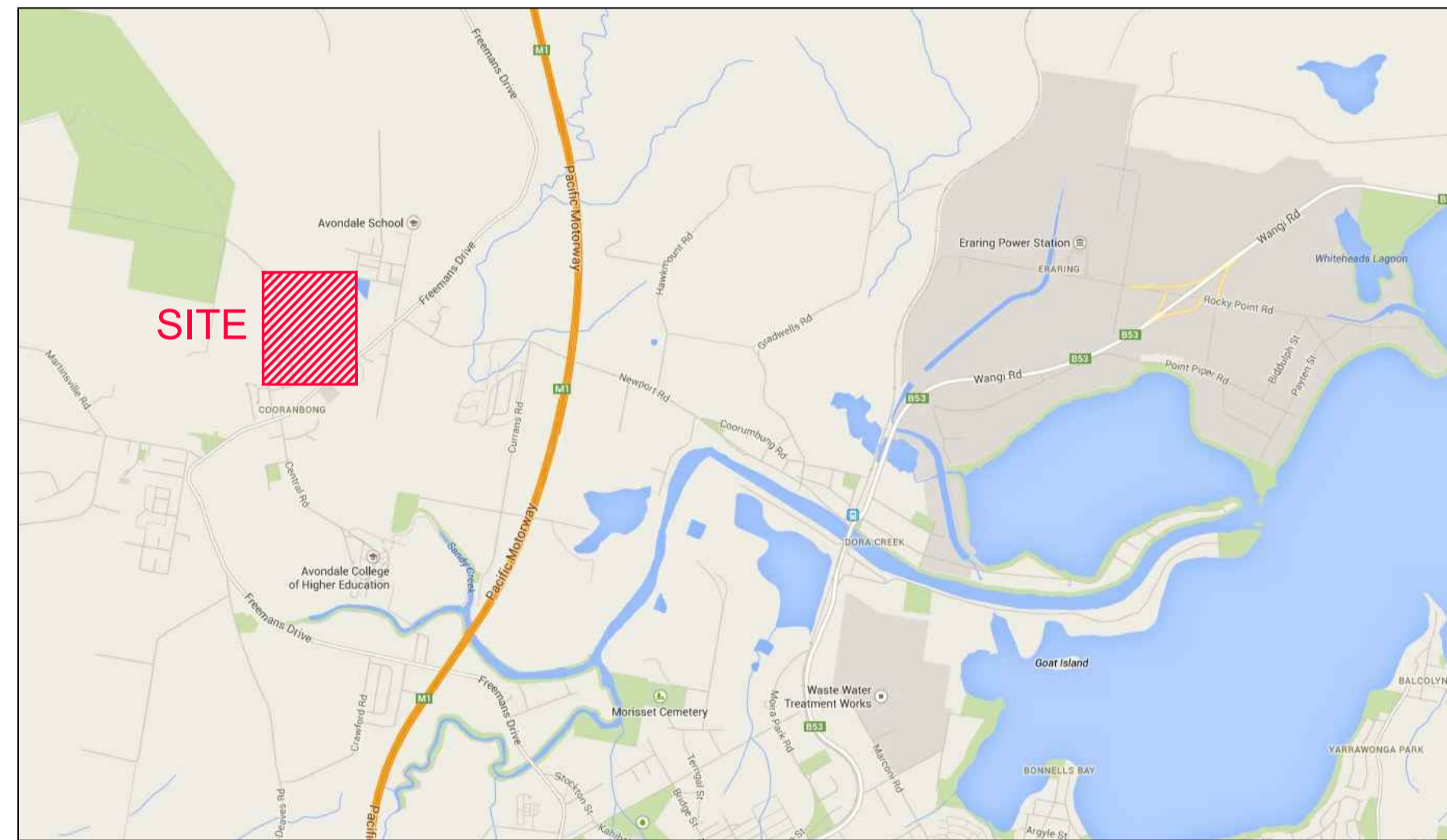
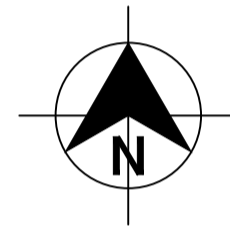



PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.6 LOT 219 DP 755218, LOT 3 DP 1222727 CARROLL CIRCUIT, COORANBONG



LOCALITY SKETCH
NOT TO SCALE

Sheet List Table	
Sheet Title	Sheet Description
239078(3.6)-WAT-001	TITTLE SHEET, DRAWING INDEX & LOCALITY PLAN
239078(3.6)-WAT-002	GENERAL NOTES
239078(3.6)-WAT-003	CENTRED SITE PLAN
239078(3.6)-WAT-101	POTABLE WATER DETAIL PLAN: SHEET 1 OF 2
239078(3.6)-WAT-102	POTABLE WATER DETAIL PLAN: SHEET 2 OF 2
239078(3.6)-WAT-201	RECYCLE WATER DETAIL PLAN: SHEET 1 OF 2
239078(3.6)-WAT-202	RECYCLE WATER DETAIL PLAN: SHEET 1 OF 2
239078(3.6)-WAT-301	PRESSURE SEWER DETAIL PLAN: SHEET 1 OF 2
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239078(3.6)-WAT-403	TYPICAL PROPERTY CONNECTION: SHEE 1 OF 2
239078(3.6)-WAT-404	TYPICAL PROPERTY CONNECTION: SHEE 2 OF 2
239078(3.6)-WAT-405	SEWER SERVICE CONNECTION DETAILS
239078(3.6)-WAT-406	THRUST BLOCK DETAILS

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed:  Date: 16/02/2023
Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE					
A	20.08.2021	INITIAL ISSUE	J.C.	MP.C.	T.S.	C.B.		 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		 JOHNSON PROPERTY GROUP	PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.6 LOT 219 DP 755218, LOT 3 DP 1222727 CARROLL CIRCUIT, COORANBONG	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TITTLE SHEET, DRAWING INDEX & LOCALITY PLAN				
B	16.09.2021	CLIENT COMMENTS	G.S.	MP.C.	T.S.	MP.C.											
0	27.09.2021	CONSTRUCTION ISSUE	J.C.	MP.C.	T.S.	MP.C.											
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.											
DESIGN FILE N:\JOBNUMBER\Design\12D\								ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 239078(3.6)	DISCIPLINE - WAT	NUMBER - 001	REV. 1

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.
- ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON "POLYETHYLENE PIPING SYSTEMS" PRODUCT RANGE.
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONTRACTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
- ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER, POTABLE WATER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
- MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
- MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 : R8.0m, DN250 : R5.0m, DN200 : R4.0m, DN160 : R3.2m, DN125 : R2.5m, DN90 : R1.8m, DN75 : R1.5m, DN63 : R1.3m, DN50 : R1.0m, DN40 : R0.8m).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
- FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (≤ DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf LARGE MAINS (> DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf
- LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- FOR LOTS WITH TANKS IN THE REAR 1 x ø25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x ø25mm ELECTRICAL CONDUIT (WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
- THE CONTRACTOR SHALL PROVIDE ALTOGETHER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 213.4) ARE:
TRAFFICABLE
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
NON-TRAFFICABLE
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
- BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-8K4).
e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
- ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.
ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000kPa.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.

POTABLE WATER AND RECYCLED WATER NOTES: ✓

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
 - POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
 - ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
 - ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONTRACTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
 - THE CONTRACTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
 - MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER POTABLE WATER AND RECYCLED WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
 - ALL POTABLE WATERMAINS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16). DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATER MAINS. RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE WATER MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.
 - MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL BE ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
 - ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION PS-350, 368 AND 369. GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE ALTOGETHER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE AND THE NEED FOR TRENCH DRAINAGE/BULKHEADS.
 - DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
 - HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
 - HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
 - THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
 - ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SINGLE SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf DUAL SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf
 - PROPERTY SERVICE CONNECTIONS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
 - SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
 - ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
 - ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
 - WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014). (CLAUSE 19.7).
 - THE CONTRACTOR SHALL PROVIDE ALTOGETHER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE COORANBONG WATER REPRESENTATIVE.
 - UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
 - PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
 - BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
 - MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5) :
TRAFFICABLE
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
NON-TRAFFICABLE
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE.
PROPERTY SERVICES
TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES.
TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
 - SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
 - PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
 - WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
 - WHERE THE PIPE GRADE EXCEEDS 5% , TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/GRADE%. WHERE PIPE GRADES EXCEED 15%, CONCRETE BULKHEADS WILL BE CONSTRUCTED AT SPACING AS PER TABLE 7.5 OF WSA03-2001 SYDNEY WATER EDITION 2014.
- ALTOGETHER STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:
<https://askus.altogethergroup.com.au/hc/en-us/articles/900004827263-Standard-drawings-for-land-developers->

GENERAL NOTES: ✓

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

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

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

NOTES:

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

SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED, NOTIFICATION SHALL BE CONVEYED TO THE ALTOGETHER REPRESENTATIVE IN WRITING FOR REVIEW & ACCEPTANCE PRIOR TO INSTALLATION.

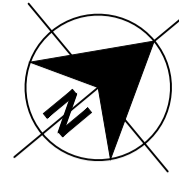
WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed:  Date: 16/02/2023
Name: Malcolm Harvey Position: Registered Surveyor

CONSTRUCTION ISSUE

239078(3.6)-WAT-002(1)

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy, you do not have all of the information. This note is coloured RED.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	20.08.2021	INITIAL ISSUE	J.C.	MP.C.	T.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.6 LOT 219 DP 755218, LOT 3 DP 1222727 CARROLL CIRCUIT, COORANBONG	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	GENERAL NOTES	239078(3.6)	WAT	002	1
B	16.09.2021	CLIENT COMMENTS	G.S.	MP.C.	T.S.	MP.C.									
O	27.09.2021	CONSTRUCTION ISSUE	J.C.	MP.C.	T.S.	MP.C.									
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.									
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Plotted By: glenns Plot Date: 12/10/21 - 10:13 Cad File: N:\239078\239078(3)\DWG's\Engineering\Water & Sewer\Stage 3.6 Water and Sewer\239078(3.6)-WAT-002(1).dwg															



PLAN
SCALE 1:1000

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: *M. Harvey* Date: 16/02/2023
Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.08.2021	INITIAL ISSUE	J.C.	MP.C.	T.S.	C.B.	
B	16.09.2021	CLIENT COMMENTS	G.S.	MP.C.	T.S.	MP.C.	
0	27.09.2021	CONSTRUCTION ISSUE	J.C.	MP.C.	T.S.	MP.C.	
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.	

