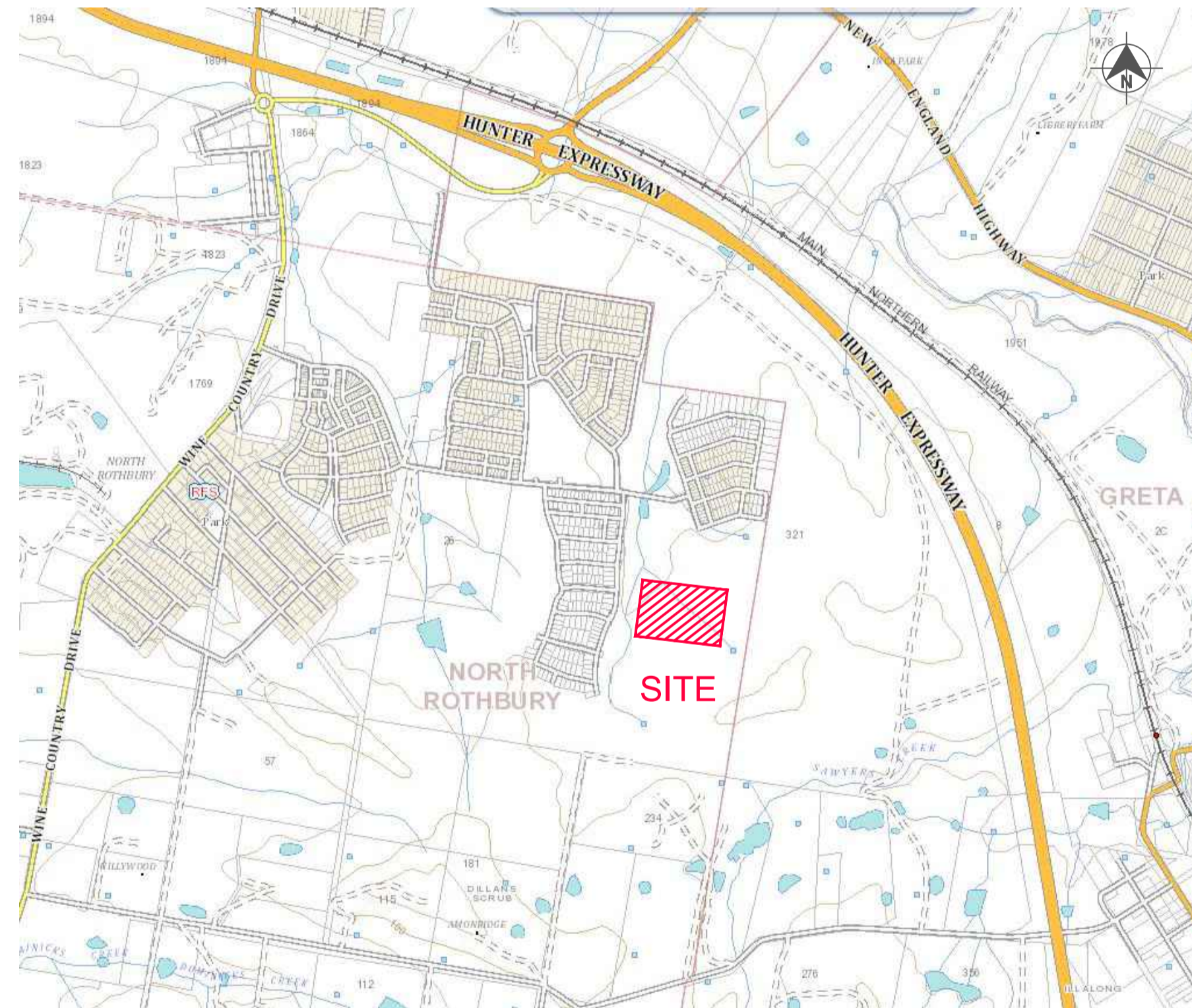




PROPOSED SUBDIVISION STAGE 29 HUNTLEE



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
Sheet Title	Sheet Description
240037(29)-WAT-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(29)-WAT-002	GENERAL NOTES
240037(29)-WAT-003	OVERALL SITE PLAN
240037(29)-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
240037(29)-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
240037(29)-WAT-103	POTABLE WATER DETAIL PLAN - SHEET 3
240037(29)-WAT-104	POTABLE WATER DETAIL PLAN - SHEET 4
240037(29)-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
240037(29)-WAT-202	RECYCLED WATER DETAIL PLAN - SHEET 2
240037(29)-WAT-203	RECYCLED WATER DETAIL PLAN - SHEET 3
240037(29)-WAT-204	RECYCLED WATER DETAIL PLAN - SHEET 4
240037(29)-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
240037(29)-WAT-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
240037(29)-WAT-303	PRESSURE SEWER DETAIL PLAN - SHEET 3
240037(29)-WAT-304	PRESSURE SEWER DETAIL PLAN - SHEET 4
240037(29)-WAT-401	TYPICAL PIPEWORK TRENCHING DETAILS
240037(29)-WAT-402	TYPICAL SERVICE CONNECTION DETAILS
240037(29)-WAT-403	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(29)-WAT-404	THRUST BLOCK DETAILS

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	COVER SHEET, LOCALITY PLAN & DRAWING INDEX		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(29)	- WAT -	001	1

100mm AT FULL SIZE

240037(29)-WAT-001 to 003

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.

POTABLE WATER AND RECYCLED WATER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.

GENERAL NOTES:

- 1. THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS.



CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

Table with columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm), MINIMUM VERTICAL CLEARANCE (mm). Rows include Water Mains, Gas Mains, Telecommunication Conduits, etc.

- NOTES:
1. VERTICAL CLEARANCES APPLY WHERE PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER/SEWER MAINS WHEN A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED.
2. WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.

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

100mm AT FULL SIZE

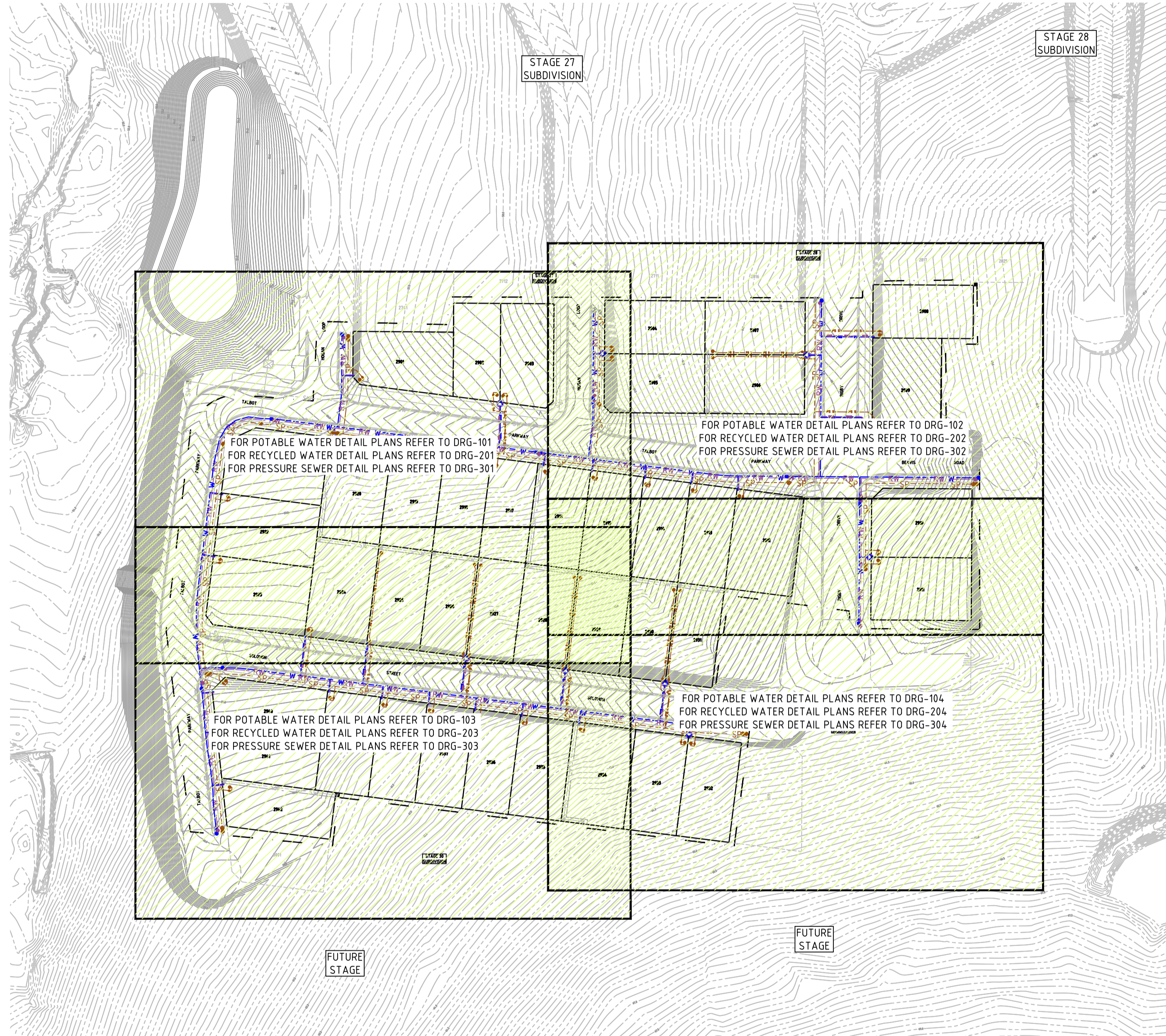
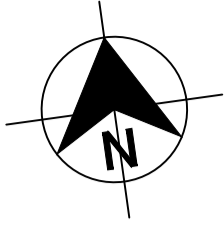
Table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES. Includes revision history for preliminary issue and construction.

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

altogether. logo

Table with columns: PROPERTY DESCRIPTION, PROJECT, PLAN TITLE, SURVEYED, DATUM, PROJECT No., DISCIPLINE, NUMBER, REV. Includes project details for Potable Water, Recycled Water and Pressure Sewer Reticulation.

CONSTRUCTION ISSUE



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.
B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.

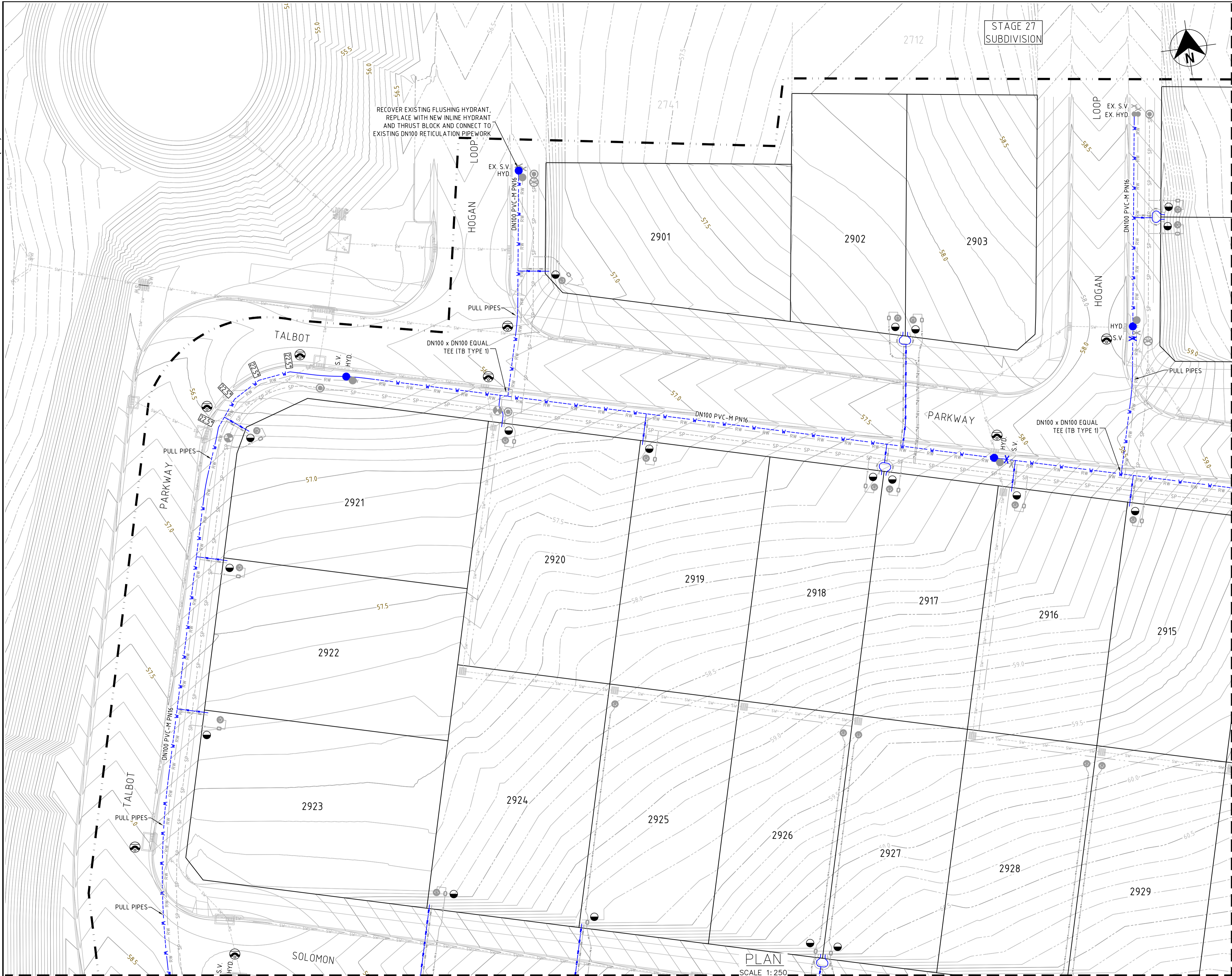
SCALES
0 10 20 30 40 50 75
Bar Scale 1: 1000

