/12/2020 REGISTERED SURVEYOR

COMPANY
 NAME
 SIGNED [Signature] DATE CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029
 E: 345 613.420 Co-Ord System: MGA Ground
 N: 6 382 880.288 MGA Datum: GDA2020
 RL: 77.675m MGA Zone: 56

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

CONSTRUCTION ISSUE

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

adw Johnson

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 ABN 62 129 445 398

CLIENT

Huntlee + Water

PROPERTY DESCRIPTION

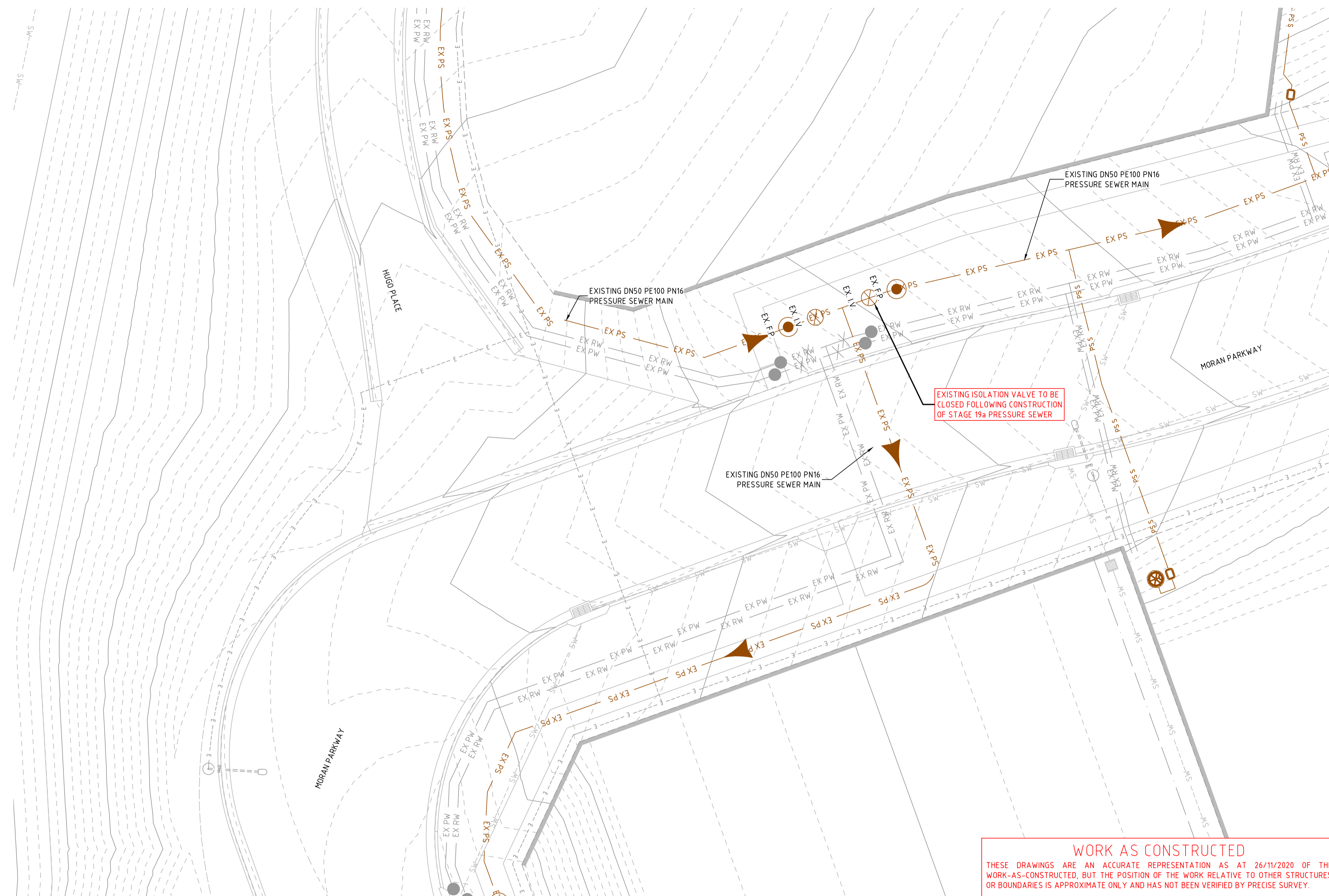
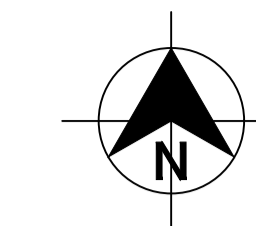
PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 HUNTLEE

SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 3

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	014	3



- LEGEND**
- SP S — SP S PE PRESSURE SEWER RETICULATION
 - PS S — PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W — W PVC-M POTABLE WATER RETICULATION
 - PWS — PWS POTABLE WATER PROPERTY SERVICE
 - RW — RW PVC-M RECYCLED WATER RETICULATION
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 - E — E UNDERGROUND POWER
 - SW — SW STORMWATER PIPEWORK
 - IV — IV ISOLATION VALVE
 - FP — FP FLUSHING POINT
 - WWT — WWT WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PSD — PSD PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - PC — PC PROPERTY SERVICE CONNECTION
 - EX PC — EX PC EXISTING PROPERTY SERVICE CONNECTION
 - LPS — LPS LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - UPS — UPS LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - ASZ — ASZ ASSET PROTECTION ZONE (NON-SERVICABLE)
 - ASZB — ASZB ASSET PROTECTION ZONE BOUNDARY
 - PE — PE PROPOSED EASEMENT
 - SSB — SSB SUBDIVISION STAGE BOUNDARY

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
- TOTAL 17 CONNECTIONS
 - SINGLE SERVICES
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PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	201
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- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 AND 010.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-018.
 4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
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 NAME MATHEW DAVID LONDON NAME
 SIGNED *mdl* DATE 02/12/2020 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

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CLIENT

PROPERTY DESCRIPTION

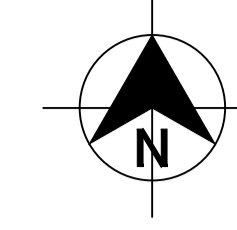
PROPOSED SUBDIVISION
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 HUNTLEE

SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE PRESSURE SEWER FLOW REDIRECTION DETAIL

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	015	3



Point Table				
Point #	Eastings	Northings	Levels	Codes
30	347125.18	6383332.41	64.00	BDY KIT
31	347129.28	6383359.55	63.19	BDY KIT
32	347133.48	6383383.61	62.59	BDY KIT
33	347127.84	6383399.27	62.33	BDY KIT
34	347102.96	6383402.48	61.22	BDY KIT
35	347078.12	6383405.52	59.49	BDY KIT
36	347053.34	6383408.74	57.61	BDY KIT
37	347028.55	6383411.94	55.82	BDY KIT
38	347006.76	6383414.56	54.86	BDY KIT
39	346978.08	6383411.56	54.52	BDY KIT
40	346991.35	6383395.24	54.71	BDY KIT
41	346995.02	6383395.74	54.70	BDY KIT
42	347022.22	6383393.26	55.97	BDY KIT
43	347037.00	6383391.38	57.07	BDY KIT
44	347051.93	6383389.55	58.05	BDY KIT
45	347066.80	6383387.57	58.87	BDY KIT
46	347109.45	6383382.72	62.10	BDY KIT
47	347112.09	6383365.29	63.08	BDY KIT
48	347109.87	6383350.41	63.37	BDY KIT
57	347119.91	6383314.66	64.35	FP
58	346980.75	6383410.16	54.61	FP
64	347120.55	6383316.12	64.38	SV
65	346979.69	6383409.89	54.59	SV
66	347101.85	6383318.25	64.16	SV
68	347160.43	6383327.16	63.97	TANK

Point Table				
Point #	Eastings	Northings	Levels	Codes
79	346979.99	6383407.40	54.50	HYD
80	347037.66	6383406.08	56.48	HYD
81	347118.78	6383319.35	64.15	HYD
82	347118.54	6383317.60	64.20	HYD
83	347100.71	6383316.25	64.08	HYD
95	346979.84	6383407.83	54.51	HYDR
96	347037.69	6383406.64	56.50	HYDR
97	347119.33	6383319.23	64.20	HYDR
98	347119.07	6383317.45	64.26	HYDR
99	347100.32	6383316.77	64.09	HYDR
107	346977.87	6383406.67	54.48	SV
108	347118.67	6383318.51	64.16	SV
109	347101.57	6383316.11	64.10	SV
117	346978.81	6383407.50	54.49	SVR
118	347119.20	6383318.36	64.20	SVR
119	347101.15	6383316.50	64.10	SVR
149	346977.34	6383411.02	54.49	TAP
150	346992.37	6383397.20	54.65	TAP
151	346992.93	6383397.24	54.67	TAP
152	347006.11	6383414.45	54.73	TAP
153	347027.82	6383411.62	55.74	TAP
154	347021.13	6383395.15	55.52	TAP
155	347036.21	6383393.34	56.48	TAP
156	347052.60	6383408.49	57.60	TAP
157	347051.12	6383391.34	57.58	TAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
158	347065.93	6383389.50	58.72	TAP
159	347077.39	6383405.38	59.45	TAP
160	347102.19	6383402.20	61.25	TAP
161	347127.09	6383399.04	62.33	TAP
162	347133.24	6383384.43	62.58	TAP
163	347110.01	6383383.33	61.85	TAP
164	347112.57	6383365.89	62.91	TAP
165	347110.37	6383351.02	63.21	TAP
166	347128.99	6383360.33	63.18	TAP
167	347124.88	6383332.20	63.89	TAP
168	347108.19	6383336.22	63.70	TAP
198	346977.67	6383411.13	54.51	TAPR
199	346992.07	6383397.14	54.65	TAPR
200	346993.18	6383397.27	54.64	TAPR
201	347006.36	6383414.40	54.74	TAPR
202	347028.14	6383411.63	55.81	TAPR
203	347021.37	6383395.15	55.53	TAPR
204	347036.48	6383393.38	56.64	TAPR
205	347052.89	6383408.43	57.59	TAPR
206	347051.42	6383391.31	57.65	TAPR
207	347066.21	6383389.48	58.74	TAPR
208	347077.71	6383405.29	59.47	TAPR
209	347102.51	6383402.17	61.24	TAPR
210	347127.35	6383399.02	62.31	TAPR
211	347133.13	6383384.05	62.56	TAPR