adw
Johnson

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

CLIENT

**JOHNSON
PROPERTY
GROUP**

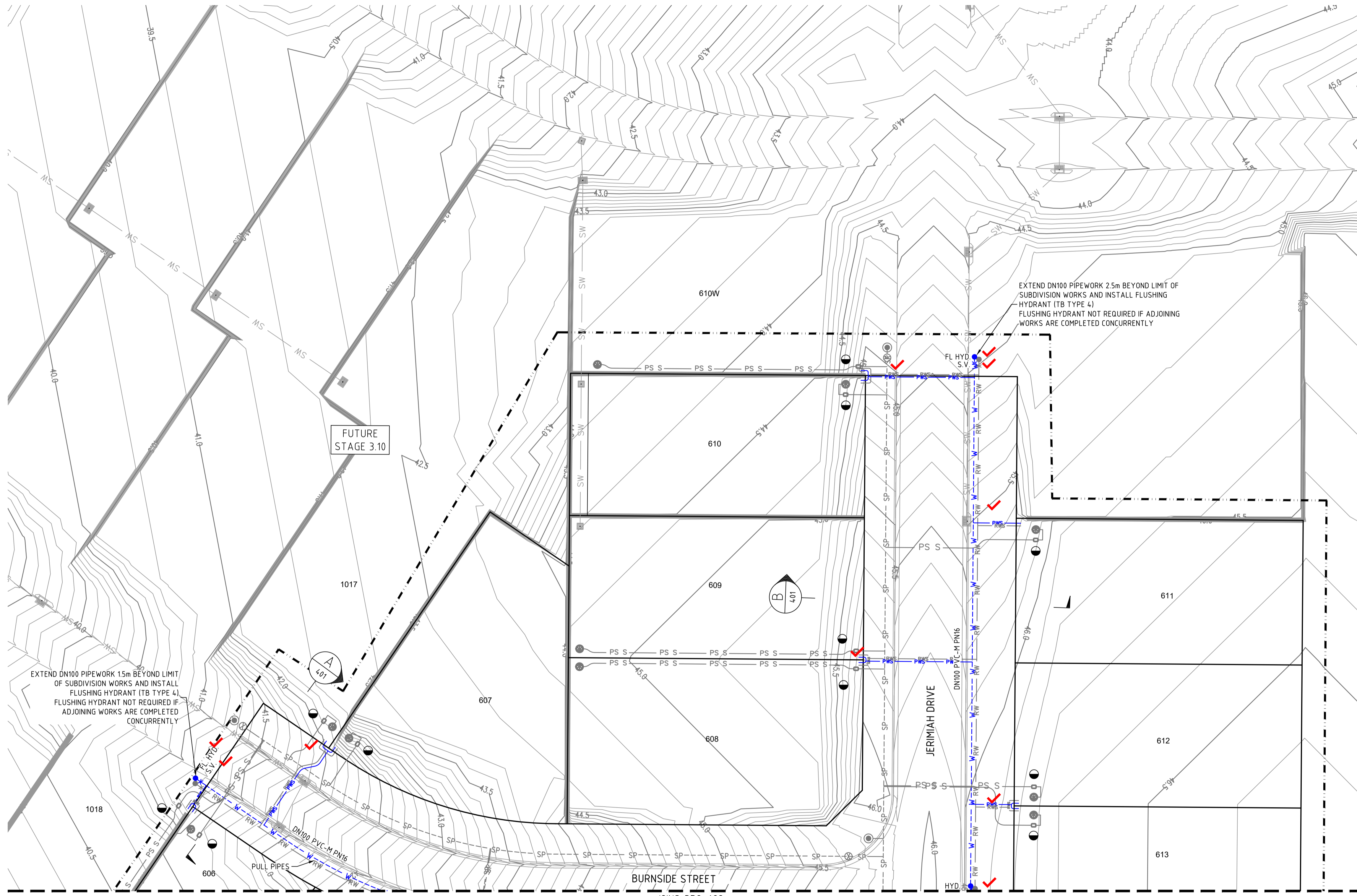
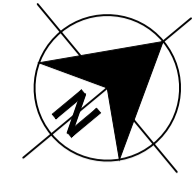
PROPERTY DESCRIPTION

PRECINCT 3 - WATAGAN PARK
PROPOSED SUBDIVISION - STAGE 3.6
LOT 219 DP 755218, LOT 3 DP 1222727
CARROLL CIRCUIT, COORANBONG

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
PLAN TITLE	CENTRED SITE PLAN				
SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.6)	WAT	003	1

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

239078(3.6)-WAT-102(1)



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

POTABLE WATER PROPERTY SERVICE CONNECTIONS
 TOTAL 20 CONNECTIONS

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 1 x SHORT SIDE
 - 1 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 4 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	230

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 & 202.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 & 302.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.

EXTEND DN100 PIPEWORK 1.5m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL FLUSHING HYDRANT (TB TYPE 4). FLUSHING HYDRANT NOT REQUIRED IF ADJOINING WORKS ARE COMPLETED CONCURRENTLY

EXTEND DN100 PIPEWORK 2.5m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL FLUSHING HYDRANT (TB TYPE 4). FLUSHING HYDRANT NOT REQUIRED IF ADJOINING WORKS ARE COMPLETED CONCURRENTLY

100mm AT FULL SIZE
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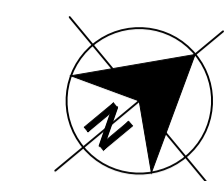
PLAN
 SCALE 1:250

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: Date: 16/02/2023
 Name: Malcolm Harvey Position: Registered Surveyor

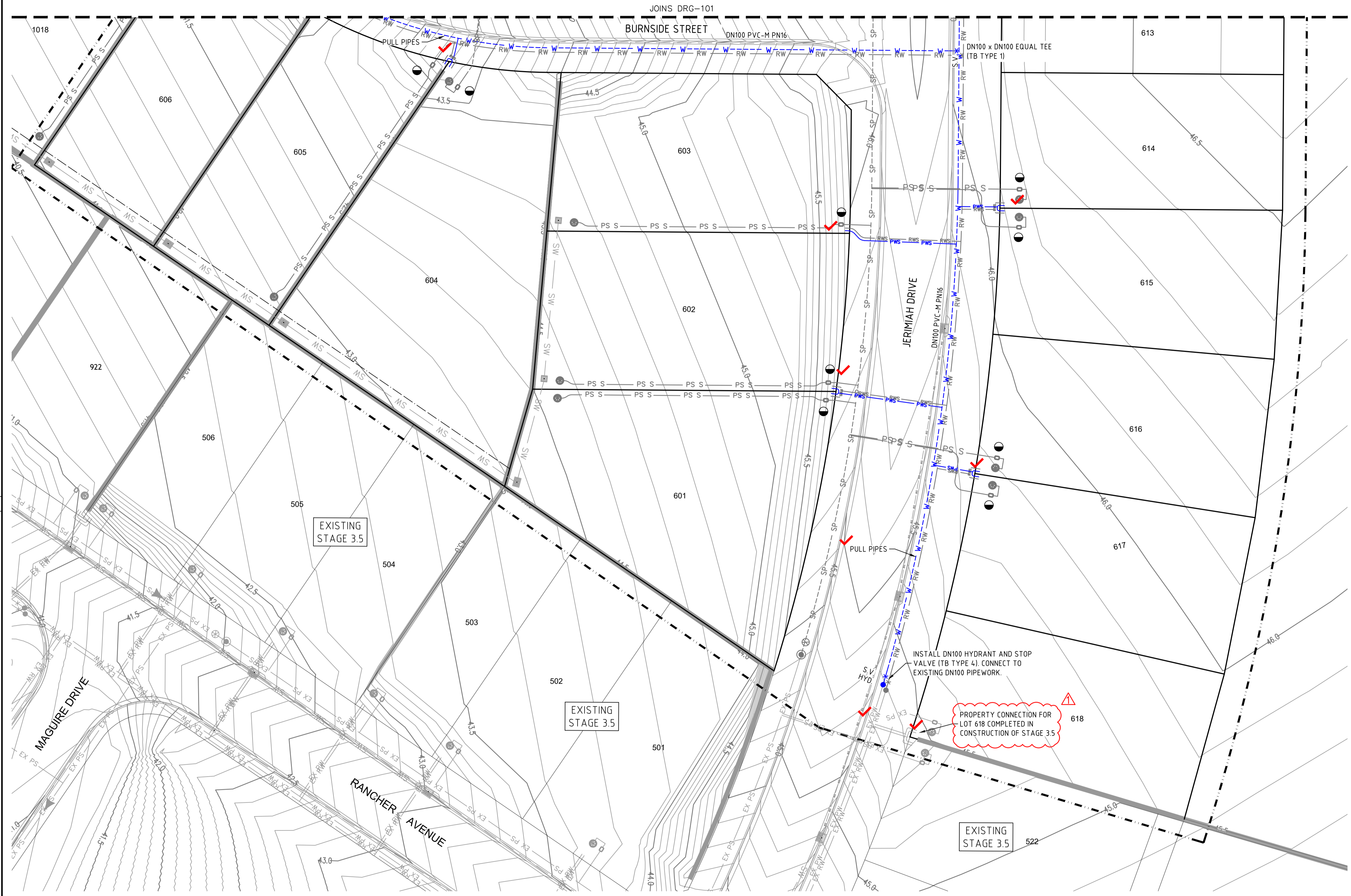


CONSTRUCTION ISSUE

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	JOHNSON PROPERTY GROUP	PROPERTY DESCRIPTION	PROJECT	PROJECT No. 239078(3.6)	DISCIPLINE WAT	NUMBER 101	REV. 1
A	20.08.2021	INITIAL ISSUE	J.C.	MP.C.	T.S.	C.B.	0 5 10 A1 / A3 1:250 / 1:500									
B	16.09.2021	CLIENT COMMENTS	G.S.	MP.C.	T.S.	MP.C.										
0	27.09.2021	CONSTRUCTION ISSUE	J.C.	MP.C.	T.S.	MP.C.										
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.										



239078(3.6)-WAT-102(1)



- 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
 - 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 20 CONNECTIONS

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 1 x SHORT SIDE
 - 1 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 4 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	230

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 & 202.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 & 302.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.

PLAN
SCALE 1: 250

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.

