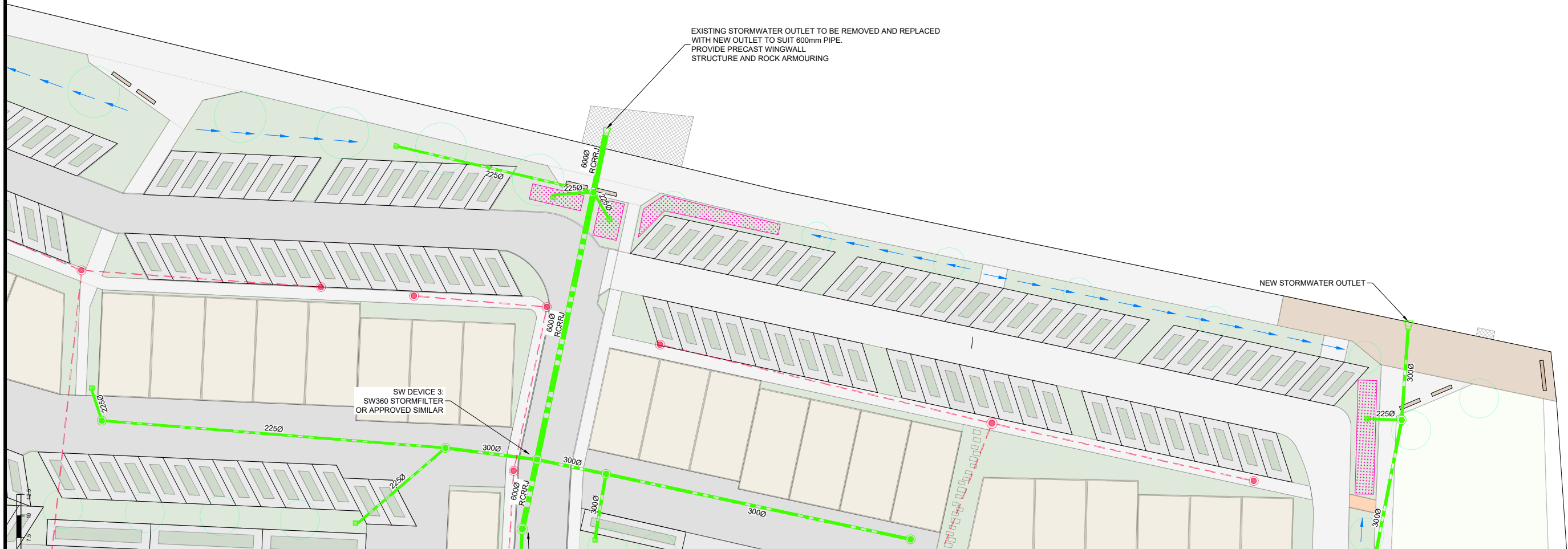


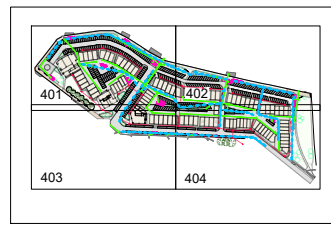


STORMWATER NOTES:

1. REFER TO SHEET 400 FOR STORMWATER NOTES



Original Size:
1:250
1:500 (A3)



STORMWATER LEGEND

- PROPOSED STORMWATER
- PR. STORMWATER MANHOLE
- EXISTING STORMWATER
- EX. STORMWATER MANHOLE
- PR. CATCHPIT
- EX. CATCHPIT
- SWALE
- ▤ PR. WINGWALL
- ▤ EX. WINGWALL
- RAINGARDEN

