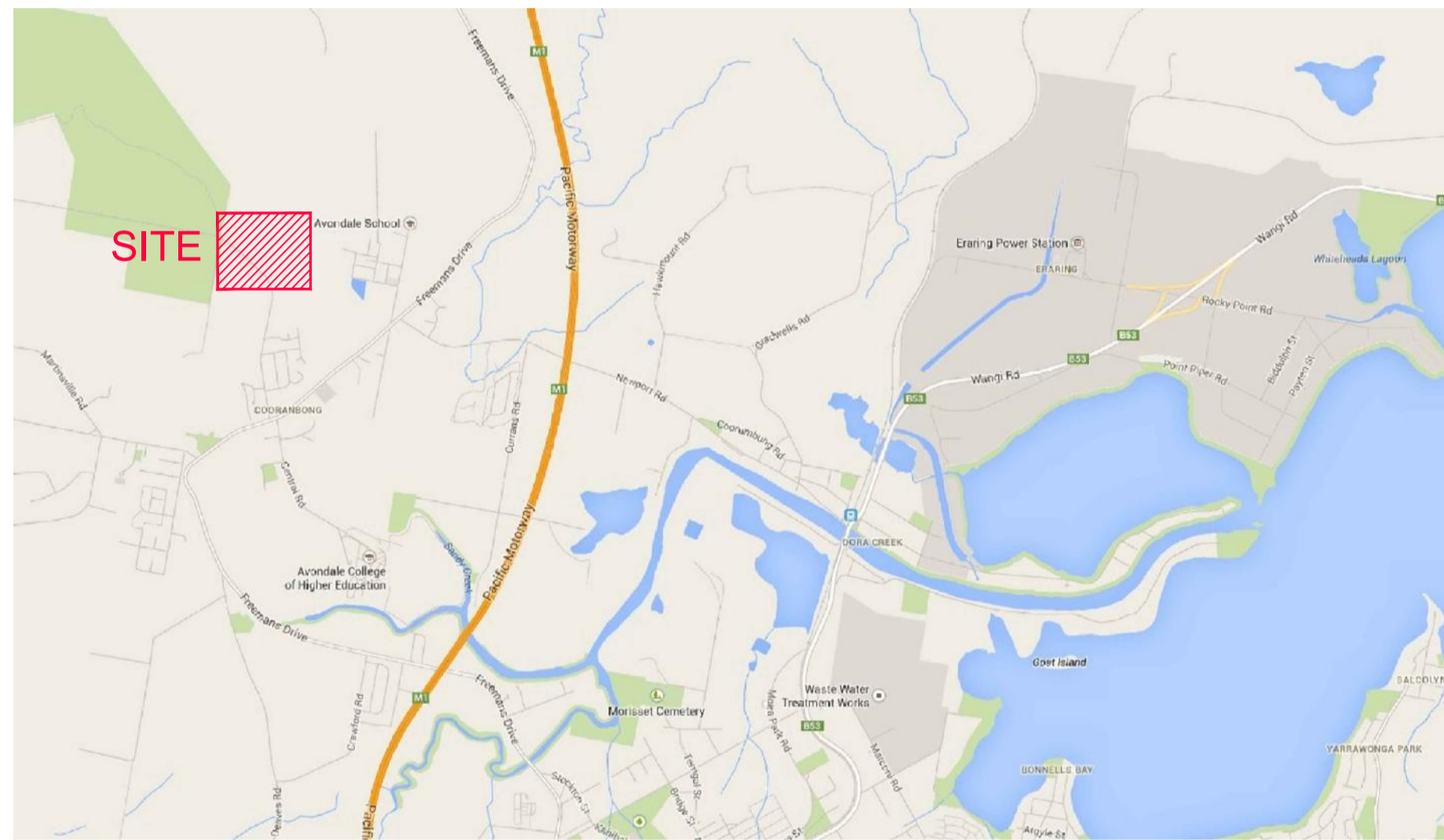
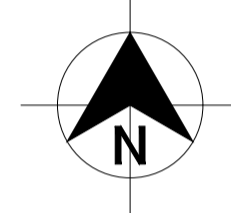




DIAL 1100
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POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
239078(2.1 & 2.2)-WAT-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
239078(2.1 & 2.2)-WAT-002	GENERAL NOTES
239078(2.1 & 2.2)-WAT-003	OVERALL SITE PLAN
239078(2.1 & 2.2)-WAT-004	POTABLE WATER DETAIL PLAN - SHEET 1
239078(2.1 & 2.2)-WAT-005	POTABLE WATER DETAIL PLAN - SHEET 2
239078(2.1 & 2.2)-WAT-006	POTABLE WATER DETAIL PLAN - SHEET 3
239078(2.1 & 2.2)-WAT-007	POTABLE WATER DETAIL PLAN - SHEET 4
239078(2.1 & 2.2)-WAT-008	POTABLE WATER DETAIL PLAN - SHEET 5
239078(2.1 & 2.2)-WAT-009	NOT USED
239078(2.1 & 2.2)-WAT-010	NOT USED
239078(2.1 & 2.2)-WAT-011	NOT USED
239078(2.1 & 2.2)-WAT-012	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(2.1 & 2.2)-WAT-013	RECYCLED WATER DETAIL PLAN - SHEET 2
239078(2.1 & 2.2)-WAT-014	RECYCLED WATER DETAIL PLAN - SHEET 3
239078(2.1 & 2.2)-WAT-015	RECYCLED WATER DETAIL PLAN - SHEET 4
239078(2.1 & 2.2)-WAT-016	RECYCLED WATER DETAIL PLAN - SHEET 5
239078(2.1 & 2.2)-WAT-017	NOT USED
239078(2.1 & 2.2)-WAT-018	NOT USED
239078(2.1 & 2.2)-WAT-019	NOT USED
239078(2.1 & 2.2)-WAT-020	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(2.1 & 2.2)-WAT-021	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(2.1 & 2.2)-WAT-022	PRESSURE SEWER DETAIL PLAN - SHEET 3
239078(2.1 & 2.2)-WAT-023	PRESSURE SEWER DETAIL PLAN - SHEET 4
239078(2.1 & 2.2)-WAT-024	PRESSURE SEWER DETAIL PLAN - SHEET 5
239078(2.1 & 2.2)-WAT-025	LONGITUDINAL SECTION - PRESSURE SEWER MAIN
239078(2.1 & 2.2)-WAT-026	NOT USED
239078(2.1 & 2.2)-WAT-027	NOT USED
239078(2.1 & 2.2)-WAT-028	TYPICAL PIPEWORK TRENCHING DETAILS
239078(2.1 & 2.2)-WAT-029	PIPEWORK CONNECTION DETAILS
239078(2.1 & 2.2)-WAT-030	TYPICAL SERVICE CONNECTION DETAILS
239078(2.1 & 2.2)-WAT-031	WASTEWATER COLLECTION TANK LEVEL DETAILS
239078(2.1 & 2.2)-WAT-032	ROAD CROSS SECTIONS - SHEET 1
239078(2.1 & 2.2)-WAT-033	ROAD CROSS SECTIONS - SHEET 2
239078(2.1 & 2.2)-WAT-034	ROAD CROSS SECTIONS - SHEET 3
239078(2.1 & 2.2)-WAT-035	ROAD CROSS SECTIONS - SHEET 4
239078(2.1 & 2.2)-WAT-036	THRUST BLOCK DETAILS

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION		PROJECT					
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		 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	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION					
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.				PLAN TITLE COVER SHEET, LOCALITY PLAN AND DRAWING INDEX		PROJECT No. 239078(2.1 & 2.2) - DISCIPLINE WAT - NUMBER 001 - REV. WAC					
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.				SURVEYED ADW Johnson						DATUM A.H.D.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.											
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.											



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GENERAL NOTES:

- THIS DRAWING SET WAS READ IN CONJUNCTION WITH LAKE MACQUARIE CITY COUNCIL STANDARDS AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR LOCATED AND IDENTIFIED ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND REPAIRED ANY DAMAGE CAUSED TO SUCH SERVICES DURING CONSTRUCTION.
- ALL PRODUCTS AND MATERIALS WERE NEW, AND COMPLIED WITH THE RELEVANT AUSTRALIAN STANDARDS AND WERE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND MATERIALS REGISTER.
- DURING CONSTRUCTION ALL OPEN ENDS OF PIPES WERE CAPPED TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL MAINS WERE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS WERE PROVIDED TO COORANBONG WATER REQUIREMENTS.
- MAKE SMOOTH TRANSITION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) TO LAKE MACQUARIE CITY COUNCIL AND SUPERINTENDENT'S SATISFACTION.
- SUITABLE PROTECTION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) WAS PROVIDED DURING DURATION OF CONSTRUCTION.
- CLEAR VEHICULAR ACCESS TO ADJOINING PROPERTIES WAS MAINTAINED AT ALL TIMES FOR DURATION OF CONSTRUCTION. FOR ANY WORKS IN ADJOINING PROPERTIES, PERMISSION WAS OBTAINED PRIOR TO COMMENCEMENT.
- SERVICE CONDUITS WERE LAID AS DIRECTED BY THE SUPERINTENDENT/RELEVANT SERVICE AUTHORITY. LOCATE CLEAR OF VEHICULAR ACCESS LOCATIONS AND PROVIDE KERB MARKING AS PER COUNCIL REQUIREMENTS.
- WHERE LOT FILLING EXCEEDS 300mm, A SURVEY OF THE STRIPPED SURFACE AND FINAL FILLED SURFACE WAS UNDERTAKEN BY THE CONTRACTOR, WITH FILL DEPTHS NOTED ON W.A.C. PLANS.
- THE CONTRACTOR PROVIDED COORANBONG WATER WITH M.G.A. COORDINATED WORK AS CONSTRUCTED INFORMATION. BURIED FITTINGS WERE NOT BACKFILLED UNTIL WORK AS CONSTRUCTED DETAILS HAD BEEN OBTAINED AND APPROVAL FOR BACKFILLING WAS GIVEN BY THE COORANBONG WATER REPRESENTATIVE.
- ANY WORKS NOT COVERED BY THE SPECIFICATION OR THIS DRAWING SET WERE REFERRED TO THE SUPERINTENDENT.
- THE CONTRACTOR PROVIDED COORANBONG WATER AND HUNTER WATER WITH A MINIMUM OF 7 DAYS NOTICE (IN WRITING) OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
- ALL PIPE BEDDING MATERIAL COMPLIED WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA PS351.

POTABLE WATER AND RECYCLED WATER NOTES:

- ALL WORKS ARE IN ACCORDANCE WITH BUT NOT LIMITED TO, WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION 2012) AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
- WORKS WERE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, CONSTRUCTION SPECIFICATION, WSA 03 PART 2 - CONSTRUCTION AND WSA 03 STANDARDS DRAWINGS AND WSA STANDARD DRAWINGS (SYDNEY WATER VERSION) OR AS MODIFIED BY FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA, CURRENT AT THE TIME OF CONSTRUCTION.
- CLEARANCES SHOWN TO OTHER PIPES HAVE BEEN CALCULATED FROM THE COLLAR.
- ALL PRODUCTS AND MATERIALS WERE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND MATERIALS REGISTER.
- HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS ARE THE SAME SIZE AS THE THROUGH WATER MAIN. ALL POTABLE & RECYCLED WATER VALVES ARE ANTI CLOCKWISE CLOSING.
- HYDRANTS WERE NOT BE POSITIONED IN DRIVEWAYS OR TAPPING POINTS. HYDRANTS NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES.
- ALL PIPES AND FITTINGS ARE AT HWC PREFERRED MINIMUM COVER (WAT-1201-V).
 - FOOTWAYS - 0.6m TYPE B EMBEDMENT WAT-1202.
 - ROADWAYS - 0.75m TYPE L EMBEDMENT WAT-1204-V.
- LAI D DETECTABLE MARKING TAPE OVER ALL MAINS AND PROPERTY SERVICE LINES AS PER WAT-1854-S AND WAT-1855-S ENSURING A CONTINUOUS ELECTRICAL PATHWAY ALONG THE TRACE WIRE ON EACH SERVICE FROM PROPERTY METERS TO AND ALONG THE RELEVANT MAIN TO HYDRANTS AND VALVES.
- GEOTECHNICAL CONDITIONS WERE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH COORANBONG WATER SUPERINTENDENT TO DETERMINE MODIFICATIONS TO EMBEDMENT/TRENCH TYPE AND TRENCH DRAINAGE/BULKHEAD REQUIREMENTS.
- ALL POTABLE WATERMAINS ARE PLAIN BLUE PVC-M (PN16).
- ALL RECYCLED WATERMAINS ARE LILAC PVC-M (PN16).
- DIFFERENTIATION OF DRINKING (POTABLE) AND NON-DRINKING (RECYCLED) WATER SYSTEMS ARE AS PER WSA 03-2011, TABLE 4.1 WITH BOTH SERVICES BEING CLASSIFIED AS WATERMAINS. RECYCLED WATERMAIN ARE LOWER THAN POTABLE WATERMAIN WITH MINIMUM 150mm VERTICAL CLEARANCE.
- THRUST BLOCK DETAILS REFER TO DRG-027.
- PROPERTY SERVICE CONNECTIONS WERE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS(SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011) AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
 - WAT-1853-S.
 - WAT-1854-FS.
 - WAT-1855-FS.
 - WAT-1856-S.
- PROPERTY SERVICE CONNECTIONS WERE INSTALLED BY A LICENSED PLUMBER AND COMPLY WITH N.S.W. CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZ 3500.
- ALL MATERIALS USED IN PROPERTY SERVICES WERE IN ACCORDANCE WITH N.S.W. CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZ 3500 (MINIMUM PN15), PE 80 B, PN16.
- ALL PROPERTY SERVICE PIPES FOR RECYCLED WATER ARE COLOURED BLACK WITH LILAC (P23) LONGITUDINAL STRIPE TO AS 2700. WHERE NOMINAL PIPE SIZE IS SPECIFIED, AN EQUIVALENT PIPE SIZE APPROPRIATE TO THE MATERIAL BEING USED AS SPECIFIED IN AS 3500, TABLE 1.1, PE 80 B, PN16. ALL PROPERTY SERVICE PIPES FOR POTABLE WATER ARE COLOURED BLACK WITH BLUE LONGITUDINAL STRIPE TO A.S.2700.
- MAXIMUM PIPE COVER WAS 1500mm UNLESS SPECIFIED ON THE DESIGN DRAWINGS OR APPROVAL WAS FROM THE COORANBONG WATER REPRESENTATIVE.
- ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS WERE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- THE MINIMUM NUMBER OF COMPACTION TESTS ARE AS FOLLOWS:

TRAFFICABLE

 - PIPE EMBEDMENT ZONE: 1 TEST/CROSSING.
 - TRENCHFILL ZONE: 1 TEST/CROSSING.

NON-TRAFFICABLE

 - PIPE EMBEDMENT ZONE: 1 TEST/100m.
 - TRENCHFILL ZONE: 1 TEST/100m.

TESTING WAS IN ACCORDANCE WITH WATER SUPPLY CODE OF AUSTRALIA TABLES 16.1 AND 17.1.
- POTABLE AND RECYCLED WATERMAIN FITTINGS ARE STAGGERED.
- MAXIMUM JOINT DEFLECTIONS WERE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- EACH PROPERTY SERVICE CONNECTION WERE FLUSHED AND LOCKED FOLLOWING PRESSURE TESTING.
- SCOUR VALVES WERE CONNECTED TO LOCAL STORMWATER SYSTEM.
- POTABLE WATER IS TO BE UTILISED FOR FIRE FIGHTING PURPOSES.
- PRESSURE TRANSMITTER IS MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM AS PER COORANBONG WATER REQUIREMENTS.
- HYDRANT SURFACE BOXES ARE YELLOW (POTABLE WATER) AND LILAC (RECYCLED WATER).

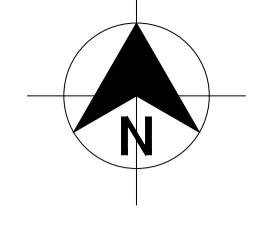
PRESSURE SEWER NOTES:

- ALL WORKS ARE IN ACCORDANCE WITH BUT NOT LIMITED TO PRESSURE SEWER CODE OF AUSTRALIA - WSA 07-2007, POLYETHYLENE PIPELINE CODE WSA 01-2004 AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
- WORKS WERE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS AND FLOW SYSTEMS STANDARD DRAWINGS REFERENCED IN FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA (TABLE 4.1)
 - FSI-1000-FS ON-LOT INFRASTRUCTURE INSTALLATION SET OUT DETAILS.
 - FSI-1001A-FS TYPICAL INFRASTRUCTURE STAGING DIAGRAM - TANK IN FRONT OF PROPERTY.
 - FSI-1001B-FS TYPICAL INFRASTRUCTURE STAGING DIAGRAM - TANK IN REAR OF PROPERTY.
 - FSI-1002-FS TYPICAL ON-LOT - WIRING DIAGRAM.
 - FSI-1003-FS TYPICAL WASTEWATER COLLECTION TANK CONTROL PANEL AND DMU ARRANGEMENT.
 - PSS-1004-FS WATER SERVICES DRAWING - EXAMPLE ONLY.
 - FSI-1005-FS INFRASTRUCTURE INSTALLATION RESPONSIBILITY.
 - PSS-1015-FS TYPICAL VALVE INSTALLATION ISOLATION.
 - PSS-1016A-FS STANDARD ABOVE GROUND AIR VALVE DETAILS.
 - PSS-1016B-FS STANDARD BELOW GROUND AIR VALVE DETAILS TO SUIT MAINS ≤ 90mm.
 - PSS-1017-FS FLUSHING POINTS.
 - PSS-1018-FS TYPICAL BRANCH CONNECTION DETAILS.
 - PSS-1111-FS TYPICAL ON PROPERTY LAYOUT AND SANITARY DRAINAGE DETAILS.
 - PSS-1112-FS PROPERTY BOUNDARY ASSEMBLY TYPICAL INSTALLATION.
 - PSS-1113-FS WASTEWATER COLLECTION TANK INSTALLATION REQUIREMENTS.
 - PSS-1114-FS POOL AND SPA DRAINAGE CONNECTION REQUIREMENTS.
 - WAT-1854-FS DUAL WATER RETICULATION SYSTEM SINGLE PROPERTY SERVICES PRE-LAID IN FOOTWAYS.
 - WAT-1855-FS DUAL WATER RETICULATION SYSTEM SPLIT PROPERTY SERVICES PRE-LAID IN FOOTWAYS.
- PRESSURE SEWER MAINS ARE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007.
- ALL POLYETHYLENE MAINS WERE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS WERE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- ALL BENDS ARE ELECTROFUSION SWEEP BENDS
- ALL HOUSE SERVICE LATERALS ARE DN40 PE 100 PN16.
- DETECTABLE MARKING TAPE WAS LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ROADWAYS, PATHS) HAVE HEAVY DUTY SURROUNDS INSTALLED.
- ALL PRESSURE SEWER VALVES ARE RESILIENT SEATED SLUICE GATE VALVES (CLOCKWISE CLOSING) AND WERE RESTRAINED IN ACCORDANCE WITH WAT-1207.
- ALL MAINS WERE TESTED (AS DIRECTED BY THE COORANBONG WATER REPRESENTATIVE) TO MEET CERTIFYING AUTHORITIES STANDARDS. ALL PRESSURE SEWER MAINS AND JOINTS WERE TESTED TO 1600kPa.
- FOR LOTS WITH TANKS IN THE REAR.
 - PROVIDED ø25 HEAVY DUTY ELECTRICAL CONDUIT (WITH DRAW WIRE) INSTALLED FROM THE COLLECTION TANK TO THE RECYCLED WATER METER.
 - PROVIDED ø25 HEAVY DUTY ELECTRICAL CONDUIT (WITH DRAW WIRE) INSTALLED FROM THE COLLECTION TANK TO THE POTABLE WATER METER.