Signed: Date: 16/02/2023
 Name: Malcolm Harvey Position: Registered Surveyor

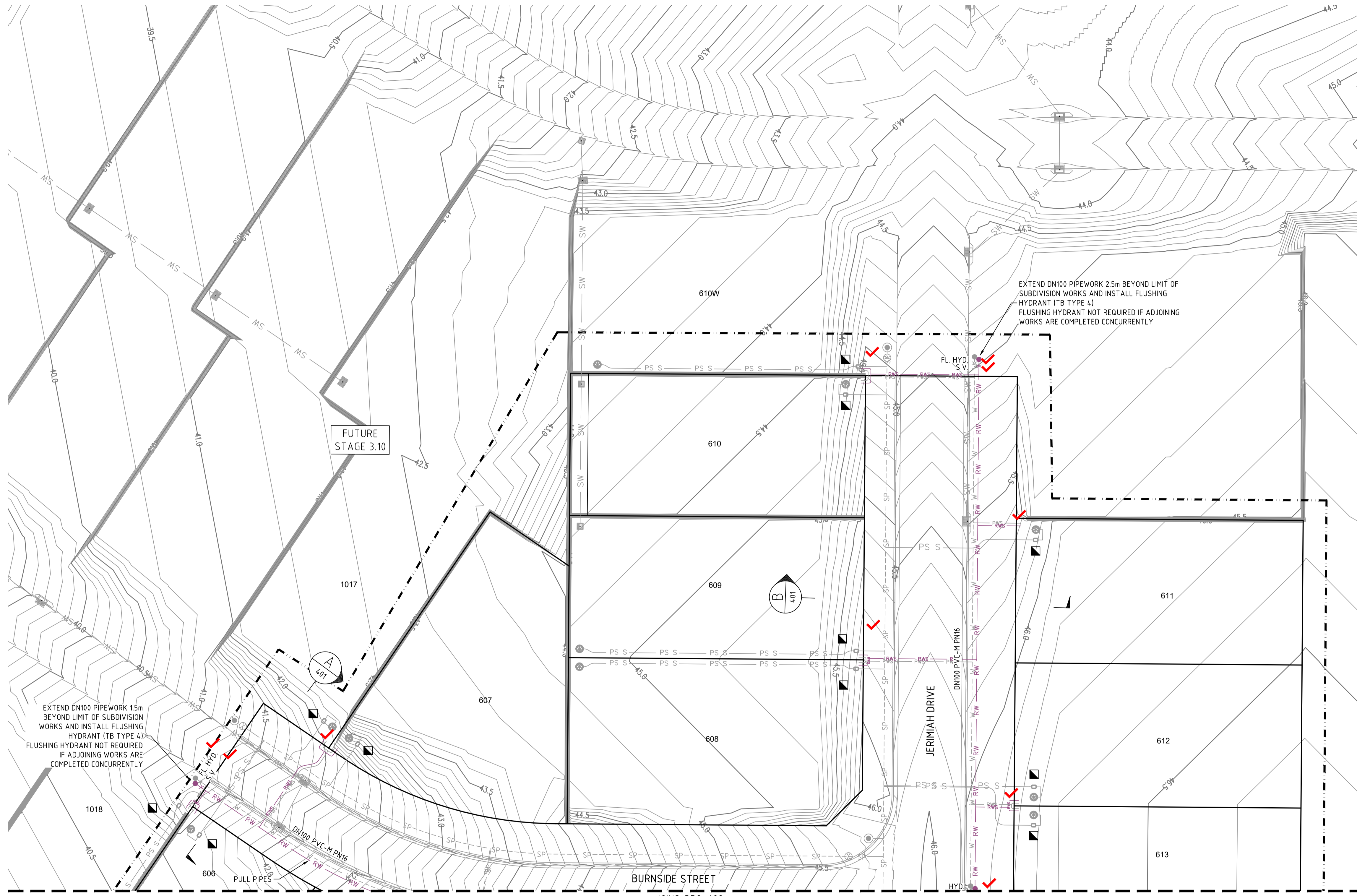
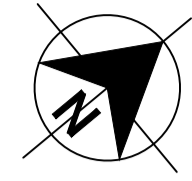


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	20.08.2021	INITIAL ISSUE	J.C.	MP.C.	T.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	JOHNSON PROPERTY GROUP	PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.6 LOT 219 DP 755218, LOT 3 DP 1222727 CARROLL CIRCUIT, COORANBONG	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	239078(3.6)	WAT	102	1
B	16.09.2021	CLIENT COMMENTS	G.S.	MP.C.	T.S.	MP.C.									
0	27.09.2021	CONSTRUCTION ISSUE	J.C.	MP.C.	T.S.	MP.C.									
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.									
DESIGN FILE N:\JOBNUMBER\Design\120\								ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE		SURVEYED ADW Johnson DATUM GDA94 M.G.A. ZONE 56 A.H.D.					

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

239078(3.6)-WAT-202(1)



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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 20 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 1 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 4 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	230

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 & 102.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 & 302.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.

100mm AT FULL SIZE
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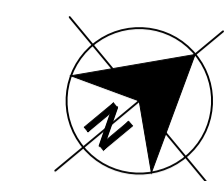
PLAN
 SCALE 1:250

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: Date: 16/02/2023
 Name: Malcolm Harvey Position: Registered Surveyor

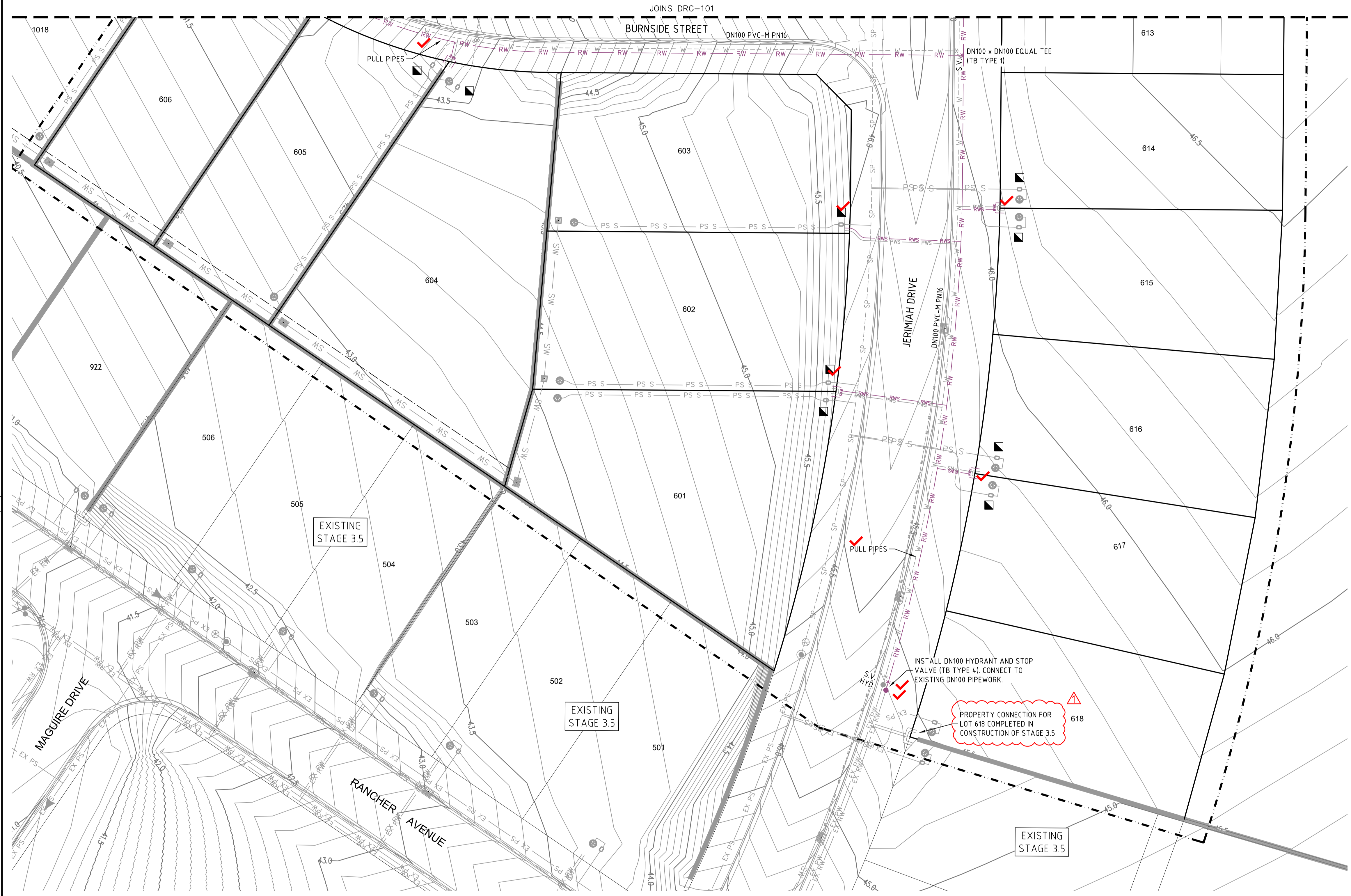


CONSTRUCTION ISSUE

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	JOHNSON PROPERTY GROUP 	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	
A	20.08.2021	INITIAL ISSUE	J.C.	M.P.C.	T.S.	C.B.	0 5 10 A1 / A3 1:250 / 1:500						PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.6 LOT 219 DP 755218, LOT 3 DP 1222727 CARROLL CIRCUIT, COORANBONG	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLE WATER DETAIL PLAN: SHEET 1 OF 2	ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.6)	WAT	201
B	16.09.2021	CLIENT COMMENTS	G.S.	M.P.C.	T.S.	M.P.C.														
0	27.09.2021	CONSTRUCTION ISSUE	J.C.	M.P.C.	T.S.	M.P.C.														
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	M.P.C.	T.S.	M.P.C.														



239078(3.6)-WAT-202(1)



- 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
 - EX PW — EXISTING POTABLE WATER RETICULATION
 - EX RW — EXISTING RECYCLED WATER RETICULATION
 - EX PS — EXISTING PRESSURE SEWER RETICULATION
 - SW — STORMWATER PIPEWORK
 - SV — STOP VALVE
 - HYD — HYDRANT
 - FL HYD — FLUSHING HYDRANT
 - — PROPERTY SERVICE CONNECTION
 - — LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - — PROPOSED EASEMENT
 - — SUBDIVISION STAGE BOUNDARY

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
 TOTAL 20 CONNECTIONS
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 -1 x SHORT SIDE
 -1 x LONG SIDE
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 -5 x SHORT SIDE
 -4 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	230

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 & 102.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 & 302.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.

PLAN
SCALE 1:250

WORK-AS-EXECUTED
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 Signed: Date: 16/02/2023
 Name: Malcolm Harvey Position: Registered Surveyor

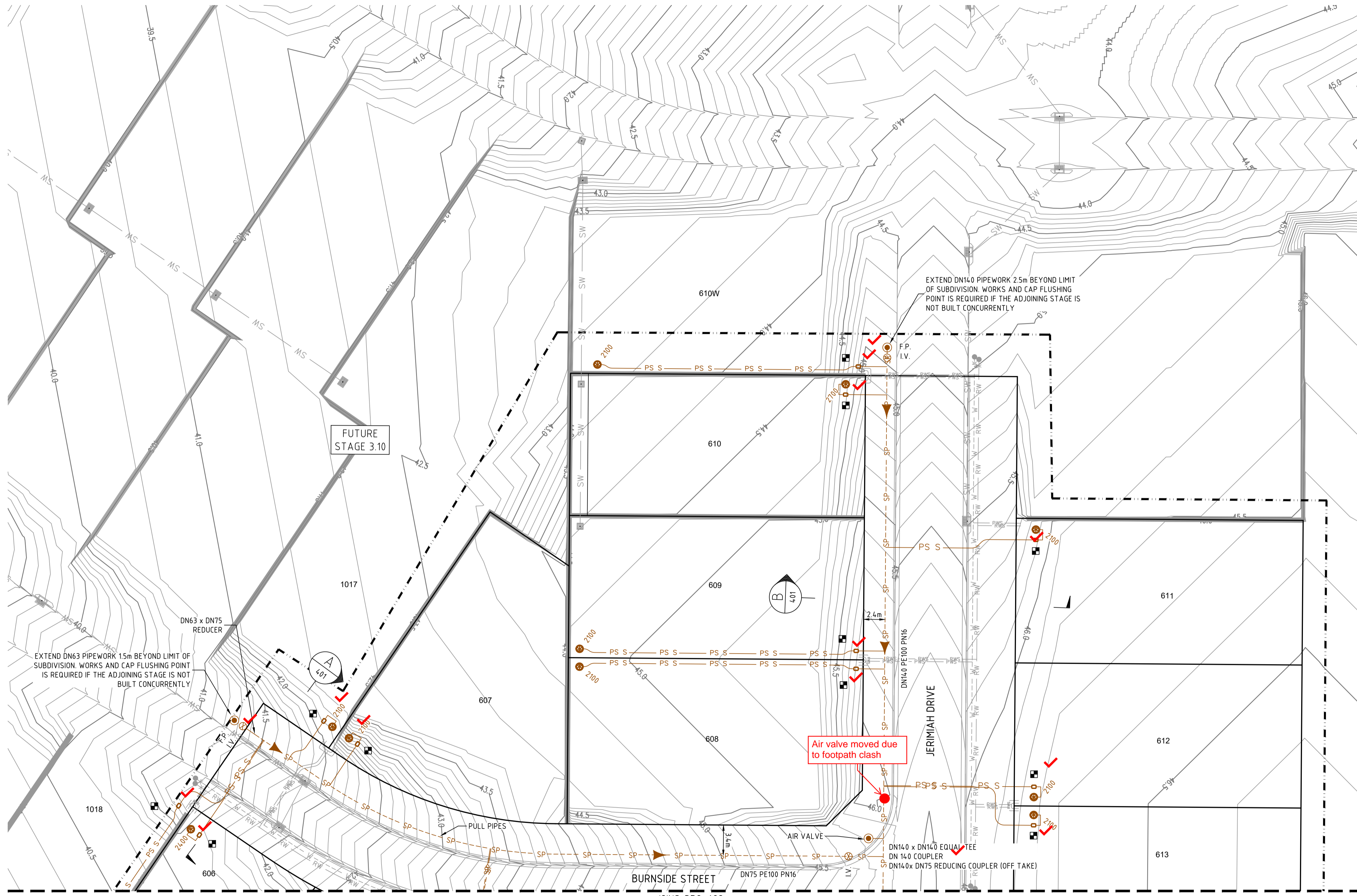
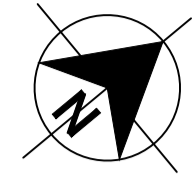