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION STAGE 29 HUNTLEE	
SURVEYED Daly.Smith Pty Ltd	DATUM GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	OVERALL SITE PLAN		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(29)	- WAT -	003	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
*	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 42 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 20 x SHORT SIDE
 - 4 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 4 x LONG SIDE

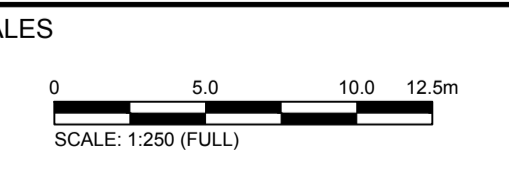
POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	130
DN100	PVC-M PN16	612
DN20 (LATERAL)	PE100 PN16	236

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - IF WORKS ARE BEING CONSTRUCTED CONCURRENTLY WITH AN ADJACENT STAGE, DO NOT INSTALL STOP VALVE /FLUSHING HYDRANT UNLESS CONFIRMATION IS GIVEN FROM ALTOGETHER REPRESENTATIVE.

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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CLIENT

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PROPERTY DESCRIPTION

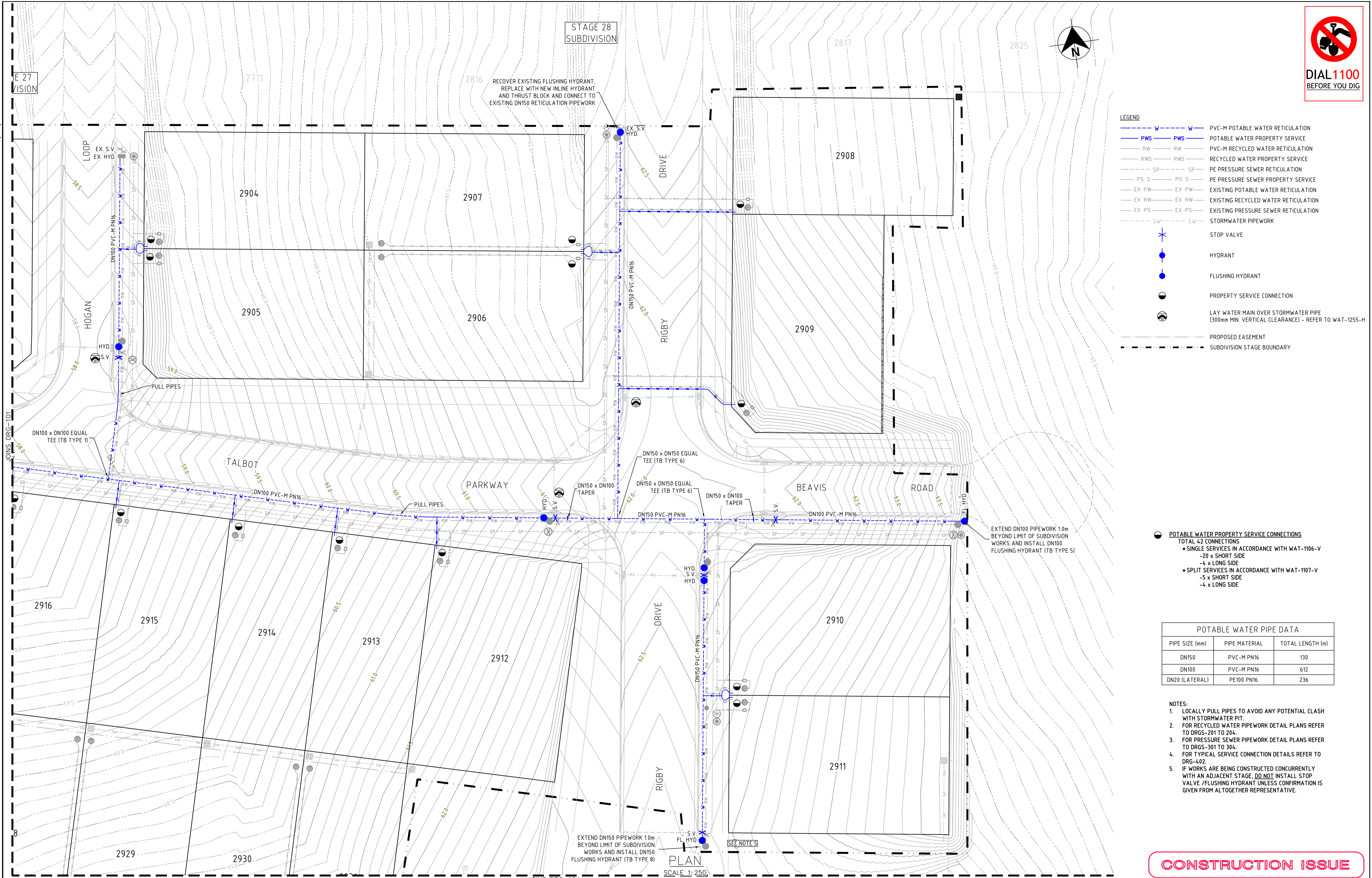
PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(29)	- WAT -	101	1

240037(29)-WAT-004 to 007

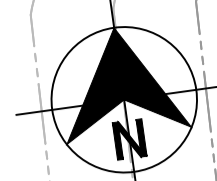
JOINS DRG-101

100mm AT FULL SIZE



STAGE 28 SUBDIVISION

RECOVER EXISTING FLUSHING HYDRANT, REPLACE WITH NEW INLINE HYDRANT AND THRUST BLOCK AND CONNECT TO EXISTING DN150 RETICULATION PIPEWORK



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
*	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 42 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 20 x SHORT SIDE
 - 4 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)
DN150	PVC-M PN16	130
DN100	PVC-M PN16	612
DN20 (LATERAL)	PE100 PN16	236

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 5. IF WORKS ARE BEING CONSTRUCTED CONCURRENTLY WITH AN ADJACENT STAGE, DO NOT INSTALL STOP VALVE / FLUSHING HYDRANT UNLESS CONFIRMATION IS GIVEN FROM ALTOGETHER REPRESENTATIVE.

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

SCALE: 1:250

SCALE: 1:250 (FULL)

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
 POTABLE WATER DETAIL PLAN - SHEET 2

PROJECT No.
 240037(29)

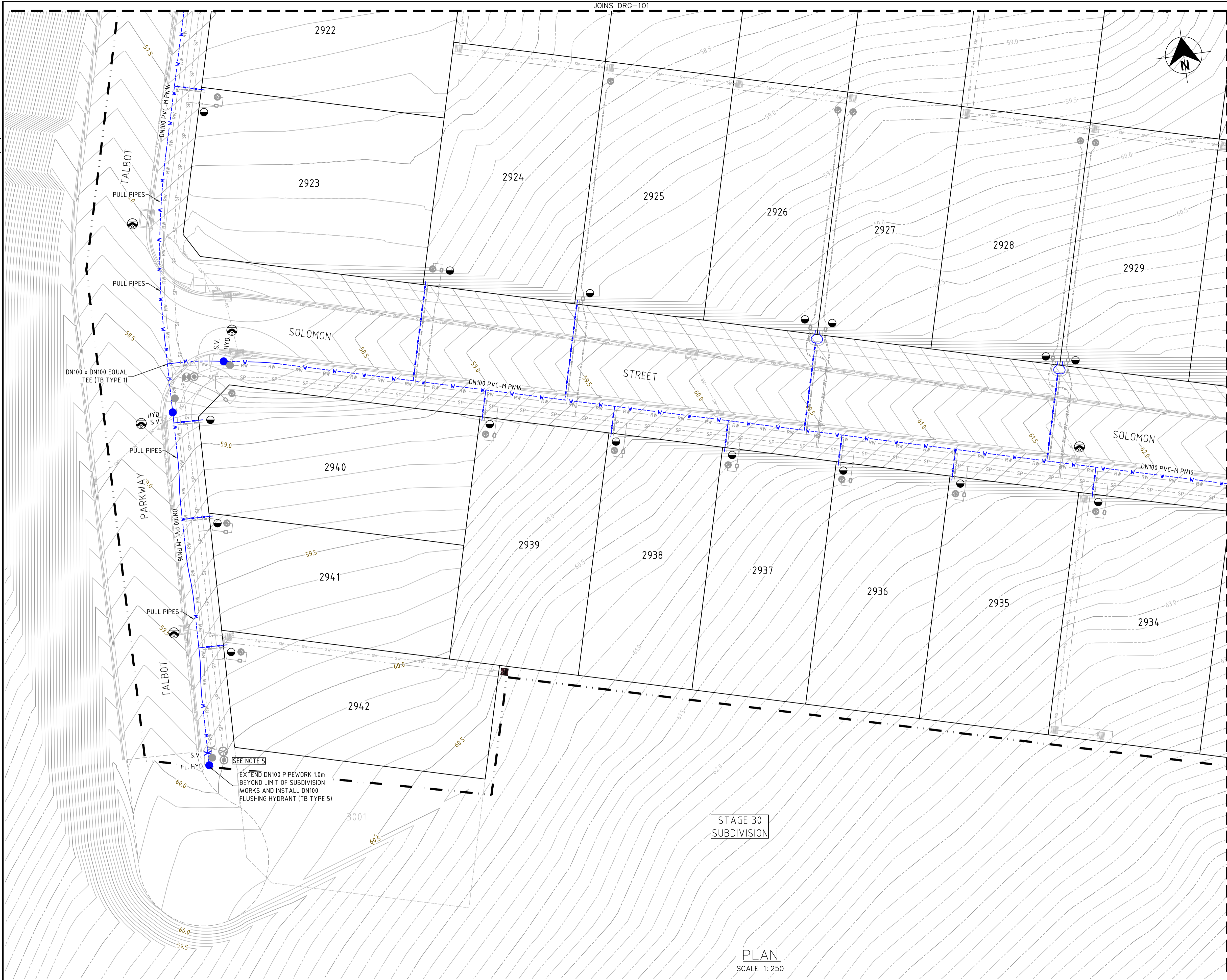
DISCIPLINE
 - WAT -

NUMBER
 102

REV.
 1

240037(29)-WAT-004 to 007

100mm AT FULL SIZE



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
- * - 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 42 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 20 x SHORT SIDE
 - 4 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)
DN150	PVC-M PN16	130
DN100	PVC-M PN16	612
DN20 (LATERAL)	PE100 PN16	236

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 5. IF WORKS ARE BEING CONSTRUCTED CONCURRENTLY WITH AN ADJACENT STAGE, DO NOT INSTALL STOP VALVE / FLUSHING HYDRANT UNLESS CONFIRMATION IS GIVEN FROM ALTOGETHER REPRESENTATIVE.