WASTEWATER LEGEND

- PROPOSED WASTEWATER
- PROPOSED WWMH
- Ex WW Pub
- EXISTING WW LINE (PUBLIC)
- EXISTING WWMH
- RM EXISTING RISING MAIN

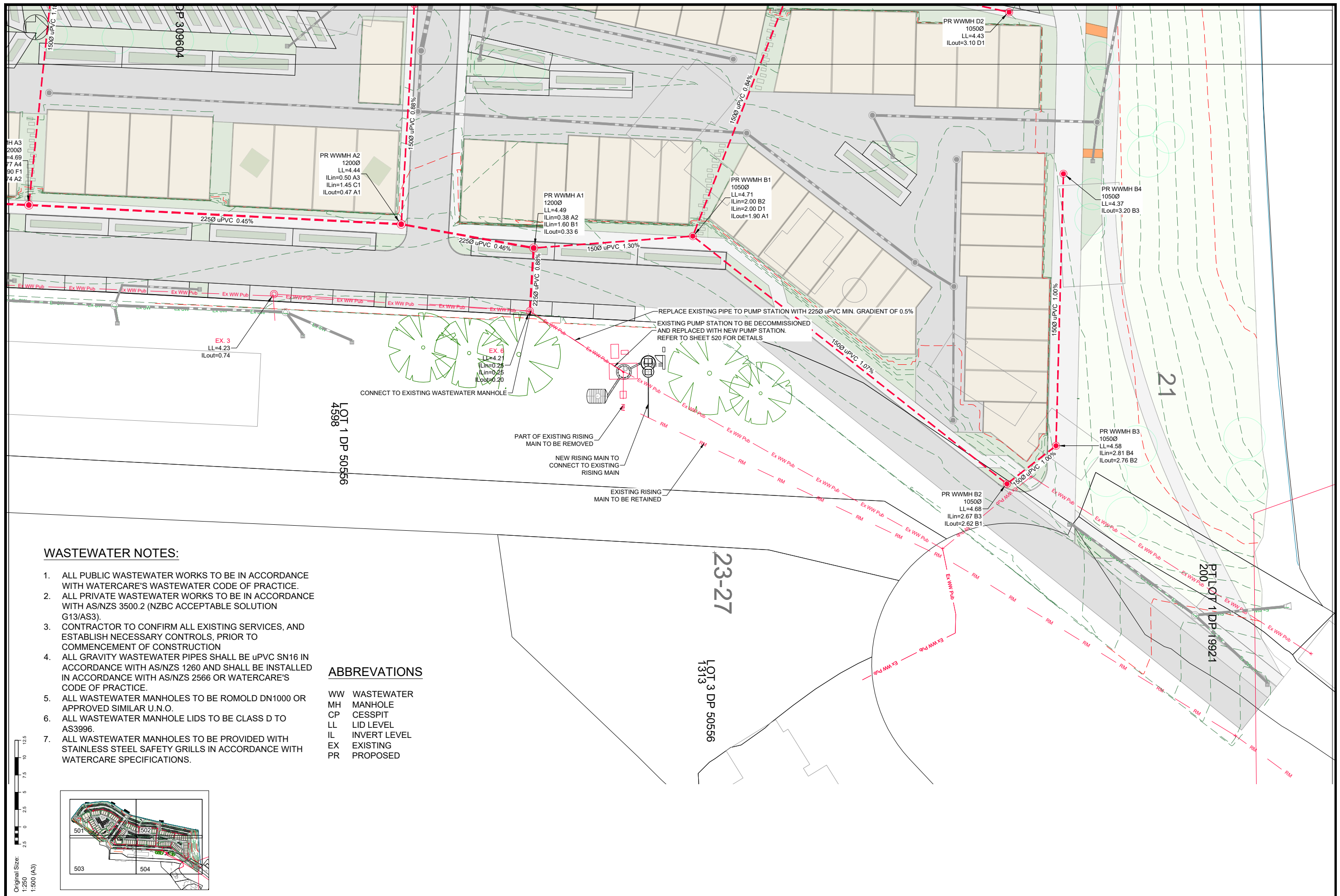
No.	Revision Details	(Current Revision Date : 28/04/2021)	Date
B	RC S92 ISSUE		20/05/21
A	ISSUED FOR RESOURCE CONSENT		19/02/21