CONSTRUCTION ISSUE

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	 JOHNSON PROPERTY GROUP	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
A	20.08.2021	INITIAL ISSUE	J.C.	MP.C.	T.S.	C.B.	 A1 / A3 1:250 / 1:500		PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.6 LOT 219 DP 755218, LOT 3 DP 1222727 CARROLL CIRCUIT, COORANBONG		PLAN TITLE			
B	16.09.2021	CLIENT COMMENTS	G.S.	MP.C.	T.S.	MP.C.			RECYCLE WATER DETAIL PLAN: SHEET 1 OF 2		PROJECT No.	DISCIPLINE	NUMBER	REV.
0	27.09.2021	CONSTRUCTION ISSUE	J.C.	MP.C.	T.S.	MP.C.			239078(3.6) - WAT - 202		ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	202	1
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.								

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239078(3.6)-WAT-302(1)



- LEGEND**
- SP- PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W- PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - SW STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - FP FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION
 - PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

▲ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 20 CONNECTIONS
 • SINGLE SERVICES
 -9 x SHORT SIDE
 -11 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN140	PE100 PN16	136
DN75	PE100 PN16	75
DN63	PE100 PN16	5

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 & 102.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 & 202.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-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).

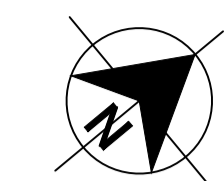
WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: *M. Harvey* Date: 16/02/2023
 Name: Malcolm Harvey Position: Registered Surveyor



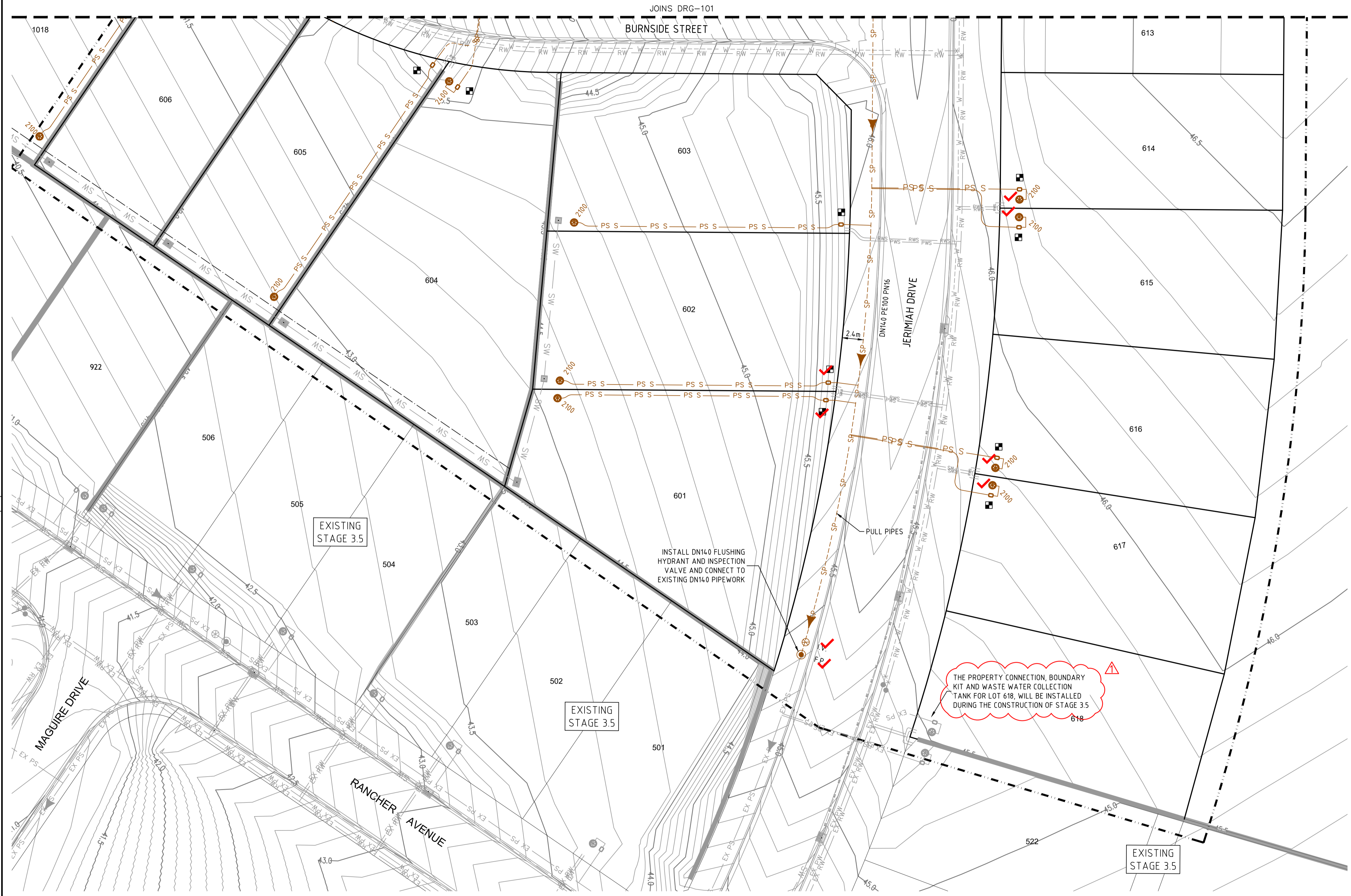
CONSTRUCTION ISSUE

<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> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>20.08.2021</td> <td>INITIAL ISSUE</td> <td>J.C.</td> <td>MP.C.</td> <td>T.S.</td> <td>C.B.</td> <td>0 5 10 A1 / A3</td> </tr> <tr> <td>B</td> <td>16.09.2021</td> <td>CLIENT COMMENTS</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> <td>1:250 / 1:500</td> </tr> <tr> <td>0</td> <td>27.09.2021</td> <td>CONSTRUCTION ISSUE</td> <td>J.C.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> <td></td> </tr> <tr> <td>1</td> <td>12.10.2021</td> <td>CONSTRUCTION ISSUE</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	20.08.2021	INITIAL ISSUE	J.C.	MP.C.	T.S.	C.B.	0 5 10 A1 / A3	B	16.09.2021	CLIENT COMMENTS	G.S.	MP.C.	T.S.	MP.C.	1:250 / 1:500	0	27.09.2021	CONSTRUCTION ISSUE	J.C.	MP.C.	T.S.	MP.C.		1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.		<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>PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.6 LOT 219 DP 755218, LOT 3 DP 1222727 CARROLL CIRCUIT, COORANBONG</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE</p> <p>PRESSURE SEWER DETAIL PLAN: SHEET 1 OF 2</p>	<table border="1"> <tr> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>239078(3.6)</td> <td>WAT</td> <td>301</td> <td>1</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	239078(3.6)	WAT	301	1
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																														
A	20.08.2021	INITIAL ISSUE	J.C.	MP.C.	T.S.	C.B.	0 5 10 A1 / A3																																														
B	16.09.2021	CLIENT COMMENTS	G.S.	MP.C.	T.S.	MP.C.	1:250 / 1:500																																														
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1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.																																															
PROJECT No.	DISCIPLINE	NUMBER	REV.																																																		
239078(3.6)	WAT	301	1																																																		

100mm AT FULL SIZE
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239078(3.6)-WAT-302(1)



- LEGEND**
- SP-SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - 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
 - SW SW STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - FP FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION
 - PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

△ **PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
 TOTAL 20 CONNECTIONS
 • SINGLE SERVICES
 - 9 x SHORT SIDE
 - 11 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN140	PE100 PN16	136
DN75	PE100 PN16	75
DN63	PE100 PN16	5

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 & 102.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 & 202.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-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).

△ THE PROPERTY CONNECTION, BOUNDARY KIT AND WASTE WATER COLLECTION TANK FOR LOT 618, WILL BE INSTALLED DURING THE CONSTRUCTION OF STAGE 3.5

PLAN
SCALE 1: 250

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: *M Harvey* Date: 16/02/2023
 Name: Malcolm Harvey Position: Registered Surveyor