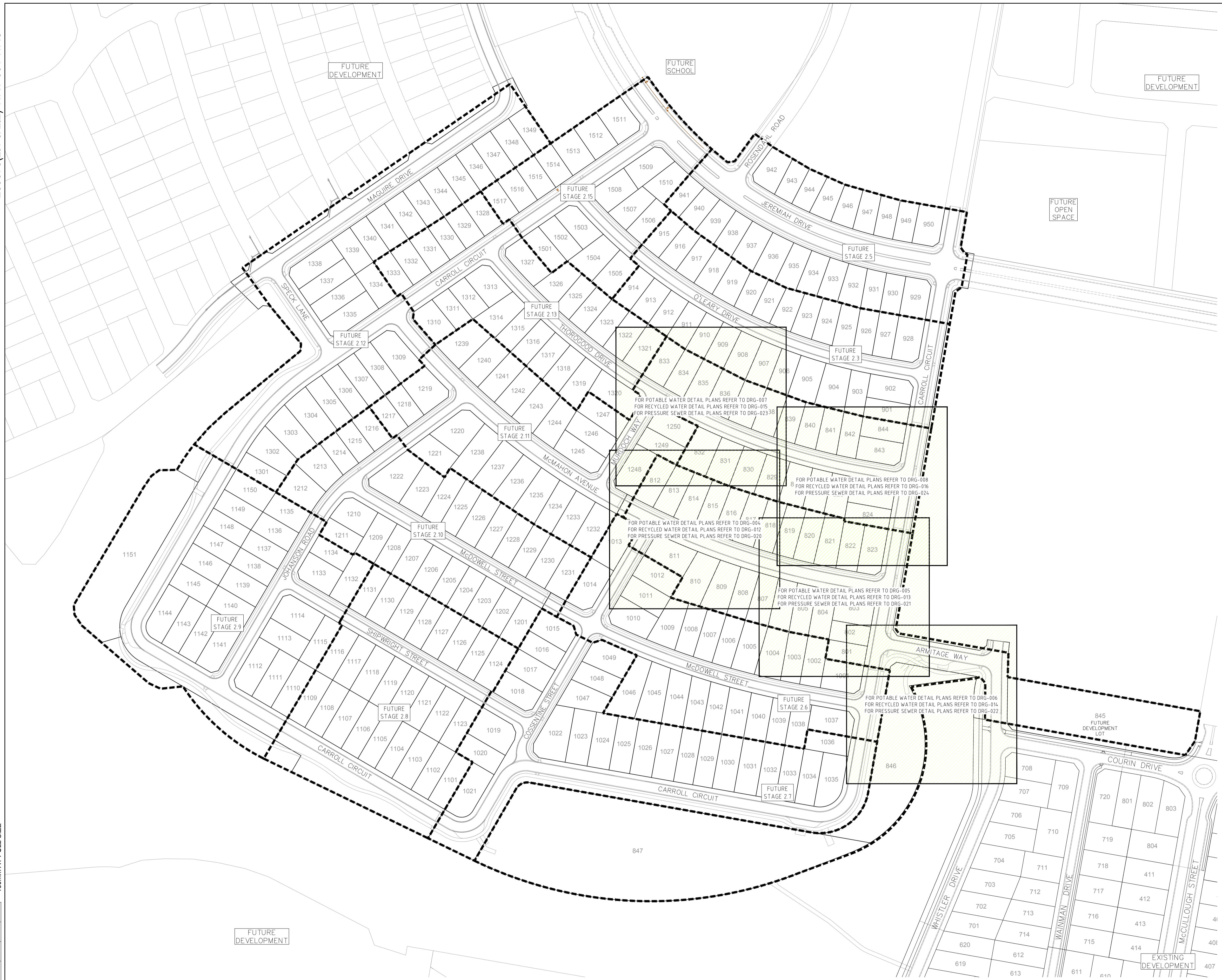
CONDUITS WERE LAID IN COMMON TRENCH WITH PRESSURE SEWER PIPEWORK. (REFER TO TYPICAL CONNECTION DETAIL, DRG-030).
- PRESSURE TRANSMITTER WAS INSTALLED AT SPECIFIC POINTS ARE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM AS PER COORANBONG WATER REQUIREMENTS.
- CONTRACTOR ENSURED THAT AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT IN THE MAIN. (I.E. THE MAIN GRADED DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- FOR EMBEDMENT AND TRENCHFILL COMPACTION TEST REQUIREMENTS REFER TO THE PRESSURE SEWER CODE OF AUSTRALIA - SECTION 21.3. (REFER TO NOTE 9, POTABLE WATER AND RECYCLED WATER NOTES).
- NOT REQUIRED

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		<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>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>GENERAL NOTES</p>	<p>239078(2.1 & 2.2)</p>	<p>- WAT -</p>	<p>002</p>	<p>WAC</p>	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.											
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.											
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.											
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.											
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									



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PLAN
SCALE 1:1500

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.		J.N.	B.K.	

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
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CLIENT

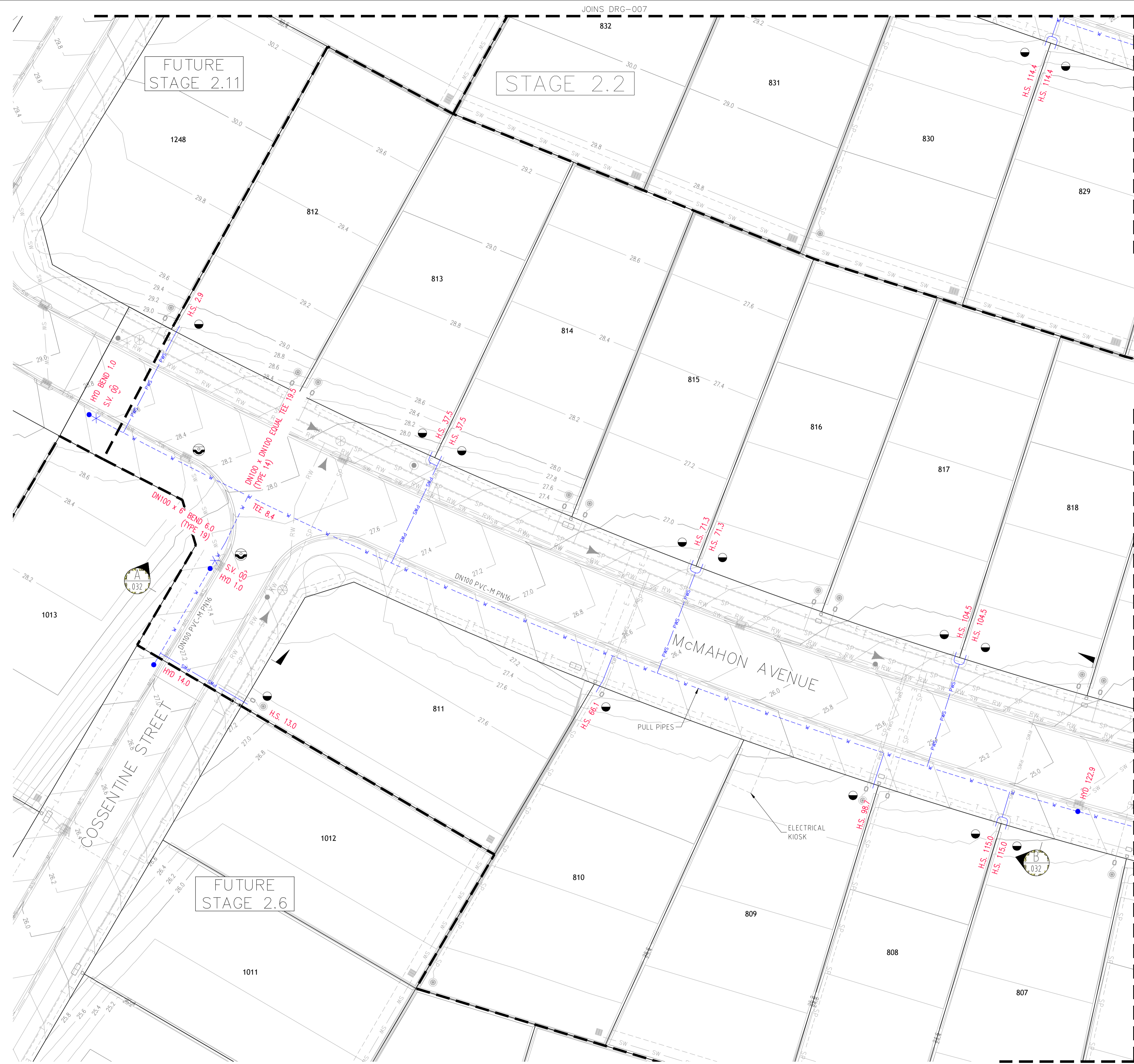
JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

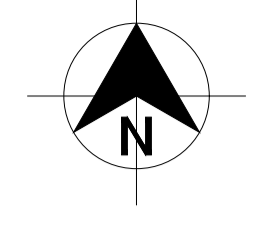
PROPOSED SUBDIVISION
PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
WHISTLER DRIVE, COORANBONG
DA/307/2015

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.
239078(2.1 & 2.2)	- WAT -	003	WAC



PLAN SCALE 1:250



LEGEND

W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
PWTM	DN200 PVC-M POTABLE WATER TRANSFER MAIN
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
SP	PE PRESSURE SEWER RETICULATION
PSM	PE PRESSURE SEWER MAIN
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
SV	STOP VALVE
HYD	HYDRANT
FL HYD	FLUSHING HYDRANT
●	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- - -	SUBDIVISION STAGE BOUNDARIES

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 45 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 2 x SHORT SIDE
 - 5 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 7 x SHORT SIDE
 - 12 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN200	PVC-M PN16	119.2
DN100	PVC-M PN16	672.6

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 016.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

WORK-AS-CONSTRUCTED

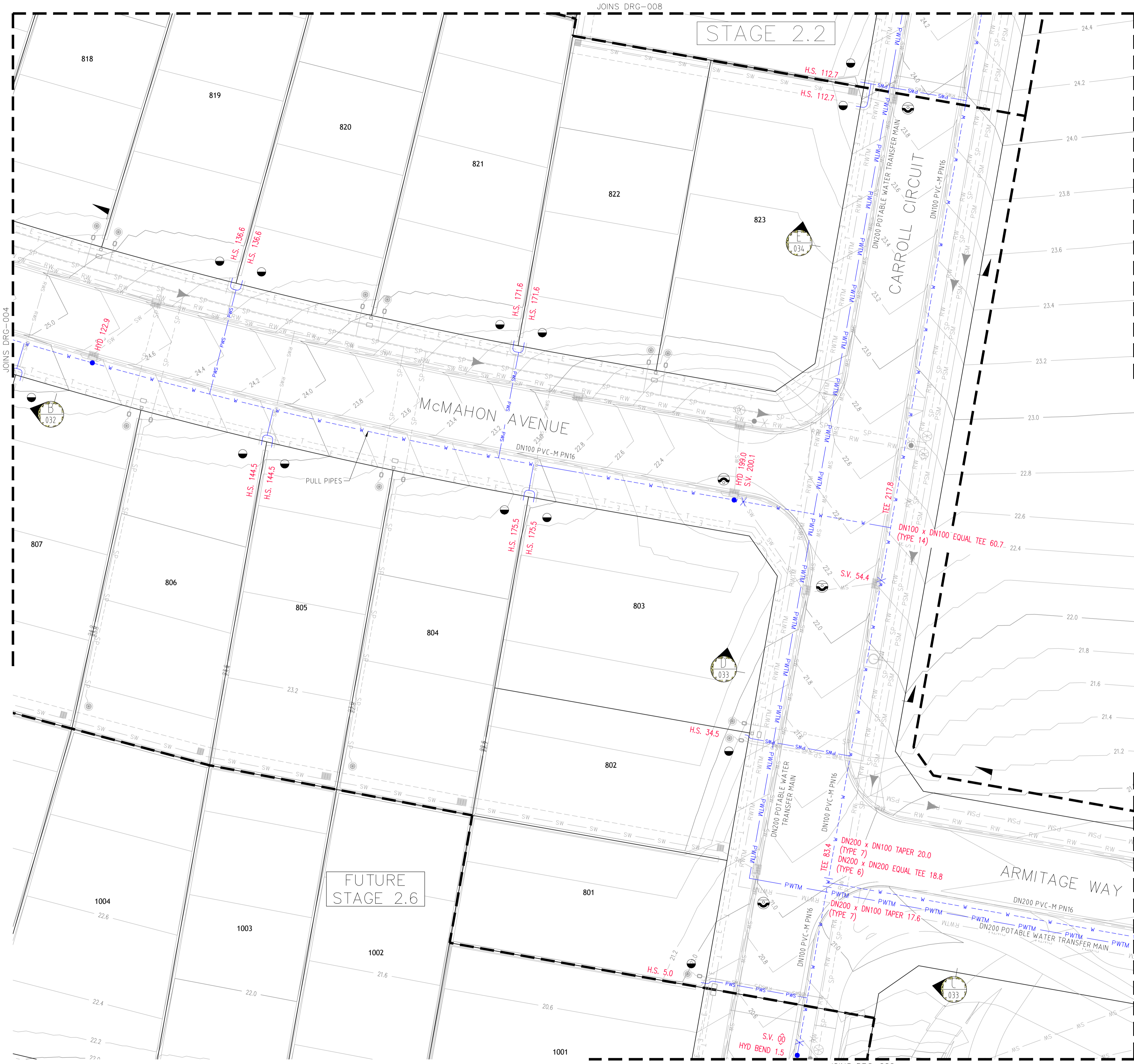
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.	

Hunter Office
 Unit 7/335 Hillsborough Rd
 Warners Bay N.S.W. 2282
 Phone: (02) 4978 5100
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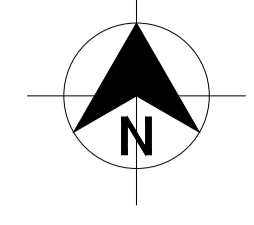
CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.1 & 2.2)	- WAT -	004	WAC



PLAN
SCALE 1:250



LEGEND

W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
PWTM	DN200 PVC-M POTABLE WATER TRANSFER MAIN
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
SP	PE PRESSURE SEWER RETICULATION
PSM	PE PRESSURE SEWER MAIN
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
SV	STOP VALVE
HYD.	HYDRANT
FL HYD.	FLUSHING HYDRANT
●	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- - -	SUBDIVISION STAGE BOUNDARIES

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 45 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 2 x SHORT SIDE
 - 5 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 7 x SHORT SIDE
 - 12 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN200	PVC-M PN16	119.2
DN100	PVC-M PN16	672.6

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.	L.G.	J.N.	B.K.

SCALES
0 5 10 A1 / A3 1:250 / 1:500

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

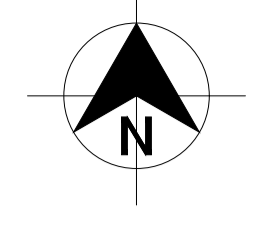
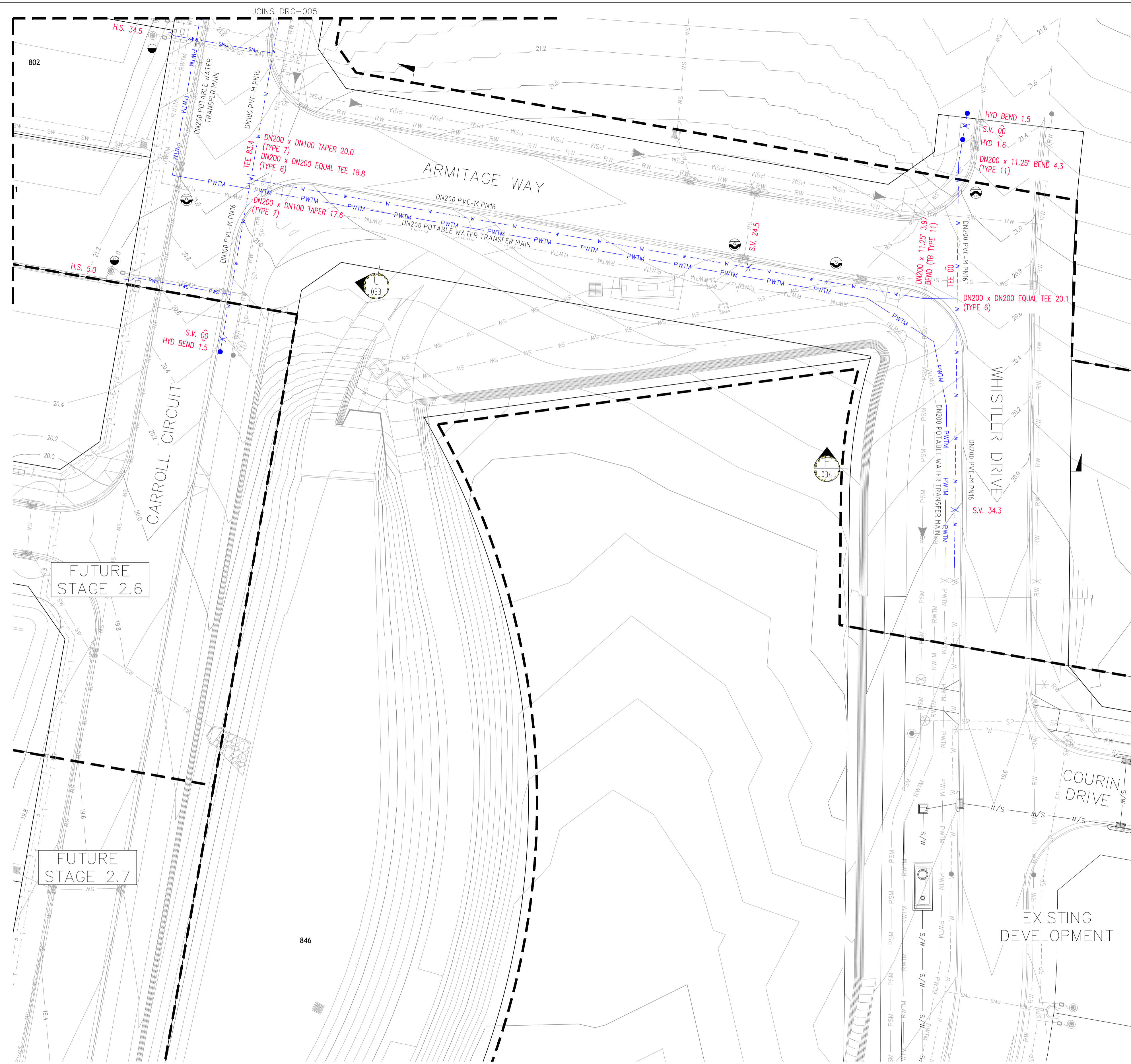
adw Johnson

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

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
WHISTLER DRIVE, COORANBONG
DA/307/2015

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.1 & 2.2)	- WAT -	005	WAC



LEGEND

W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
PWTM	DN200 PVC-M POTABLE WATER TRANSFER MAIN
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
RTWM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
SP	PE PRESSURE SEWER RETICULATION
PSM	PE PRESSURE SEWER MAIN
TELSTRA	TELSTRA
UG POWER	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
SV	STOP VALVE
HYD	HYDRANT
FL HYD	FLUSHING HYDRANT
●	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- - -	SUBDIVISION STAGE BOUNDARIES

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 45 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 2 x SHORT SIDE
 - 5 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 7 x SHORT SIDE
 - 12 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN200	PVC-M PN16	119.2
DN100	PVC-M PN16	672.6

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 016.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

PLAN
SCALE 1:250

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.	