Design	AW
Survey	
Drawn	MK
Checked	ML
Date	28/04/2021
Scale	1:250 (A1) 1:500 (A3)
CAD Filename	12582-01-400.dwg
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AUCKLAND



Drawing Title: STORMWATER PLAN 2 OF 4	
File No. 12582-01-400	Rev. B
Dwg. No. 402	



WASTEWATER NOTES:

- ALL PUBLIC WASTEWATER WORKS TO BE IN ACCORDANCE WITH WATERCARE'S WASTEWATER CODE OF PRACTICE.
- ALL PRIVATE WASTEWATER WORKS TO BE IN ACCORDANCE WITH AS/NZS 3500.2 (NZBC ACCEPTABLE SOLUTION G13/AS3).
- CONTRACTOR TO CONFIRM ALL EXISTING SERVICES, AND ESTABLISH NECESSARY CONTROLS, PRIOR TO COMMENCEMENT OF CONSTRUCTION
- ALL GRAVITY WASTEWATER PIPES SHALL BE uPVC SN16 IN ACCORDANCE WITH AS/NZS 1260 AND SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2566 OR WATERCARE'S CODE OF PRACTICE.
- ALL WASTEWATER MANHOLES TO BE ROMOLD DN1000 OR APPROVED SIMILAR U.N.O.
- ALL WASTEWATER MANHOLE LIDS TO BE CLASS D TO AS3996.
- ALL WASTEWATER MANHOLES TO BE PROVIDED WITH STAINLESS STEEL SAFETY GRILLS IN ACCORDANCE WITH WATERCARE SPECIFICATIONS.

ABBREVIATIONS

- WW WASTEWATER
 MH MANHOLE
 CP CESSPIT
 LL LID LEVEL
 IL INVERT LEVEL
 EX EXISTING
 PR PROPOSED

WASTEWATER LEGEND

- PROPOSED WASTEWATER
- PROPOSED WWMH
- EX WW Pub EXISTING WW LINE (PUBLIC)
- EXISTING WWMH
- RM EXISTING RISING MAIN

Design PS
 Survey
 Drawn TM
 Checked ML
 Date 30/04/2021
 Scale 1:250 (A1) 1:500 (A3)
 CAD Filename 12582-01-500.dwg
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 CONSULTANTS LTD.

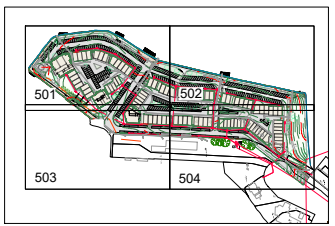
CONSULTING CIVIL & STRUCTURAL ENGINEERS
 Takapuna, Pukekohe, Hawick, Queenstown, Christchurch, Orewa

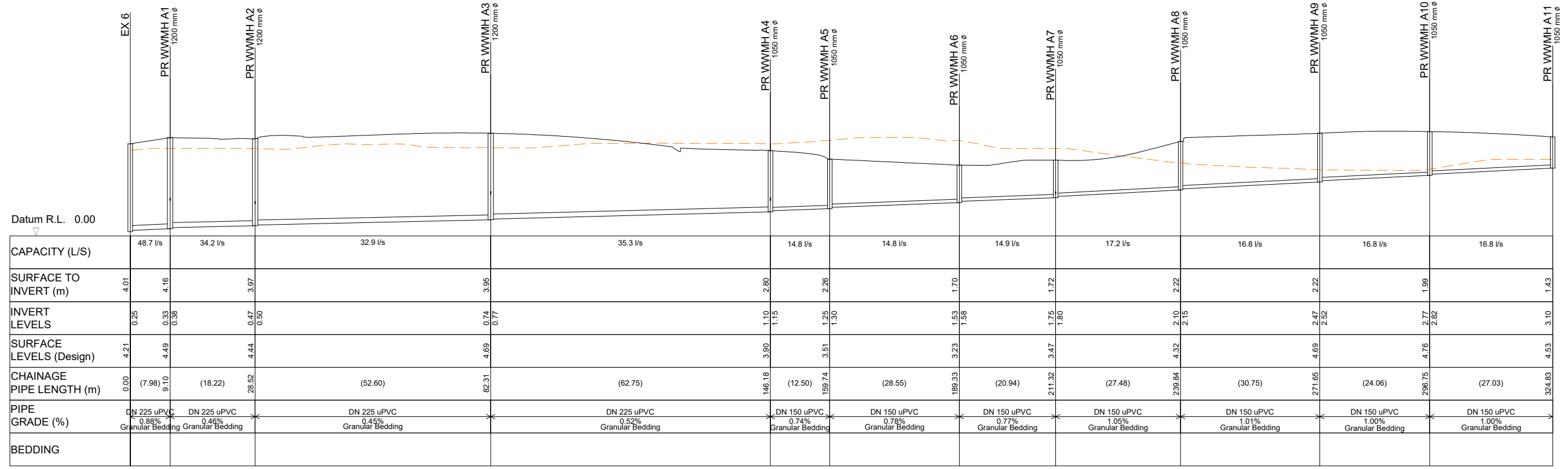
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WASTEWATER PLAN 4 OF 4