CONSTRUCTION ISSUE

STAGE 30 SUBDIVISION

PLAN SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.	
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CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

SURVEYED: Daly.Smith Pty Ltd
 DATUM: GDA94 MGA56 - A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

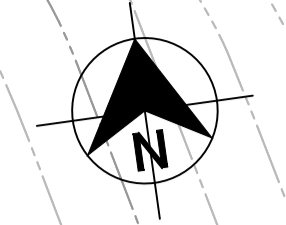
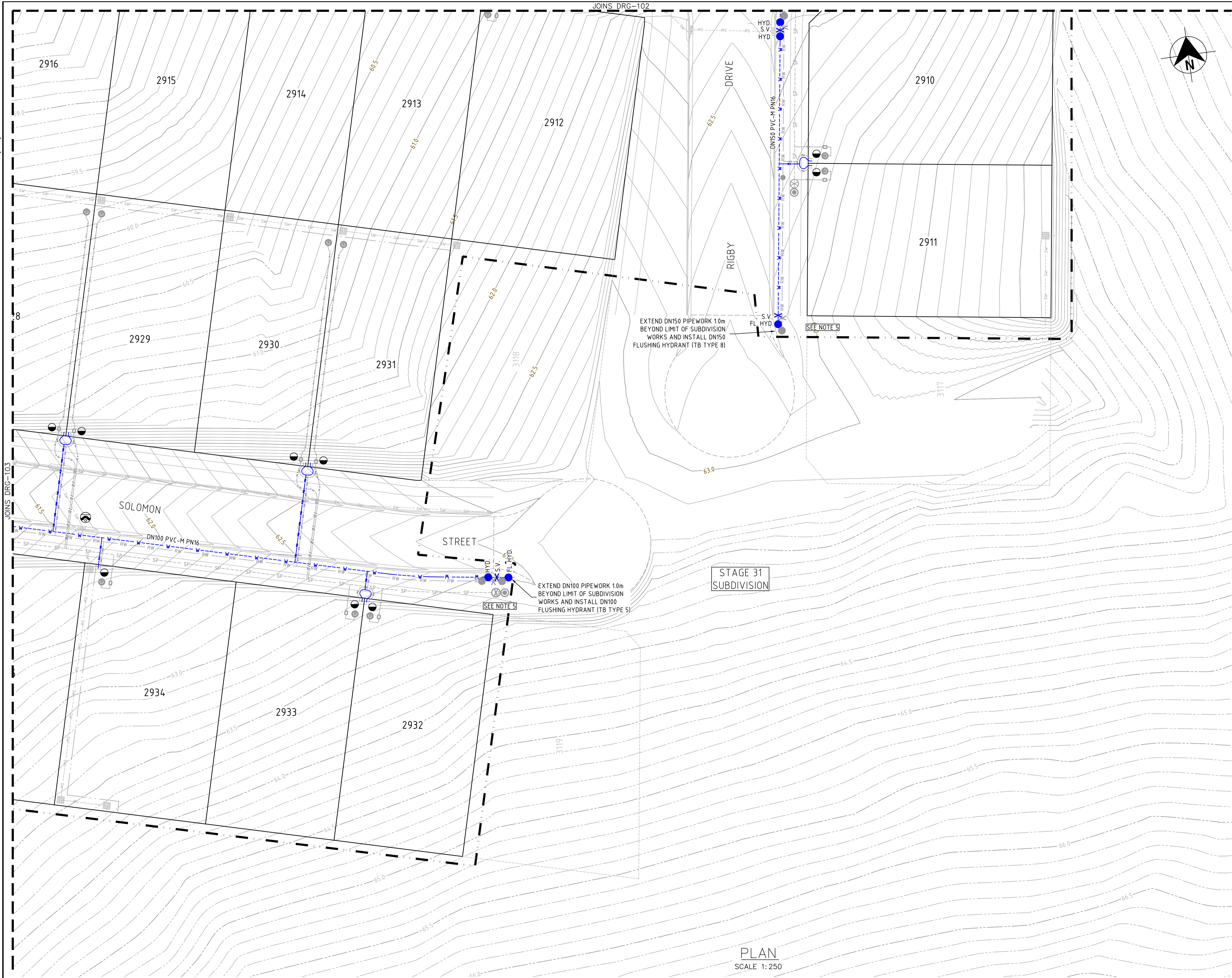
PLAN TITLE: POTABLE WATER DETAIL PLAN - SHEET 3

PROJECT No. 240037(29) DISCIPLINE - WAT - NUMBER 103 REV. 1

240037(29)-WAT-004 to 007

JOINS DRG-103

100mm AT FULL SIZE



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
*	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 42 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 20 x SHORT SIDE
 - 4 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)
DN150	PVC-M PN16	130
DN100	PVC-M PN16	612
DN20 (LATERAL)	PE100 PN16	236

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 5. IF WORKS ARE BEING CONSTRUCTED CONCURRENTLY WITH AN ADJACENT STAGE, DO NOT INSTALL STOP VALVE / FLUSHING HYDRANT UNLESS CONFIRMATION IS GIVEN FROM ALTOGETHER REPRESENTATIVE.

PLAN
SCALE 1:250

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

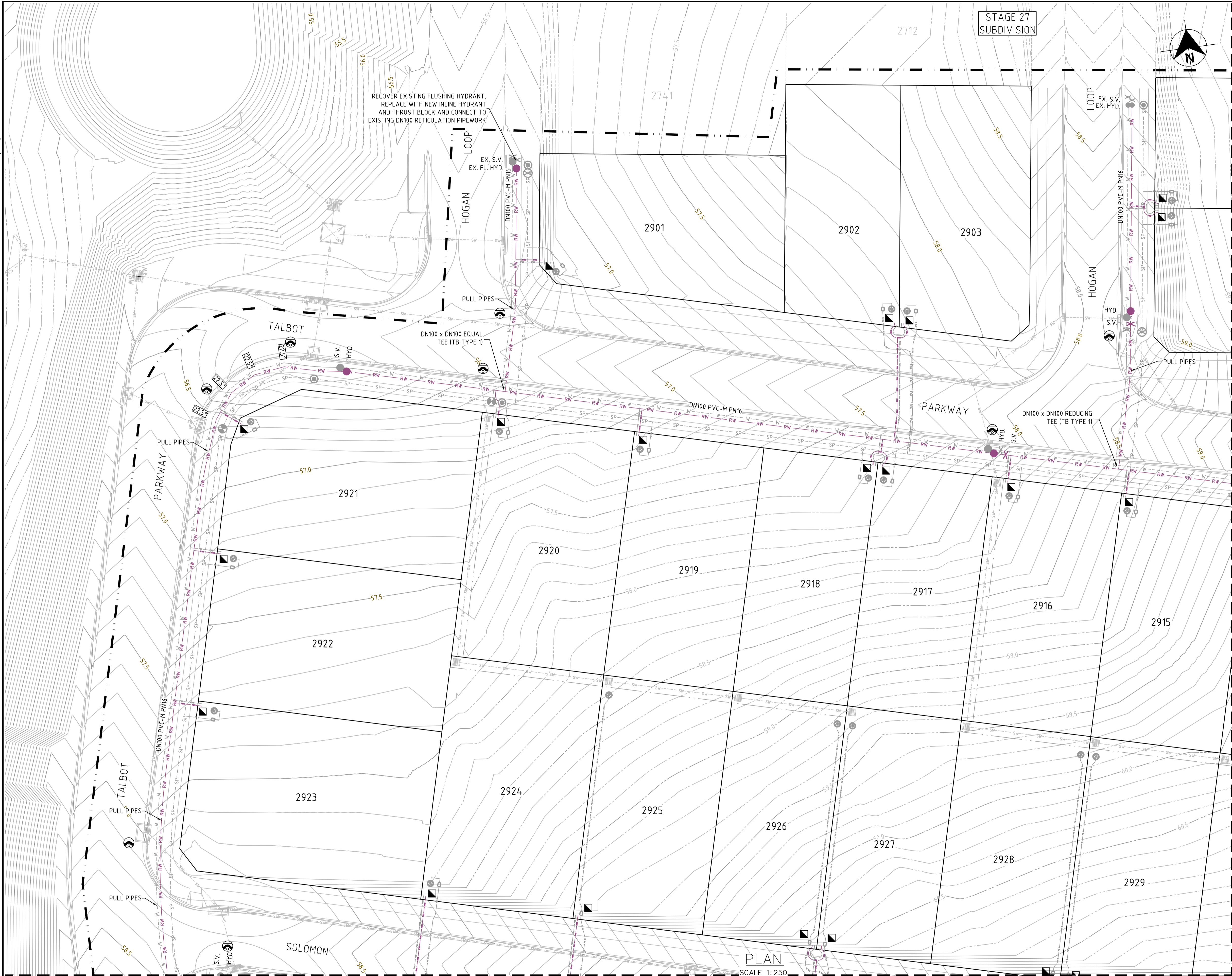
PROJECT
 POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
 POTABLE WATER DETAIL PLAN - SHEET 4

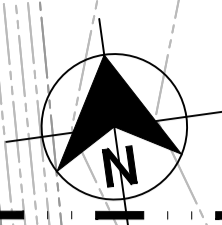
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(29)	- WAT -	104	1

240037(29)-WAT-009 to 012

100mm AT FULL SIZE



STAGE 27
SUBDIVISION



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 RW	EXISTING RECYCLED WATER RETICULATION
EX PW	EXISTING POTABLE WATER RETICULATION
EX PS	EXISTING PRESSURE SEWER RETICULATION
SW	STORMWATER PIPEWORK
SV	STOP VALVE
HYD	HYDRANT
FL HYD	FLUSHING HYDRANT
■	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 42 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 20 x SHORT SIDE
 - 4 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	727
DN25 (LATERAL)	PE100 PN16	242

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 5. IF WORKS ARE BEING CONSTRUCTED CONCURRENTLY WITH AN ADJACENT STAGE, **DO NOT** INSTALL STOP VALVE /FLUSHING HYDRANT UNLESS CONFIRMATION IS GIVEN FROM ALTOGETHER REPRESENTATIVE.

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

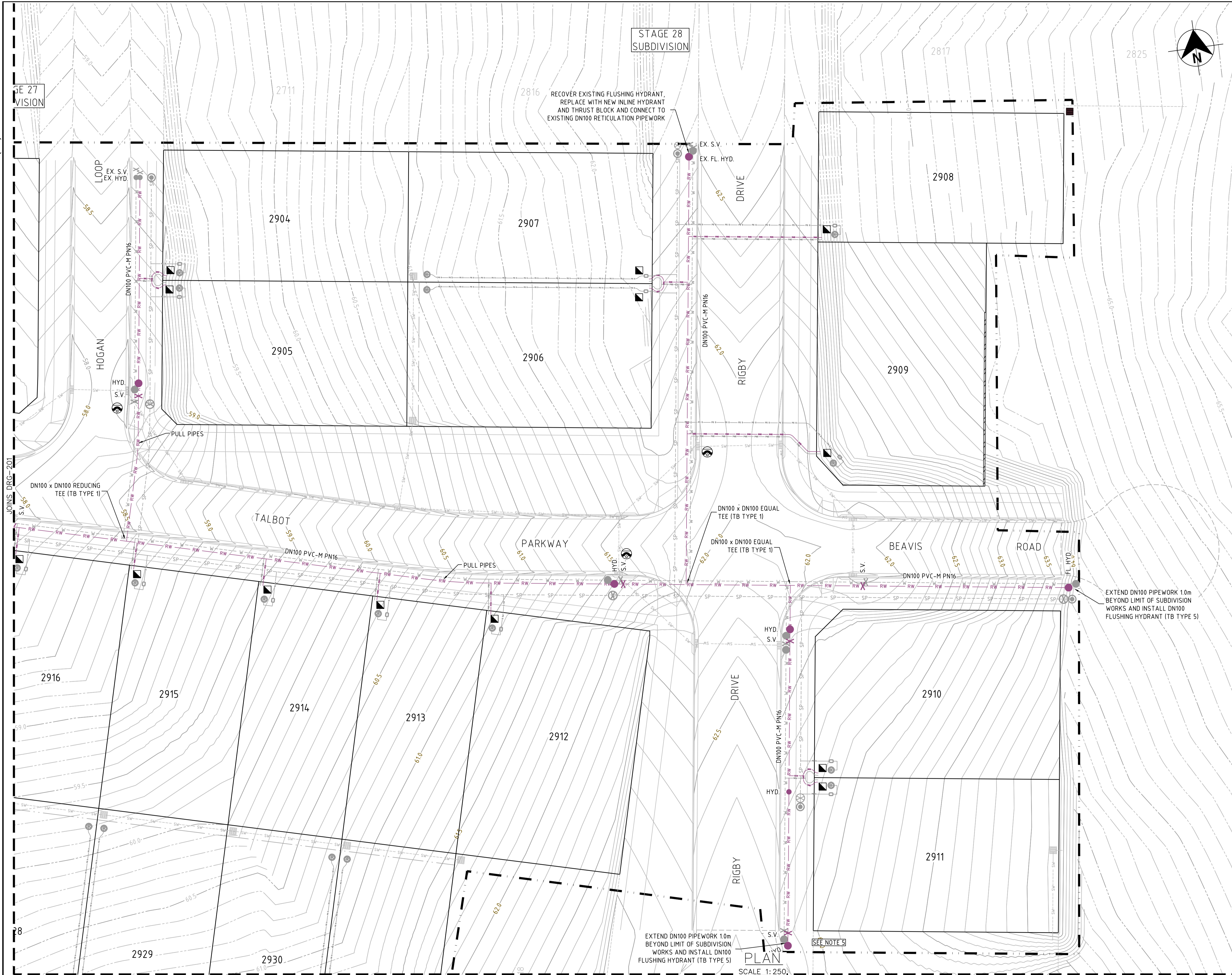
DATUM
 GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 1		
PROJECT No.	240037(29)	DISCIPLINE	- WAT -
NUMBER	201	REV.	1

240037(29)-WAT-009 to 012

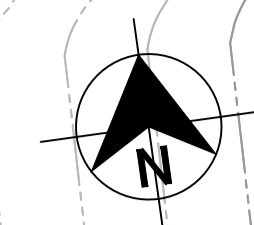
JOINS DRG-201

100mm AT FULL SIZE



STAGE 28 SUBDIVISION

SEE 27 VISION



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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 42 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 20 x SHORT SIDE
 - 4 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	727
DN25 (LATERAL)	PE100 PN16	242

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - IF WORKS ARE BEING CONSTRUCTED CONCURRENTLY WITH AN ADJACENT STAGE, DO NOT INSTALL STOP VALVE /FLUSHING HYDRANT UNLESS CONFIRMATION IS GIVEN FROM ALTOGETHER REPRESENTATIVE.