Point Table				
Point #	Eastings	Northings	Levels	Codes
212	347109.95	6383383.09	61.84	TAPR
213	347112.53	6383365.60	62.94	TAPR
214	347110.32	6383350.73	63.13	TAPR
215	347128.92	6383360.03	63.17	TAPR
216	347124.79	6383332.93	63.88	TAPR
217	347108.17	6383335.91	63.70	TAPR
350	346992.18	6383395.36	54.85	TANK 1930
351	346994.25	6383395.70	54.85	TANK 1931
352	347021.42	6383393.31	56.12	TANK 1932
353	347036.30	6383391.33	57.22	TANK 1933
354	347051.15	6383389.61	58.13	TANK 1934
355	347066.04	6383387.66	59.02	TANK 1935
356	347084.34	6383386.34	61.45	TANK 1936
357	347082.10	6383369.47	62.46	TANK 1937
358	347079.91	6383354.80	62.44	TANK 1938
359	347164.34	6383354.37	63.10	TANK 1939
360	347167.62	6383378.55	62.38	TANK 1940
361	347132.04	6383434.10	60.96	TANK 1941
362	347107.42	6383437.37	59.85	TANK 1942
363	347082.49	6383440.61	58.23	TANK 1943
364	347057.78	6383443.69	56.56	TANK 1944
365	347033.01	6383446.75	54.96	TANK 1945
366	347011.20	6383449.38	53.45	TANK 1946
367	346983.43	6383453.05	51.70	TANK 1947

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 26/11/2020 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *mathe* DATE 02/12/2020 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345 613.420 MGA Datum: GDA2020
 N: 6 382 880.288 MGA Zone: 56
 RL: 77.675m