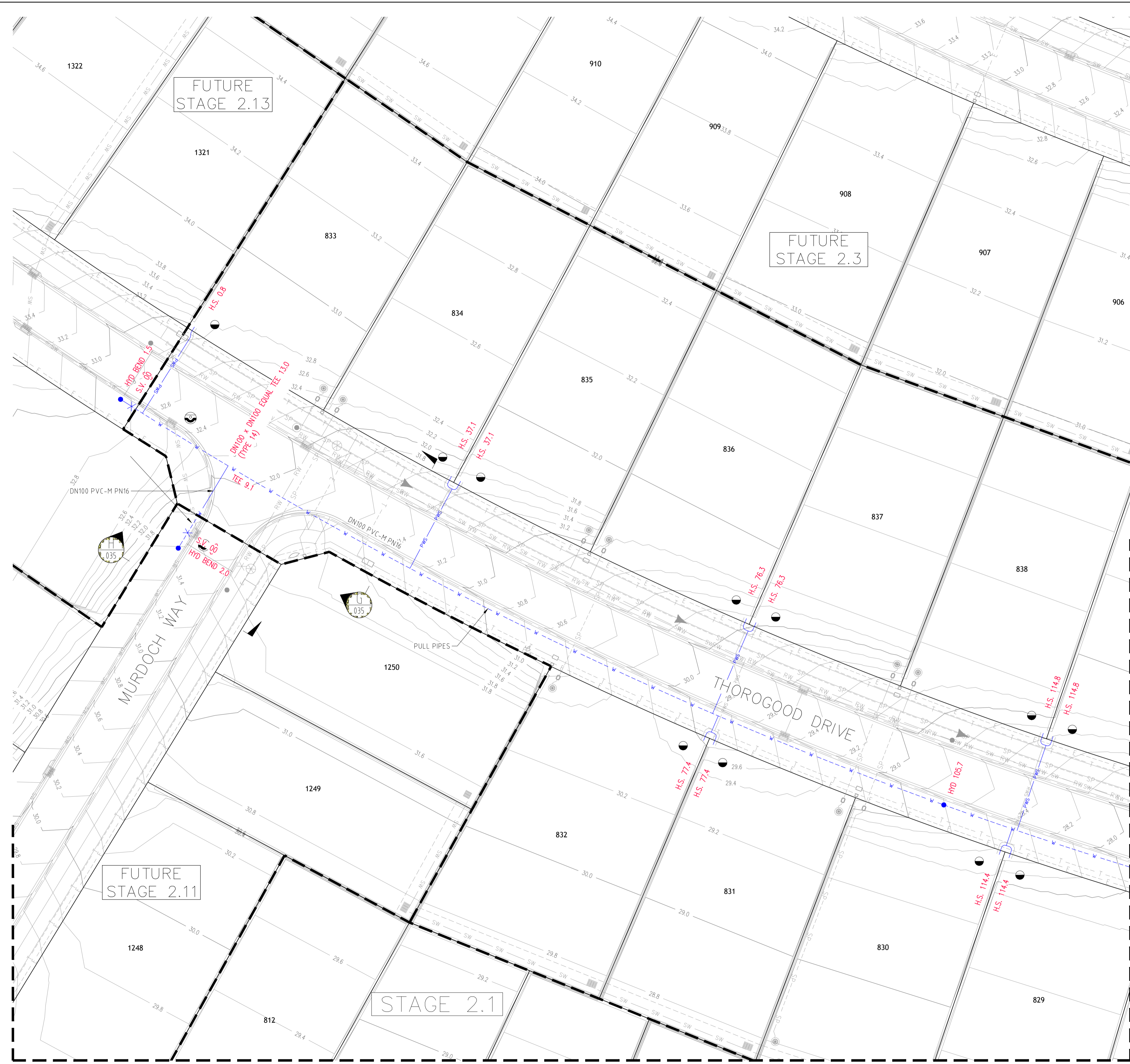
Hunter Office
 Unit 7/335 Hillsborough Rd
 Warners Bay N.S.W. 2282
 Phone: (02) 4978 5100
 Fax: (02) 4978 5199
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 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 3		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.1 & 2.2)	- WAT -	006	WAC



LEGEND

	W	PVC-M POTABLE WATER RETICULATION
	PWS	POTABLE WATER PROPERTY SERVICE
	PWTM	DN200 PVC-M POTABLE WATER TRANSFER MAIN
	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
	SP	PE PRESSURE SEWER MAIN
	PSM	PE PRESSURE SEWER MAIN
	T	TELSTRA
	E	UNDERGROUND POWER
	S/W	STORMWATER PIPEWORK
	SV	STOP VALVE
	HYD	HYDRANT
	FL HYD	FLUSHING HYDRANT
		PROPERTY SERVICE CONNECTION
		LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
		LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
		SUBDIVISION STAGE BOUNDARIES

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 45 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 2 x SHORT SIDE
 - 5 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 7 x SHORT SIDE
 - 12 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN200	PVC-M PN16	119.2
DN100	PVC-M PN16	672.6

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 016.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

JOINS DRG-004

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.

SCALES	
	A1 / A3 1:250 / 1:500

adw Johnson

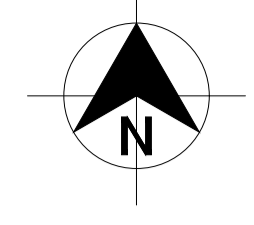
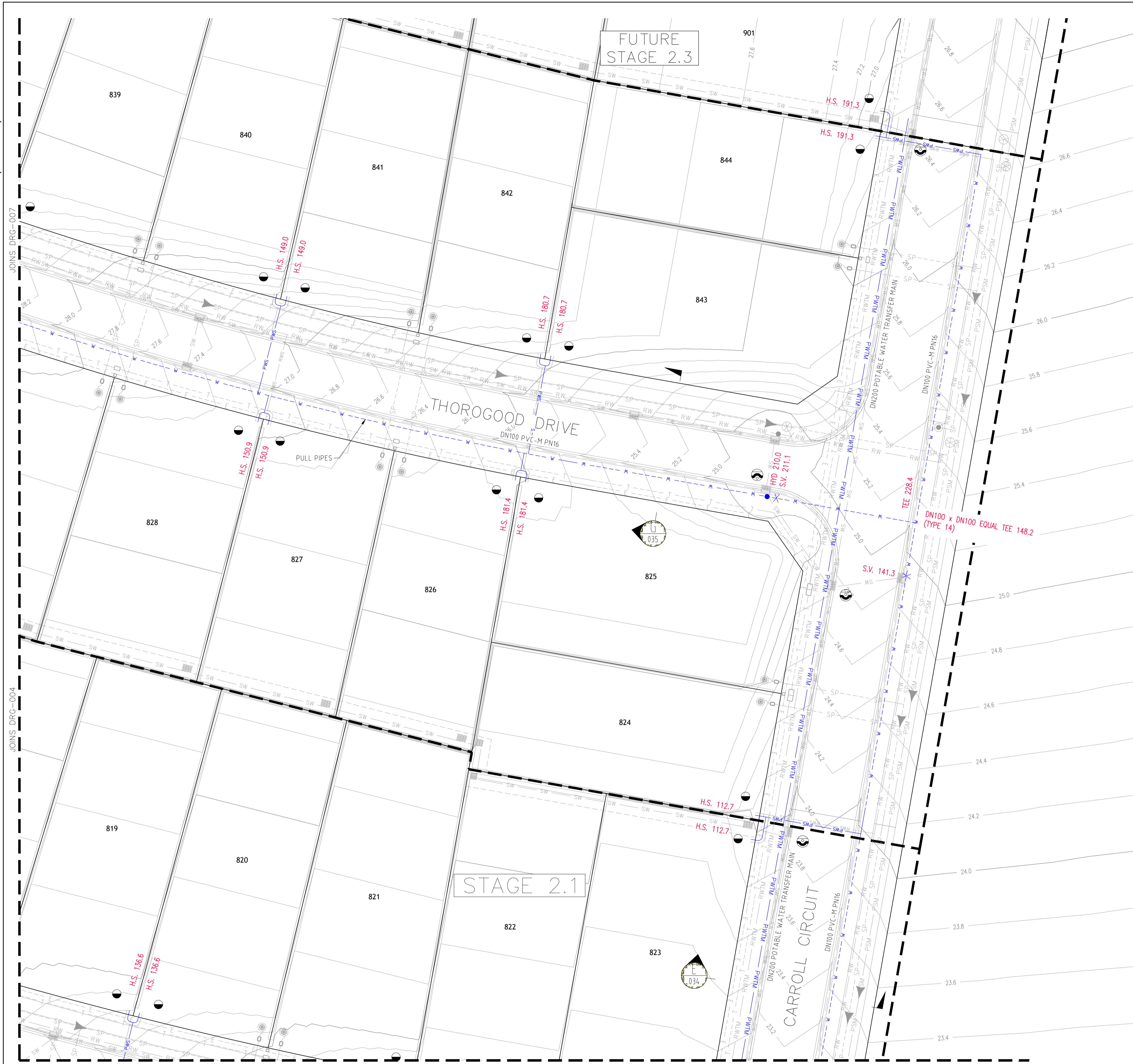
Hunter Office
 Unit 7/335 Hillsborough Rd
 Warners Bay N.S.W. 2282
 Phone: (02) 4978 5100
 Fax: (02) 4978 5199
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JOHNSON PROPERTY GROUP

CLIENT

PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015

PROPERTY DESCRIPTION		PROJECT	
PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
SURVEYED		DATUM	
ADW Johnson		A.H.D.	
PROJECT No.		DISCIPLINE	
239078(2.1 & 2.2)		- WAT -	
NUMBER		REV.	
007		WAC	



LEGEND

W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
PWTM	DN200 PVC-M POTABLE WATER TRANSFER MAIN
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
SP	PE PRESSURE SEWER RETICULATION
PSM	PE PRESSURE SEWER MAIN
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
SV	STOP VALVE
HYD	HYDRANT
FL HYD	FLUSHING HYDRANT
●	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- - -	SUBDIVISION STAGE BOUNDARIES

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 45 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 2 x SHORT SIDE
 - 5 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 7 x SHORT SIDE
 - 12 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN200	PVC-M PN16	119.2
DN100	PVC-M PN16	672.6

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

PLAN SCALE 1:250

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
4	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.		J.N.	B.K.	

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

JOHNSON PROPERTY GROUP

CLIENT

PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015

PROPERTY DESCRIPTION	PROJECT
	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
SURVEYED	PLAN TITLE
ADW Johnson	POTABLE WATER DETAIL PLAN - SHEET 5
DATUM	PROJECT No.
A.H.D.	239078(2.1 & 2.2) - WAT -
	NUMBER
	008
	REV.
	WAC



DIAL 1100
BEFORE YOU DIG

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.		
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		 <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>JOHNSON PROPERTY GROUP</p>	<p>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	NOT USED	239078(2.1 & 2.2)	- WAT -	009	WAC		
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.												
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.												
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.												
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.	L.G.	J.N.	B.K.												
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											



DIAL 1100
BEFORE YOU DIG

WORK-AS-CONSTRUCTED

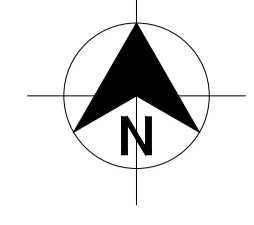
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		 <p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	 <p>JOHNSON PROPERTY GROUP</p>	<p>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	NOT USED	239078(2.1 & 2.2)	- WAT -	010	WAC	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.											
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.											
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.											
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.	L.G.	J.N.	B.K.											
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									



DIAL 1100
BEFORE YOU DIG

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.		
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		 <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>JOHNSON PROPERTY GROUP</p>	<p>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	NOT USED	239078(2.1 & 2.2)	- WAT -	011	WAC		
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.												
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.												
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.												
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.	L.G.	J.N.	B.K.												
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											



LEGEND

	RW	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RWS	RECYCLED WATER PROPERTY SERVICE
	RWTM	RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
	W	W	PVC-M POTABLE WATER RETICULATION
	PWS	PWS	POTABLE WATER PROPERTY SERVICE
	PWTM	PWTM	DN200 PVC-M POTABLE WATER TRANSFER MAIN
	SP	SP	PE PRESSURE SEWER RETICULATION
	PSM	PSM	PE SEWER PRESSURE MAIN
	T	T	TELSTRA
	E	E	UNDERGROUND POWER
	S/W	S/W	STORMWATER PIPEWORK
	SV		STOP VALVE
	HYD		HYDRANT
	FL HYD		FLUSHING HYDRANT
			PROPERTY SERVICE CONNECTION
			LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
			LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
			SUBDIVISION STAGE BOUNDARIES

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 45 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 3 x SHORT SIDE
 - 4 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 10 x SHORT SIDE
 - 9 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN250	PVC-M PN16	293.8
DN100	PVC-M PN16	838.0

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.		J.N.	B.K.	

Hunter Office
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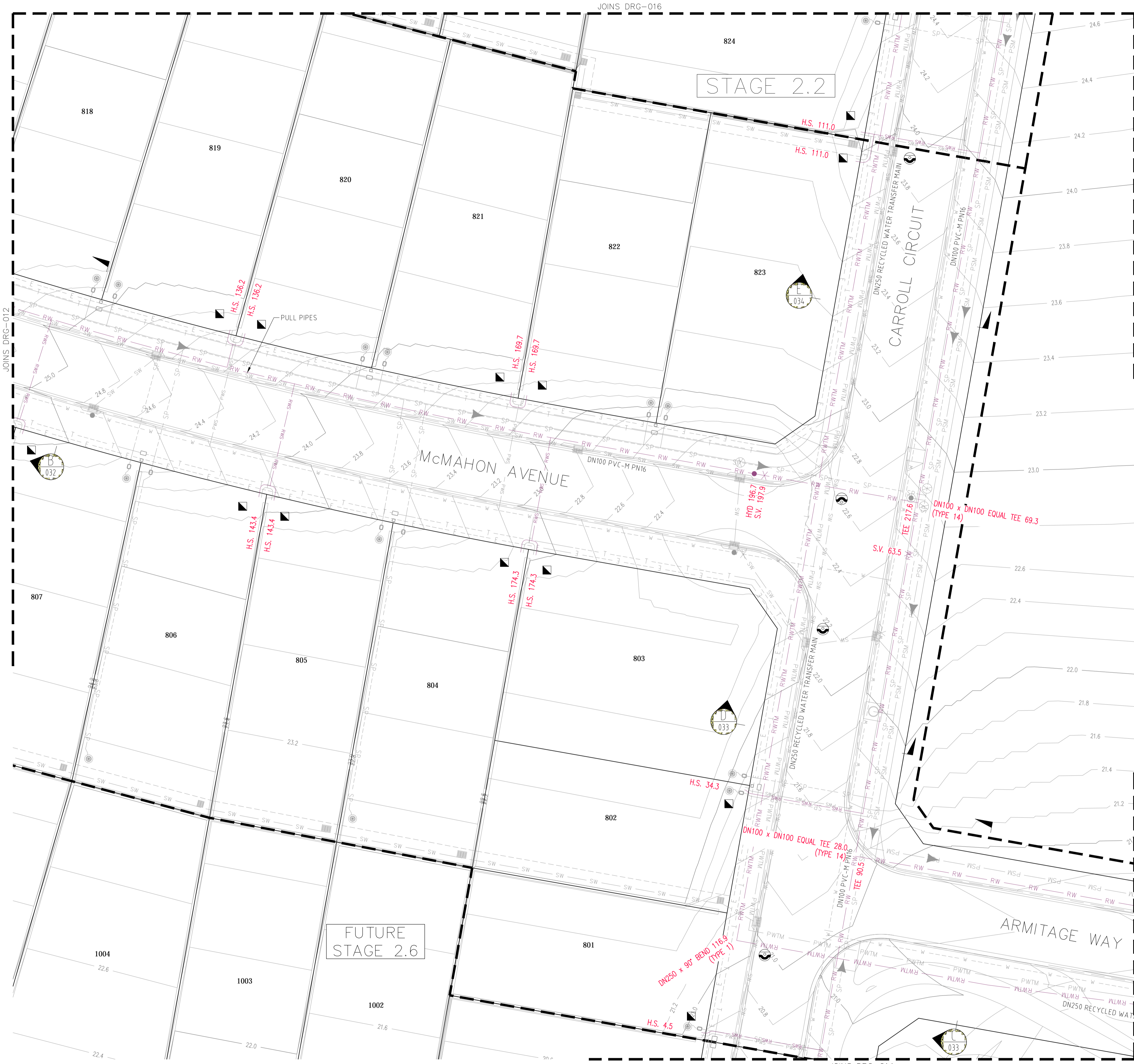
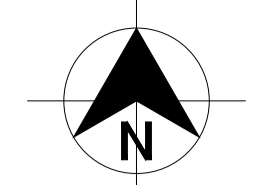
CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015

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.
239078(2.1 & 2.2)	- WAT -	012	WAC



LEGEND

	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
	W	PVC-M POTABLE WATER RETICULATION
	PWS	POTABLE WATER PROPERTY SERVICE
	PWTM	DN200 PVC-M POTABLE WATER TRANSFER MAIN
	SP	PE PRESSURE SEWER RETICULATION
	PSM	PE SEWER PRESSURE MAIN
	T	TELSTRA
	E	UNDERGROUND POWER
	S/W	STORMWATER PIPEWORK
	SV	STOP VALVE
	HYD	HYDRANT
	FL HYD	FLUSHING HYDRANT
		PROPERTY SERVICE CONNECTION
		LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
		LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
		SUBDIVISION STAGE BOUNDARIES

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 45 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 3 x SHORT SIDE
 - 4 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 10 x SHORT SIDE
 - 9 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN250	PVC-M PN16	293.8
DN100	PVC-M PN16	838.0

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

PLAN
SCALE 1:250

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.	

adw Johnson

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

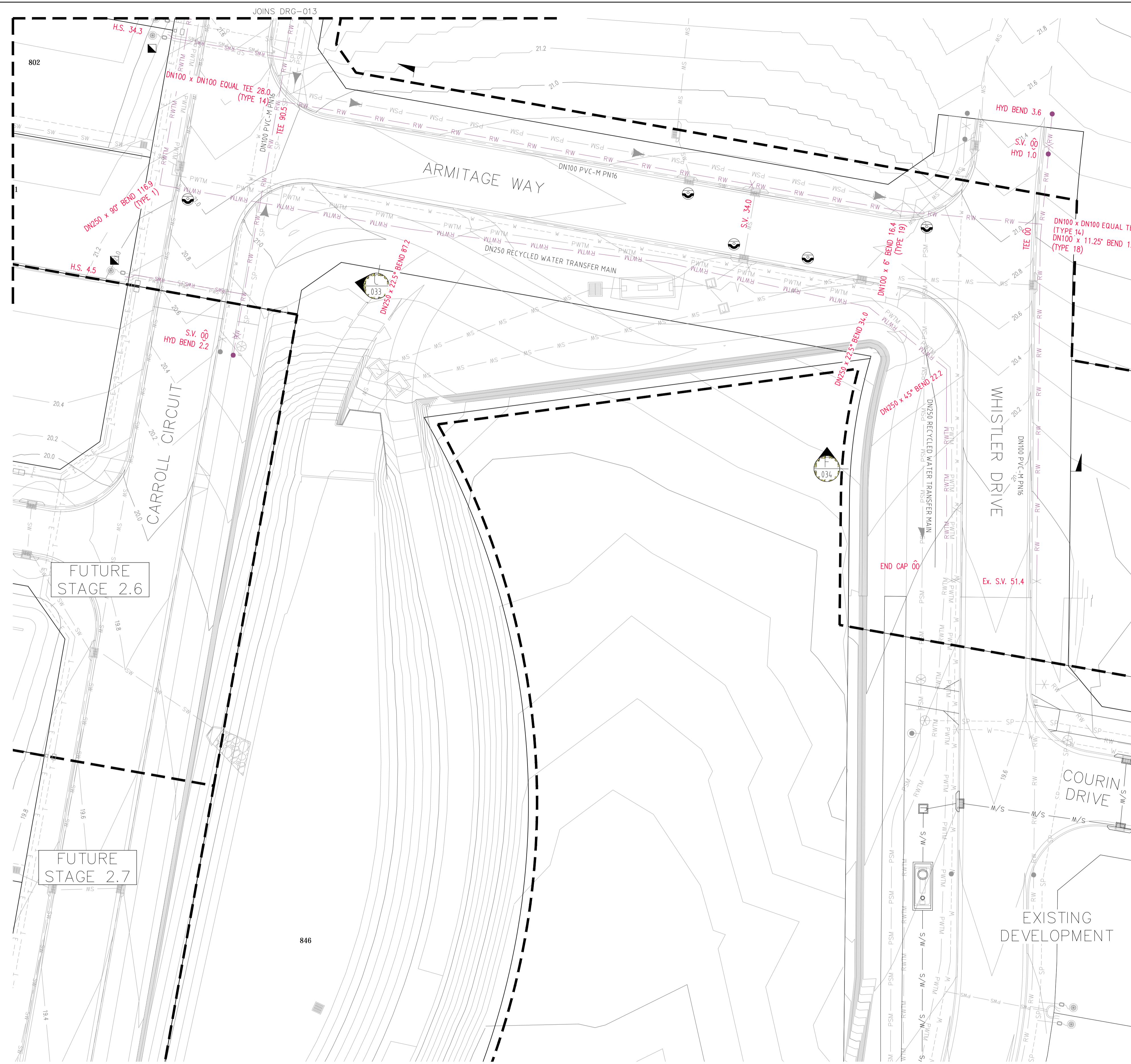
CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
WHISTLER DRIVE, COORANBONG
DA/307/2015

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.1 & 2.2)	- WAT -	013	WAC



LEGEND

- RW — RW — PVC-M RECYCLED WATER RETICULATION
- RWS — RWS — RECYCLED WATER PROPERTY SERVICE
- RTM — RTM — DN250 PVC-M RECYCLED WATER TRANSFER MAIN
- W — W — PVC-M POTABLE WATER RETICULATION
- PWS — PWS — POTABLE WATER PROPERTY SERVICE
- PWTM — PWTM — DN200 PVC-M POTABLE WATER TRANSFER MAIN
- SP — SP — PE PRESSURE SEWER RETICULATION
- PSM — PSM — PE SEWER PRESSURE MAIN
- T — T — TELSTRA
- E — E — UNDERGROUND POWER
- S/W — S/W — STORMWATER PIPEWORK
- SV — SV — STOP VALVE
- HYD — HYD — HYDRANT
- FL HYD — FL HYD — FLUSHING HYDRANT
- — ■ — PROPERTY SERVICE CONNECTION
- — ○ — LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- — ○ — LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- - - - - SUBDIVISION STAGE BOUNDARIES

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 45 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 3 x SHORT SIDE
 - 4 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 10 x SHORT SIDE
 - 9 x LONG SIDE

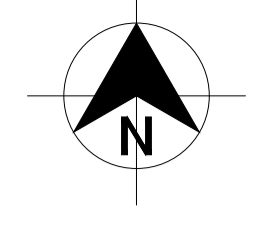
RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN250	PVC-M PN16	293.8
DN100	PVC-M PN16	838.0

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

PLAN
SCALE 1:250

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		PROPERTY DESCRIPTION		PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3							PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLED WATER DETAIL PLAN - SHEET 3	239078(2.1 & 2.2)	- WAT -
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500												
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.													
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.													
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	J.N.	L.G.	J.N.	L.G.													