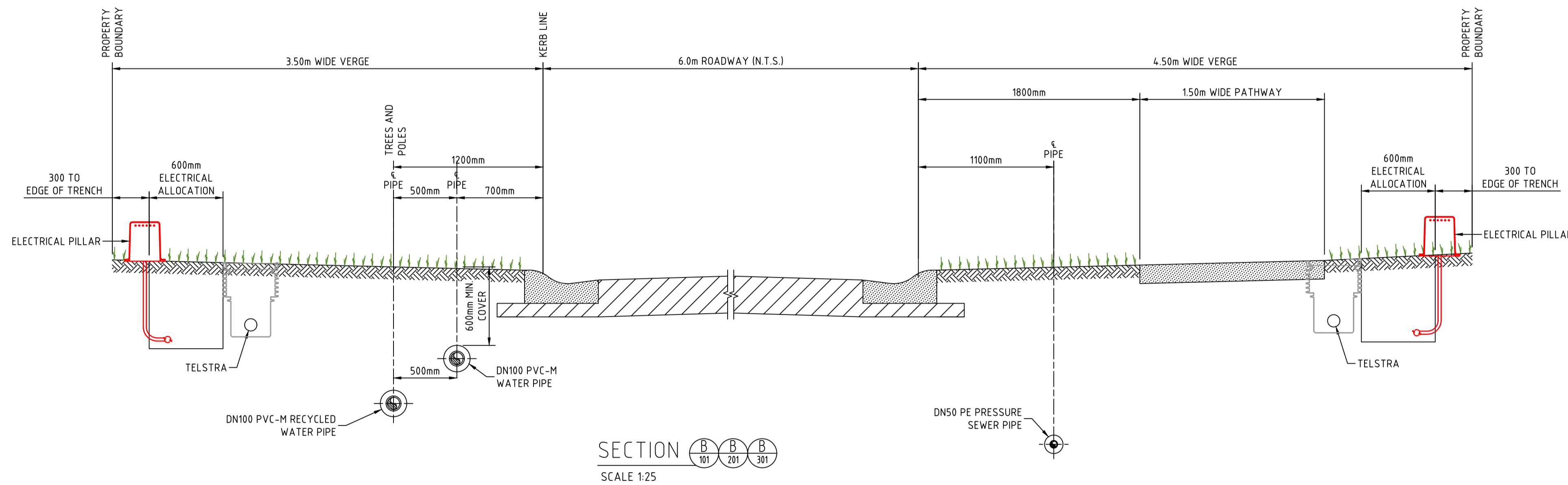
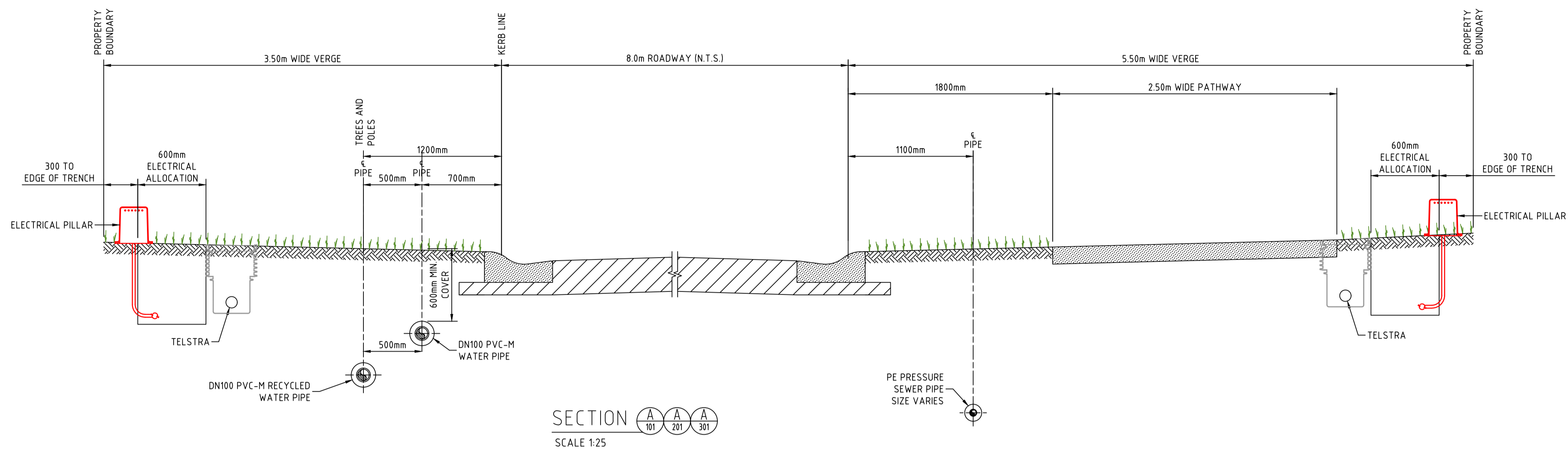


CONSTRUCTION ISSUE

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 JOHNSON PROPERTY GROUP	PROPERTY DESCRIPTION		PROJECT	
A	20.08.2021	INITIAL ISSUE	J.C.	M.P.C.	T.S.	C.B.	 A1 / A3 1:250 / 1:500			PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.6 LOT 219 DP 755218, LOT 3 DP 1222727 CARROLL CIRCUIT, COORANBONG		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
B	16.09.2021	CLIENT COMMENTS	G.S.	M.P.C.	T.S.	M.P.C.				PLAN TITLE		PRESSURE SEWER DETAIL PLAN: SHEET 2 OF 2	
0	27.09.2021	CONSTRUCTION ISSUE	J.C.	M.P.C.	T.S.	M.P.C.				PROJECT No.		DISCIPLINE	NUMBER
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	M.P.C.	T.S.	M.P.C.		ADW Johnson		WAT	302	1	

100mm AT FULL SIZE
 This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

239078(3.6)-WAT-401(1)



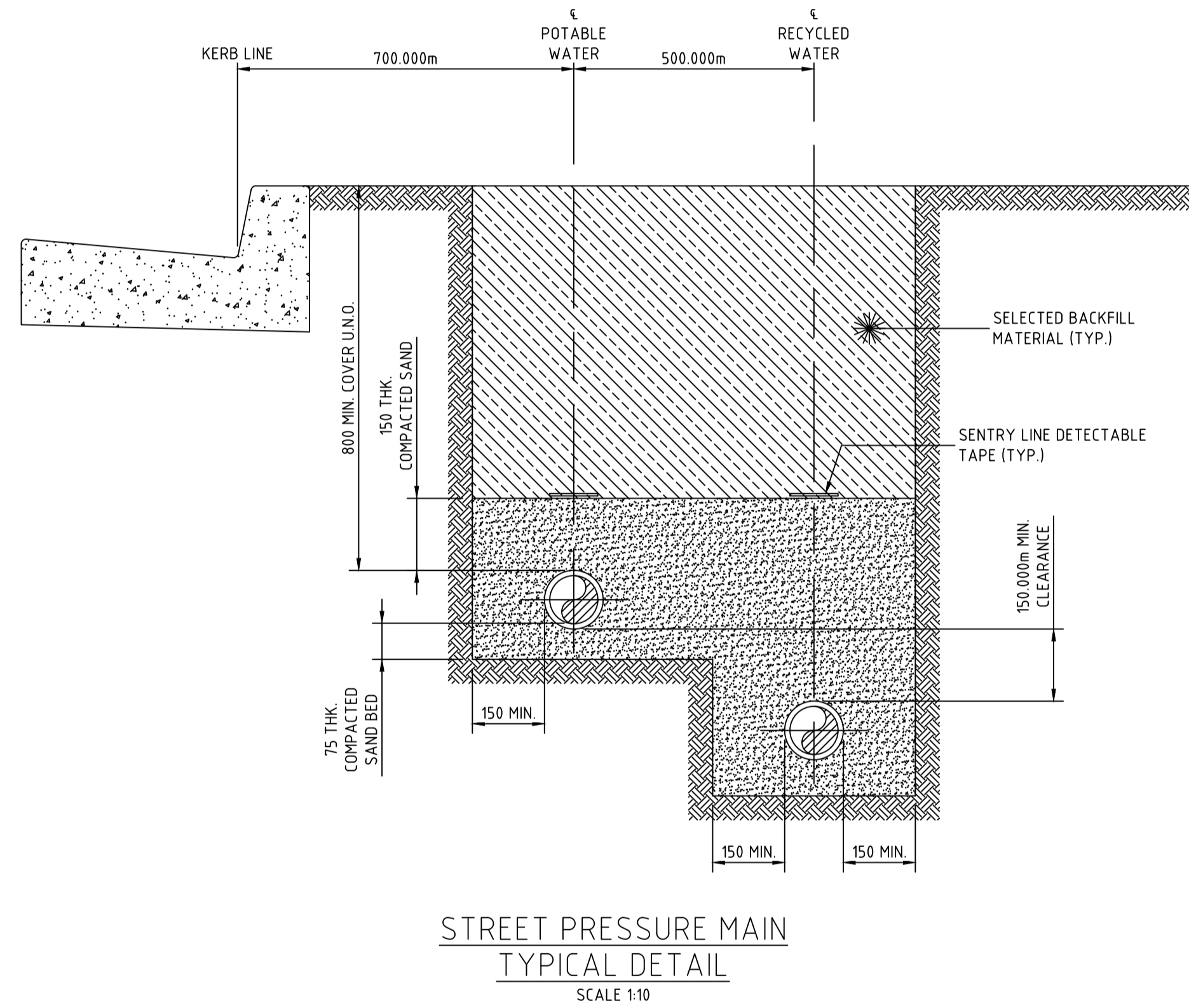
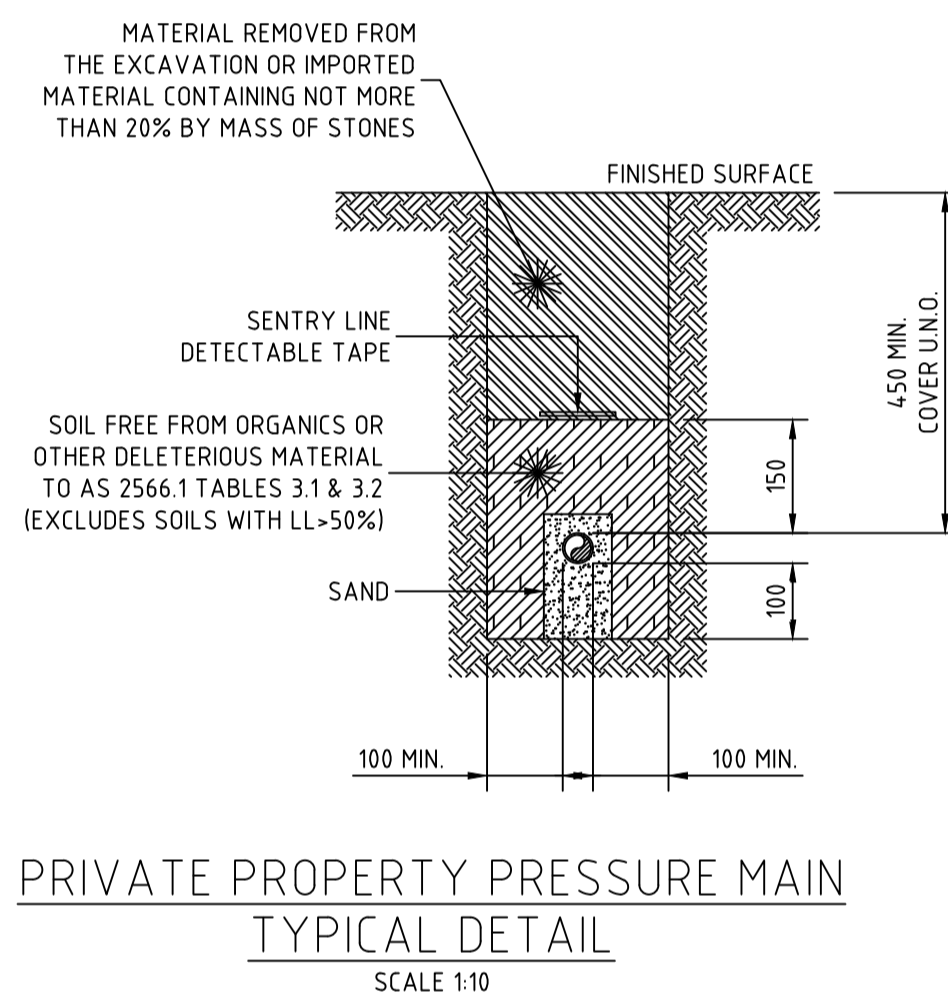
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B	16.09.2021	CLIENT COMMENTS	G.S.	MP.C.	T.S.	MP.C.				PLAN TITLE TYPICAL CROSS SECTIONS: A & B		PROJECT No. 239078(3.6) - DISCIPLINE WAT - NUMBER 401 - REV. 1		
0	27.09.2021	CONSTRUCTION ISSUE	J.C.	MP.C.	T.S.	MP.C.		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 239078(3.6) - DISCIPLINE WAT - NUMBER 401 - REV. 1		
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.								