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

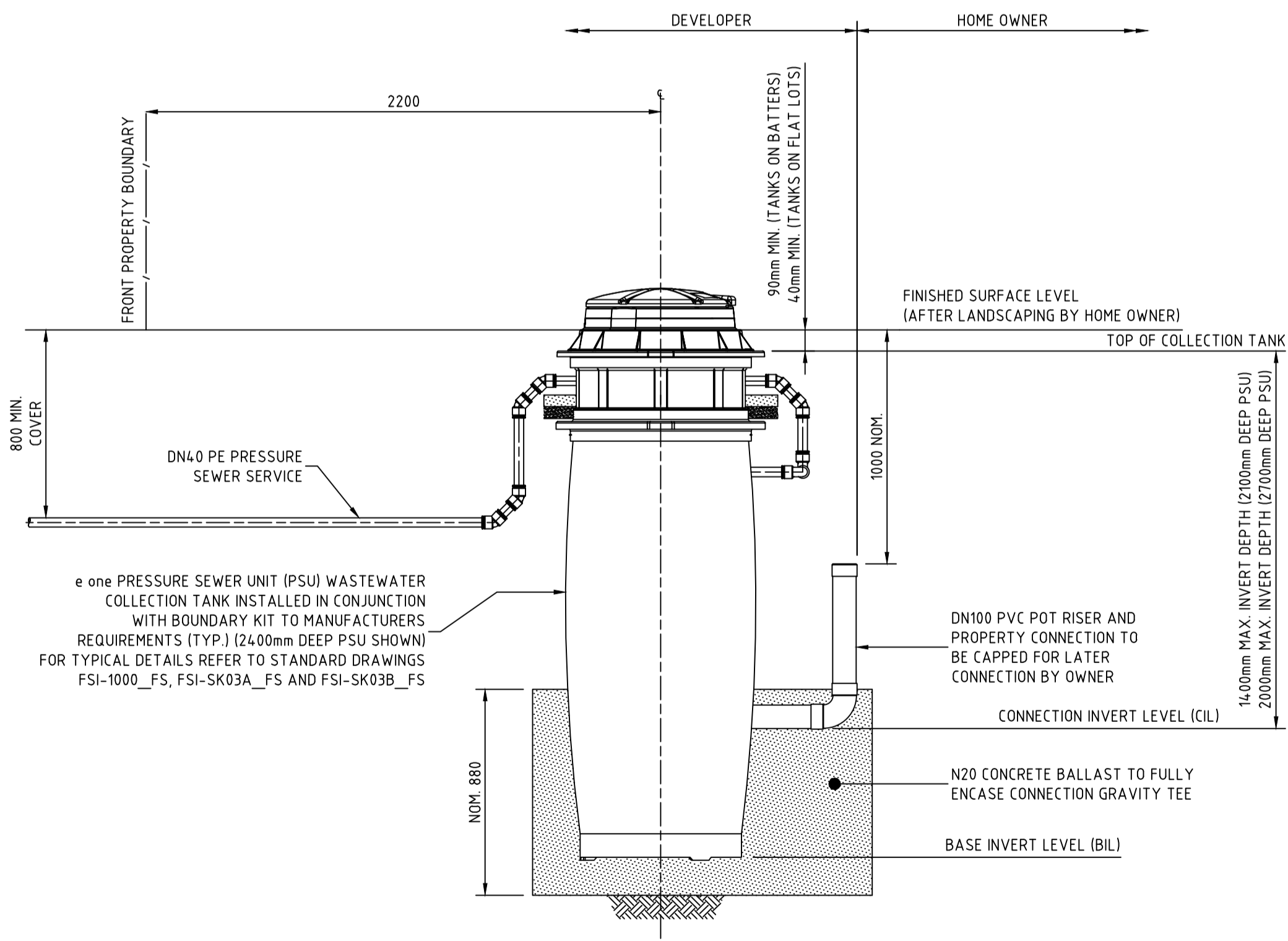
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES												
A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	0 25 5 A1 / A3												
B	11.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	1:125 / 1:250												
C	18.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.													
0	24.06.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
1	16.07.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
2	28.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML													
DESIGN FILE N:\		ALL DIMENSIONS ARE IN METRES. DO NOT SCALE																	
Plotted By: shones Plot Date: 02/12/20 - 14:16 Cod File: N:\240072\DWG\Water & Sewer\Stage19a-WAC\240072(19a)-WAC-012 to 015(3).dwg				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 PROPOSED SUBDIVISION STAGE 19a MORAN PARKWAY, HUNTLEE				PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE PRESSURE SEWER FLOW REDIRECTION DETAIL PROJECT No. 240037(19a) DISCIPLINE - WAT - NUMBER 015 REV. 3			



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
1930	54.72	52.85	53.45	2100	650 L	FRONT	346991.73	6383393.96	54.85	53.59	0.13
1931	54.74	52.87	53.47	2100	650 L	FRONT	346993.81	6383394.10	54.85	53.59	0.12
1932	56.00	54.08	54.68	2100	650 L	FRONT BATTER	347020.83	6383391.94	56.12	54.86	0.17
1933	57.03	55.11	55.71	2100	650 L	FRONT BATTER	347035.71	6383390.06	57.22	55.96	0.24
1934	58.30	56.38	56.98	2100	650 L	FRONT BATTER	347050.59	6383388.19	58.13	56.87	-0.11
1935	58.88	57.01	57.61	2100	650 L	FRONT	347065.47	6383386.30	59.02	57.76	0.15
1936	61.33	59.46	60.06	2100	650 L	FRONT	347083.64	6383384.00	61.45	60.19	0.13
1937	62.33	60.46	61.06	2100	650 L	REAR	347081.23	6383368.13	62.46	61.20	0.13
1938	62.33	60.46	61.06	2100	650 L	REAR	347079.03	6383353.30	62.44	61.18	0.11
1939	62.89	61.02	61.62	2100	650 L	REAR	347163.79	6383352.93	63.10	61.84	0.22
1940	62.22	60.35	60.95	2100	650 L	REAR	347167.55	6383378.62	62.38	61.12	0.16
1941	60.82	58.95	59.55	2100	650 L	REAR	347131.70	6383432.76	60.96	59.70	0.15
1942	59.69	57.82	58.42	2100	650 L	REAR	347106.89	6383435.90	59.85	58.59	0.16
1943	58.07	56.20	56.80	2100	650 L	REAR	347082.09	6383439.03	58.23	56.97	0.16
1944	56.41	54.54	55.14	2100	650 L	REAR	347057.29	6383442.17	56.56	55.30	0.16
1945	54.78	52.91	53.51	2100	650 L	REAR	347032.49	6383445.30	54.96	53.70	0.19
1946	53.31	51.44	52.04	2100	650 L	REAR	347010.66	6383448.06	53.45	52.19	0.15