LEGEND

RW	RW	PVC-M RECYCLED WATER RETICULATION
RWS	RWS	RECYCLED WATER PROPERTY SERVICE
RWTM	RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
W	W	PVC-M POTABLE WATER RETICULATION
PWS	PWS	POTABLE WATER PROPERTY SERVICE
PWTM	PWTM	DN200 PVC-M POTABLE WATER TRANSFER MAIN
SP	SP	PE PRESSURE SEWER RETICULATION
PSM	PSM	PE SEWER PRESSURE MAIN
T	T	TELSTRA
E	E	UNDERGROUND POWER
S/W	S/W	STORMWATER PIPEWORK
SV	SV	STOP VALVE
HYD	HYD	HYDRANT
FL HYD	FL HYD	FLUSHING HYDRANT
▲		PROPERTY SERVICE CONNECTION
○		LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
○		LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
---		SUBDIVISION STAGE BOUNDARIES

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 45 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 3 x SHORT SIDE
 - 4 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 10 x SHORT SIDE
 - 9 x LONG SIDE

RECYCLED WATER PIPE DATA

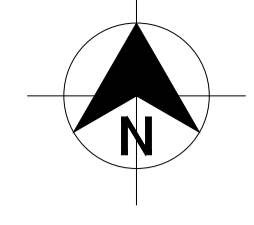
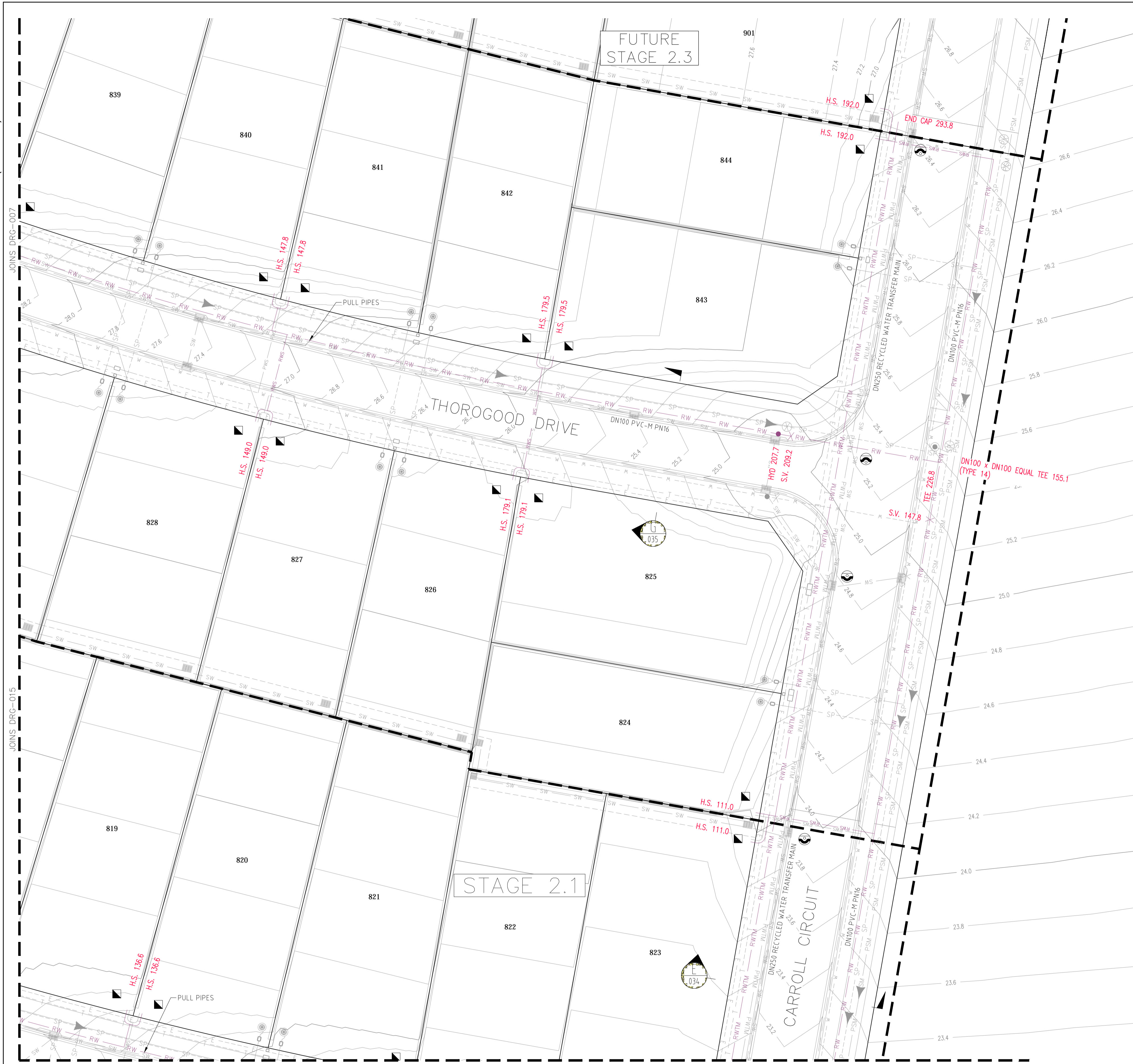
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN250	PVC-M PN16	293.8
DN100	PVC-M PN16	838.0

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

JOINS DRG-012
PLAN
SCALE 1:250

WORK-AS-CONSTRUCTED

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>27.08.2015</td> <td>CONSTRUCTION ISSUE</td> <td>J.N.</td> <td>L.G.</td> <td>J.N.</td> <td>L.G.</td> <td rowspan="3"> </td> </tr> <tr> <td>1</td> <td>25.09.2015</td> <td>AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED</td> <td>J.N.</td> <td>L.G.</td> <td>J.N.</td> <td>L.G.</td> </tr> <tr> <td>2</td> <td>18.11.2015</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>J.N.</td> <td>L.G.</td> <td>J.N.</td> <td>L.G.</td> </tr> <tr> <td>3</td> <td>04.03.2016</td> <td>AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED</td> <td>J.N.</td> <td>L.G.</td> <td>J.N.</td> <td>L.G.</td> <td></td> </tr> <tr> <td>WAC</td> <td>02.08.2016</td> <td>WORK AS CONSTRUCTED - RAR</td> <td>A.S.A.</td> <td></td> <td>J.N.</td> <td>B.K.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.		WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.		J.N.	B.K.		<p>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</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>RECYCLED WATER DETAIL PLAN - SHEET 4</p>
	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																											
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WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.		J.N.	B.K.																																													
<p>DESIGN FILE N: \</p> <p>Plotted By: DarrenSheather Plot Date: 19/09/16 - 17:44 Cad File: P:\20 - Lake Macquarie\23647 Watagan Park\Stage 2.1 & 2.2\Drawings\239078(2.1 & 2.2)-WAT-012 WAC.dwg</p>	<p>SURVEYED</p> <p>ADW Johnson</p>	<p>DATUM</p> <p>A.H.D.</p>	<p>PROJECT No.</p> <p>239078(2.1 & 2.2) - WAT -</p>	<p>DISCIPLINE</p> <p>015</p>	<p>NUMBER</p> <p>015</p>	<p>REV.</p> <p>WAC</p>																																													



DIAL 1100
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LEGEND

RW	RW	PVC-M RECYCLED WATER RETICULATION
RWS	RWS	RECYCLED WATER PROPERTY SERVICE
RWTM	RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
W	W	PVC-M POTABLE WATER RETICULATION
PWS	PWS	POTABLE WATER PROPERTY SERVICE
PWTM	PWTM	DN200 PVC-M POTABLE WATER TRANSFER MAIN
SP	SP	PE PRESSURE SEWER RETICULATION
PSM	PSM	PE SEWER PRESSURE MAIN
T	T	TELSTRA
E	E	UNDERGROUND POWER
S/W	S/W	STORMWATER PIPEWORK
SV	SV	STOP VALVE
HYD	HYD	HYDRANT
FL HYD	FL HYD	FLUSHING HYDRANT
SC	SC	PROPERTY SERVICE CONNECTION
UW	UW	LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
OW	OW	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
---	---	SUBDIVISION STAGE BOUNDARIES

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 45 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 3 x SHORT SIDE
 - 4 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
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RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN250	PVC-M PN16	293.8
DN100	PVC-M PN16	838.0

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
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WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.	

DESIGN FILE N:\

Plotted By: DarrenSheather

Plot Date: 19/09/16 - 17:45

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ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

CLIENT

PROPERTY DESCRIPTION
**PROPOSED SUBDIVISION
PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
WHISTLER DRIVE, COORANBONG
DA/307/2015**

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

PLAN TITLE
**RECYCLED WATER DETAIL PLAN
- SHEET 5**

SURVEYED
ADW Johnson

DATUM
A.H.D.

PROJECT No.
239078(2.1 & 2.2)

DISCIPLINE
- WAT -

NUMBER
016

REV.
WAC

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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		 <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>JOHNSON PROPERTY GROUP</p>	<p>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	NOT USED	239078(2.1 & 2.2)	- WAT -	017	WAC	
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3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.											
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.	L.G.	J.N.	B.K.											
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									



DIAL 1100
BEFORE YOU DIG

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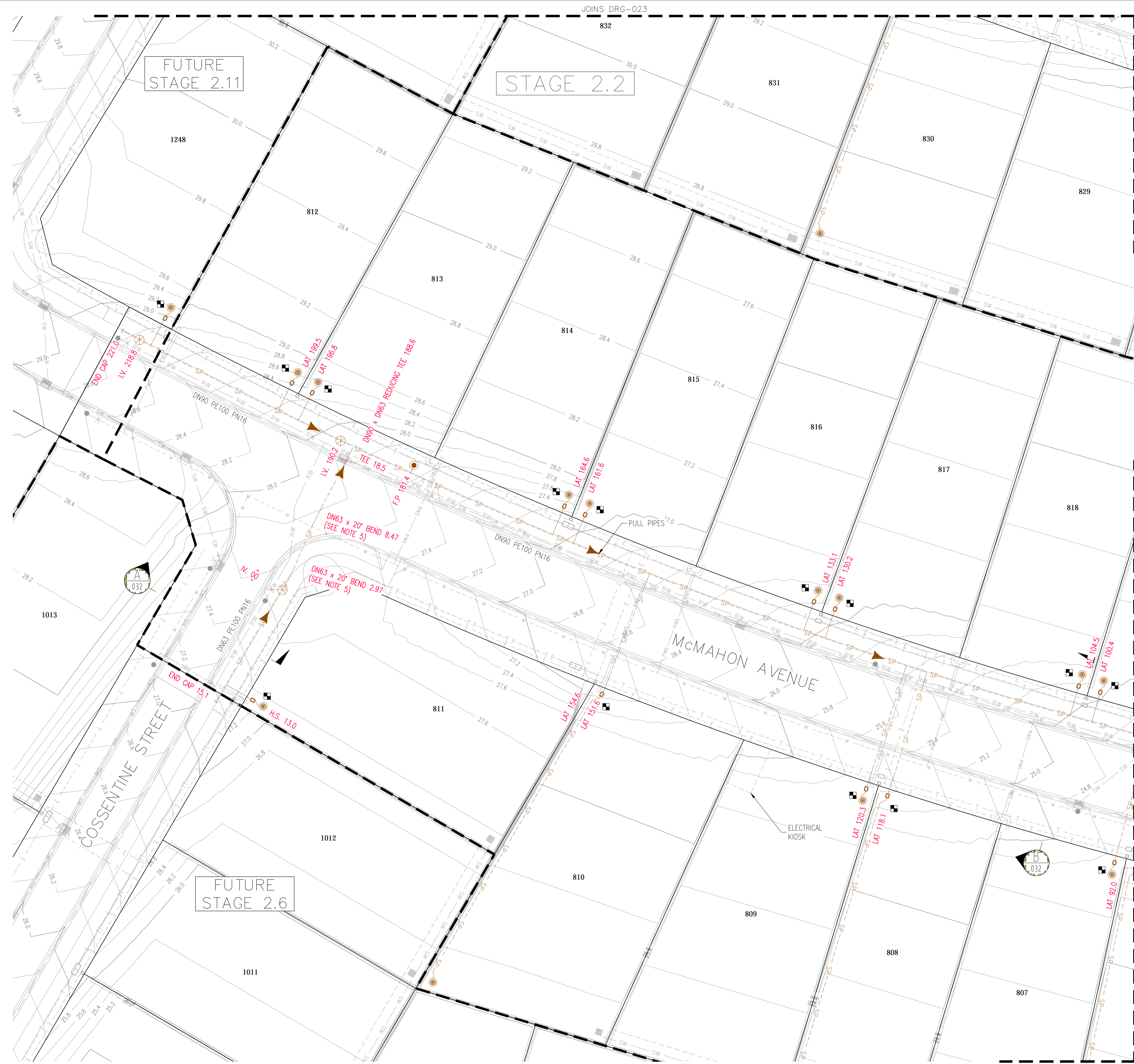
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
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1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.											
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WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.											
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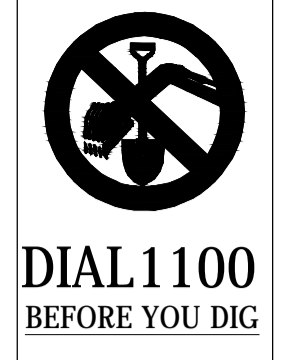
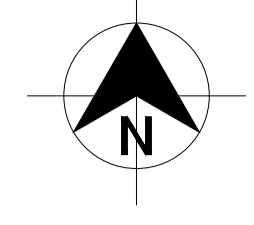
DIAL 1100
BEFORE YOU DIG

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
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DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									



PLAN
SCALE 1:250



LEGEND

	SP	PE PRESSURE SEWER RETICULATION
	PSM	PE SEWER PRESSURE MAIN
	W	PVC-M POTABLE WATER RETICULATION
	PWS	POTABLE WATER PROPERTY SERVICE
	PWTM	DN250 PVC-M POTABLE WATER TRANSFER MAIN
	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	RTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
	T	TELSTRA
	E	UNDERGROUND POWER
	S/W	STORMWATER PIPEWORK
	IV	ISOLATION VALVE
	FP	FLUSHING POINT
		WASTEWATER COLLECTION TANK AND BOUNDARY KIT
		PRESSURE SEWER FLOW DIRECTION
		PROPERTY SERVICE CONNECTION
		LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
		LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
		LIMIT OF SUBDIVISION WORKS

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 45 CONNECTIONS
 • SINGLE SERVICES
 - 24 x SHORT SIDE
 - 21 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN280	PE100 PN16	261.0
DN250	PE100 PN16	145.0
DN90	PE100 PN16	227.8
DN63	PE100 PN16	54.1
DN50	PE100 PN16	419.1

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 016.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.
 - 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 WERE ELECTROFUSION SWEEP BENDS
 - DN280 AND DN250 PE PRESSURE SEWER MAIN LAID TO GRADE.
 - FOR WASTEWATER COLLECTION TANK LEVEL DETAILS REFER TO DRG-031.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
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SCALES
0 5 10 A1 / A3 1:250 / 1:500

adw Johnson

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

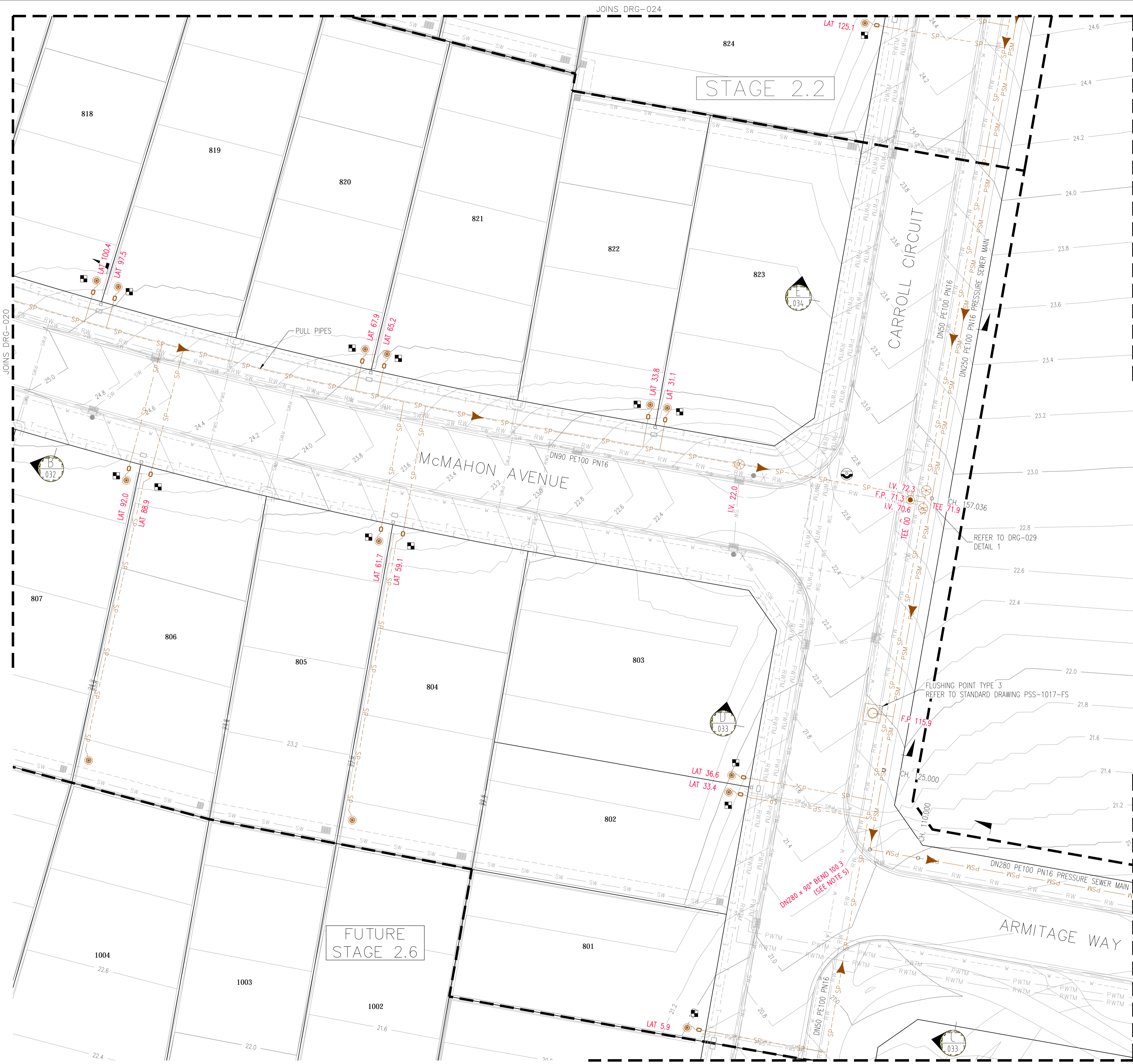
CLIENT

JOHNSON PROPERTY GROUP

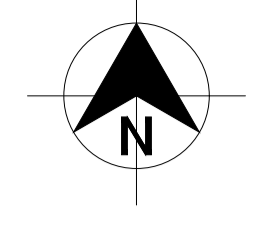
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015

PROJECT		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
PLAN TITLE		PRESSURE SEWER DETAIL PLAN - SHEET 1	
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.1 & 2.2)	- WAT -	020	WAC



PLAN SCALE 1:250



DIAL 1100
BEFORE YOU DIG

- LEGEND**
- SP --- SP --- PE PRESSURE SEWER RETICULATION
 - PSM --- PSM --- PE SEWER PRESSURE MAIN
 - W --- W --- PVC-M POTABLE WATER RETICULATION
 - PWS --- PWS --- POTABLE WATER PROPERTY SERVICE
 - PWTM --- PWTM --- DN250 PVC-M POTABLE WATER TRANSFER MAIN
 - RW --- RW --- PVC-M RECYCLED WATER RETICULATION
 - RWS --- RWS --- RECYCLED WATER PROPERTY SERVICE
 - RWTM --- RWTM --- DN250 PVC-M RECYCLED WATER TRANSFER MAIN
 - T --- T --- TELSTRA
 - E --- E --- UNDERGROUND POWER
 - S/W --- S/W --- STORMWATER PIPEWORK
 - IV. --- IV. --- ISOLATION VALVE
 - F.P. --- F.P. --- FLUSHING POINT
 - --- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - --- PRESSURE SEWER FLOW DIRECTION
 - --- PROPERTY SERVICE CONNECTION
 - --- LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - --- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - --- LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
- TOTAL 45 CONNECTIONS
- SINGLE SERVICES
- 24 x SHORT SIDE
- 21 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN280	PE100 PN16	261.0
DN250	PE100 PN16	145.0
DN90	PE100 PN16	227.8
DN63	PE100 PN16	54.1
DN50	PE100 PN16	419.1

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 016.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.
 - 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 WERE ELECTROFUSION SWEEP BENDS
 - DN280 AND DN250 PE PRESSURE SEWER MAIN LAID TO GRADE.
 - FOR WASTEWATER COLLECTION TANK LEVEL DETAILS REFER TO DRG-031.