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
 RECYCLED WATER DETAIL
 PLAN - SHEET 2

PROJECT No.
 240037(29)

DISCIPLINE
 - WAT -

NUMBER
 202

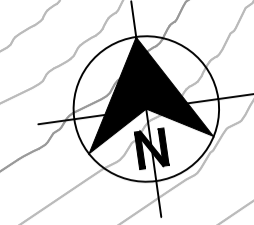
REV.
 1

240037(29)-WAT-009 to 012

JOINS DRG-201



DIAL 1100 BEFORE YOU DIG



LEGEND

- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- W PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- SP PE PRESSURE SEWER RETICULATION
- PS S PE PRESSURE SEWER PROPERTY SERVICE
- EX RW EXISTING RECYCLED WATER RETICULATION
- EX W EXISTING POTABLE 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 42 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 20' x SHORT SIDE
 - 4' 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	727
DN25 (LATERAL)	PE100 PN16	242

- NOTES:
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 5. IF WORKS ARE BEING CONSTRUCTED CONCURRENTLY WITH AN ADJACENT STAGE, DO NOT INSTALL STOP VALVE /FLUSHING HYDRANT UNLESS CONFIRMATION IS GIVEN FROM ALTOGETHER REPRESENTATIVE.

SEE NOTE 5
 EXTEND DN100 PIPEWORK 1.0m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL DN100 FLUSHING HYDRANT (TB TYPE 5)

STAGE 30
 SUBDIVISION

PLAN
 SCALE 1:250

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)
B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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 ABN 62 129 445 398

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altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
 RECYCLED WATER DETAIL
 PLAN - SHEET 3

PROJECT No.
 240037(29)

DISCIPLINE
 - WAT -

NUMBER
 203

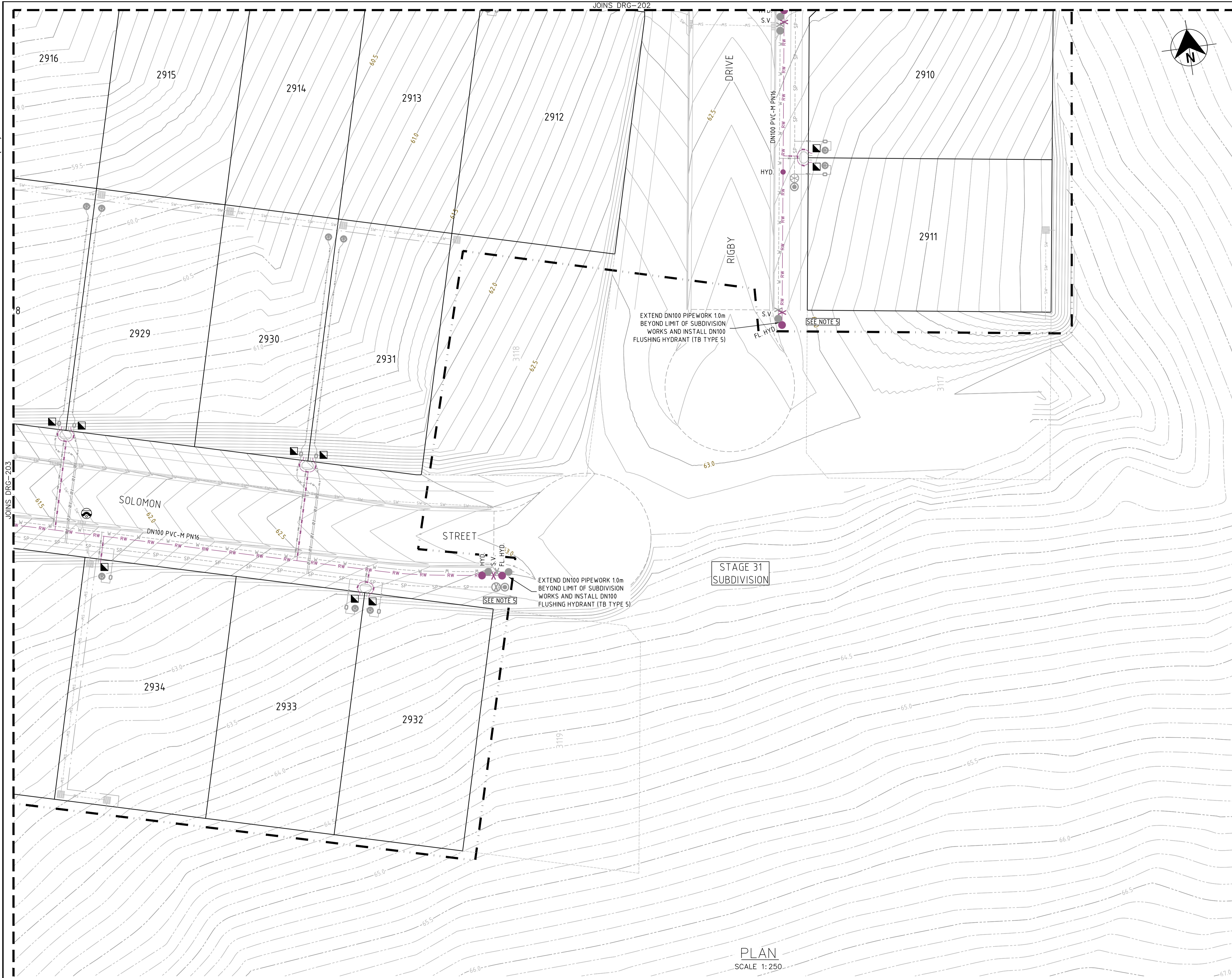
REV.
 1

240037(29)-WAT-009 to 012

JOINS DRG-203

100mm AT FULL SIZE

JOINS DRG-202



LEGEND

RW	RW	PVC-M RECYCLED WATER RETICULATION
RWS	RWS	RECYCLED WATER PROPERTY SERVICE
W	W	PVC-M POTABLE WATER RETICULATION
PWS	PWS	POTABLE WATER PROPERTY SERVICE
SP	SP	PE PRESSURE SEWER RETICULATION
PS S	PS S	PE PRESSURE SEWER PROPERTY SERVICE
EX RW	EX RW	EXISTING RECYCLED WATER RETICULATION
EX PW	EX PW	EXISTING POTABLE WATER RETICULATION
EX PS	EX PS	EXISTING PRESSURE SEWER RETICULATION
SW	SW	STORMWATER PIPEWORK
SV	SV	STOP VALVE
HYD.	HYD.	HYDRANT
FL HYD.	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



EXTEND DN100 PIPEWORK 1.0m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL DN100 FLUSHING HYDRANT (TB TYPE 5)

EXTEND DN100 PIPEWORK 1.0m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL DN100 FLUSHING HYDRANT (TB TYPE 5)

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 42 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 20' x SHORT SIDE
 - 4' 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	727
DN25 (LATERAL)	PE100 PN16	242

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 5. IF WORKS ARE BEING CONSTRUCTED CONCURRENTLY WITH AN ADJACENT STAGE, DO NOT INSTALL STOP VALVE /FLUSHING HYDRANT UNLESS CONFIRMATION IS GIVEN FROM ALTOGETHER REPRESENTATIVE.

PLAN
SCALE 1:250

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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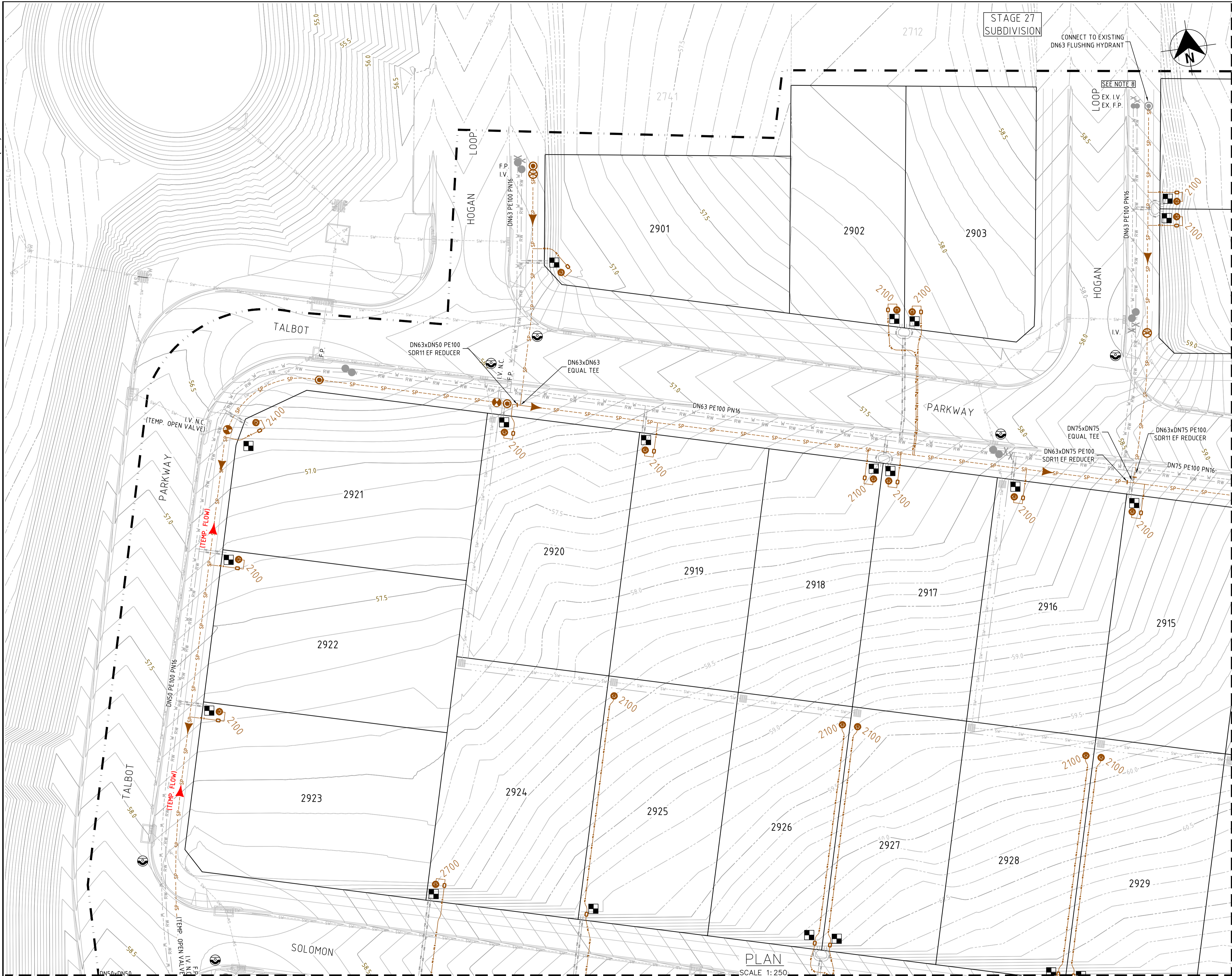
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 29
HUNTLEE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 4		
PROJECT No.	240037(29)	DISCIPLINE	- WAT -
NUMBER	204	REV.	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
- ISOLATION VALVE
- ISOLATION VALVE - NORMALLY CLOSED
- 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

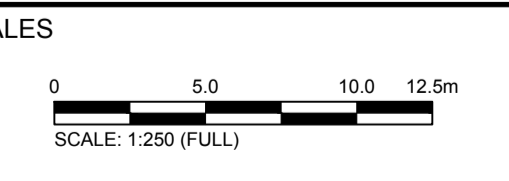
■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 42 CONNECTIONS
 • SINGLE SERVICES
 -30 x SHORT SIDE
 -12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN90	PE100 SDR11	58
DN75	PE100 SDR11	123
DN63	PE100 SDR11	212
DN50	PE100 SDR11	335
DN4.0 (LATERAL)	PE100 SDR11	593