NOTE:
FINISHED SURFACE LEVELS EXTRACTED FROM DIGITAL DATA SUPPLIED BY NORTHROP CONSULTING ENGINEERS (09.06.2020).



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20
(SHOWN AS FRONT OF LOT SERVICE CONNECTION WITH 2400mm DEEP PSU)

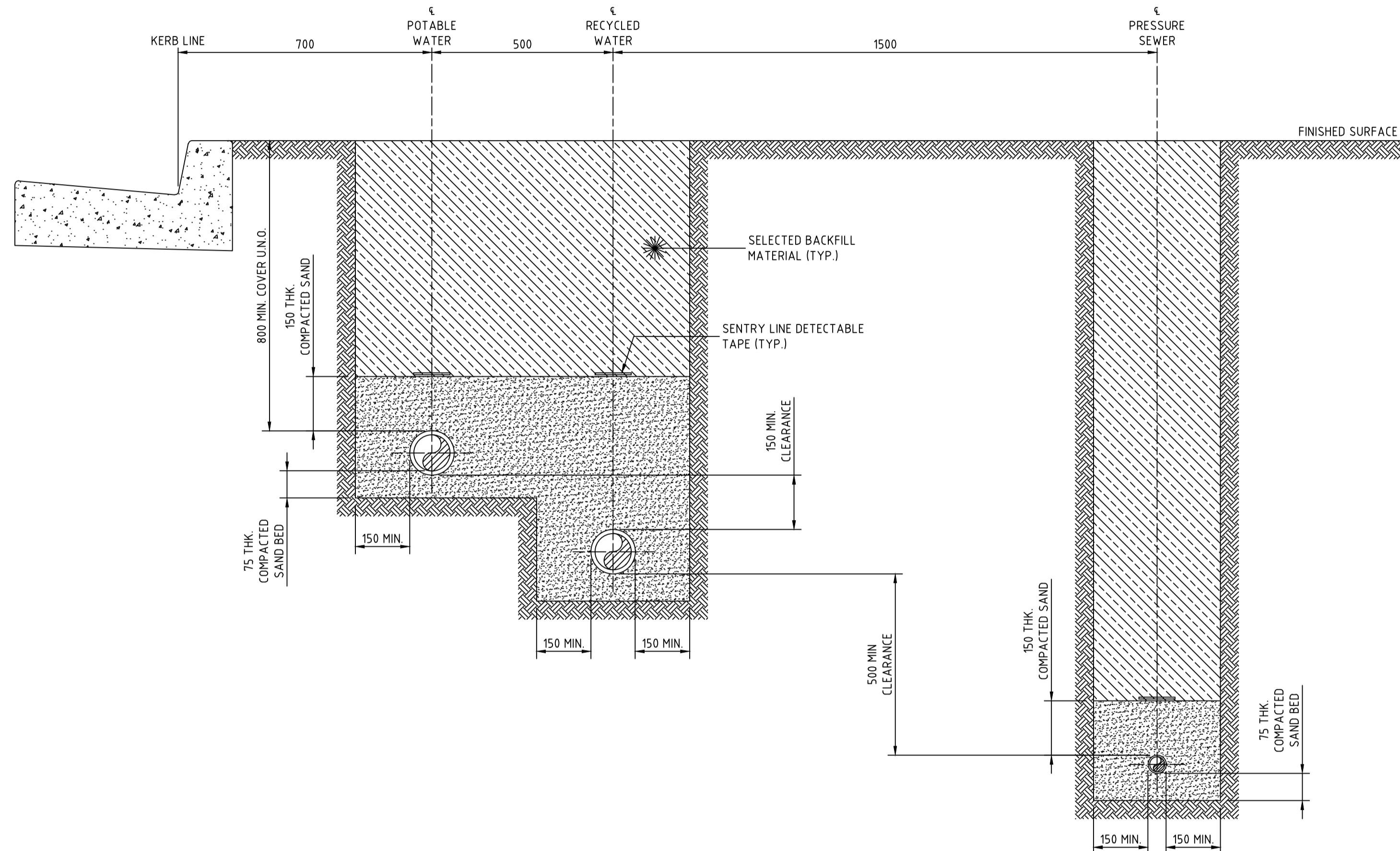
WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED *mathew* DATE 02/12/2020 SIGNED _____ DATE ____/____/_____
REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
PM 20029
E: 345 613 420 Co-Ord System: MGA Ground
N: 6 382 880 288 MGA Datum: GDA2020
RL: 77.675m MGA Zone: 56