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.	L.G.	J.N.	B.K.	

Hunter Office
 Unit 7/335 Hillsborough Rd
 Warners Bay N.S.W. 2282
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JOHNSON PROPERTY GROUP

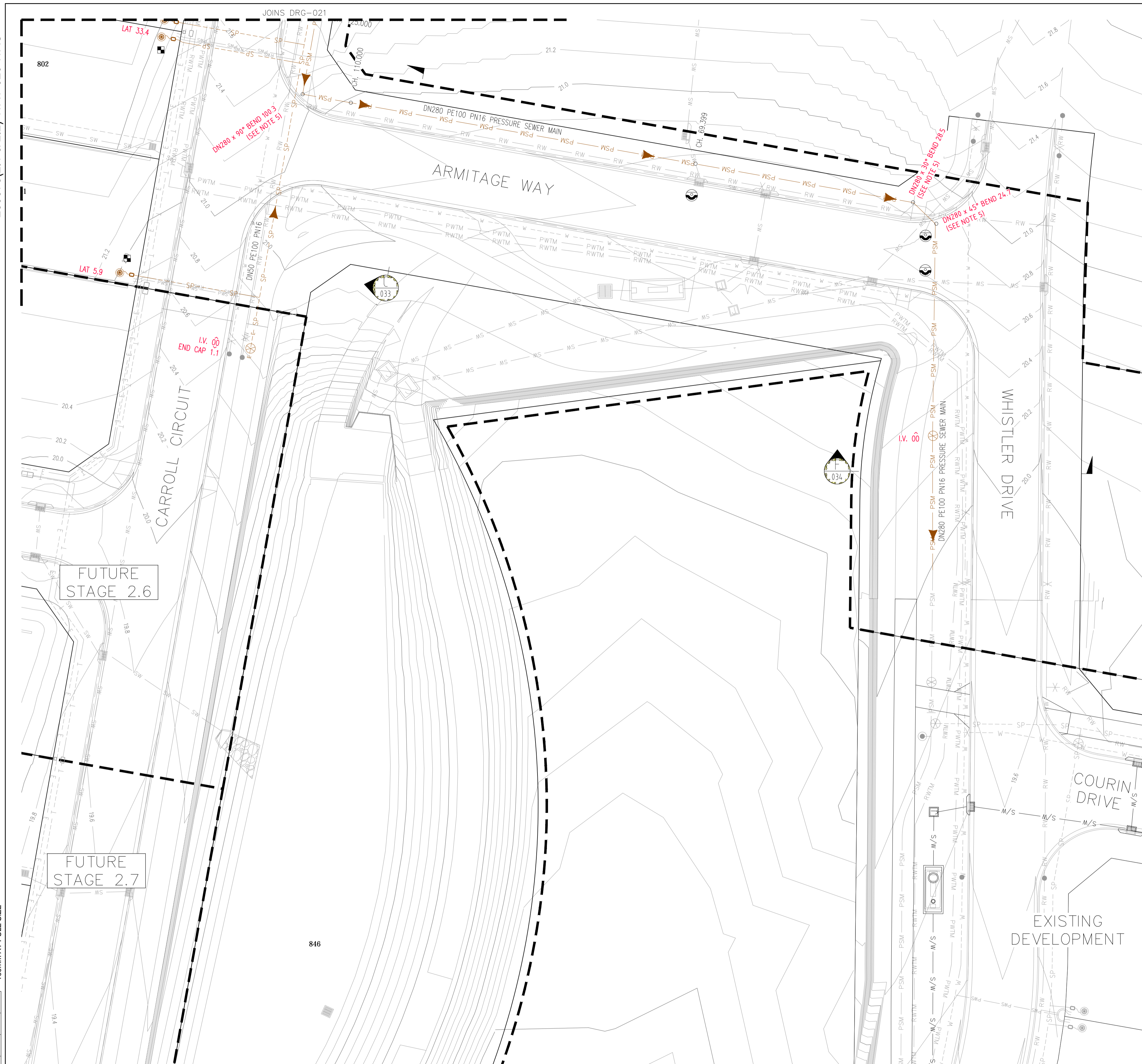
CLIENT
 PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015

PROPERTY DESCRIPTION
 SURVEYED
 ADW Johnson

PROJECT
 POTABLE WATER, RECYCLED WATER AND
 PRESSURE SEWER RETICULATION
 PLAN TITLE
 PRESSURE SEWER DETAIL PLAN
 - SHEET 2
 PROJECT No. 239078(2.1 & 2.2) - WAT - 021
 DISCIPLINE - WAT -
 NUMBER 021
 REV. WAC

239078(2.1 & 2.2)-WAT-020 WAC

100mm AT FULL SIZE



LEGEND

SP	PE PRESSURE SEWER RETICULATION
PSM	PE SEWER PRESSURE MAIN
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
PWTM	DN250 PVC-M POTABLE WATER TRANSFER MAIN
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
IV	ISOLATION VALVE
FP	FLUSHING POINT
WWT	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
▲	PRESSURE SEWER FLOW DIRECTION
■	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- - -	LIMIT OF SUBDIVISION WORKS

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 45 CONNECTIONS

- SINGLE SERVICES
- 24 x SHORT SIDE
- 21 x LONG SIDE

PRESSURE SEWER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN280	PE100 PN16	261.0
DN250	PE100 PN16	145.0
DN90	PE100 PN16	227.8
DN63	PE100 PN16	54.1
DN50	PE100 PN16	419.1

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 016.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.
 - 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 WERE ELECTROFUSION SWEEP BENDS
 - DN280 AND DN250 PE PRESSURE SEWER MAIN LAID TO GRADE.
 - FOR WASTEWATER COLLECTION TANK LEVEL DETAILS REFER TO DRG-031.

PLAN
SCALE 1:250

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.	

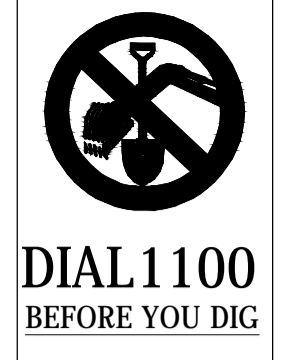
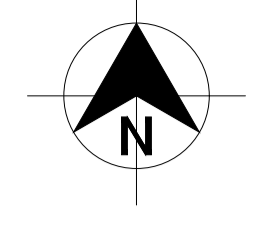
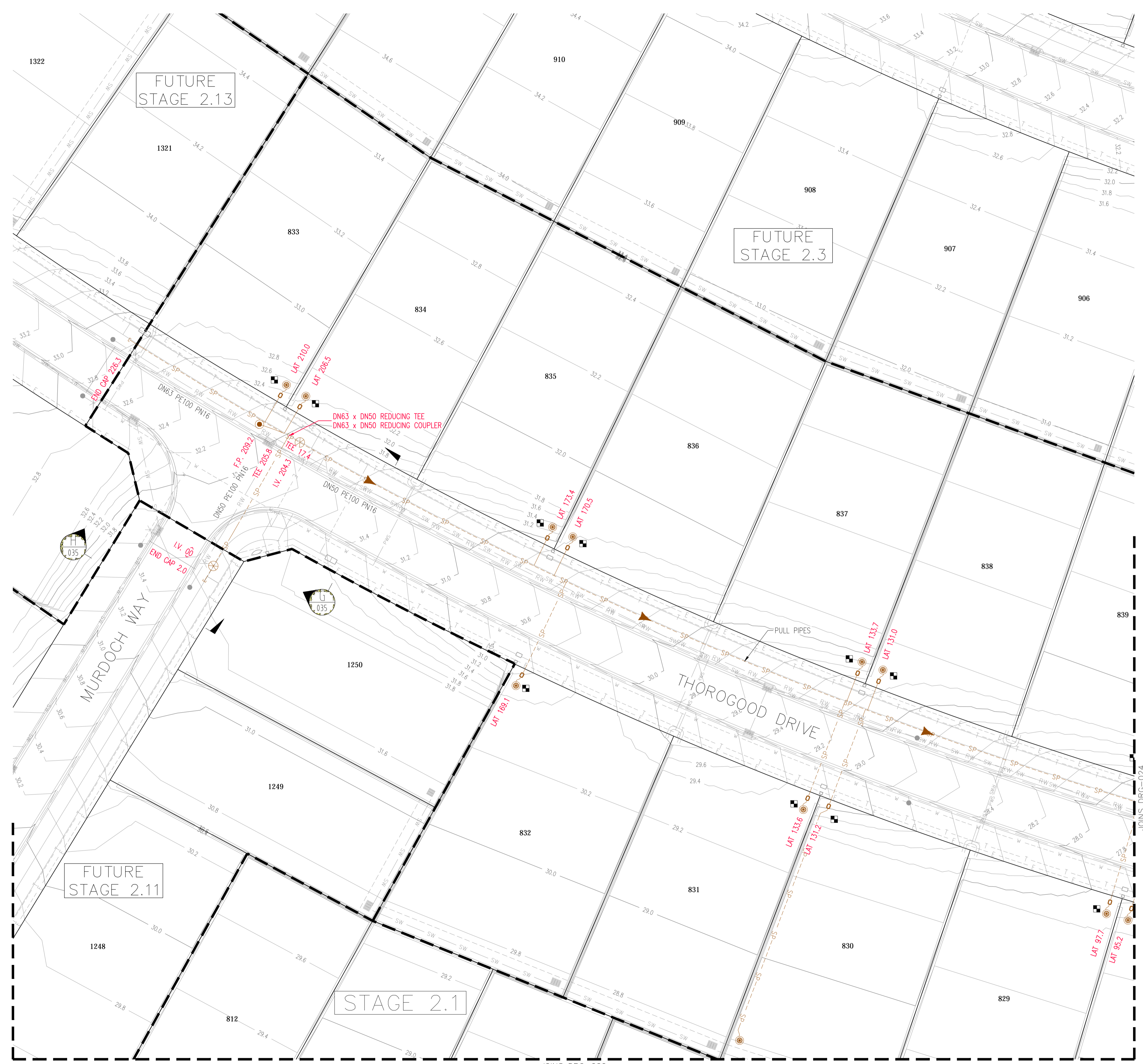
adw Johnson

Hunter Office
 Unit 7/335 Hillsborough Rd
 Warners Bay N.S.W. 2282
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JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
**PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015**

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 3		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.1 & 2.2)	- WAT -	022	WAC



LEGEND

SP	PE PRESSURE SEWER RETICULATION
PSM	PE SEWER PRESSURE MAIN
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
PWTM	DN250 PVC-M POTABLE WATER TRANSFER MAIN
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
IV	ISOLATION VALVE
FP	FLUSHING POINT
WWT	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
▲	PRESSURE SEWER FLOW DIRECTION
■	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
---	LIMIT OF SUBDIVISION WORKS

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 45 CONNECTIONS

- SINGLE SERVICES
- 24 x SHORT SIDE
- 21 x LONG SIDE

PRESSURE SEWER PIPE DATA

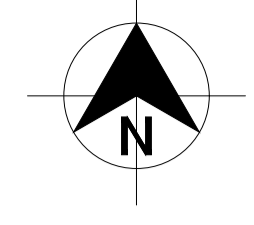
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN280	PE100 PN16	261.0
DN250	PE100 PN16	145.0
DN90	PE100 PN16	227.8
DN63	PE100 PN16	54.1
DN50	PE100 PN16	419.1

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 016.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.
 - 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 WERE ELECTROFUSION SWEEP BENDS
 - DN280 AND DN250 PE PRESSURE SEWER MAIN LAID TO GRADE.
 - FOR WASTEWATER COLLECTION TANK LEVEL DETAILS REFER TO DRG-031.

PLAN
SCALE 1:250

WORK-AS-CONSTRUCTED

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>27.08.2015</td> <td>CONSTRUCTION ISSUE</td> <td>J.N.</td> <td>L.G.</td> <td>J.N.</td> <td>L.G.</td> <td>0 5 10 A1 / A3</td> </tr> <tr> <td>1</td> <td>25.09.2015</td> <td>AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED</td> <td>J.N.</td> <td>L.G.</td> <td>J.N.</td> <td>L.G.</td> <td>1:250 / 1:500</td> </tr> <tr> <td>2</td> <td>18.11.2015</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>J.N.</td> <td>L.G.</td> <td>J.N.</td> <td>L.G.</td> <td></td> </tr> <tr> <td>3</td> <td>04.03.2016</td> <td>AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED</td> <td>J.N.</td> <td>L.G.</td> <td>J.N.</td> <td>L.G.</td> <td></td> </tr> <tr> <td>WAC</td> <td>02.08.2016</td> <td>WORK AS CONSTRUCTED - RAR</td> <td>A.S.A.</td> <td></td> <td>J.N.</td> <td>B.K.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3	1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500	2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.		WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.		J.N.	B.K.		<p>DESIGN FILE N: \</p> <p>Plotted By: DarrenSheather Plot Date: 19/09/16 - 17:48 Cad File: P:\20 - Lake Macquarie\23647 Watagan Park\Stage 2.1 & 2.2\Drawings\239078(2.1 & 2.2)-WAT-020 WAC.dwg</p>	<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>		<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	<p>SURVEYED ADW Johnson</p> <p>DATUM A.H.D.</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 4</p>
	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																	
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3																																																		
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500																																																		
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WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.		J.N.	B.K.																																																			
<p>PROJECT No. 239078(2.1 & 2.2)</p>	<p>DISCIPLINE - WAT -</p>	<p>NUMBER 023</p>	<p>REV. WAC</p>																																																						



DIAL 1100
BEFORE YOU DIG

LEGEND

SP	PE PRESSURE SEWER RETICULATION
PSM	PE SEWER PRESSURE MAIN
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
PWTM	DN250 PVC-M POTABLE WATER TRANSFER MAIN
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
RWTM	DN250 PVC-M RECYCLED WATER TRANSFER MAIN
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
IV	ISOLATION VALVE
FP	FLUSHING POINT
WWT	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
PS	PRESSURE SEWER FLOW DIRECTION
PC	PROPERTY SERVICE CONNECTION
LM	LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
LO	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
---	LIMIT OF SUBDIVISION WORKS

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
TOTAL 45 CONNECTIONS
• SINGLE SERVICES
- 24 x SHORT SIDE
- 21 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN280	PE100 PN16	261.0
DN250	PE100 PN16	145.0
DN90	PE100 PN16	227.8
DN63	PE100 PN16	54.1
DN50	PE100 PN16	419.1

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 008.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 016.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.
 - 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 WERE ELECTROFUSION SWEEP BENDS
 - DN280 AND DN250 PE PRESSURE SEWER MAIN LAID TO GRADE.
 - FOR WASTEWATER COLLECTION TANK LEVEL DETAILS REFER TO DRG-031.

JOINS DRG-021

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.	

DESIGN FILE N:\

Plotted By: DarrenSheather Plot Date: 19/09/16 - 17:48 Cad File: P:\20 - Lake Macquarie\23647 Watagan Park\Stage 2.1 & 2.2\Drawings\239078(2.1 & 2.2)-WAT-020 WAC.dwg

adw Johnson

Hunter Office
Unit 7/335 Hillsborough Rd
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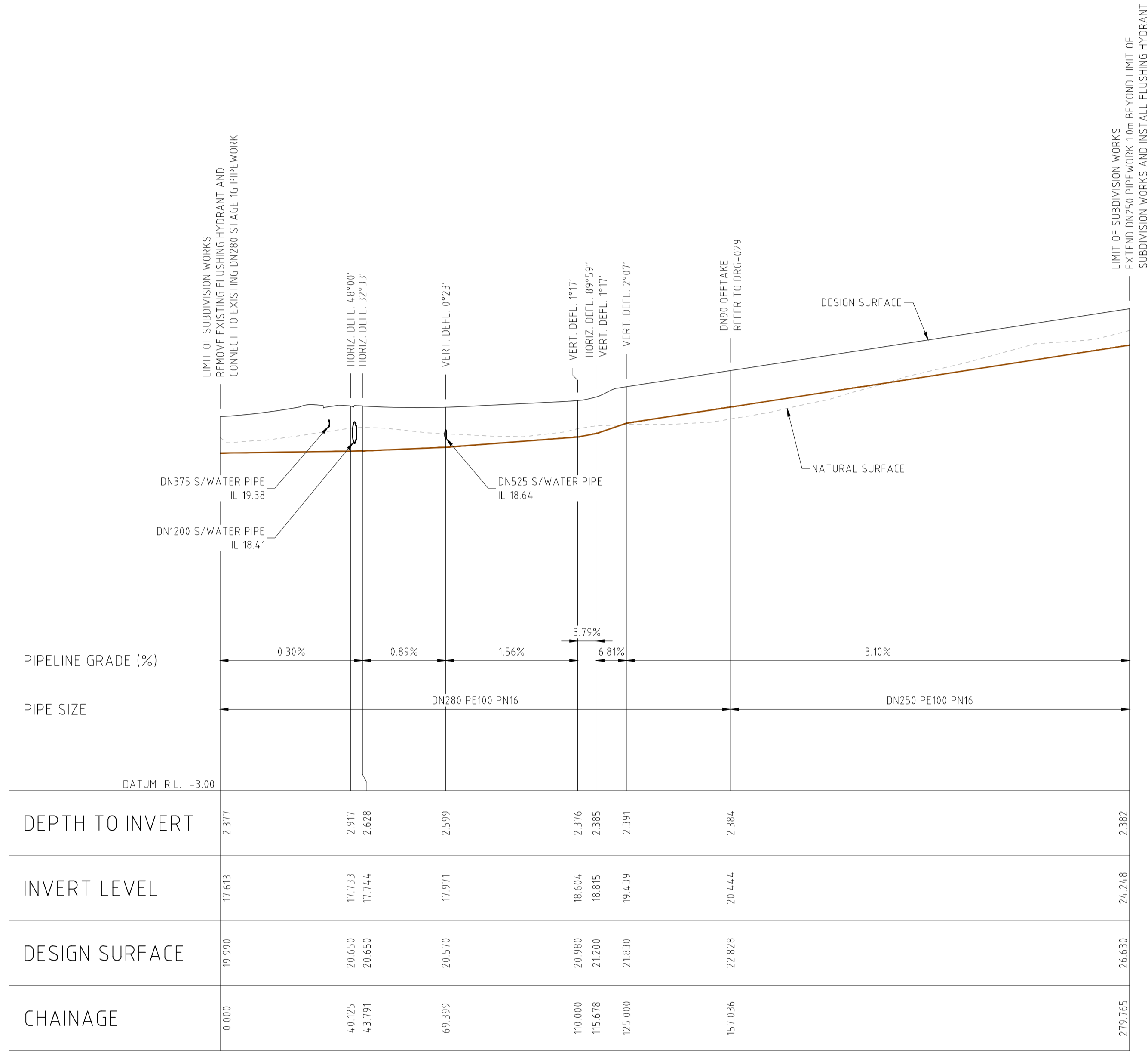
CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION		PROJECT	
PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
SURVEYED		PLAN TITLE	
ADW Johnson		PRESSURE SEWER DETAIL PLAN - SHEET 5	
DATUM		PROJECT No.	
A.H.D.		239078(2.1 & 2.2) - WAT -	
		NUMBER	
		024	
		REV.	
		WAC	



DIAL1100
BEFORE YOU DIG



LONGITUDINAL SECTION - PRESSURE SEWER MAIN

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		<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>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>LONGITUDINAL SECTION - PRESSURE SEWER MAIN</p>	<p>ADW Johnson</p>	<p>A.H.D.</p>	<p>239078(2.1 & 2.2)</p>	<p>- WAT -</p>	<p>025</p>	<p>WAC</p>
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.												
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.												
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.												
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.												