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

CONSTRUCTION ISSUE

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0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
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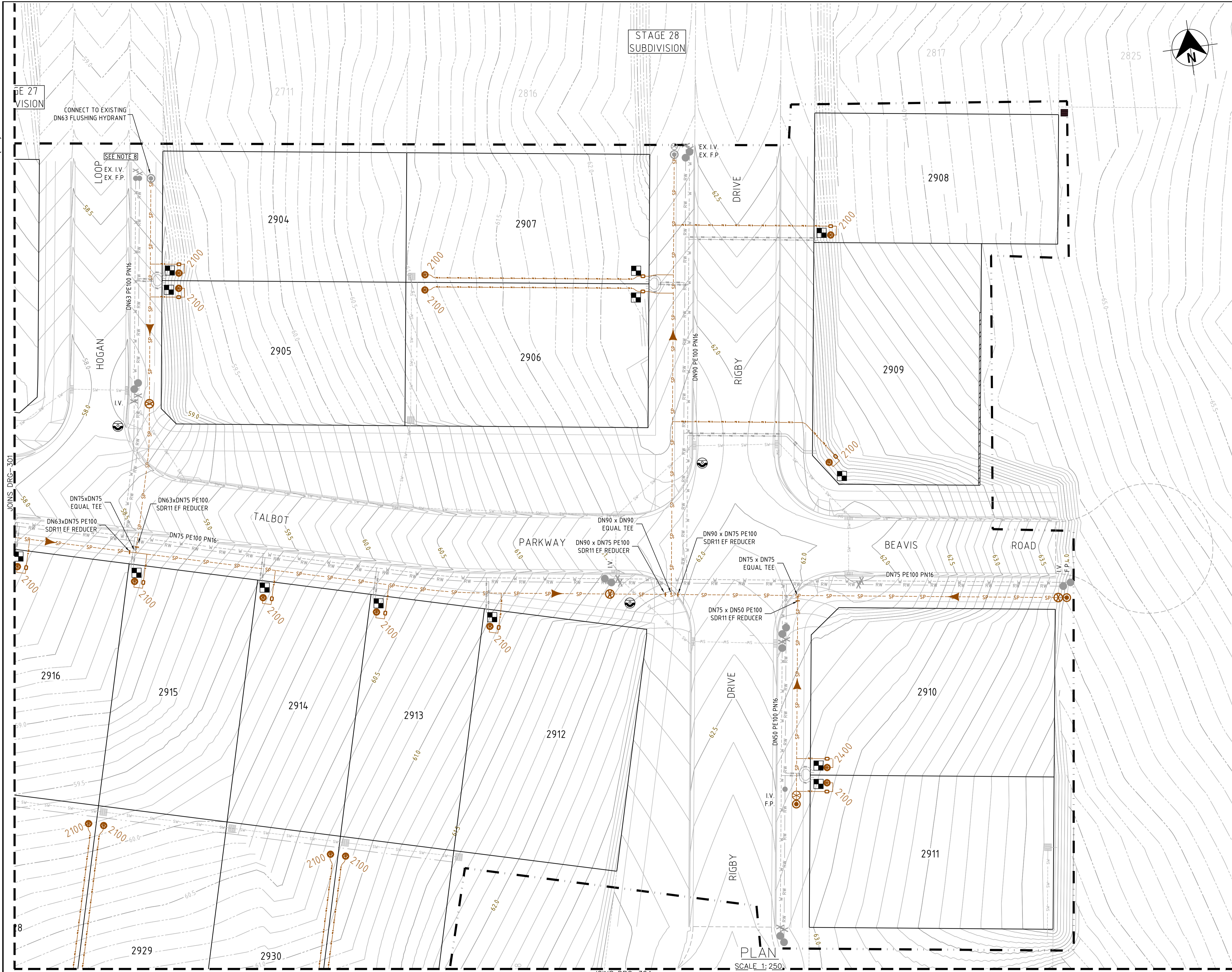
CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

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

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(29)	- WAT -	301	1

240037(29)-WAT-014 to 017



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
- ISOLATION VALVE
- ISOLATION VALVE - NORMALLY CLOSED
- 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

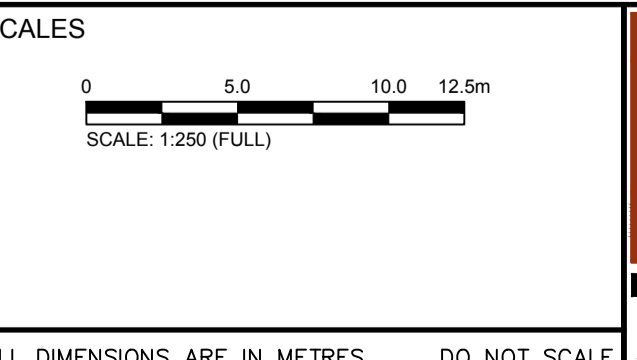
■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 42 CONNECTIONS
 • SINGLE SERVICES
 -30 x SHORT SIDE
 -12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN90	PE100 SDR11	58
DN75	PE100 SDR11	123
DN63	PE100 SDR11	212
DN50	PE100 SDR11	335
DN4.0 (LATERAL)	PE100 SDR11	593

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
 - ISOLATION VALVE IN NORTHERN END OF STAGE 27 BETWEEN HOGAN LOOP AND RIGBY DRIVE, TO BE CLOSED ON COMMISSIONING OF STAGE 29 SEWER.

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND
 PRESSURE SEWER RETICULATION

PLAN TITLE
 PRESSURE SEWER DETAIL
 PLAN - SHEET 2

PROJECT No.
 240037(29)

DISCIPLINE
 - WAT -

NUMBER
 302

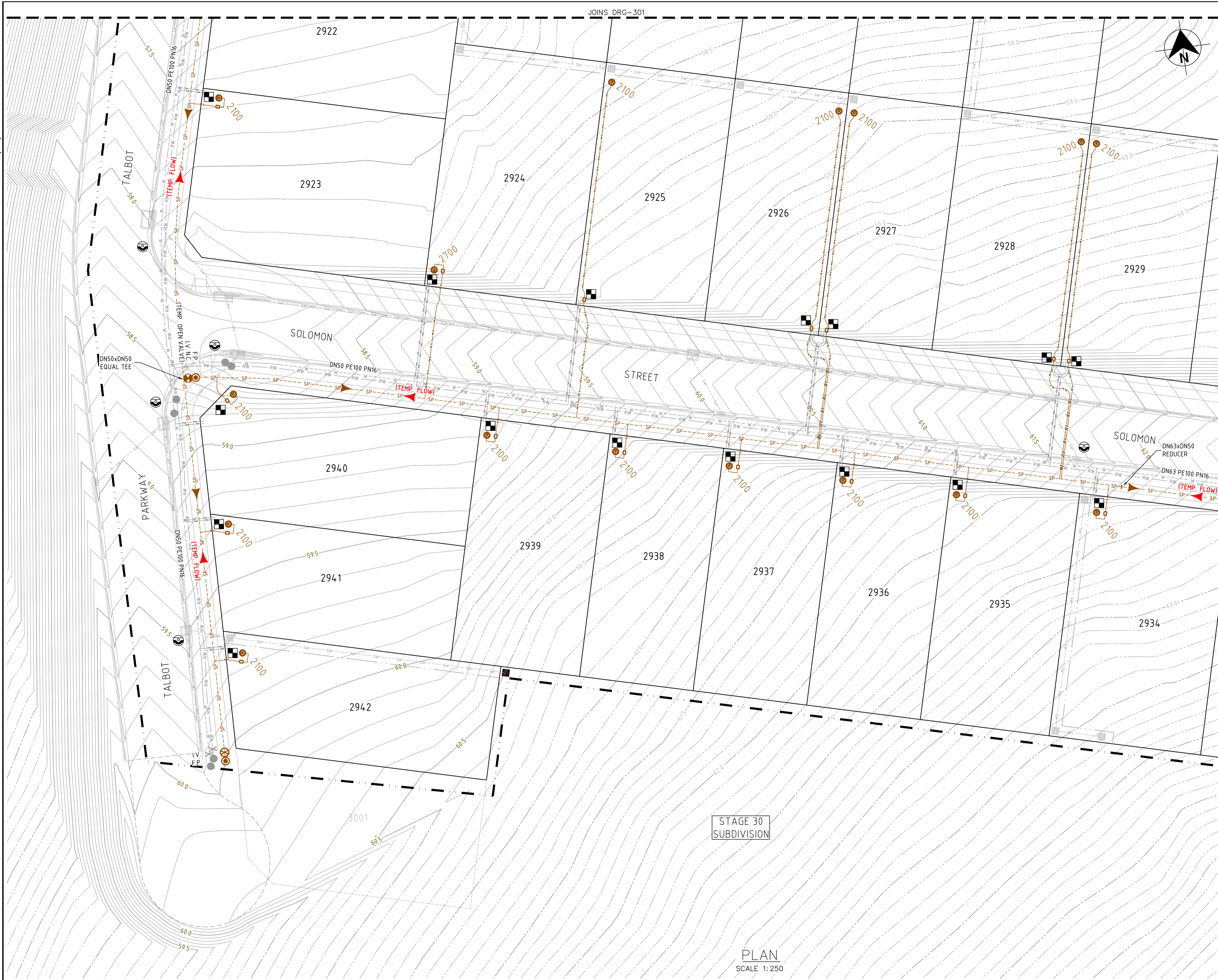
REV.
 1

240037(29)-WAT-014 to 017

100mm AT FULL SIZE

JOINS DRG-301

JOINS DRG-304



- 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
 - ISOLATION VALVE
 - ISOLATION VALVE - NORMALLY CLOSED
 - 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 42 CONNECTIONS
 • SINGLE SERVICES
 -30 x SHORT SIDE
 -12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN90	PE100 SDR11	58
DN75	PE100 SDR11	123
DN63	PE100 SDR11	212
DN50	PE100 SDR11	335
DN4.0 (LATERAL)	PE100 SDR11	593

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

STAGE 30
SUBDIVISION

PLAN
SCALE 1:250

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>13.10.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="4"> </td> </tr> <tr> <td>B</td> <td>22.11.2021</td> <td>ALTOGETHER COMMENTS</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>20.12.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.		B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.	0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	<p>adw Johnson</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>altogether.</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 29 HUNTLEE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>PRESSURE SEWER DETAIL PLAN - SHEET 3</p>	<table border="1"> <tr> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>240037(29)</td> <td>- WAT -</td> <td>303</td> <td>1</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	240037(29)	- WAT -	303	1
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<p>DESIGN FILE N:\</p>		<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>		<p>SURVEYED</p> <p>Daly.Smith Pty Ltd</p>		<p>DATUM</p> <p>GDA94 MGA56 - A.H.D.</p>																																													

240037(29)-WAT-014 to 017

JOINS DRG-303

100mm AT FULL SIZE

JOINS DRG-302



- LEGEND**
- SP --- SP PE PRESSURE SEWER RETICULATION
 - PS S --- PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W --- W PVC-M POTABLE WATER RETICULATION
 - PWS --- PWS POTABLE WATER PROPERTY SERVICE
 - RW --- RW PVC-M RECYCLED WATER RETICULATION
 - RWS --- RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS --- EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW --- EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW --- EX RW EXISTING RECYCLED WATER RETICULATION
 - SW --- SW STORMWATER PIPEWORK
 - ⊕ ISOLATION VALVE
 - ⊕ (with X) ISOLATION VALVE - NORMALLY CLOSED
 - ⊕ (with F) FLUSHING POINT
 - ⊕ (with T) WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - ▶ PRESSURE SEWER FLOW DIRECTION
 - ▶ (with T) PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - (with S) PROPERTY SERVICE CONNECTION
 - ⊕ (with S) 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 42 CONNECTIONS
- SINGLE SERVICES
- 30 x SHORT SIDE
- 12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN90	PE100 SDR11	58
DN75	PE100 SDR11	123
DN63	PE100 SDR11	212
DN50	PE100 SDR11	335
DN4.0 (LATERAL)	PE100 SDR11	593

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

PLAN
SCALE 1:250

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)
B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

Hunter Office
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 ABN 62 129 445 398