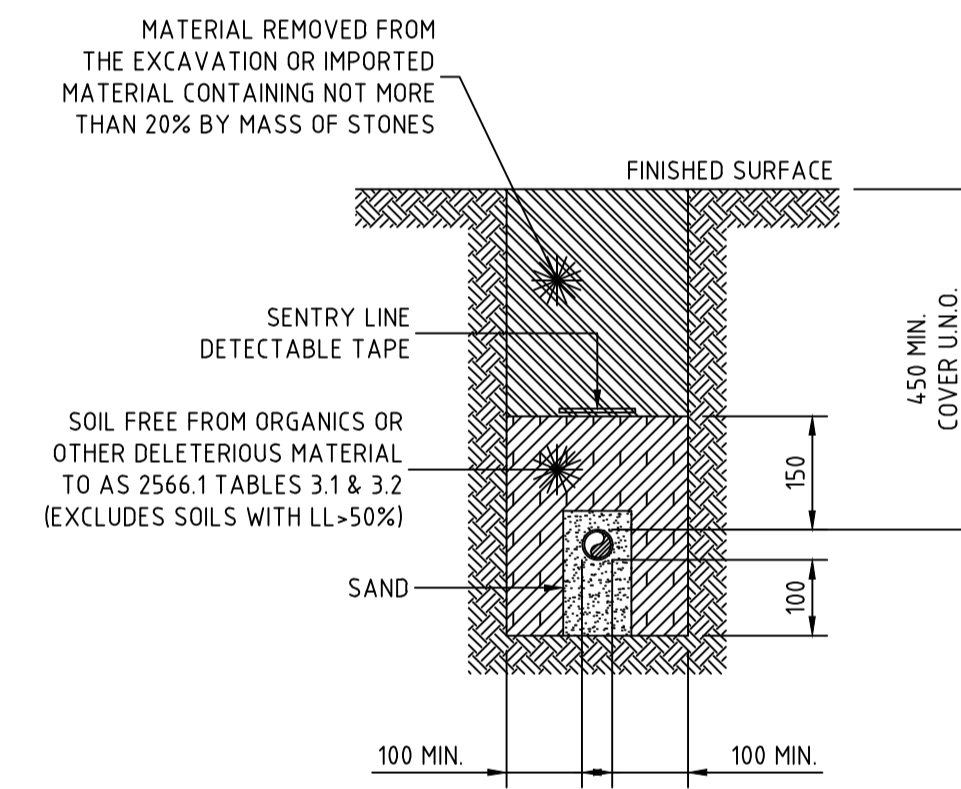
APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 03/07/2020

CONSTRUCTION ISSUE

<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>20.05.2020</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>11.06.2020</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>18.06.2020</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>0</td> <td>24.06.2020</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>16.07.2020</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>J.N.</td> <td>C.B.</td> <td>J.N.</td> <td>C.B.</td> </tr> <tr> <td>2</td> <td>28.08.2020</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>J.N.</td> <td>C.B.</td> <td>J.N.</td> <td>C.B.</td> </tr> <tr> <td>3</td> <td>01.12.2020</td> <td>WORK AS CONSTRUCTED</td> <td>RJC</td> <td>ML</td> <td>-</td> <td>ML</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	B	11.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	C	18.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	0	24.06.2020	CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	1	16.07.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	2	28.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	<p>0 0.4 0.8 A1 / A3 1:20 / 1:40</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 Huntlee + Water</p>	<p>PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 19a MORAN PARKWAY, HUNTLEE</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE WASTEWATER COLLECTION TANK LEVEL DETAILS</p>	<p>PROJECT No. 240037(19a) DISCIPLINE - WAT - NUMBER 019 REV. 3</p>
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY																																																								
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STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd
 NAME MATHEW DAVID LONDON
 SIGNED [Signature] DATE 02/12/2020
 REGISTERED SURVEYOR

ORIGIN OF W.A.C. LEVELS
 PM 20029
 E: 345 613.420
 N: 6 382 880.288
 RL: 77.675m
 Co-Ord System: MGA Ground
 MGA Datum: GDA2020
 MGA Zone: 56

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 03/07/2020

CONSTRUCTION ISSUE

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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	A1 / A3 1:10 / 1:20
B	11.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
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3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