File No.
12582-01-500

Rev. **B** Dwg. No. **504**

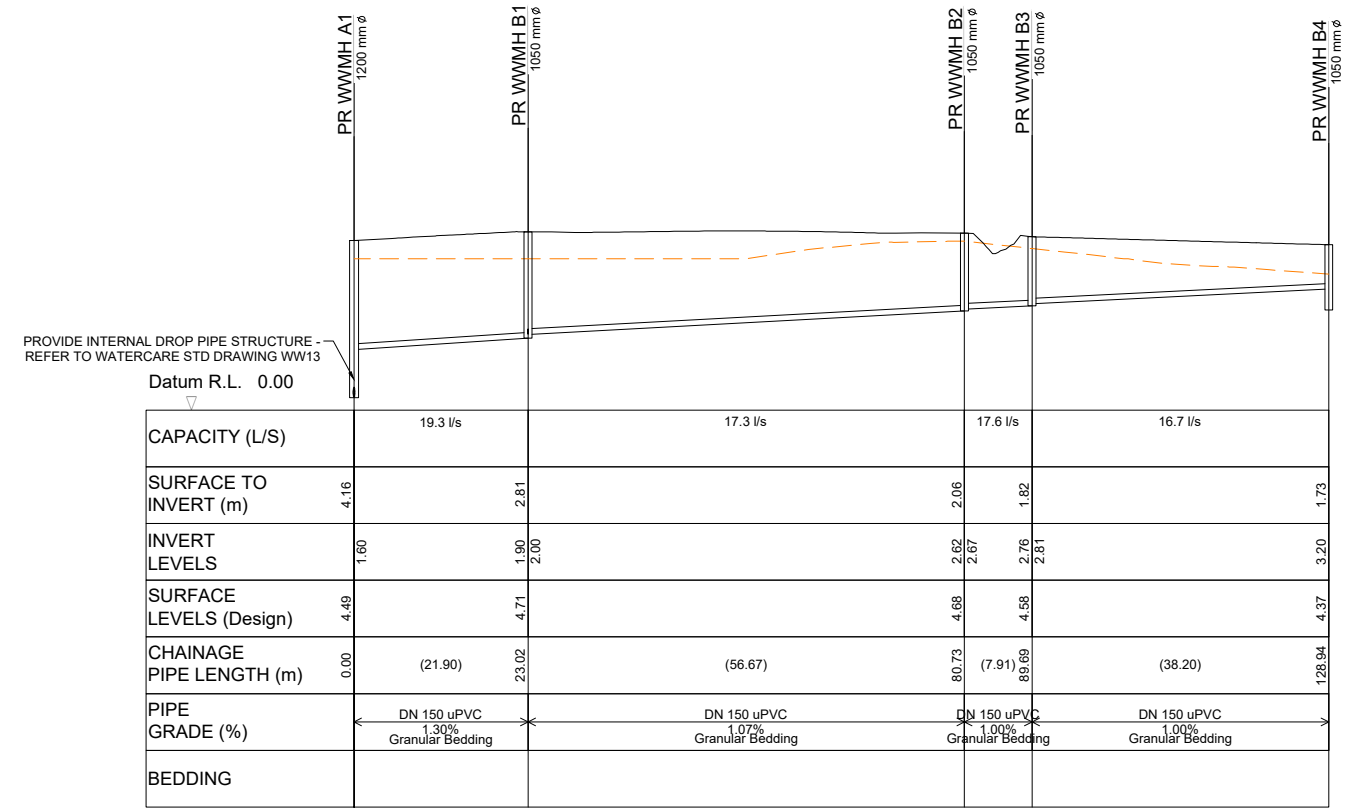
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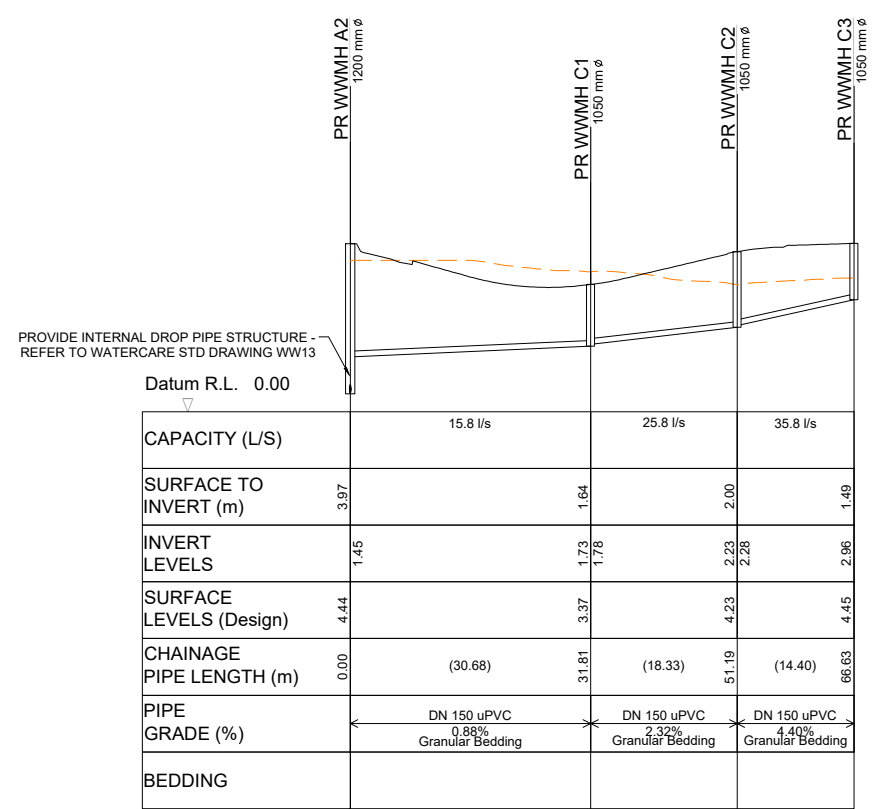
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LONGITUDINAL SECTION - WW LINE A



Scale Horizontal 1:500 Vertical 1:100 (A1)
Horizontal 1:1000 Vertical 1:200 (A3)

LONGITUDINAL SECTION - WW LINE B



Scale Horizontal 1:500 Vertical 1:100 (A1)
Horizontal 1:1000 Vertical 1:200 (A3)

LONGITUDINAL SECTION - WW LINE C

Original Size: 1:500
1:1000 (A3)