CLIENT

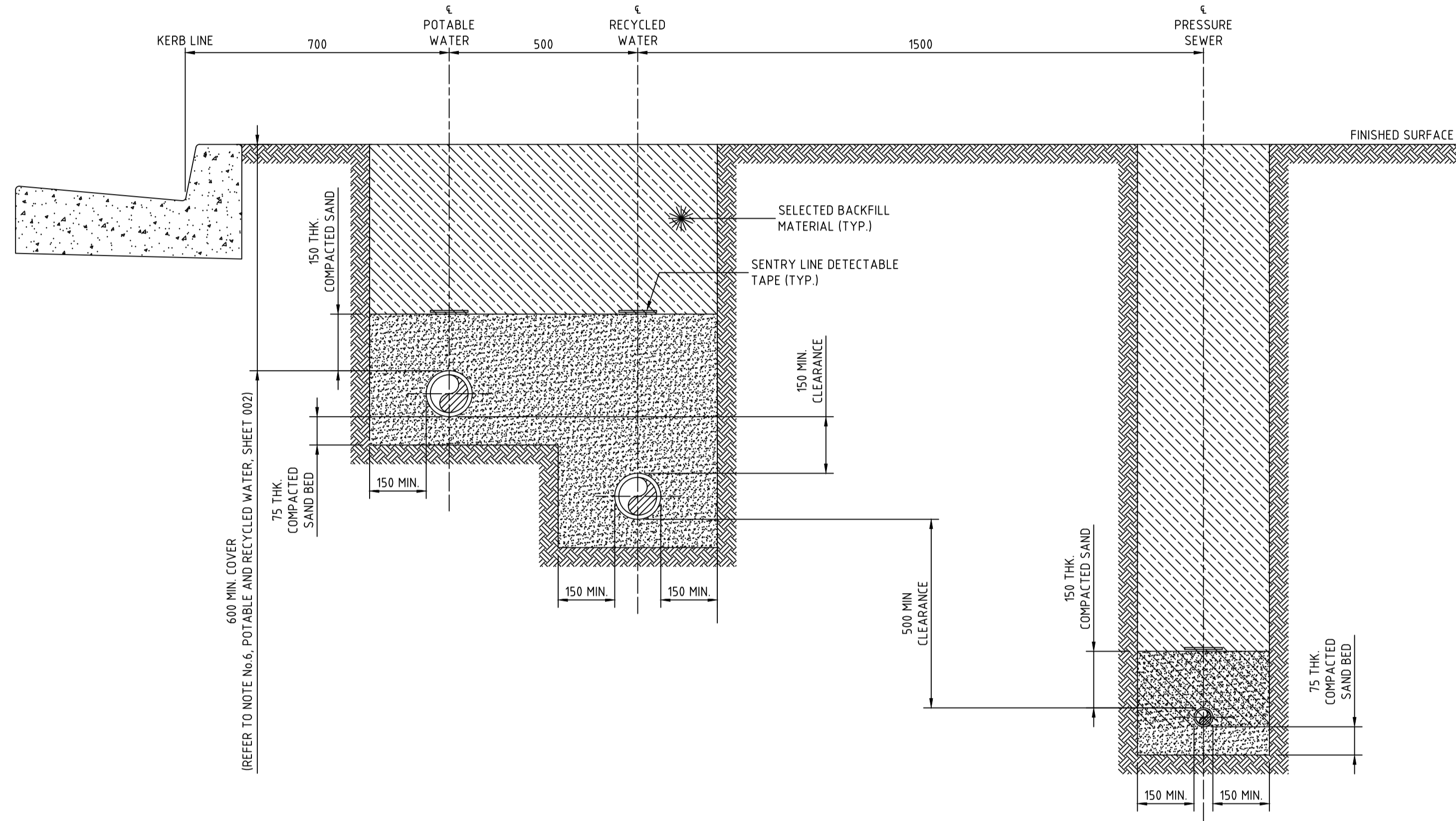
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE

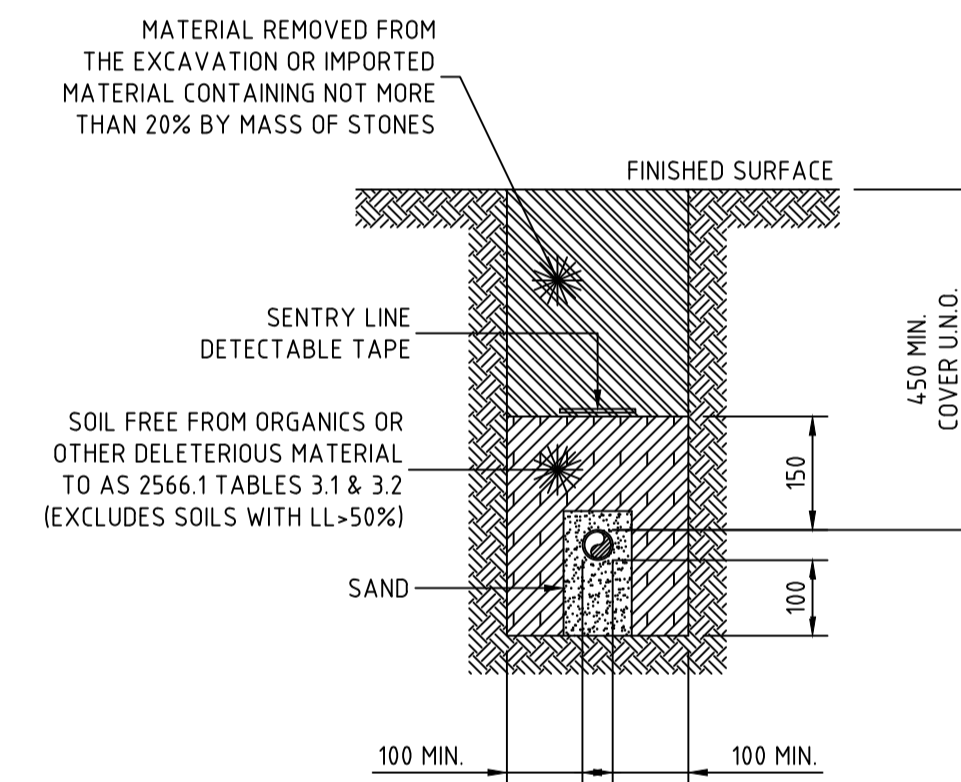
SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 4		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(29)	- WAT -	304	1



STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



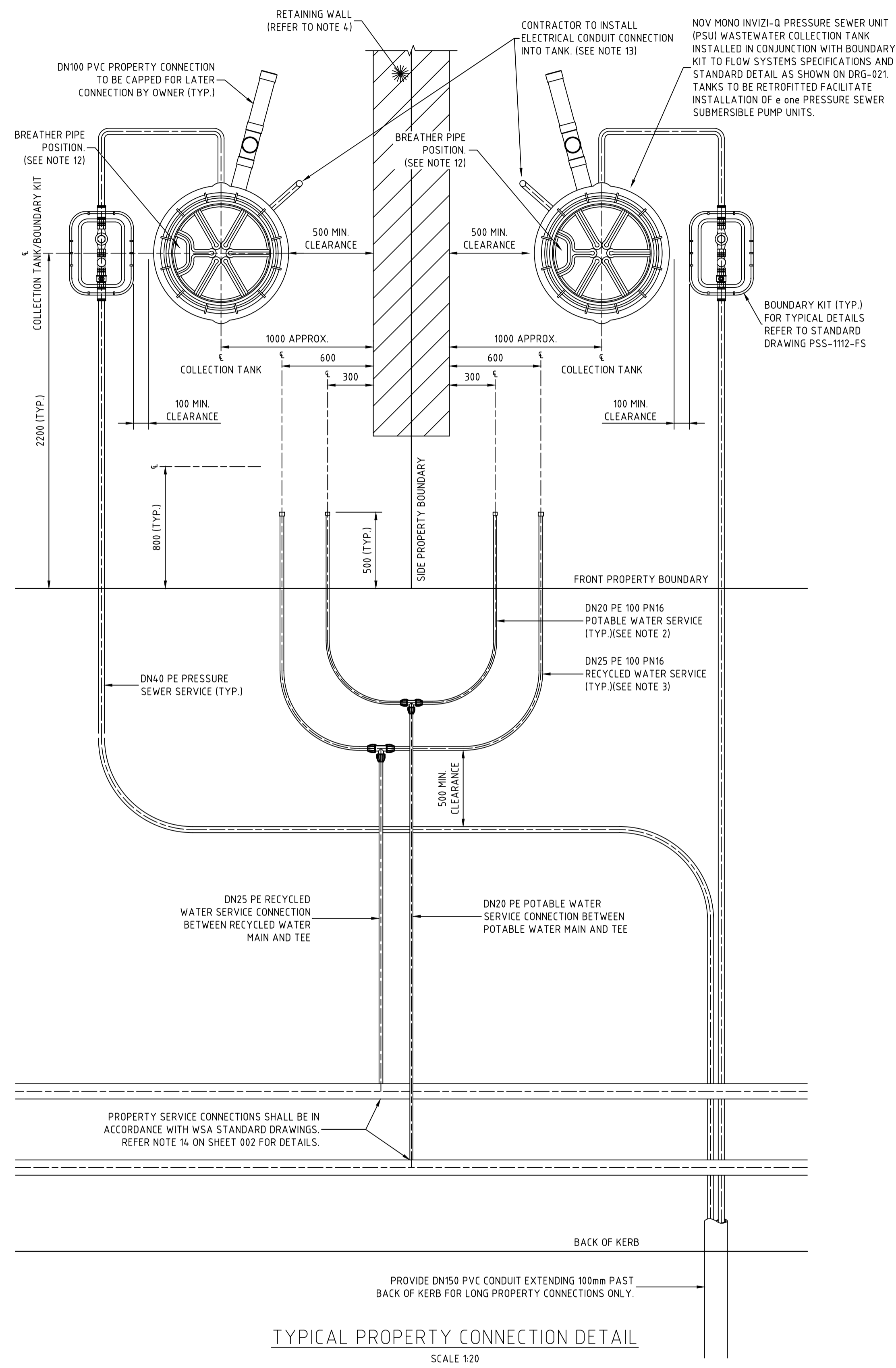
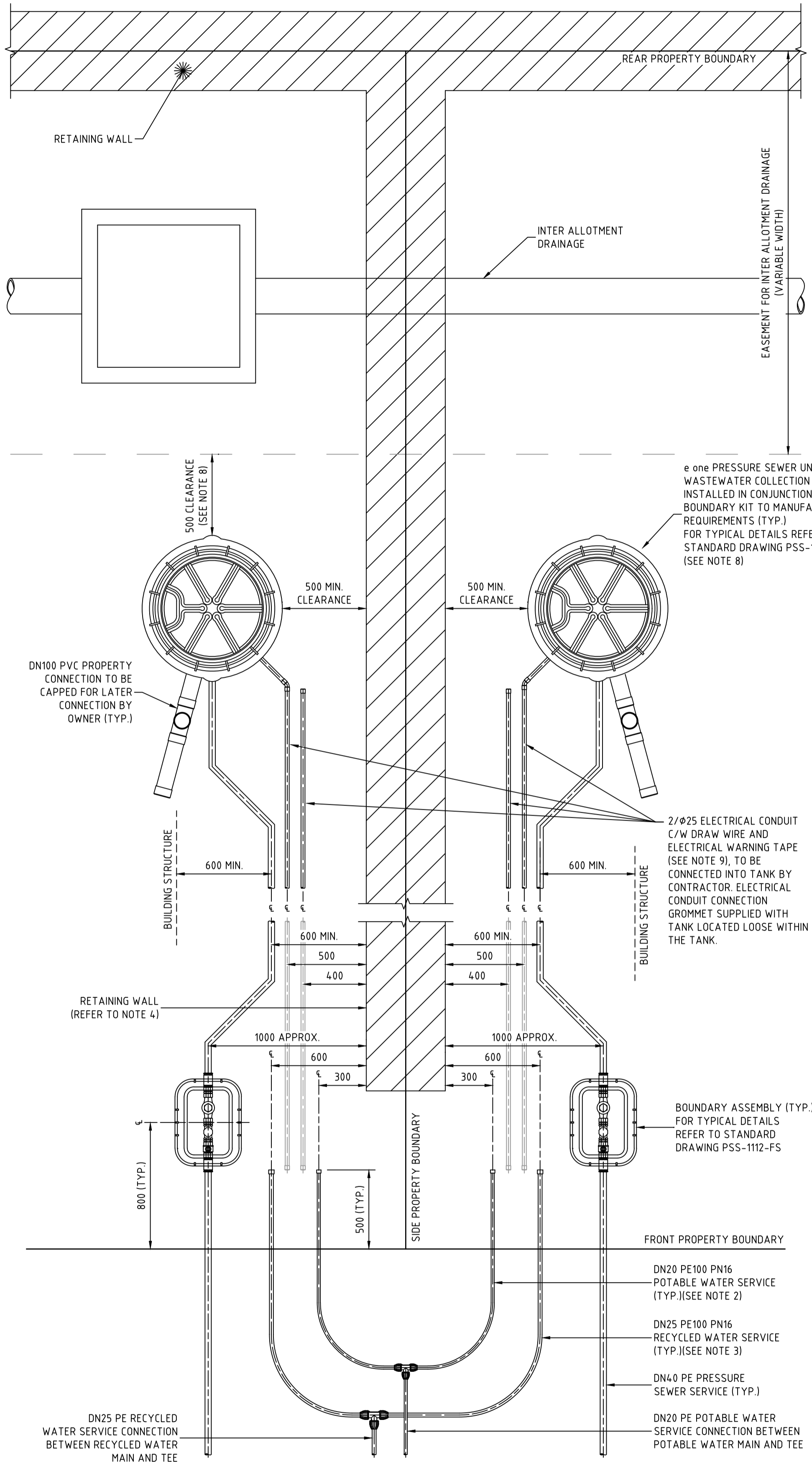
PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

NOTES:

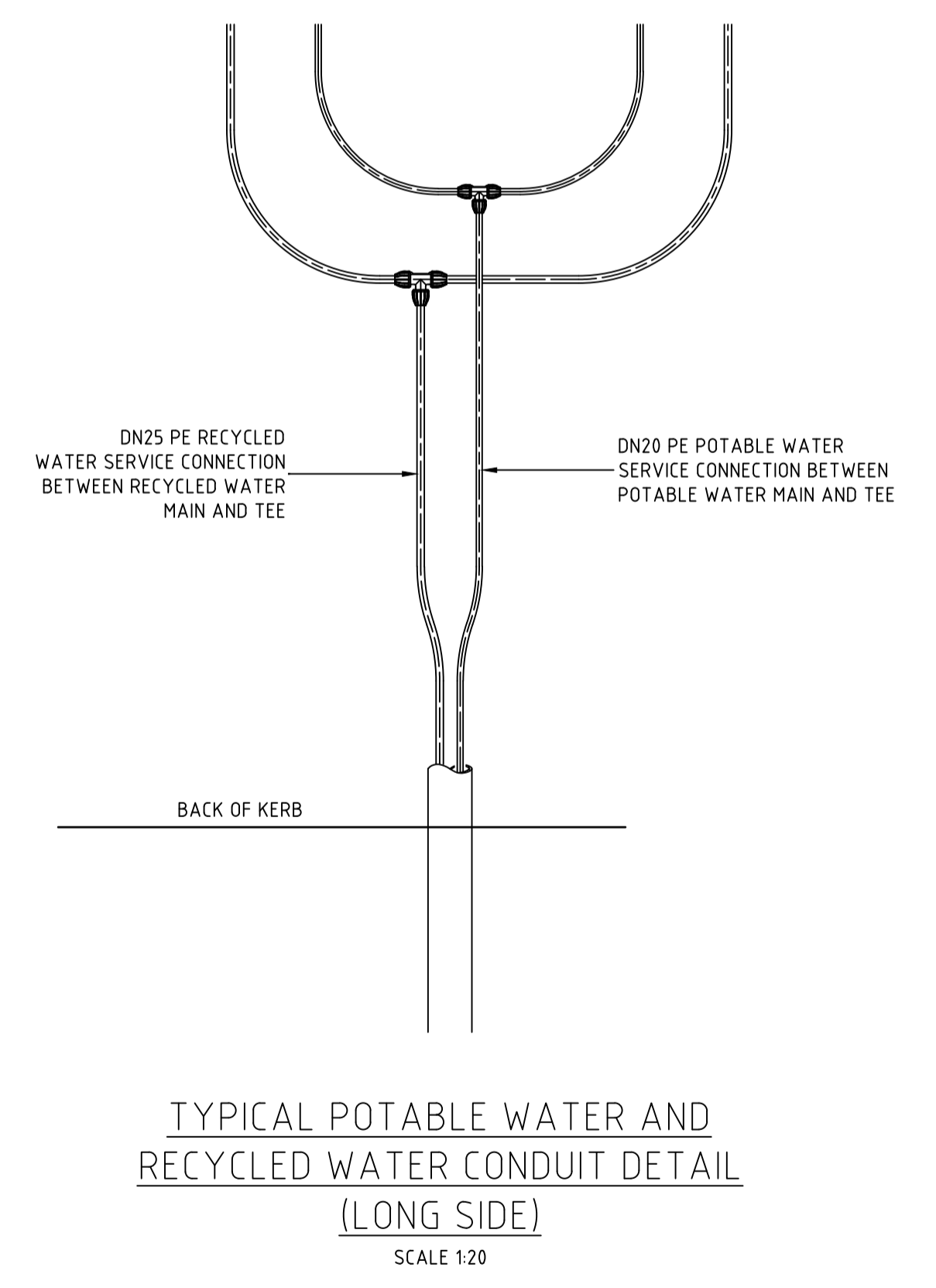
1. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.			
A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.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	PROPOSED SUBDIVISION STAGE 29 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		240037(29)	- WAT -	401	1			
B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.					SURVEYED Daly.Smith Pty Ltd					DATUM GDA94 MGA56 - A.H.D.	TYPICAL PIPEWORK TRENCHING DETAILS	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											PROJECT No. 240037(29) DISCIPLINE - WAT - NUMBER 401 REV. 1	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.												
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											



- 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 ~~DN20 500mm INSIDE FRONT PROPERTY BOUNDARY~~ AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE INSTALLED IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. 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 BREATHING PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
 - CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. ~~Ø25 CONDUIT TO BE PROVIDED WITH LARGE RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.~~



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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B	22.11.2021	ALTOGETHER COMMENTS FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.4 A1 / A3 1:20 / 1:40
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adw Johnson

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ABN 62 129 445 398

CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 29
HUNTLEE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
TYPICAL SERVICE CONNECTION DETAILS

PROJECT No.
240037(29)

DISCIPLINE
- WAT -

NUMBER
402

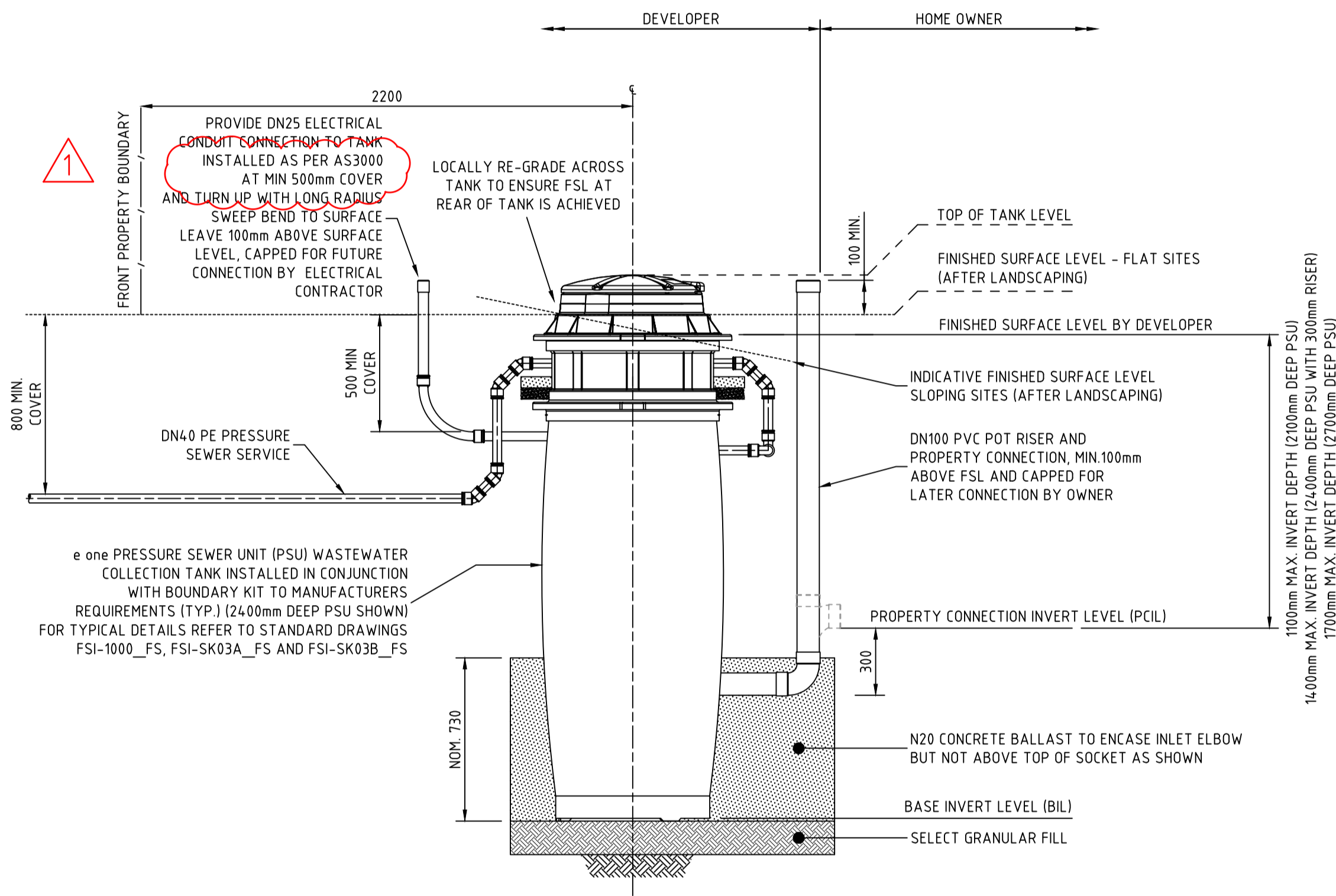
REV.
1

CONSTRUCTION ISSUE



WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING
2901	56.98	56.85	54.85	55.75	2100	FRONT BATTER	346792.34	6382781.84
2902	57.91	57.78	55.78	56.68	2100	FRONT	346835.01	6382770.94
2903	57.94	57.81	55.81	56.71	2100	FRONT	346836.95	6382770.41
2904	59.06	58.93	56.93	57.83	2100	FRONT BATTER	346873.11	6382779.91
2905	59.11	58.98	56.98	57.88	2100	FRONT BATTER	346872.82	6382777.93
2906	61.21	61.08	59.08	59.98	2100	REAR	346904.78	6382773.24
2907	61.25	61.12	59.12	60.02	2100	REAR	346905.07	6382775.22
2908	63.32	63.19	61.19	62.09	2100	FRONT BATTER	346958.52	6382773.02
2909	62.45	62.32	60.32	61.22	2100	FRONT BATTER	346954.19	6382743.49
2910	62.96	62.83	60.53	61.43	2400	FRONT	346948.38	6382703.86
2911	62.99	62.86	60.86	61.76	2100	FRONT	346948.09	6382701.88
2912	61.16	61.03	59.03	59.93	2100	FRONT	346907.12	6382728.33
2913	60.44	60.31	58.31	59.21	2100	FRONT	346892.64	6382732.26
2914	59.70	59.57	57.57	58.47	2100	FRONT	346890.71	6382732.78
2915	58.90	58.77	56.77	57.67	2100	FRONT	346861.76	6382740.63
2916	58.30	58.17	56.17	57.07	2100	FRONT	346859.83	6382741.15
2917	57.89	57.76	55.76	56.66	2100	FRONT	346830.87	6382749.00
2918	57.85	57.72	55.72	56.62	2100	FRONT	346828.94	6382749.53
2919	57.26	57.13	55.13	56.03	2100	FRONT	346799.99	6382757.38
2920	56.95	56.82	54.82	55.72	2100	FRONT	346782.13	6382762.22
2921	56.83	56.70	54.40	55.30	2400	FRONT BATTER	346750.22	6382767.95
2922	57.40	57.27	55.27	56.17	2100	FRONT	346745.52	6382750.59
2923	57.90	57.77	55.77	56.67	2100	FRONT	346735.77	6382714.62
2924	58.54	58.41	55.81	56.71	2700	FRONT BATTER	346765.09	6382705.08
2925	58.54	58.41	56.41	57.31	2100	REAR	346791.54	6382726.20
2926	59.36	59.23	57.23	58.13	2100	REAR	346820.49	6382718.35
2927	59.44	59.31	57.31	58.21	2100	REAR	346822.42	6382717.83
2928	59.92	59.79	57.79	58.69	2100	REAR	346851.38	6382709.98
2929	59.97	59.84	57.84	58.74	2100	REAR	346853.31	6382709.46
2930	60.66	60.53	58.53	59.43	2100	REAR	346882.26	6382701.61
2931	60.75	60.62	58.62	59.52	2100	REAR	346884.19	6382701.08
2932	63.35	63.22	61.22	62.12	2100	FRONT	346880.90	6382652.35
2933	63.29	63.16	61.16	62.06	2100	FRONT	346878.97	6382652.87
2934	62.44	62.31	60.31	61.21	2100	FRONT	346846.64	6382661.63
2935	61.93	61.80	59.80	60.70	2100	FRONT	346828.79	6382666.48
2936	61.40	61.27	59.27	60.17	2100	FRONT	346814.31	6382670.40
2937	60.83	60.70	58.70	59.60	2100	FRONT	346799.83	6382674.32
2938	60.08	59.95	57.95	58.85	2100	FRONT	346785.35	6382678.25
2939	59.27	59.14	57.14	58.04	2100	FRONT	346768.94	6382682.70
2940	58.64	58.51	56.51	57.41	2100	FRONT BATTER	346736.80	6382692.59
2941	59.45	59.32	57.32	58.22	2100	FRONT	346733.80	6382675.85
2942	59.89	59.76	57.76	58.66	2100	FRONT	346733.29	6382658.89



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	39
2400	2
2700	1

CONSTRUCTION ISSUE

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>13.10.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>B</td> <td>22.11.2021</td> <td>ALTOGETHER COMMENTS</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>20.12.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.	0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	<p>SCALES</p> <p>0 0.4 0.8 A1 / A3 1:20 / 1:40</p>	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 29 HUNTLEE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>
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<p>DESIGN FILE N:\</p>		<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>		<p>SURVEYED</p> <p>Daly.Smith Pty Ltd</p>	<p>DATUM</p> <p>GDA94 MGA56 - A.H.D.</p>	<p>PROJECT No.</p> <p>240037(29)</p>	<p>DISCIPLINE</p> <p>- WAT -</p>	<p>NUMBER</p> <p>403</p>	<p>REV.</p> <p>1</p>																															