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

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 19a
 MORAN PARKWAY,
 HUNTLEE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	TYPICAL PIPEWORK TRENCHING DETAILS		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	016	3



APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 03/07/2020

CONSTRUCTION ISSUE

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Hunter Office
Unit 7/335 Hillsborough Rd
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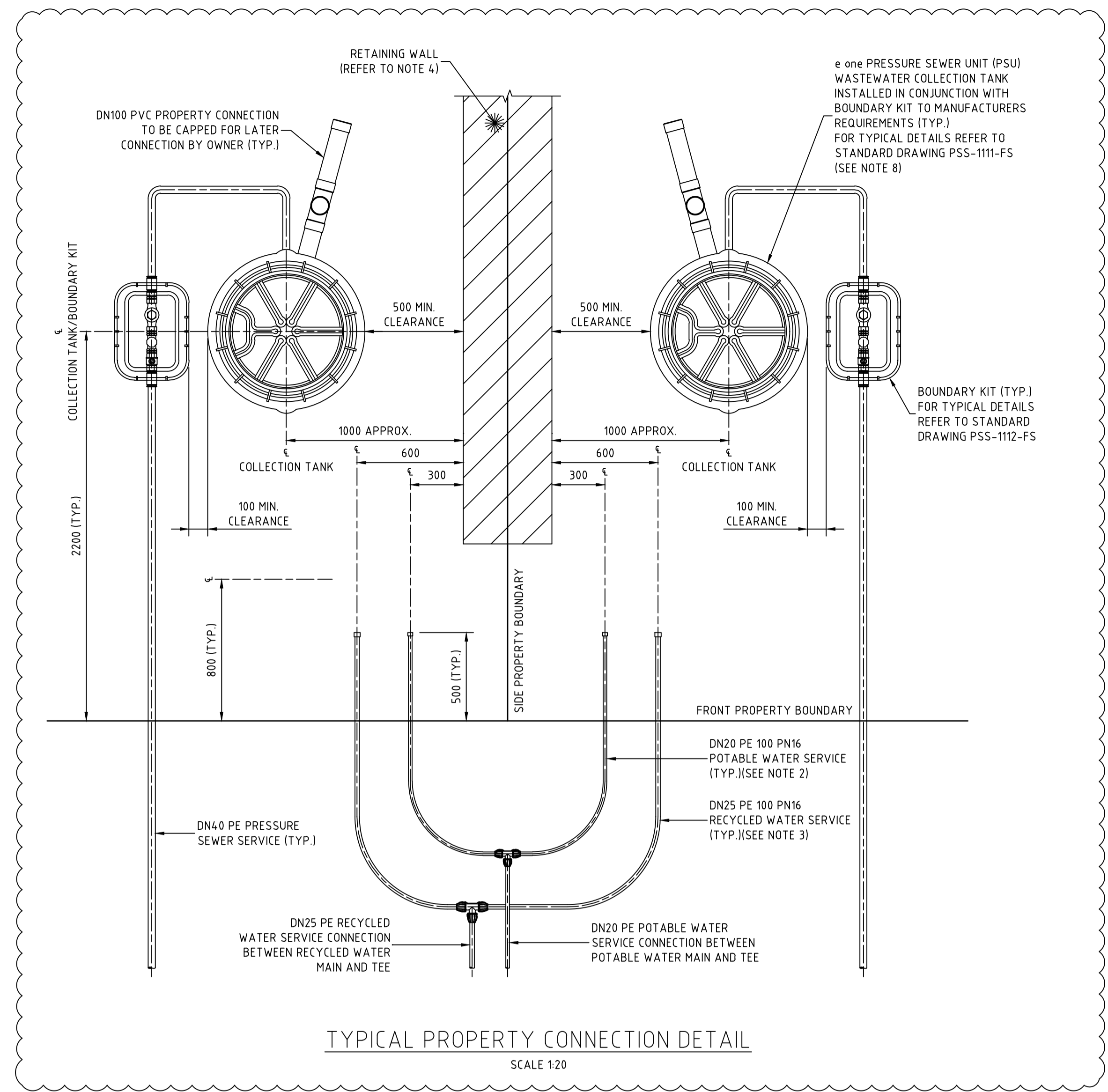
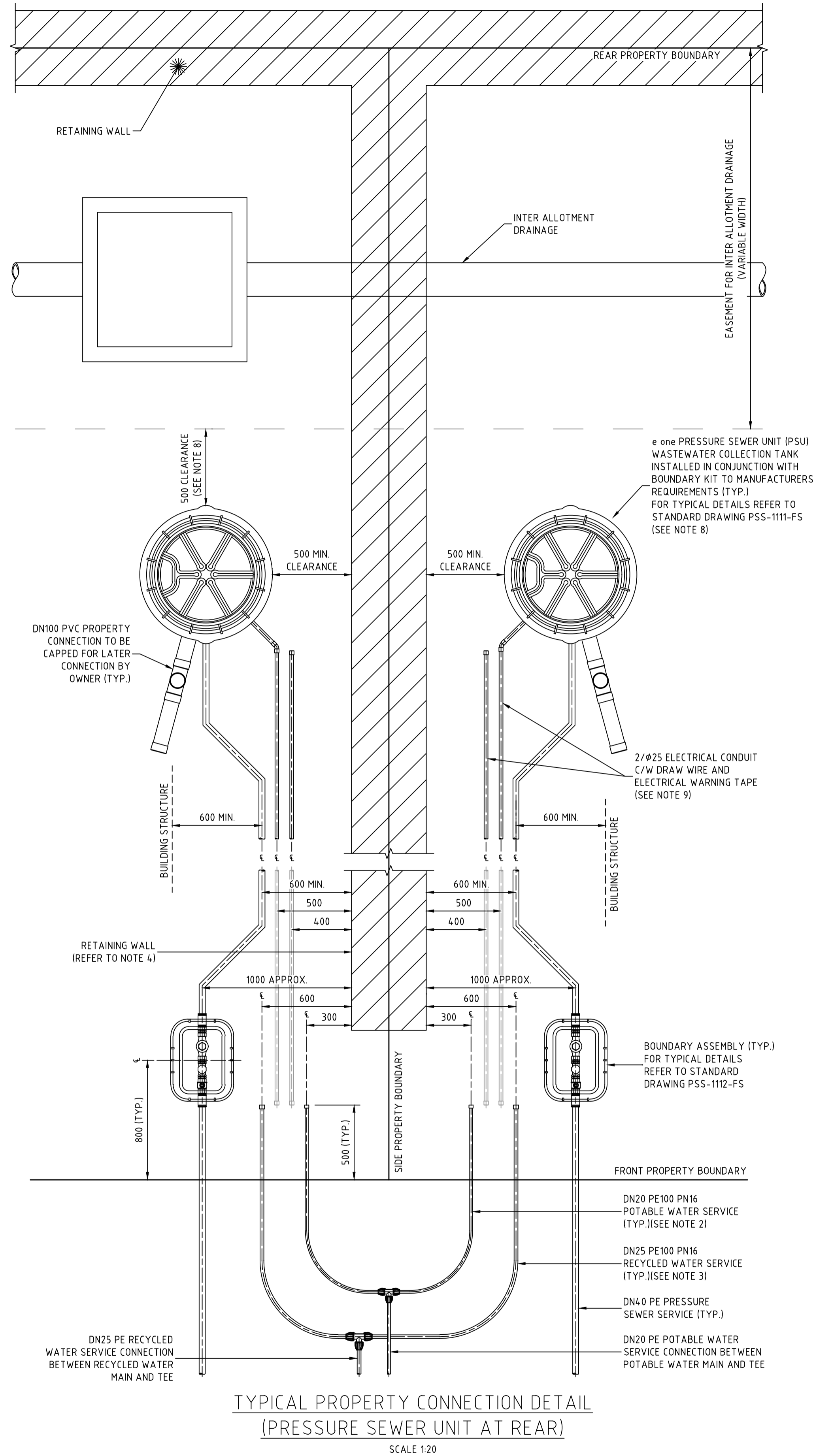
CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 19a
MORAN PARKWAY,
HUNTLEE

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

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	NOT USED		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	017	3



NOTES:

- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-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	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>[Signature]</i>	DATE	02/12/2020
REGISTERED SURVEYOR		SIGNED	
		CONSTRUCTION MANAGER	

ORIGIN OF W.A.C. LEVELS

PM	20029	Co-Ord System	MGA Ground
E	345 613 420	MGA Datum	GDA2020
N	6 382 880 288	MGA Zone	56
RL	77.675m		

APPROVED FOR CONSTRUCTION

BY ADW Johnson Pty Ltd

Date Approved: 03/07/2020

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2020	PRELIMINARY ISSUE	J.N.	C.B.	J.N.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3
B	11.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	1:10 / 1:20
C	18.06.2020	AMENDED ISSUE - CLIENT COMMENTS	J.N.	C.B.	J.N.	C.B.	
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1	16.07.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	1:20 / 1:40
2	28.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	01.12.2020	WORK AS CONSTRUCTED	RJC	ML	-	ML	

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

CLIENT
Huntlee + Water

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 19a
MORAN PARKWAY,
HUNTLÉE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	TYPICAL SERVICE CONNECTION DETAILS		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(19a)	- WAT -	018	3