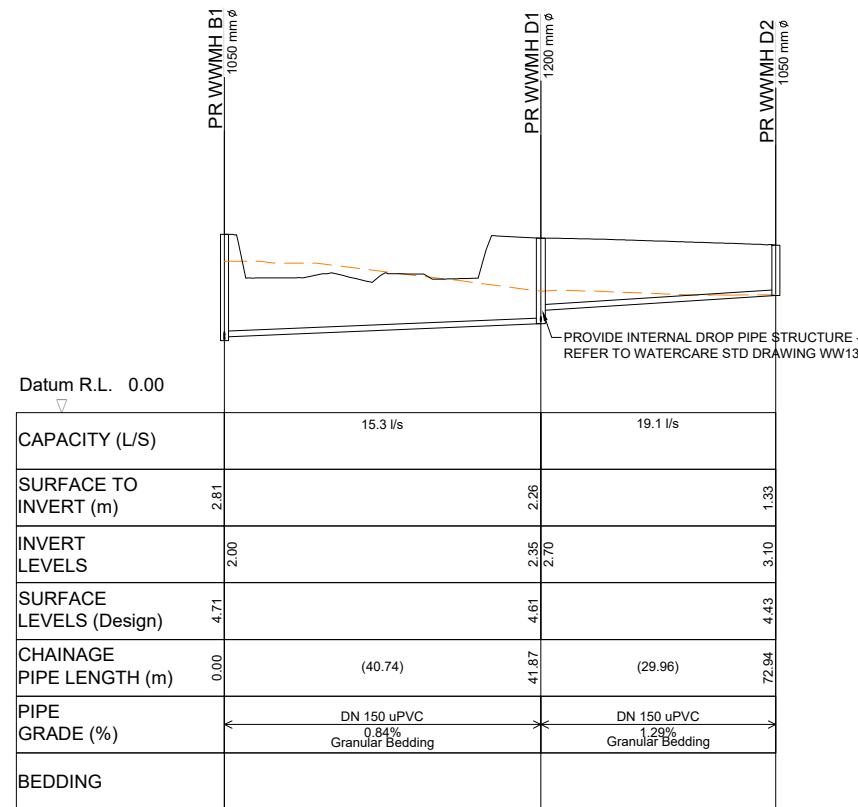
B	RC S92 ISSUE	20/05/21
A	ISSUED FOR RESOURCE CONSENT	19/02/21
No.	Revision Details (Current Revision Date : 30/04/2021)	Date

Design	PS
Survey	
Drawn	TM
Checked	ML
Date	30/04/2021
Scale	1:500 (A1) 1:1000 (A3)
CAD Filename	12582-01-500.dwg
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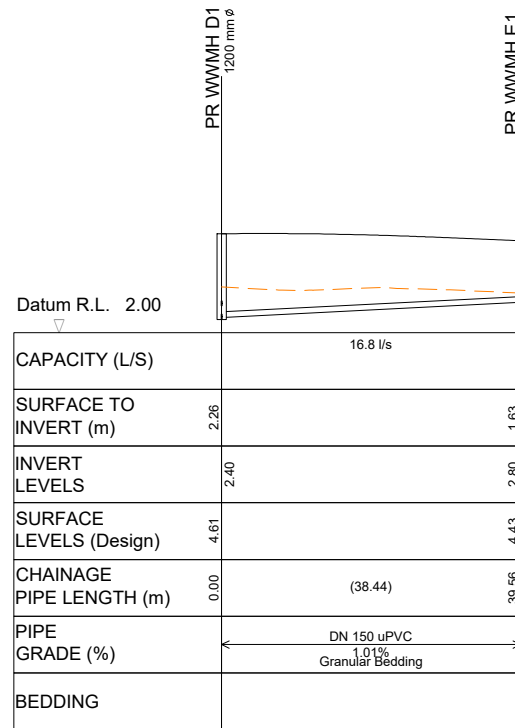


Drawing Title: WASTEWATER LONGITUDINAL SECTIONS 1 OF 2		
File No. 12582-01-500	Rev. B	Dwg. No. 510