DIAL 1100
BEFORE YOU DIG

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		 <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>JOHNSON PROPERTY GROUP</p>	<p>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	NOT USED	239078(2.1 & 2.2)	- WAT -	026	WAC	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.											
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.											
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.											
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.											
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									



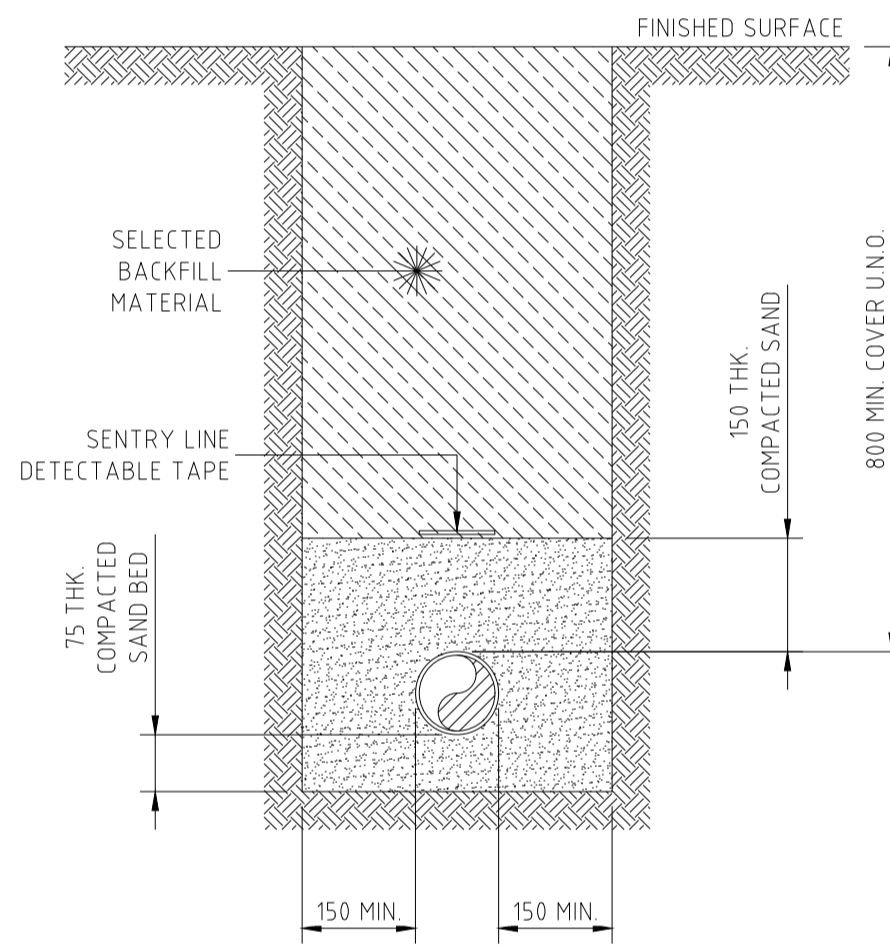
DIAL 1100
BEFORE YOU DIG

WORK-AS-CONSTRUCTED

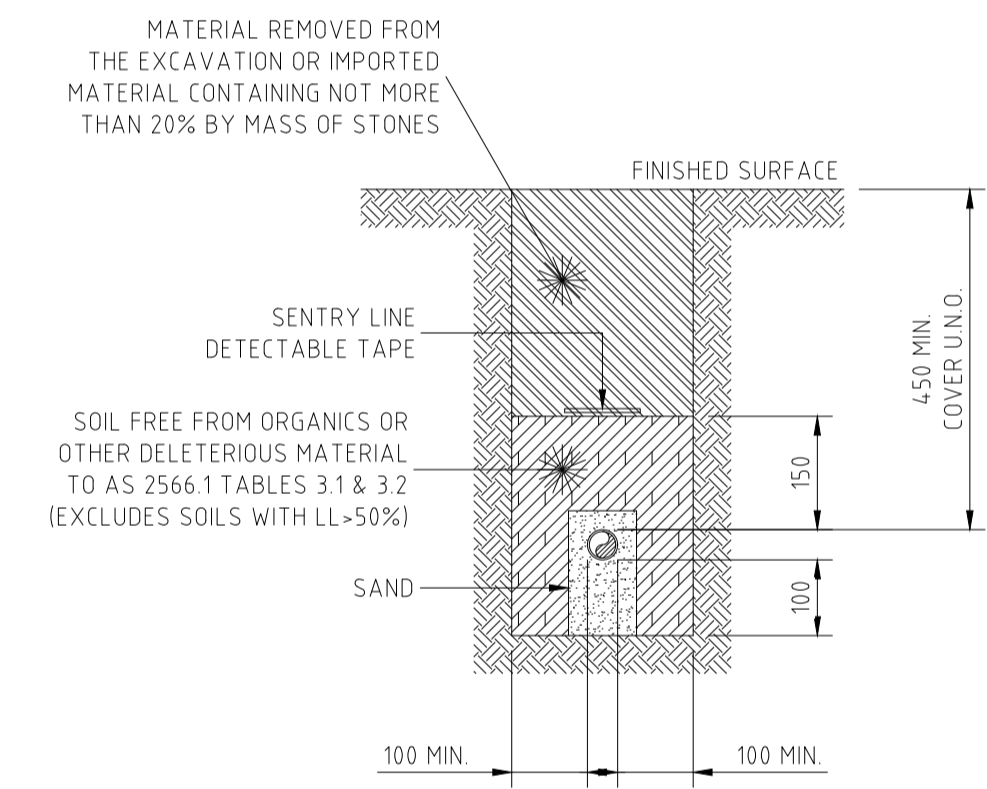
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		 <p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	 <p>JOHNSON PROPERTY GROUP</p>	<p>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	NOT USED	239078(2.1 & 2.2)	- WAT -	027	WAC	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.											
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.											
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.											
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.		J.N.	B.K.											
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE										



DIAL 1100
BEFORE YOU DIG



STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

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

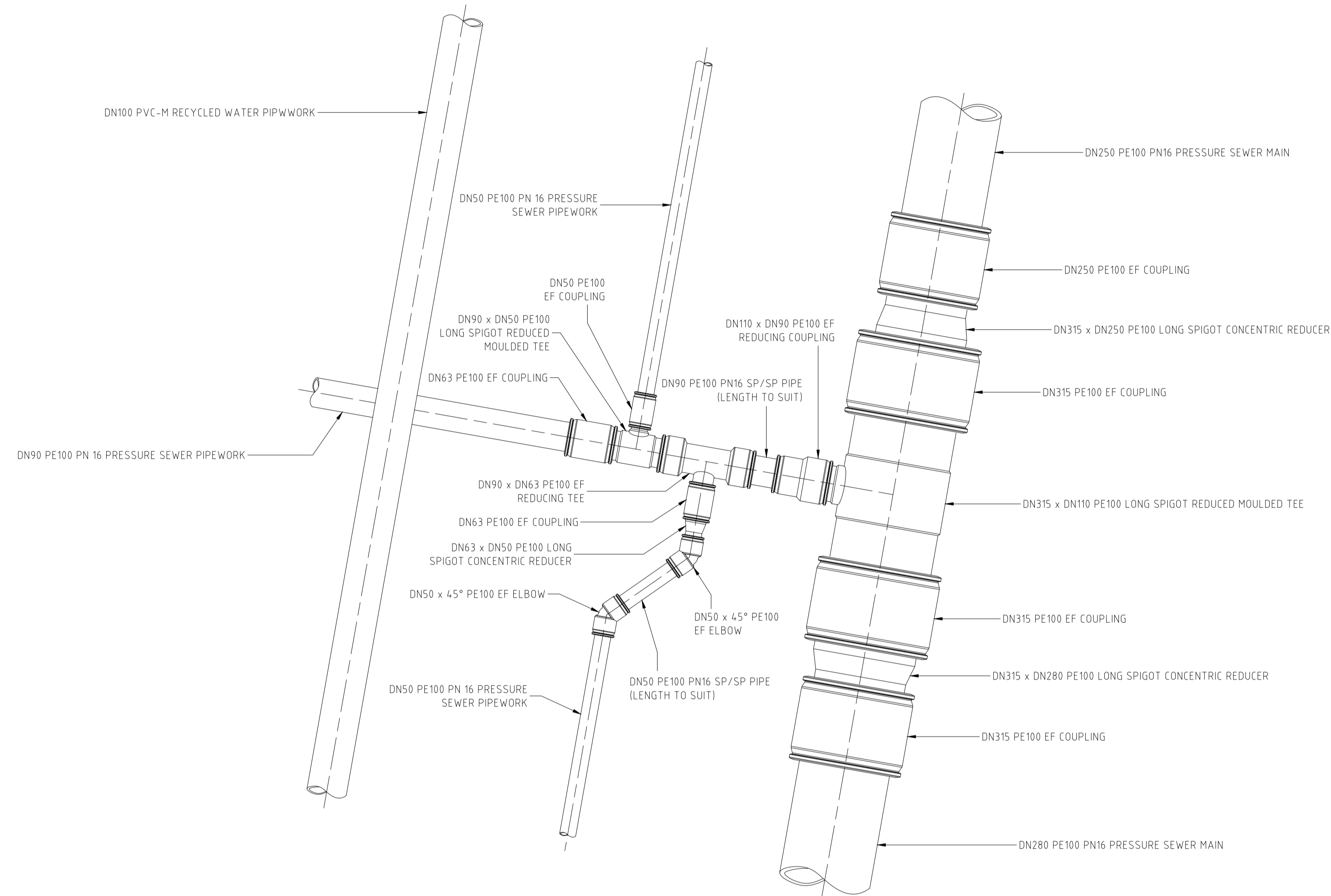
WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	0 0.1 0.2 0.3 0.4 A1 / A3	<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>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PIPEWORK TRENCHING DETAILS	239078(2.1 & 2.2)	- WAT -	028	WAC
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	1:10 / 1:20								
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.									
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.									
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	J.N. A.S.A.	L.G.	J.N.	L.G. B.K.									

100mm AT FULL SIZE



DIAL 1100
BEFORE YOU DIG



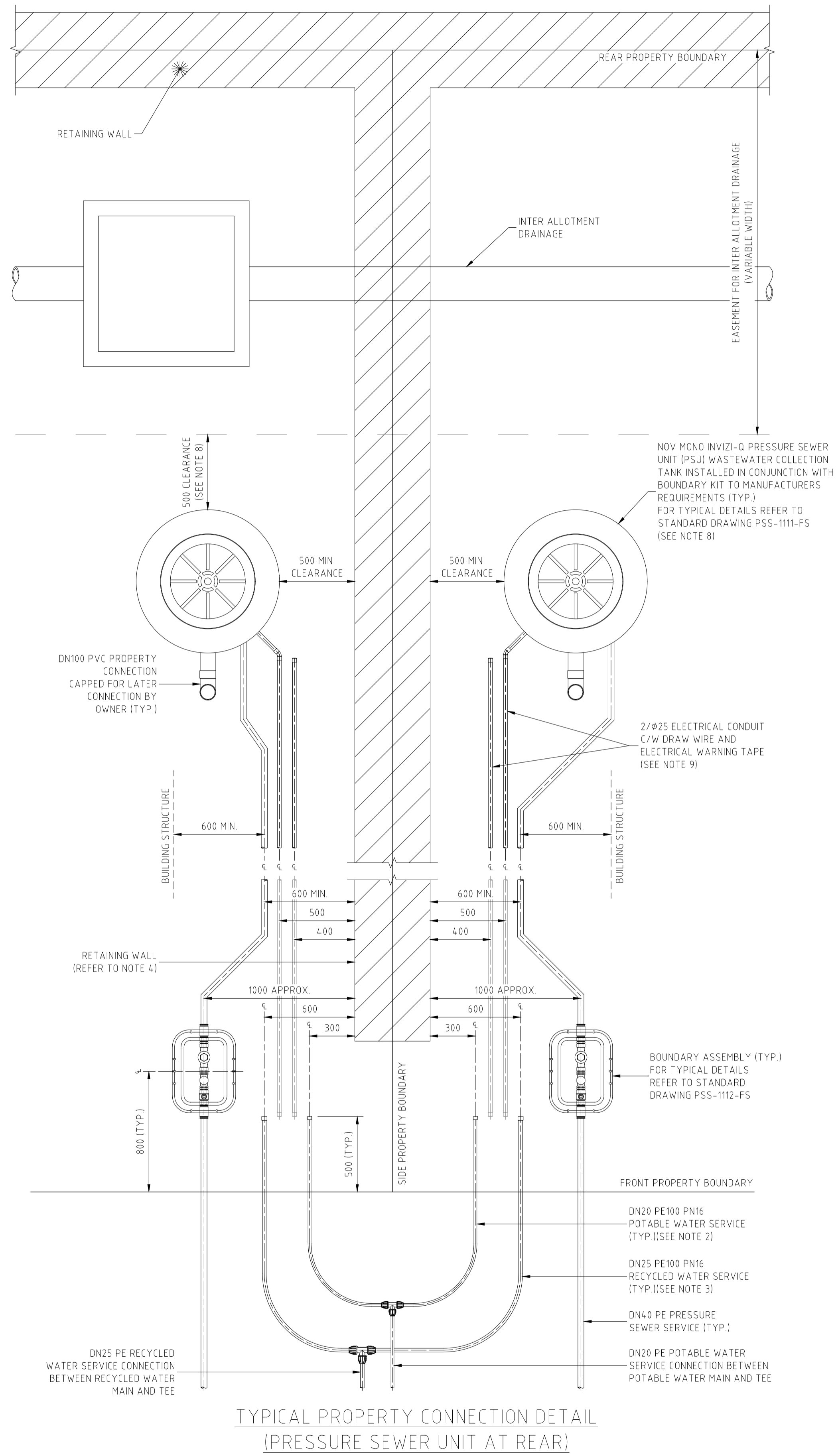
DETAIL 1
SCALE 1:10

NOTES:

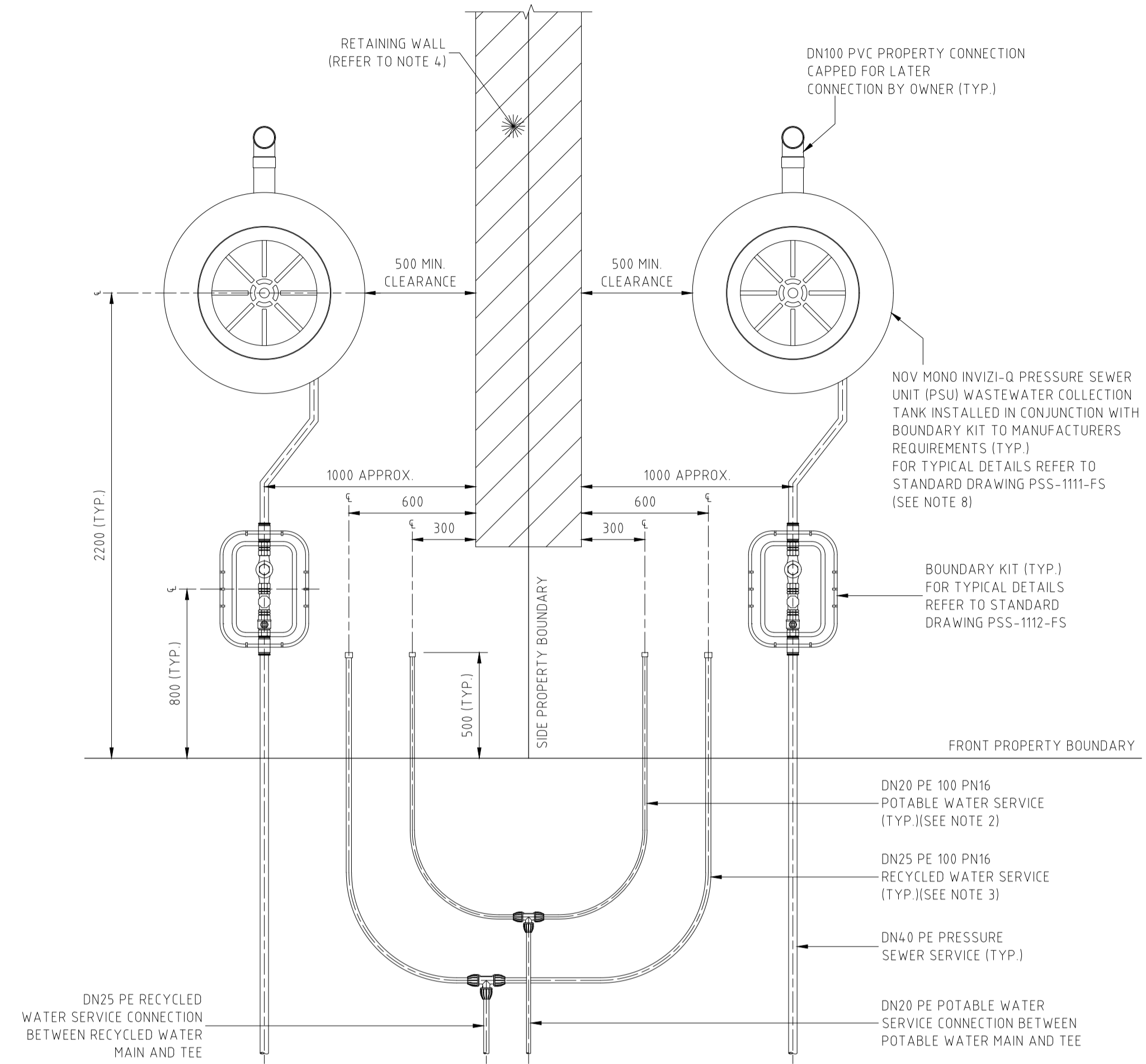
1. ALL POLYETHYLENE FITTINGS WERE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		<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>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PIPEWORK CONNECTION DETAILS</p>	<p>239078(2.1 & 2.2)</p>	<p>- WAT -</p>	<p>029</p>	<p>WAC</p>
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.									
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.				<p>ADW Johnson</p>	<p>A.H.D.</p>				
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.						<p>ADW Johnson</p>	<p>A.H.D.</p>		
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.	L.G.	J.N.	B.K.									