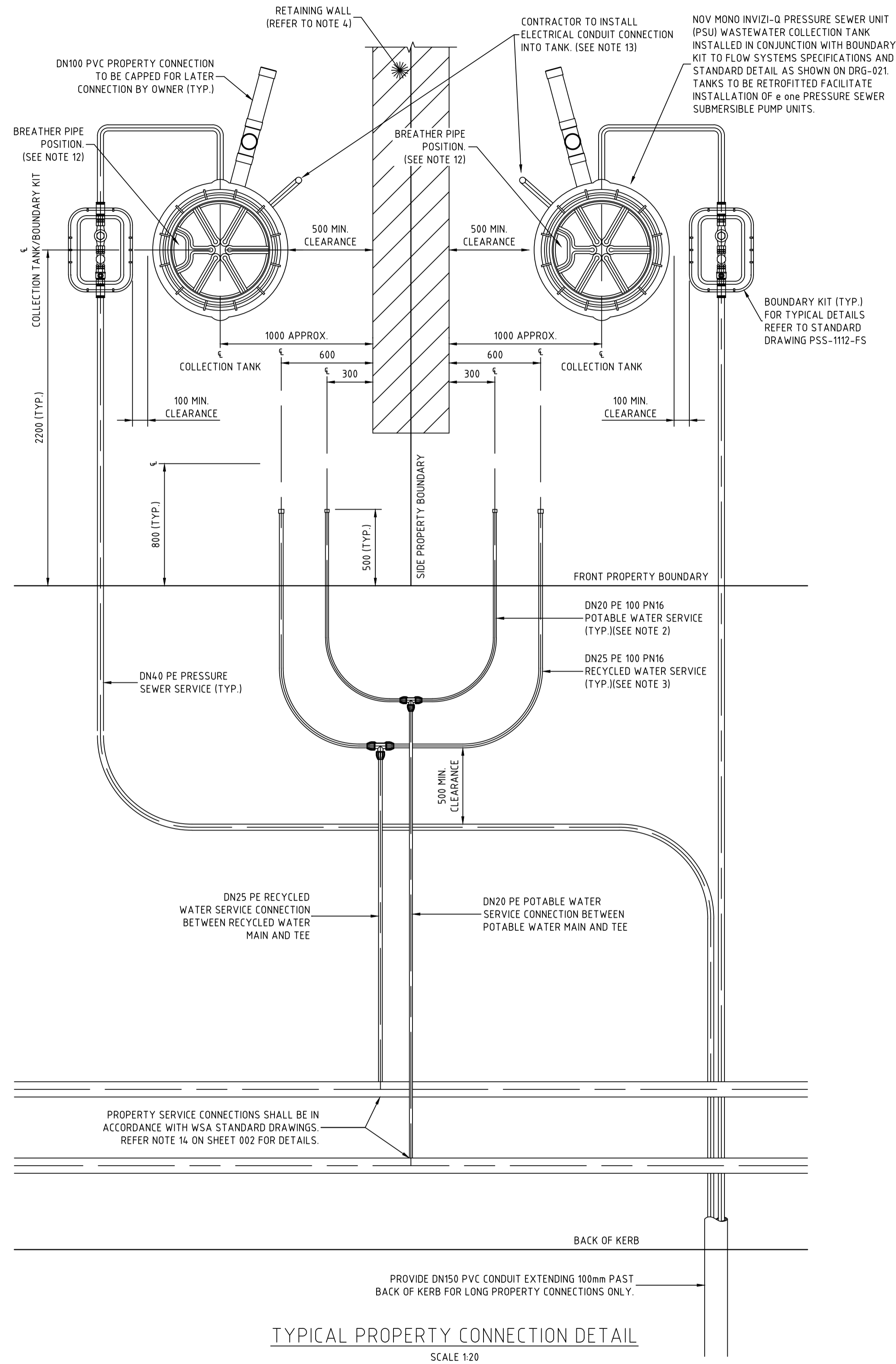
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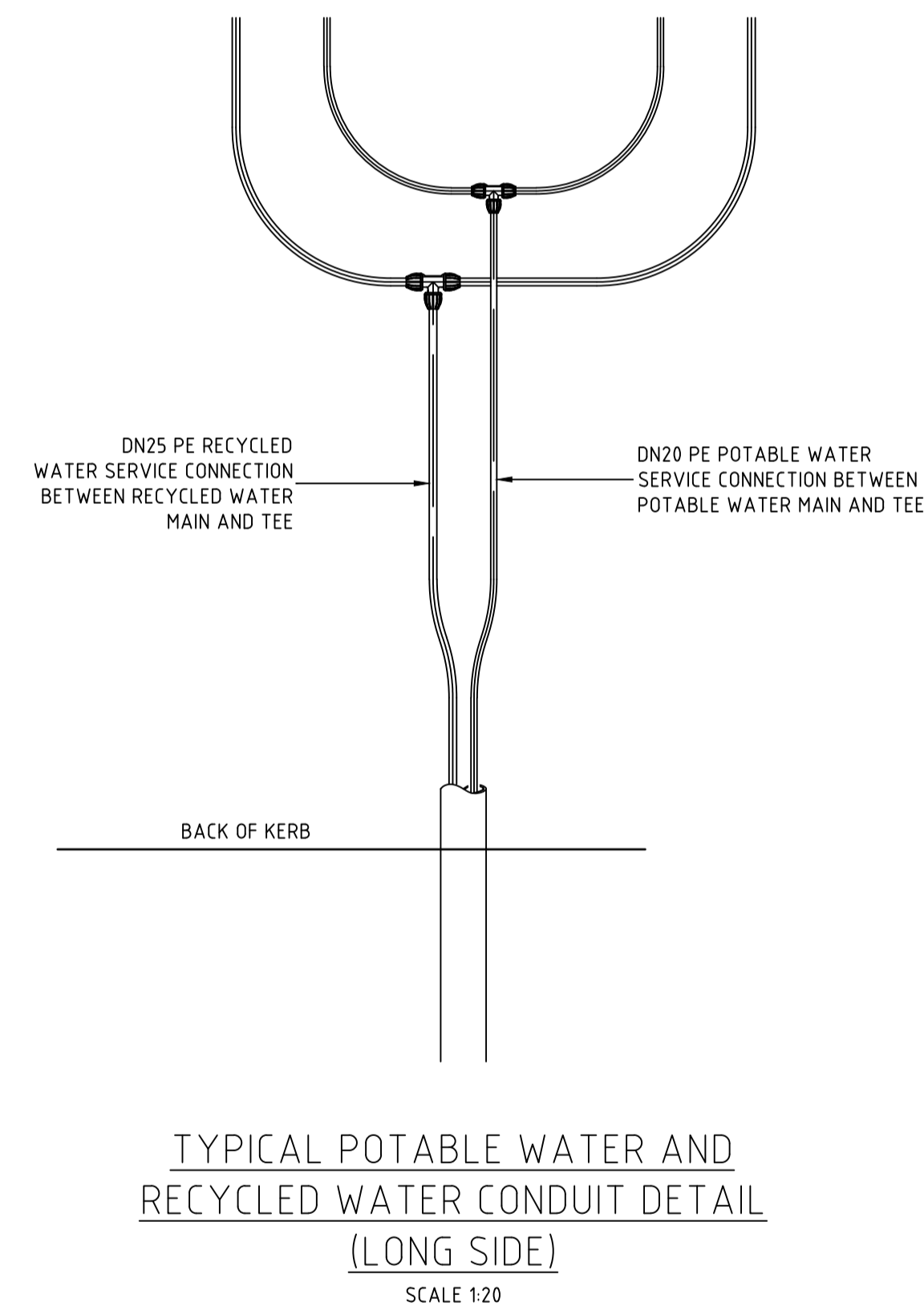
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A	20.08.2021	INITIAL ISSUE	J.C.	MP.C.	T.S.	C.B.		 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398			PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.6 LOT 219 DP 755218, LOT 3 DP 1222727 CARROLL CIRCUIT, COORANBONG	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PIPEWORK TRENCHING DETAILS	ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.6)	- WAT	- 402	1



NOTES: ✓

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



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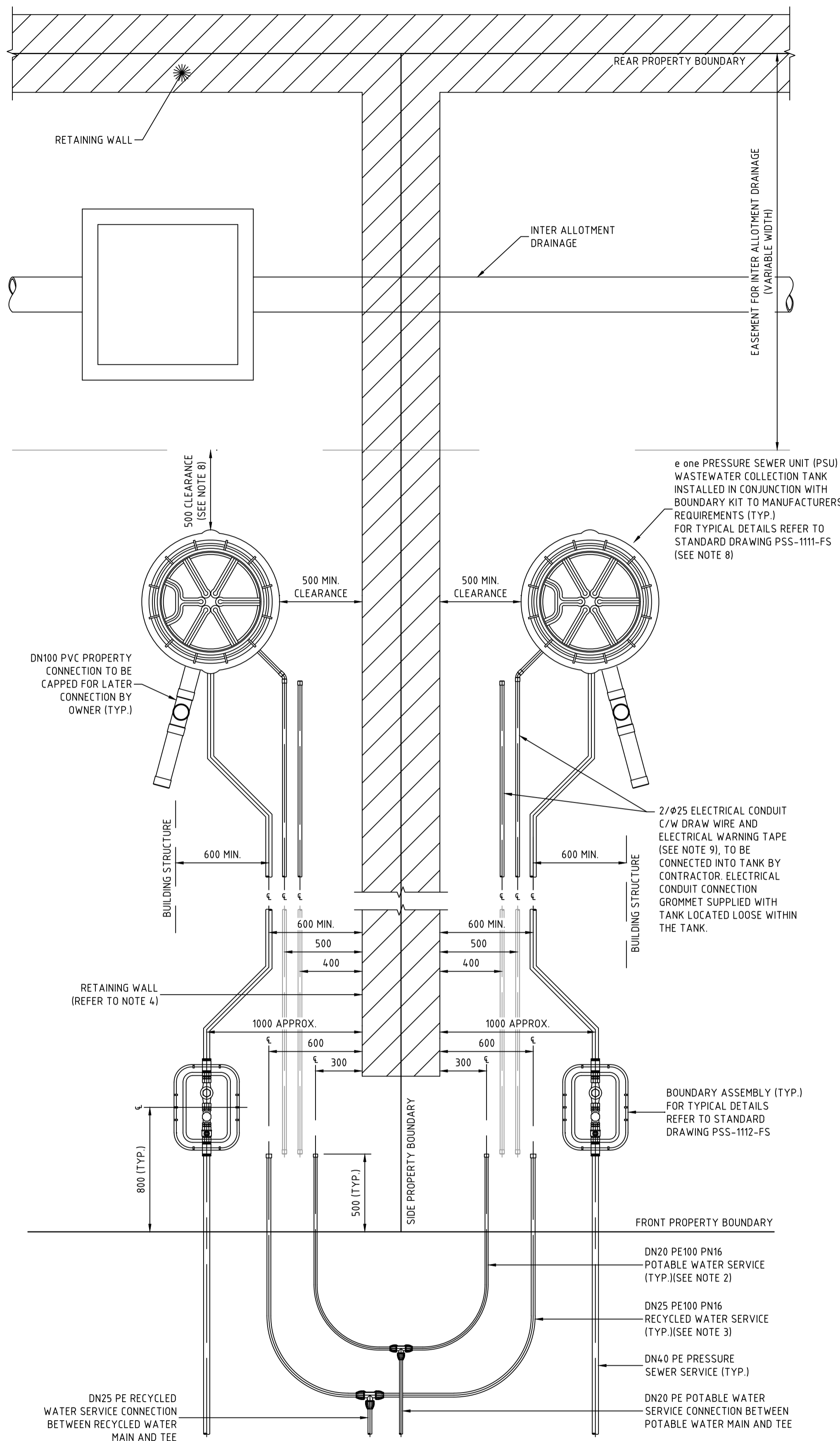
CLIENT