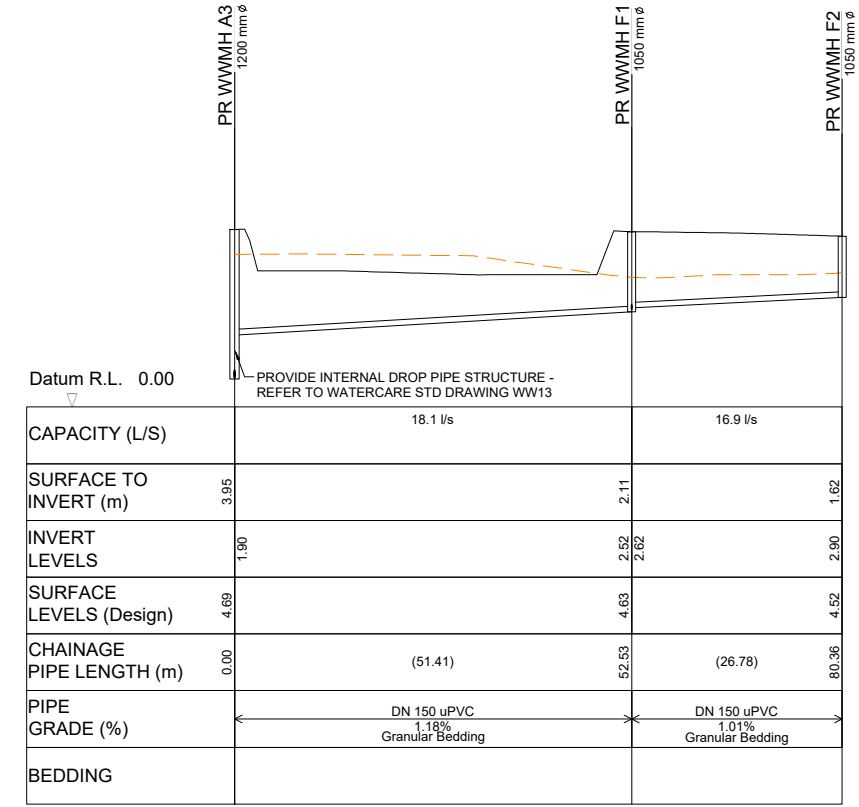
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LONGITUDINAL SECTION - WW LINE D



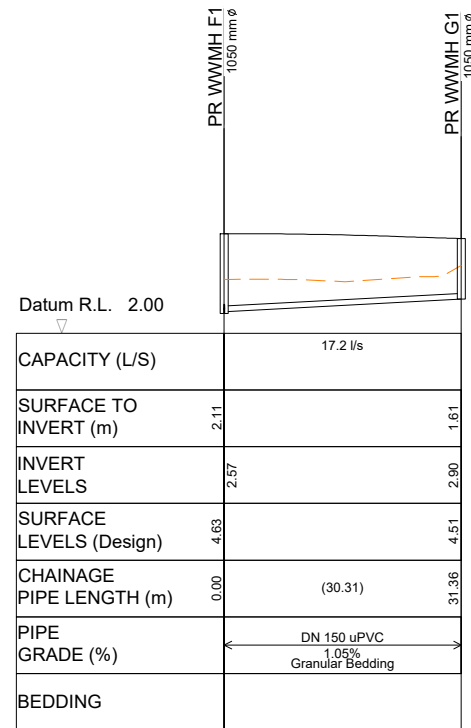
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Horizontal 1:1000 Vertical 1:200 (A3)