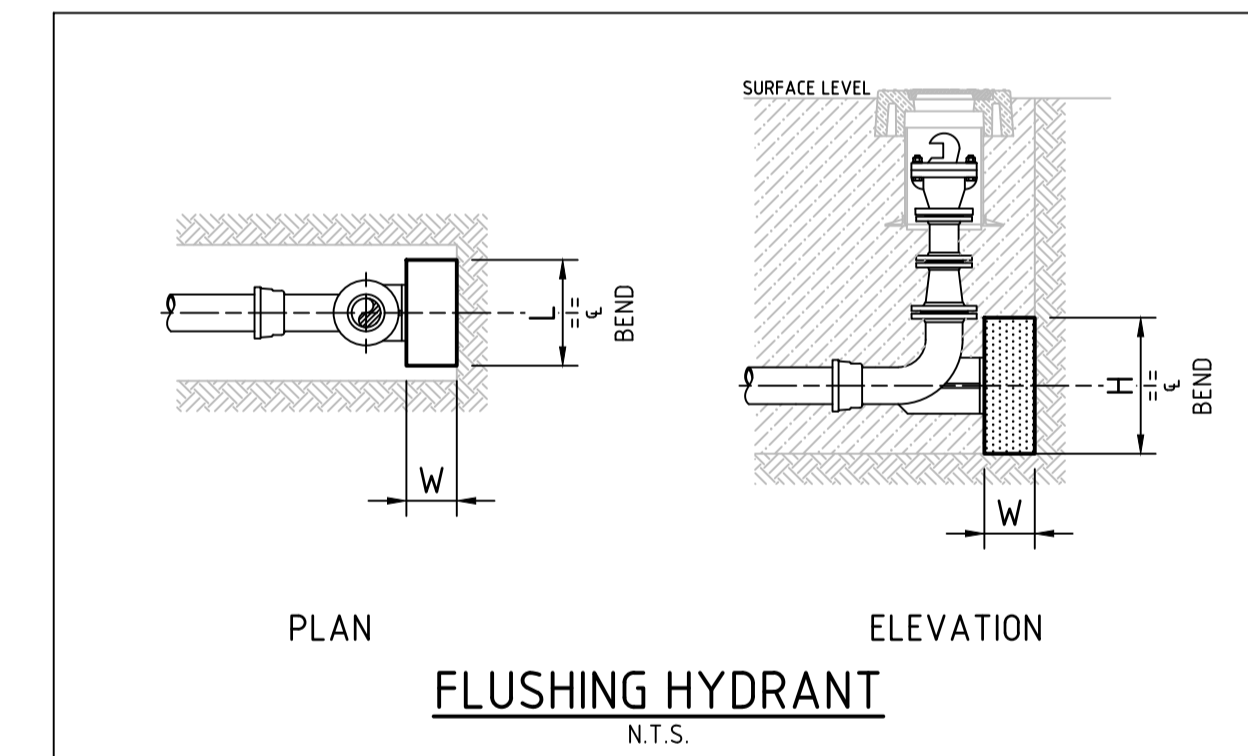
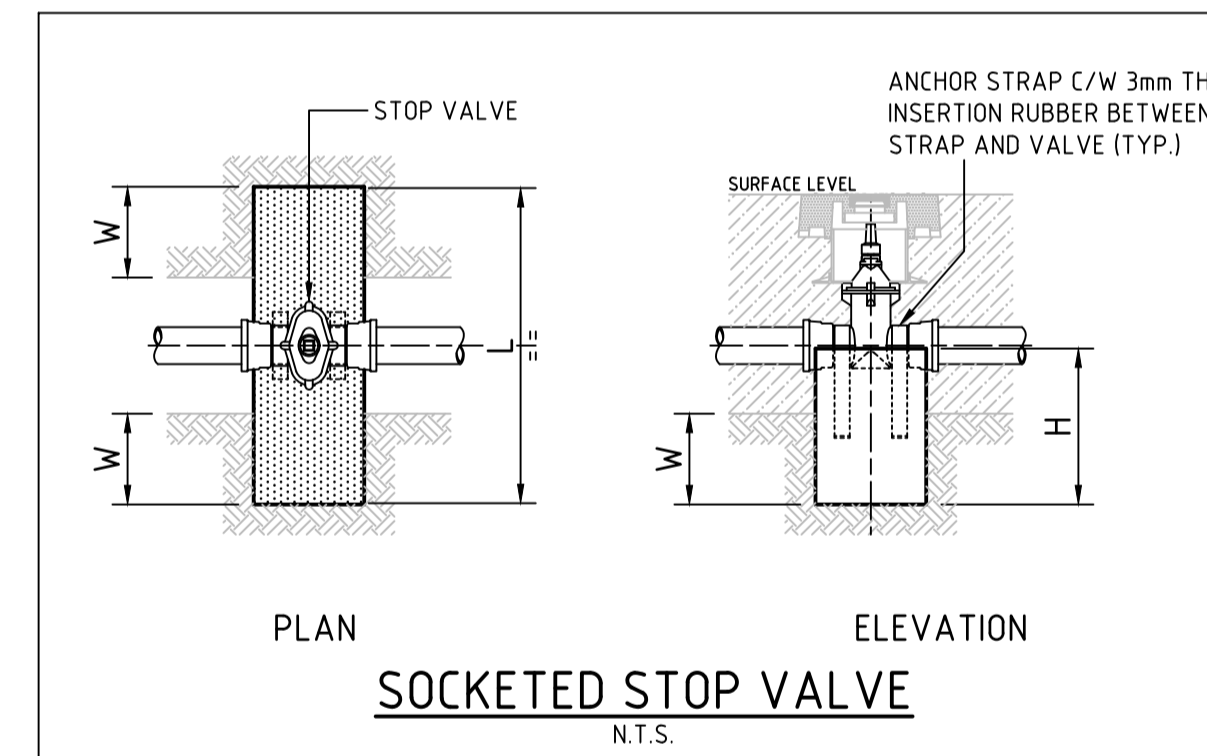
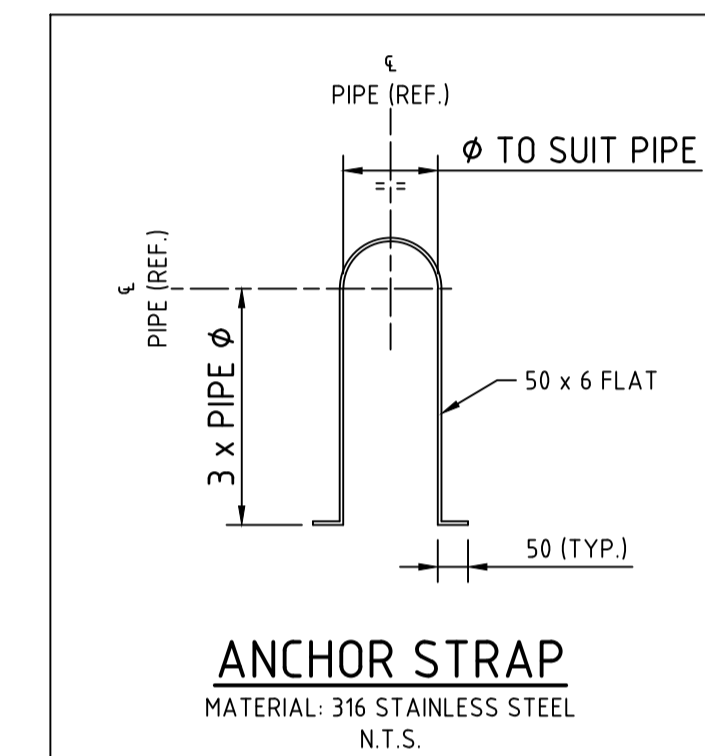
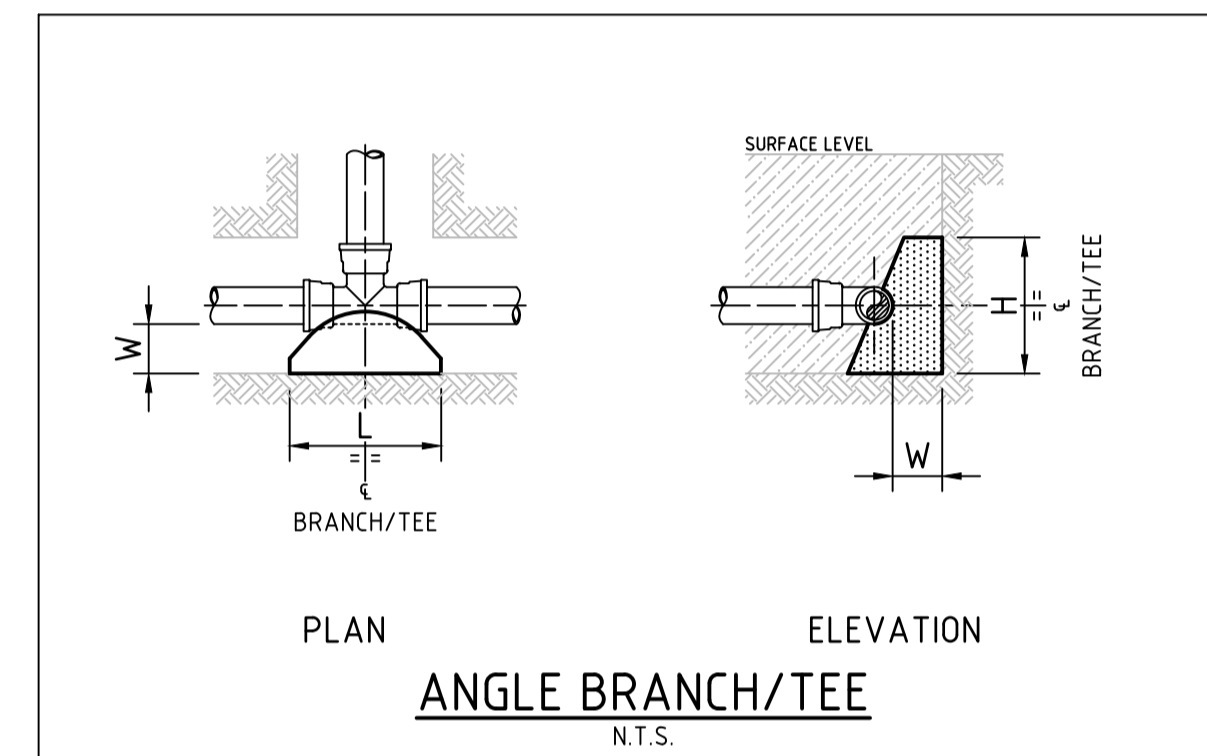


DIAL 1100
BEFORE YOU DIG

THRUST BLOCK NOTES:

- "N" DENOTES NOMINAL THRUST AREA TO BE ACHIEVED BY POURING CONCRETE THE FULL LENGTH OF THE FITTING AND EXTENDING FROM THE FLOOR OF THE TRENCH TO NOM. 100mm ABOVE THE FITTING.
- CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- THRUST BLOCK DIMENSIONS ARE BASED ON THE MINIMUM ALLOWABLE HORIZONTAL BEARING PRESSURES OF THE SOIL AS SHOWN. IF GROUND CONDITIONS ENCOUNTERED INDICATE THAT THESE BEARING PRESSURES MAY NOT BE ACHIEVED, THRUST BLOCK DESIGN IS TO BE REVISED.
- THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
- FINISH THRUST BLOCKS APPROXIMATELY 100mm ABOVE THE TOP OF THE FITTING OR BEARING PAD AND EXTEND TO THE FLOOR OF THE TRENCH OR DEEPER IF NECESSARY TO ACHIEVE THE REQUIRED THRUST AREA. MAXIMUM ENCASEMENT TO BE 180°.
- CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
- CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
- REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.
- THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.
- PROVIDE 3mm THK. INSERTION RUBBER BETWEEN ANCHOR STRAP AND PIPE BARREL.

TYPE	FITTING	SOIL 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	0.40	0.30
2	DN100 x 22.5° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
3	DN100 x 11.25° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
4	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
5	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
6	DN150 x DN150 EQUAL TEE	100	1500	37.50	0.38	0.50	0.75	0.30
7	DN150 SOCKETED STOP VALVE	100	1500	37.50	0.38	1.05	0.46	0.30
8	DN150 FLUSHING HYDRANT	100	1500	37.50	0.38	0.50	0.76	0.30



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.10.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	22.11.2021	ALTOGETHER COMMENTS	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 29
 HUNTLEE
 SURVEYED
 Daly.Smith Pty Ltd
 DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND
 PRESSURE SEWER RETICULATION
 PLAN TITLE
 THRUST BLOCK DETAILS
 PROJECT No.
 240037(29)
 DISCIPLINE
 - WAT -
 NUMBER
 404
 REV.
 1

100mm AT FULL SIZE