PROPERTY DESCRIPTION
**PRECINCT 3 - WATAGAN PARK
PROPOSED SUBDIVISION - STAGE 3.6
LOT 219 DP 755218, LOT 3 DP 1222727
CARROLL CIRCUIT, COORANBONG**

PROJECT **POTABLE WATER, RECYCLED WATER AND
PRESSURE SEWER RETICULATION**

PLAN TITLE
TYPICAL PROPERTY CONNECTION: SHEE 1 OF 2



TYPICAL PROPERTY CONNECTION DETAIL
(PRESSURE SEWER UNIT AT REAR)

SCALE 1:20

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ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE

adw
Johnson

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JOHNSON PROPERTY GROUP

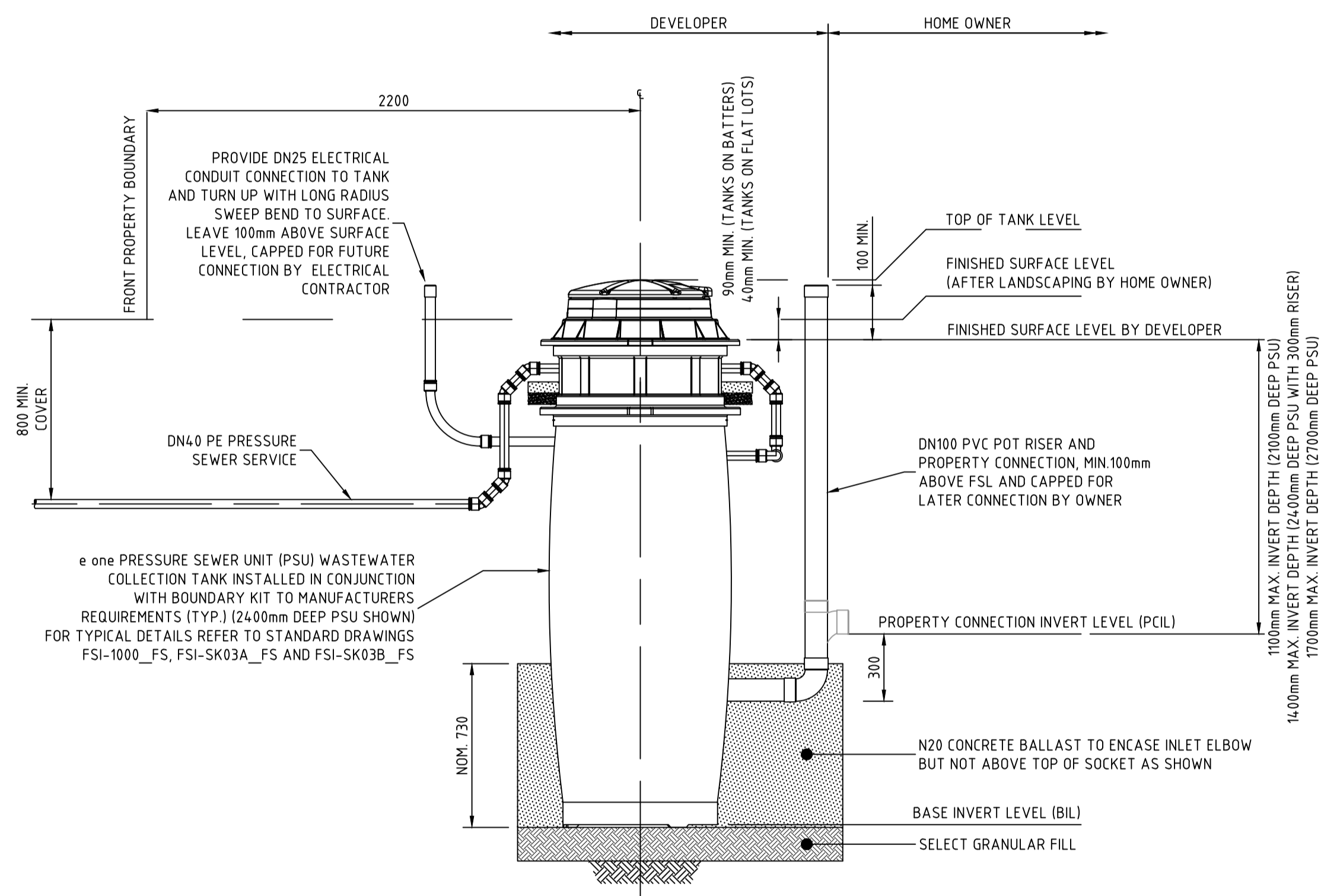
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PRECINCT 3 - WATAGAN PARK
PROPOSED SUBDIVISION - STAGE 3.6
LOT 219 DP 755218, LOT 3 DP 1222727
CARROLL CIRCUIT, COORANBONG

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PROPERTY CONNECTION: SHEE 2 OF 2	239078(3.6)	WAT	404	1

WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	CONNECTION IL	TANK TYPE	TANK LOCATION	EASTING	NORTHING
601	44.68	44.55	42.55	43.45	2100	REAR	355728.253	6341394.177
602	44.70	44.57	42.57	43.47	2100	REAR	355726.889	6341395.663
603	44.89	44.76	42.76	43.66	2100	REAR	355714.097	6341408.378
604	43.54	43.41	41.11	42.01	2400	FRONT	355692.685	6341407.687
605	42.31	42.18	40.18	41.08	2100	REAR	355698.826	6341376.738
606	41.65	41.52	39.22	40.12	2400	FRONT	355662.915	6341394.348
607	43.00	42.87	40.87	41.77	2100	FRONT BATTER	355666.374	6341414.473
608	45.05	44.92	42.92	43.82	2100	REAR	355676.690	6341439.430
609	45.05	44.92	42.92	43.82	2100	REAR	355675.160	6341440.719
610	45.04	44.91	42.31	43.21	2700	FRONT BATTER	355671.392	6341482.531
611	46.04	45.91	43.91	44.81	2100	FRONT BATTER	355697.491	6341488.526
612	46.45	46.32	44.32	45.22	2100	FRONT BATTER	355720.380	6341469.244
613	46.46	46.33	44.33	45.23	2100	FRONT BATTER	355721.910	6341467.955
614	46.34	46.21	44.21	45.11	2100	FRONT BATTER	355744.402	6341448.996
615	46.33	46.20	44.20	45.10	2100	FRONT BATTER	355745.914	6341447.687
616	46.02	45.89	43.89	44.79	2100	FRONT	355766.125	6341427.424
617	46.01	45.88	43.88	44.78	2100	FRONT	355767.430	6341425.909
618	INSTALLED IN STAGE 3.5 CONSTRUCTION							
1017	42.31	42.18	40.18	41.08	2100	FRONT BATTER	355664.211	6341413.855
610W	43.97	43.84	41.84	42.74	2100	REAR	355651.952	6341462.558
1018	40.30	40.17	38.17	39.07	2100	REAR	355667.780	6341367.865



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

WASTEWATER COLLECTION TANK COUNT

LOT	EASTING	NORTHING	TOP OF LID R.L.
601	355728.191	6341394.231	44.773
602	355727.087	6341395.631	44.831
603	355714.003	6341408.219	45.017
604	355692.528	6341407.878	43.644
605	355698.533	6341376.502	42.334
606	355663.049	6341394.313	41.832
607	355667.064	6341414.114	43.031
608	355676.853	6341439.843	45.128
609	355675.511	6341441.014	45.18
610	355671.423	6341482.58	45.132
611	355697.455	6341488.443	46.103
612	355720.395	6341469.103	46.55
613	355720.395	6341469.103	46.55
614	355744.487	6341448.946	46.386
615	355745.977	6341447.542	46.402
616	355766.139	6341427.42	46.124
617	355767.608	6341425.745	46.14
618	completed in prev. stage		
1017	355664.01	6341413.775	42.684
610w	355651.911	6341462.616	44.061
1018	355667.642	6341367.713	40.527