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



TYPICAL PROPERTY CONNECTION DETAIL
SCALE 1:20

NOTES:

- PROPERTY SERVICE CONNECTIONS WERE 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 CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE EXTENDED 500mm BEYOND PROPERTY BOUNDARY AND CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE 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 MAINTAINED.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS WERE 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 CAPPED. ELECTRICAL CONDUIT IS HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE LARGE RADIUS SWEEP BENDS.
- FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.		J.N.	B.K.

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

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

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

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015

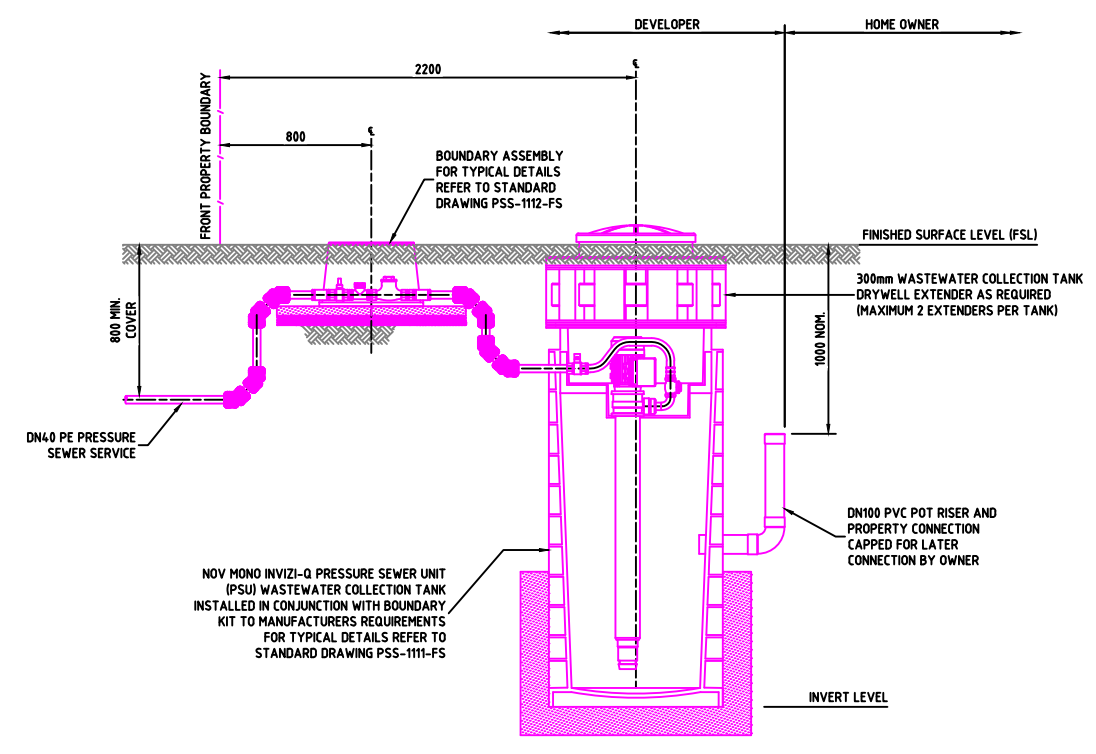
PROJECT	PLAN TITLE
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL SERVICE CONNECTION DETAILS

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.1 & 2.2)	- WAT -	030	WAC



WASTEWATER COLLECTION TANK LEVEL DETAILS			
LOT NUMBER	FINISHED SURFACE LEVEL (FSL)	INVERT LEVEL (IL)	NUMBER OF DRYWELL EXTENDERS
801	20.99	18.84	0
802	21.93	19.78	0
803	21.98	19.83	0
804	22.51	20.36	0
805	23.65	20.90	2
806	23.51	21.36	0
807	24.64	21.89	2
808	24.51	22.36	0
809	25.64	22.89	2
810	25.44	23.29	0
811	27.31	24.86	1
812	28.65	26.50	0
813	28.38	26.23	0
814	27.56	25.41	0
815	27.06	24.91	0
816	26.34	24.19	0
817	26.05	23.90	0
818	25.31	23.16	0
819	25.04	22.89	0
820	24.27	22.12	0
821	23.99	21.84	0
822	23.09	20.94	0
823	22.81	20.66	0
824	24.69	22.54	0
825	25.09	22.94	0
826	26.51	23.76	2
827	26.65	24.20	1
828	27.57	24.82	2
829	27.83	25.08	2
830	27.80	25.65	0
831	29.24	26.79	1
832	30.50	27.30	2
833	32.51	30.36	0
834	32.23	30.08	0
835	31.31	29.16	0
836	30.81	28.66	0
837	29.79	27.64	0
838	29.29	27.14	0
839	28.40	26.25	0
840	28.11	25.96	0
841	27.23	25.08	0
842	26.74	24.59	0
843	26.00	23.85	0
844	26.45	24.30	0
1248 (FUTURE)	29.16	27.01	0

- WASTEWATER COLLECTION TANK PLACED IN REAR OF LOT
- WASTEWATER COLLECTION TANK PLACED IN FRONT OF LOT ON LOW SIDE



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

NOTE:
 1. WASTEWATER COLLECTION TANK INVERT LEVEL(IL)=FINISHED SURFACE LEVEL(FSL)
 • MINUS 2150 FOR 0 DRYWELL EXTENDERS
 • MINUS 2450 FOR 1 DRYWELL EXTENDERS
 • MINUS 2750 FOR 2 DRYWELL EXTENDERS
 FOR FURTHER DETAILS REFER TO STANDARD DRAWING PSS-1113-FS.

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.	

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

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
WHISTLER DRIVE, COORANBONG
DA/307/2015

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

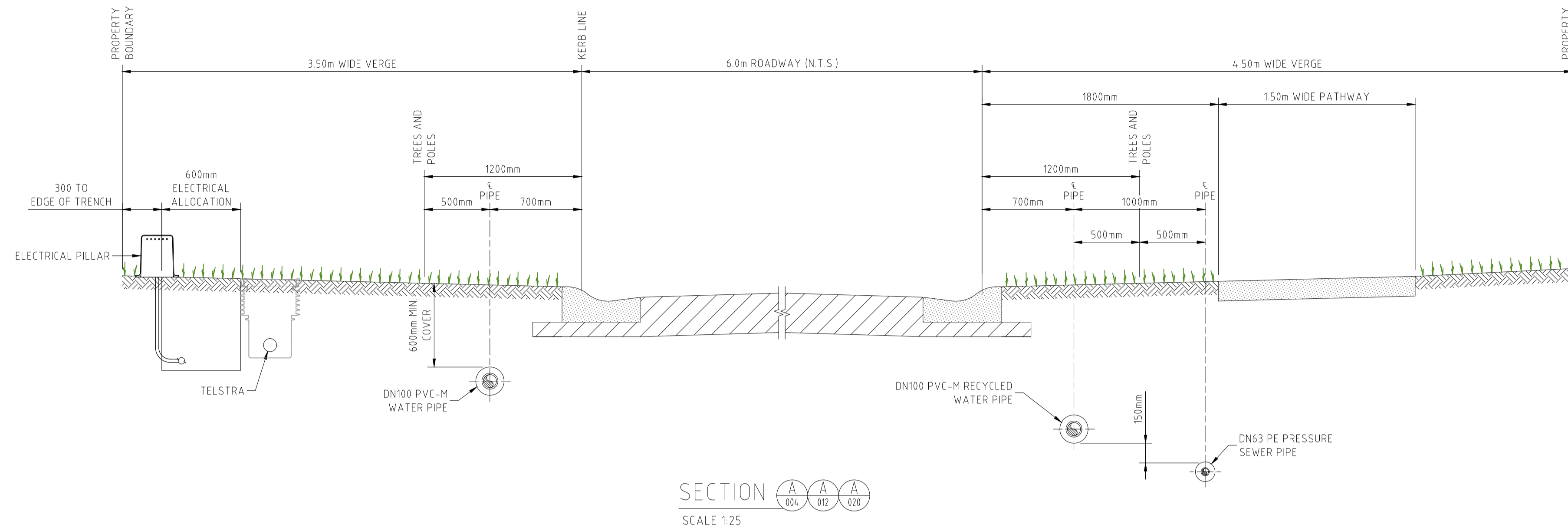
PLAN TITLE **WASTEWATER COLLECTION TANK LEVEL DETAILS**

PROJECT No. **239078(2.1 & 2.2)** DISCIPLINE **- WAT -** NUMBER **031** REV. **WAC**

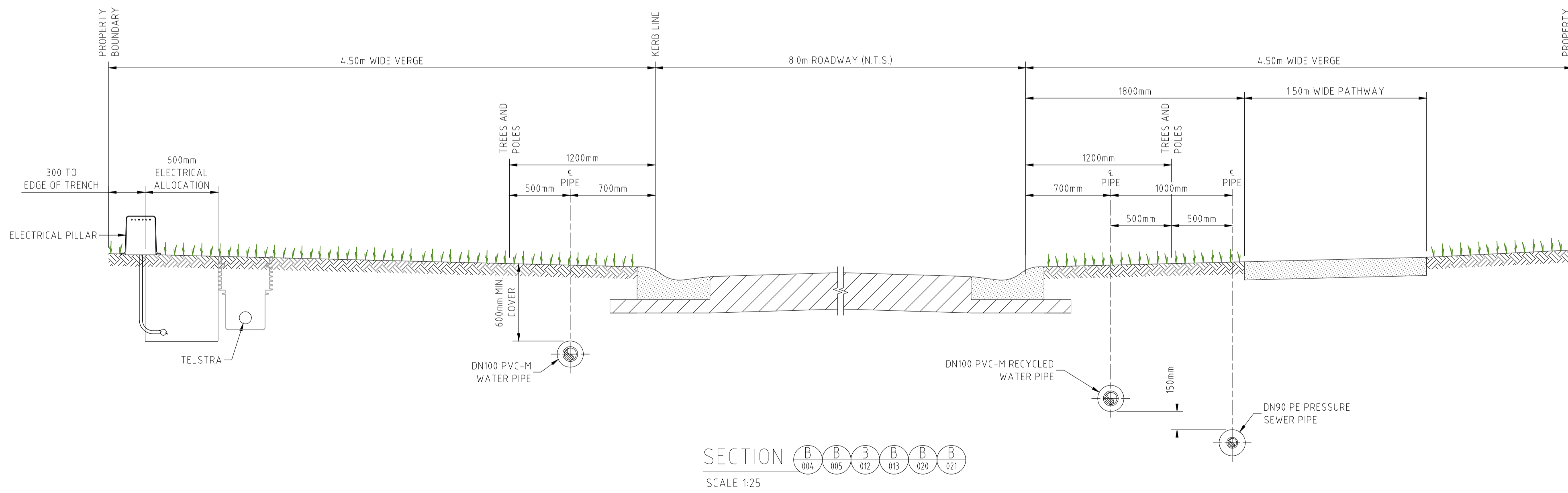
WORK-AS-CONSTRUCTED



DIAL 1100
BEFORE YOU DIG



SECTION A A A
SCALE 1:25



SECTION B B B
SCALE 1:25

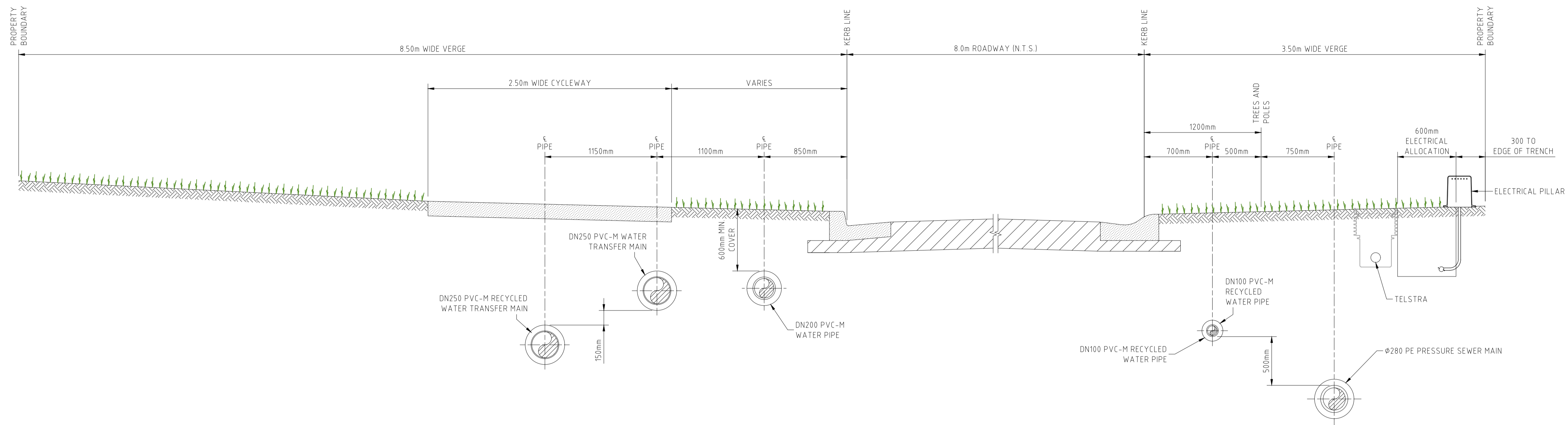
NOTE:
1. FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

WORK-AS-CONSTRUCTED

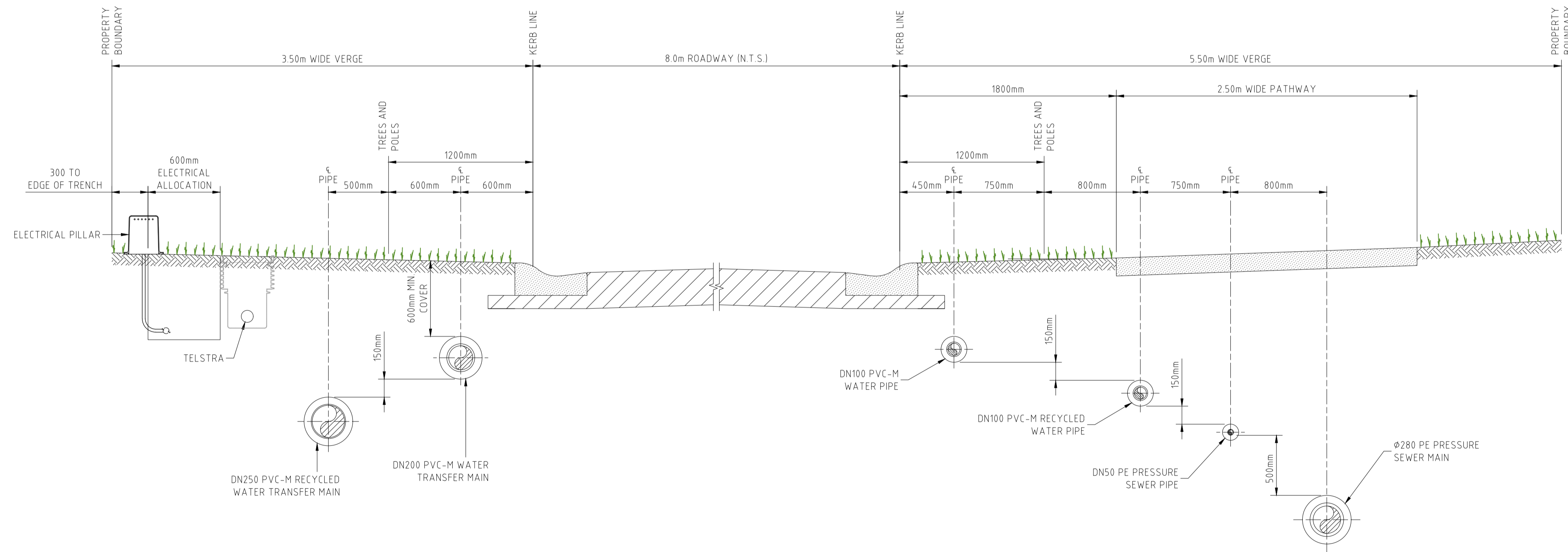
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION		PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	0 / 0.5 / 1				A1 / A3	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		239078(2.1 & 2.2)	- WAT -	032
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.	1:25 / 1:50	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	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		ROAD CROSS SECTIONS - SHEET 1							
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.												
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.												
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	J.N. A.S.A.	L.G.	J.N.	L.G. B.K.												



DIAL 1100
BEFORE YOU DIG



SECTION C C C C C C
005 006 013 014 021 022
SCALE 1:25



SECTION D D D
005 013 021
SCALE 1:25

NOTE:
1. FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.	L.G.	J.N.	B.K.

SCALES
0 0.5 1 A1 / A3 1:25 / 1:50



Hunter Office
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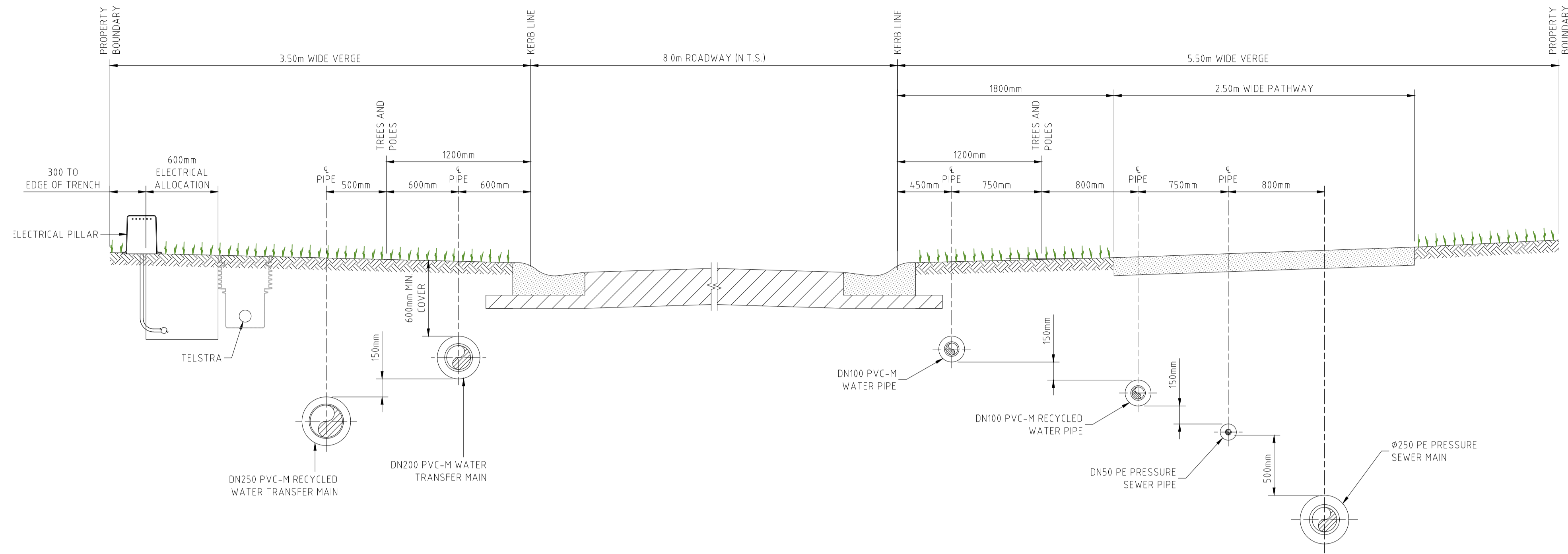


PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
WHISTLER DRIVE, COORANBONG
DA/307/2015

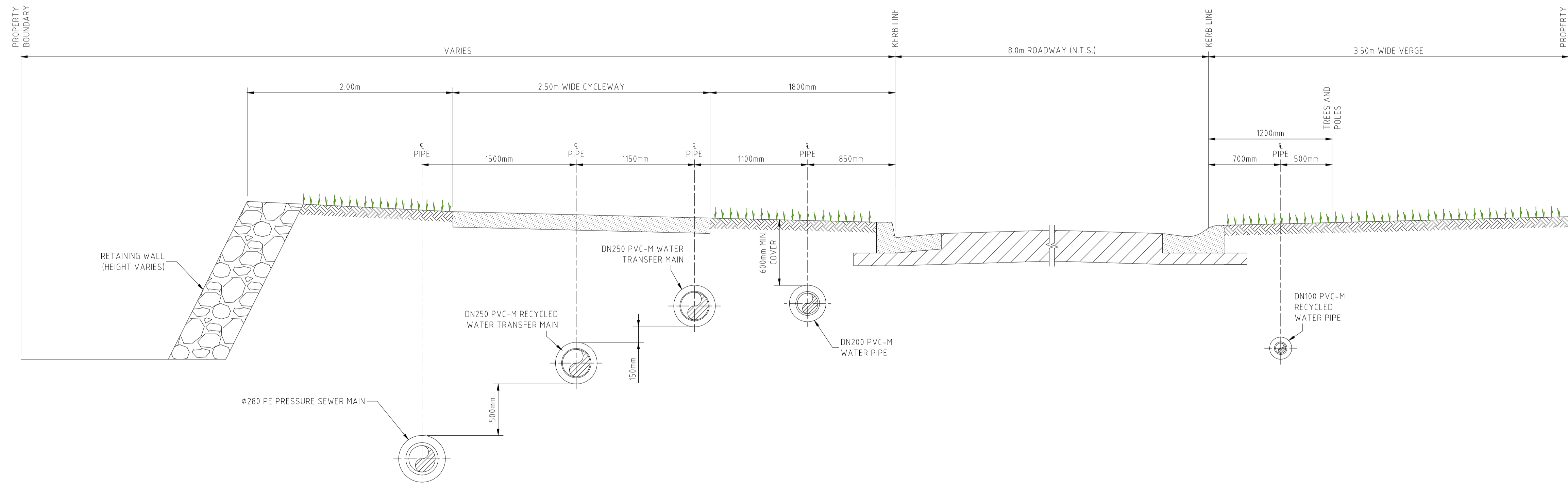
PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
PLAN TITLE ROAD CROSS SECTIONS - SHEET 2
PROJECT No. 239078(2.1 & 2.2) - WAT - 033
DISCIPLINE
NUMBER
REV. WAC



DIAL 1100
BEFORE YOU DIG



SECTION E E E E E E
SCALE 1:25



SECTION F F F F
SCALE 1:25

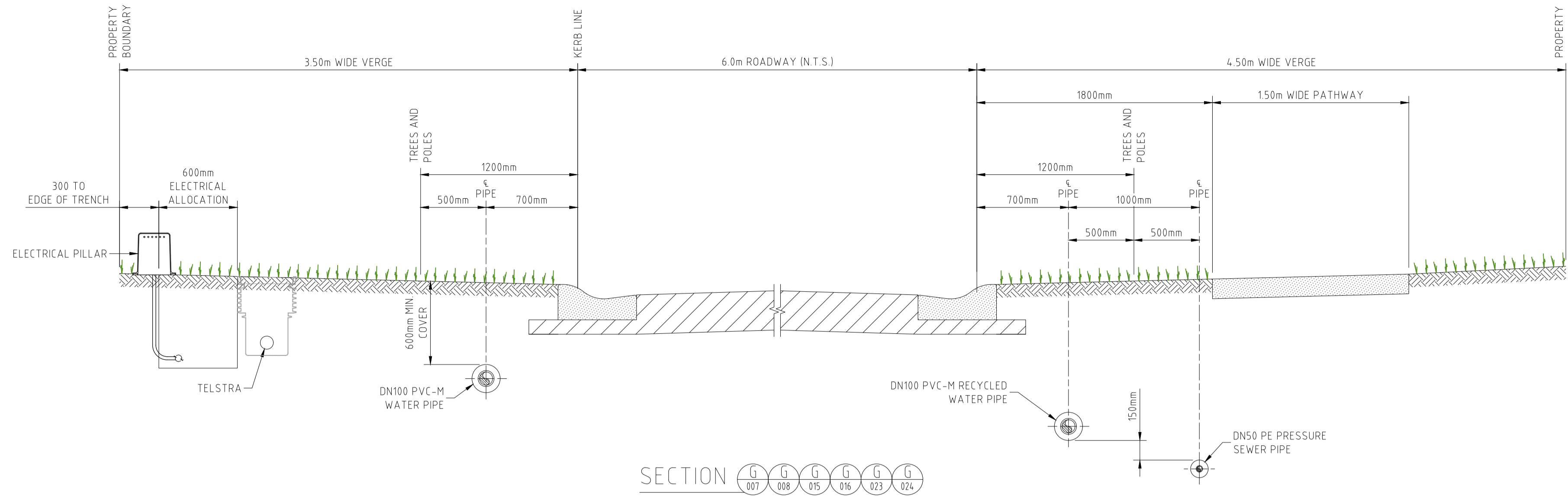
NOTE:
1. FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

WORK-AS-CONSTRUCTED

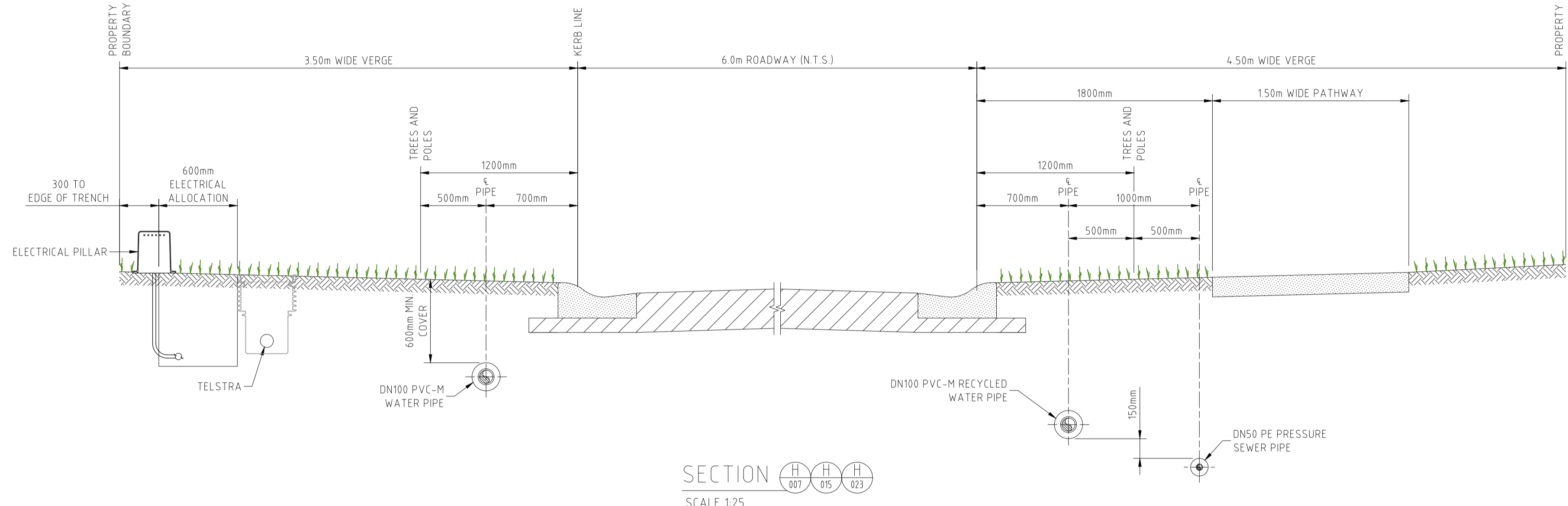
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	 A1 / A3 1:25 / 1:50	Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	ROAD CROSS SECTIONS - SHEET 3	239078(2.1 & 2.2)	WAT	034	WAC
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.									
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.									
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.									
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.					JOHNSON PROPERTY GROUP	SURVEYED ADW Johnson	DATUM A.H.D.					



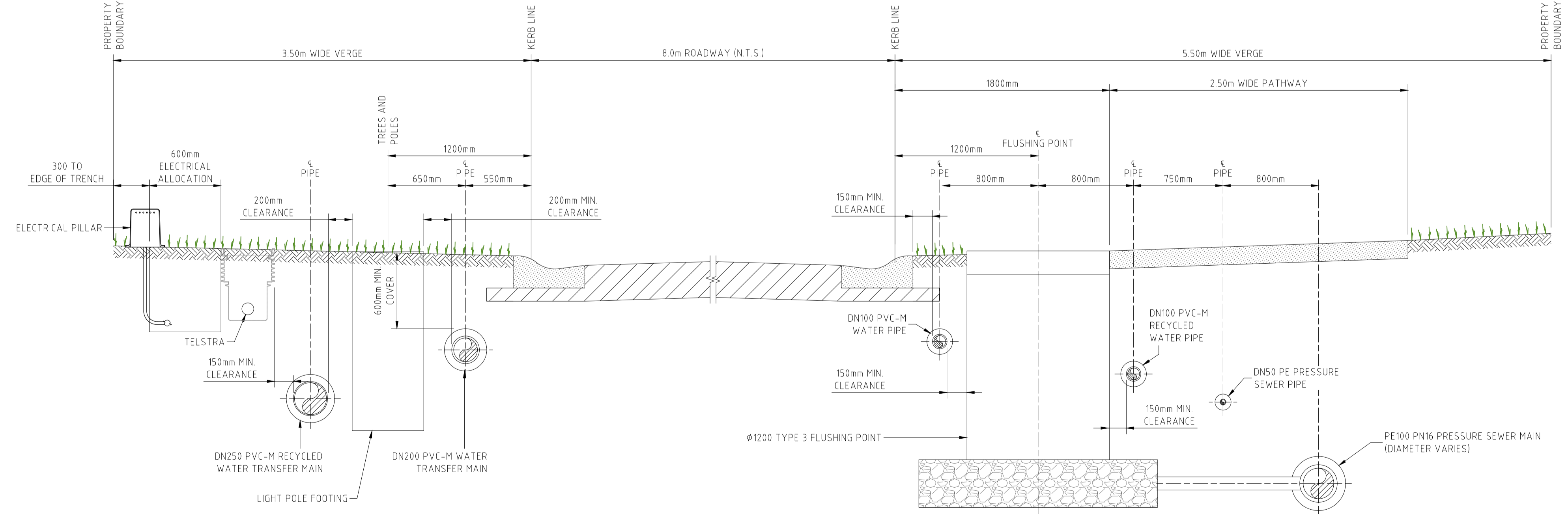
DIAL 1100
BEFORE YOU DIG



SECTION G007 G008 G015 G016 G023 G024
SCALE 1:25



SECTION H007 H015 H023
SCALE 1:25



TYPICAL SECTION AT MAJOR OBSTRUCTIONS - ROAD 3A
SCALE 1:25

NOTE:
1. FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.	
WAC	02.08.2016	WORK AS CONSTRUCTED - RAR	A.S.A.			B.K.	

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK
WHISTLER DRIVE, COORANBONG
DA/307/2015

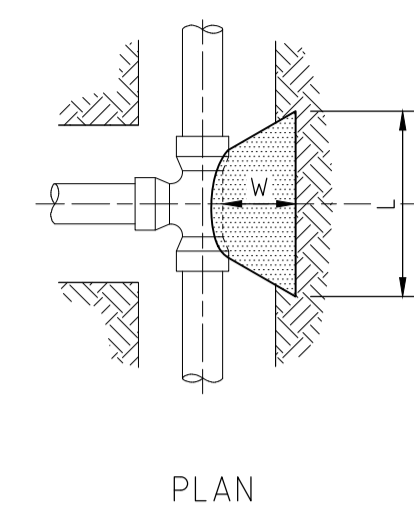
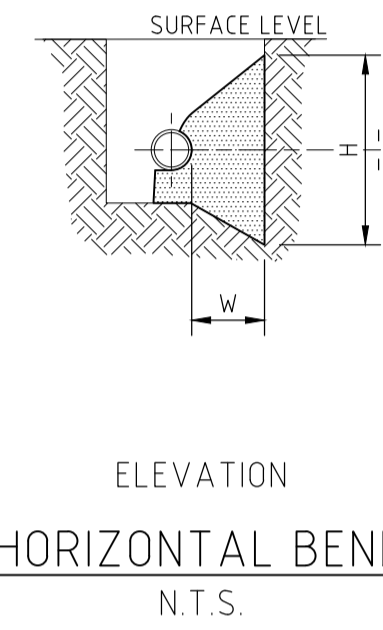
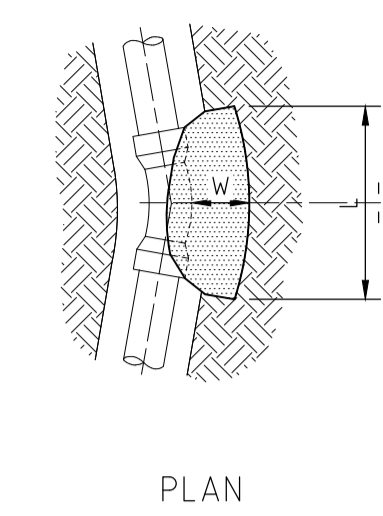
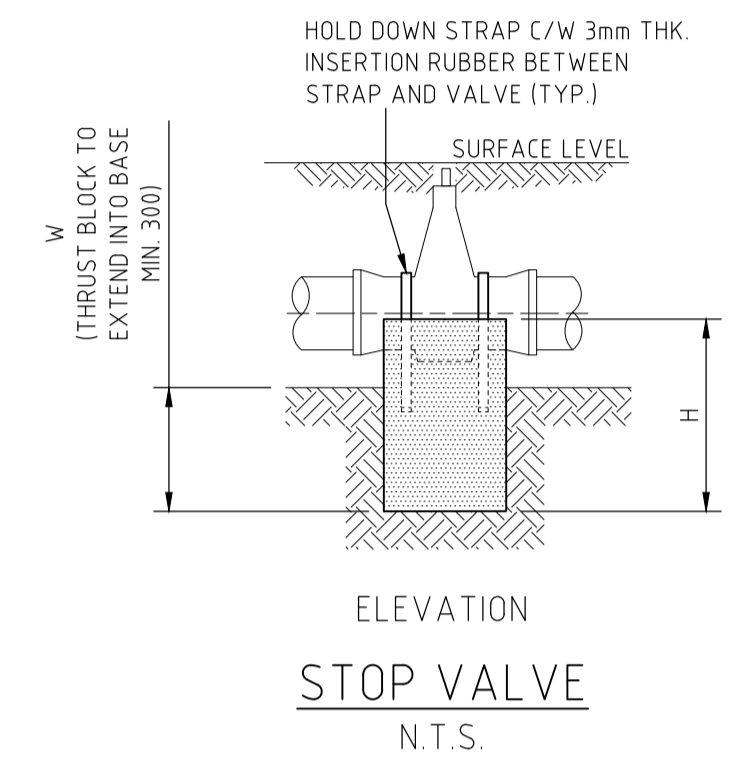
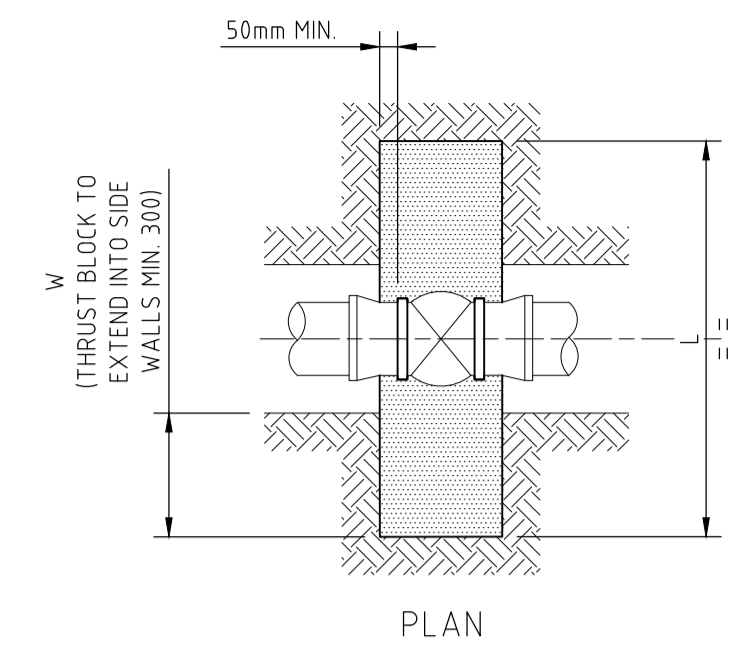
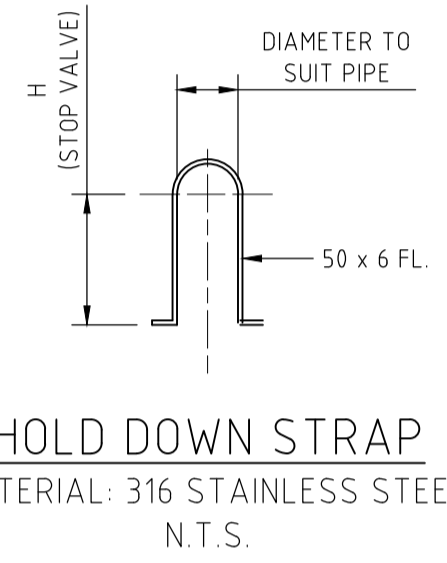
SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	ROAD CROSS SECTIONS - SHEET 4	239078(2.1 & 2.2)	- WAT -	035	WAC

100mm AT FULL SIZE



DIAL 1100
BEFORE YOU DIG



TYPE	FITTING	Soil AHBP (Kpa)	Design STP (Kpa)	Thrust	TA (m2)	Length (L)	Height (H)	Width (W)
1	DN250 x 90° BEND	100	1000	91.00	0.91	1.00	0.91	0.40
2	DN250 x 45° BEND	100	1000	51.00	0.51	0.75	0.68	0.40
3	DN250 x 22.5° BEND	100	1000	26.00	0.26	0.55	0.47	0.40
4	DN250 x 11.25° BEND	100	1000	13.00	0.13	0.40	0.33	0.40
5	DN250 FLUSHING HYDRANT	100	1000	65.00	0.65	0.85	0.76	0.40
6	DN200 x DN200 EQUAL TEE	100	1000	43.00	0.43	0.70	0.61	0.30
7	DN200 x DN100 TAPER	100	1000	31.00	0.31	0.60	0.52	0.30
8	DN200 x 90° BEND	100	1000	60.00	0.60	0.80	0.75	0.30
9	DN200 x 45° BEND	100	1000	33.00	0.33	0.60	0.55	0.30
10	DN200 x 22.5° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
11	DN200 x 11.25° BEND	100	1000	8.10	0.08	0.30	0.30	0.30
12	DN200 STOP VALVE	100	1000	43.00	0.43	1.20	0.52	0.30
13	DN200 FLUSHING HYDRANT	100	1000	53.00	0.53	0.75	0.71	0.40
14	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
15	DN100 x 90° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
16	DN100 x 45° BEND	100	1000	8.80	0.09	0.30	0.30	0.30
17	DN100 x 22.5° BEND	100	1000	4.50	0.05	0.30	0.30	0.30
18	DN100 x 11.25° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
19	DN100 x 6° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
20	DN100 STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
21	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.40

THRUST BLOCK NOTES:

- CONCRETE THRUST BLOCKS WERE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- THRUST BLOCK DIMENSIONS WERE BASED ON THE MINIMUM ALLOWABLE HORIZONTAL BEARING PRESSURES OF THE SOIL AS SHOWN.
- THRUST BLOCKS WERE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS DID NOT 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 (N). MAXIMUM ENCASEMENT 180°.
- CONCRETE FOR THE THRUST BLOCKS WERE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE WAS MECHANICALLY VIBRATED.
- CONCRETE THRUST BLOCKS WERE 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.

100mm AT FULL SIZE

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	
0	27.08.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		<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>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.1 & 2.2 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>THRUST BLOCK DETAILS</p>	<p>ADW Johnson</p>	<p>A.H.D.</p>	<p>239078(2.1 & 2.2)</p>	<p>- WAT -</p>	<p>036</p>	<p>WAC</p>	
1	25.09.2015	AMENDED CONSTRUCTION ISSUE - RETAINING WALLS RELOCATED	J.N.	L.G.	J.N.	L.G.												
2	18.11.2015	AMENDED CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.												
3	04.03.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.												
3	02.08.2016	AMENDED CONSTRUCTION ISSUE - FS COMMENTS/SERVICES MOVED	J.N.	L.G.	J.N.	L.G.												
WAC		WORK AS CONSTRUCTED - RAR	A.S.A.	L.G.	J.N.	B.K.												