TANK SIZE	NUMBER OF
2100	17
2400	2
2700	1

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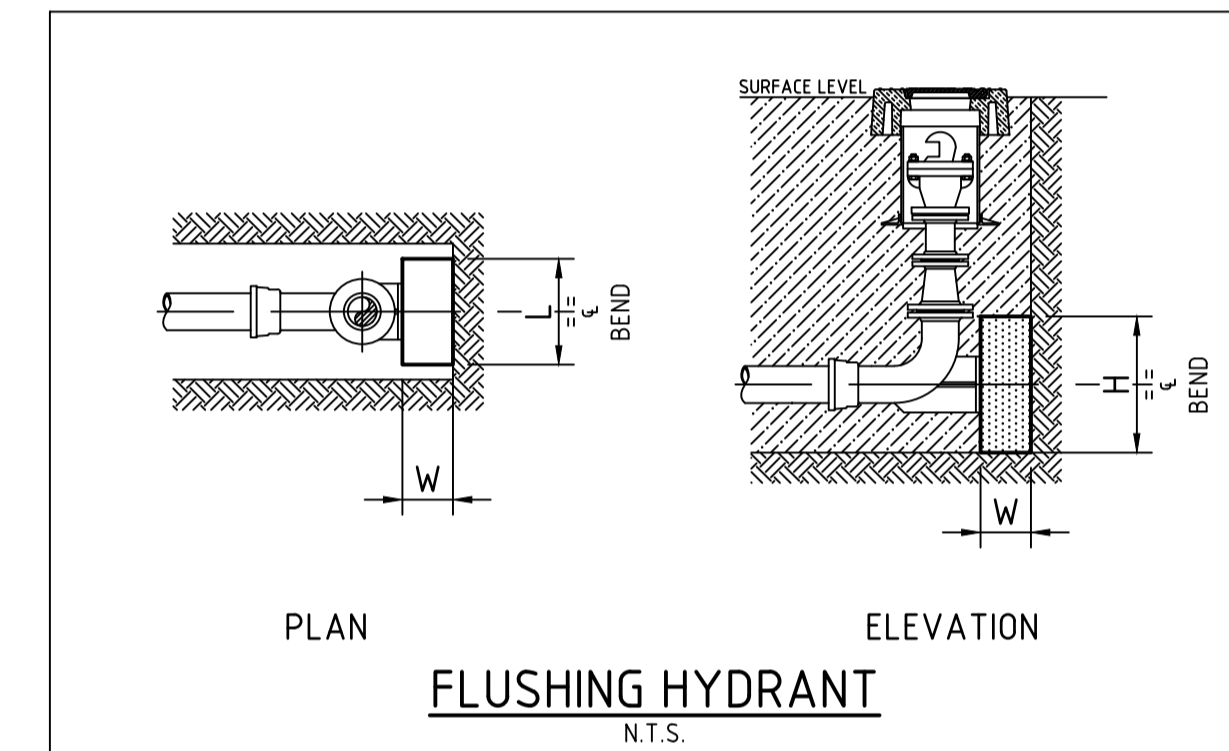
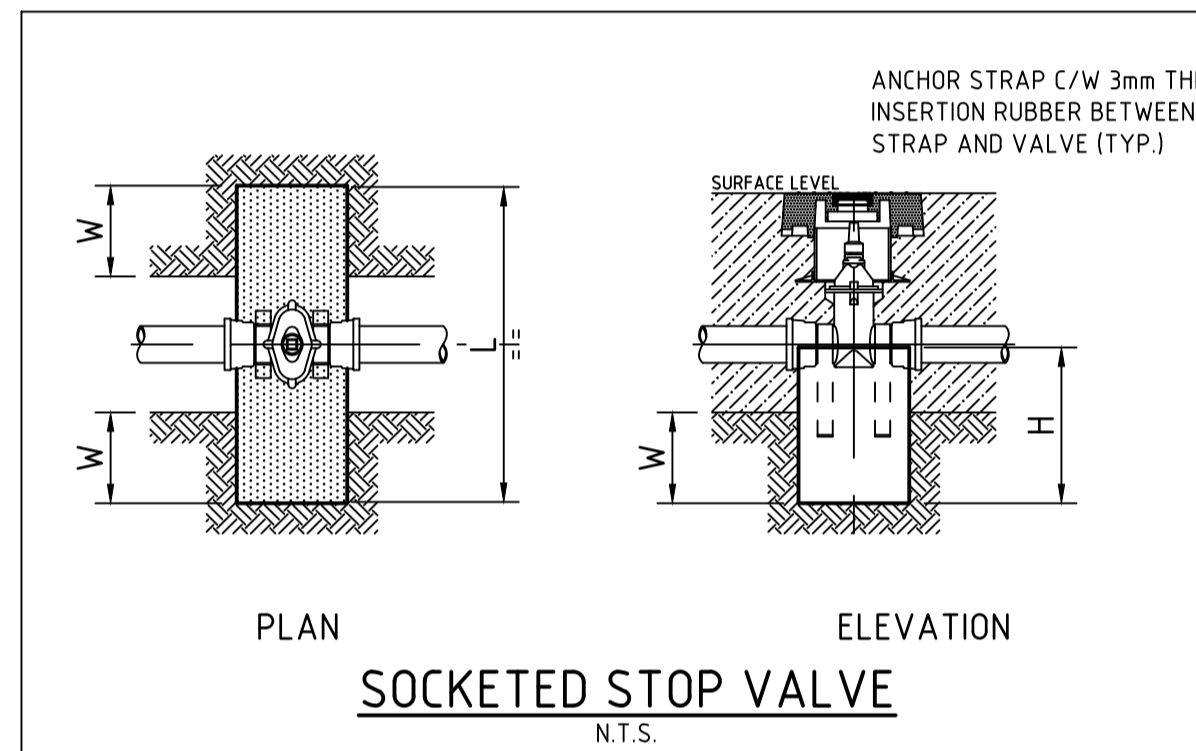
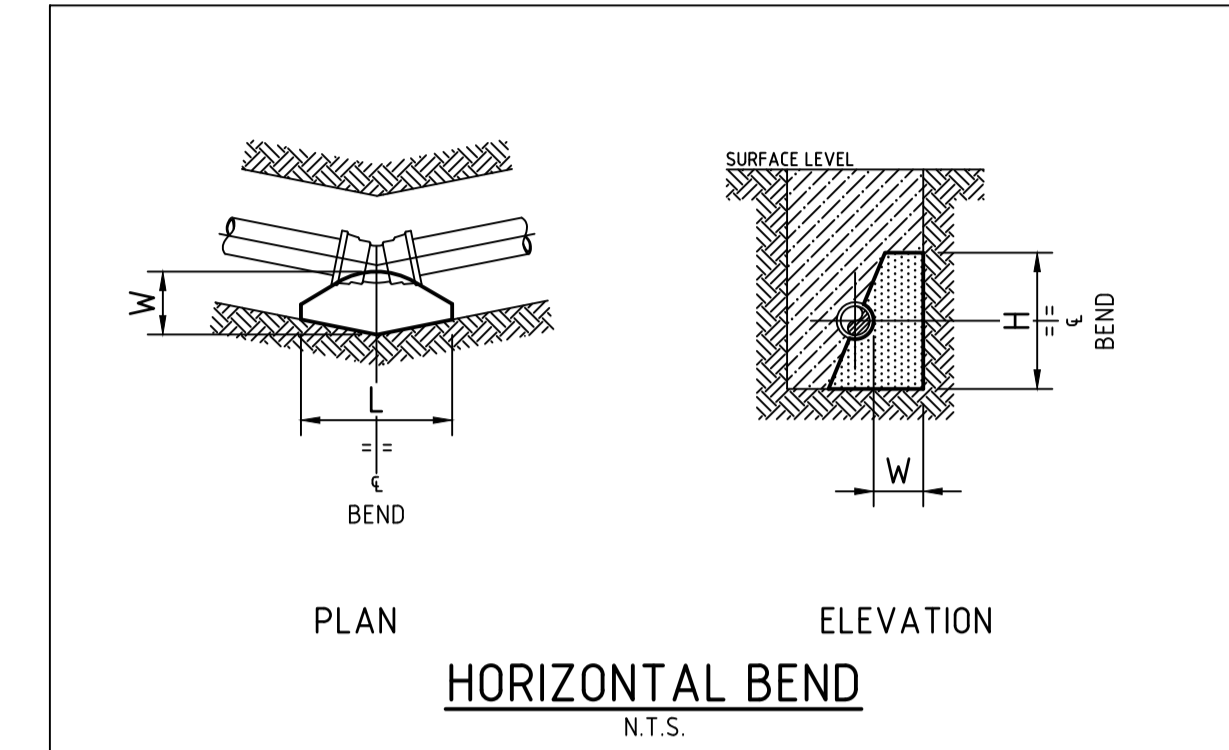
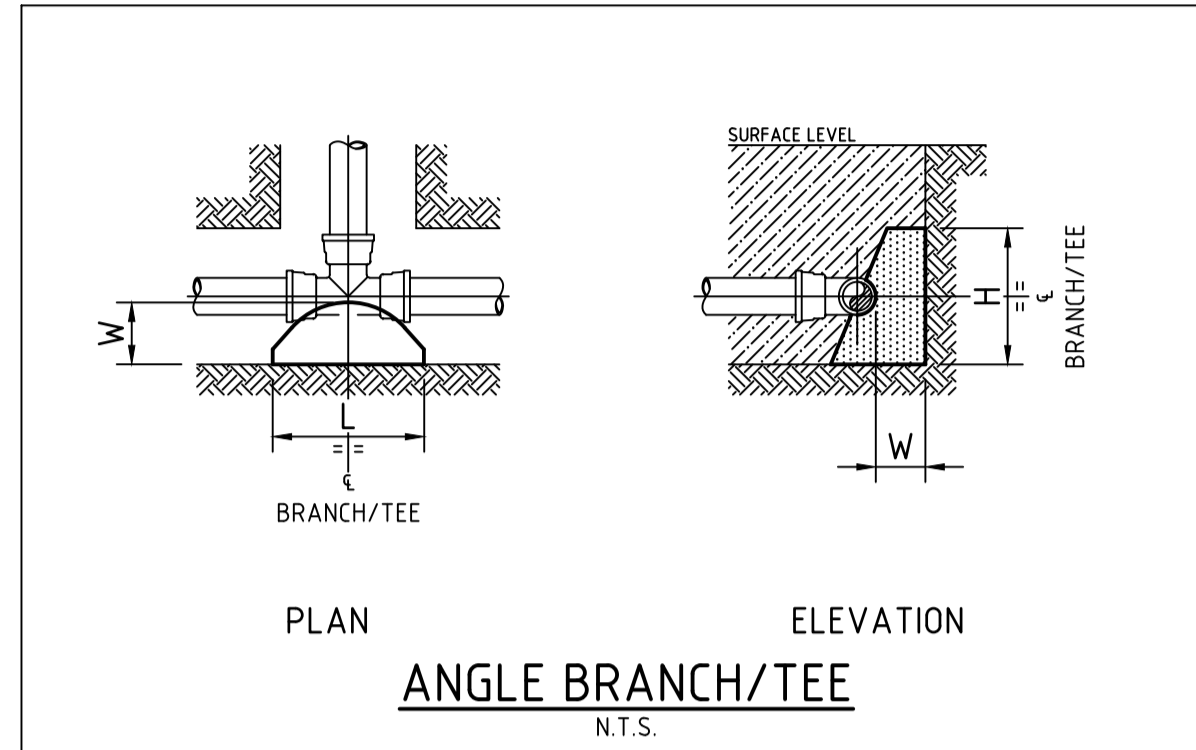


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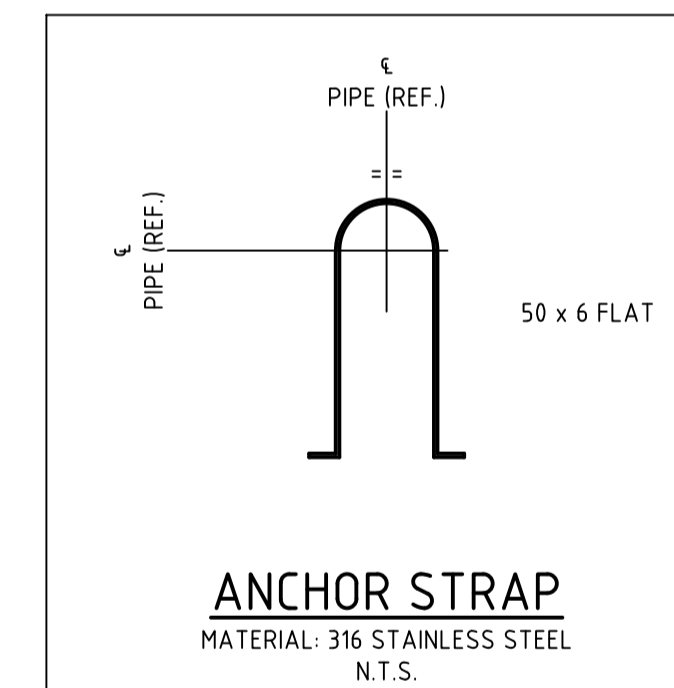
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THRUST BLOCK NOTES:

- "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.
- THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
- REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.
- THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.
- PROVIDE 3mm THK. INSERTION RUBBER BETWEEN ANCHOR STRAP AND PIPE BARREL.



TYPE	FITTING	SOIL AHBP (kPa)	DESIGN STP (kPa)	THRUST	TA (m ²)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN100 x DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.4	0.30
2	DN100 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30
3	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
4	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.4	0.30



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