LONGITUDINAL SECTION - WW LINE E



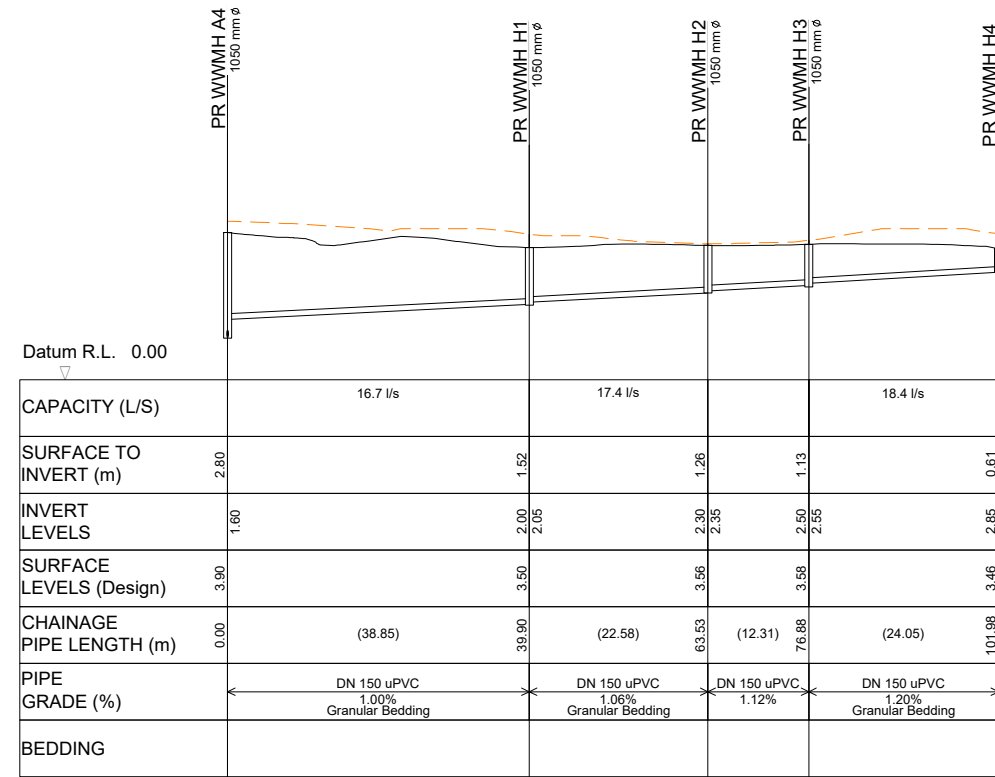
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LONGITUDINAL SECTION - WW LINE F



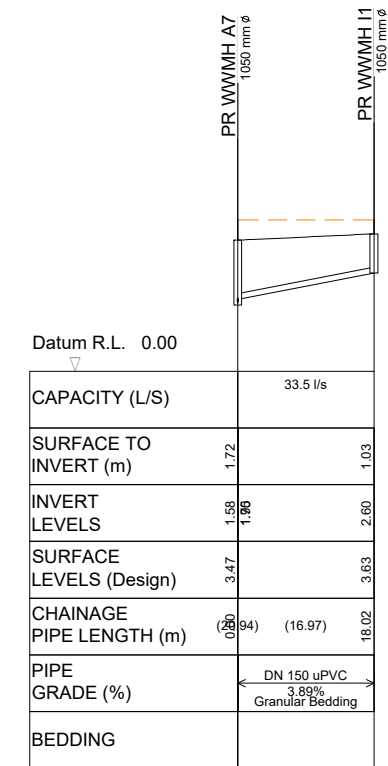
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LONGITUDINAL SECTION - WW LINE G



Scale Horizontal 1:500 Vertical 1:100 (A1)
Horizontal 1:1000 Vertical 1:200 (A3)

LONGITUDINAL SECTION - WW LINE H



Scale Horizontal 1:500 Vertical 1:100 (A1)
Horizontal 1:1000 Vertical 1:200 (A3)

LONGITUDINAL SECTION - WW LINE I

Original Size: 1:500
1:1000 (A3)

No.	Revision Details	Date
B	RC S92 ISSUE	20/05/21
A	ISSUED FOR RESOURCE CONSENT	19/02/21
No. Revision Details (Current Revision Date : 30/04/2021)		

Design PS
Survey
Drawn TM
Checked ML
Date 30/04/2021
Scale 1:500 (A1) 1:1000 (A3)
CAD Filename 12582-01-500.dwg
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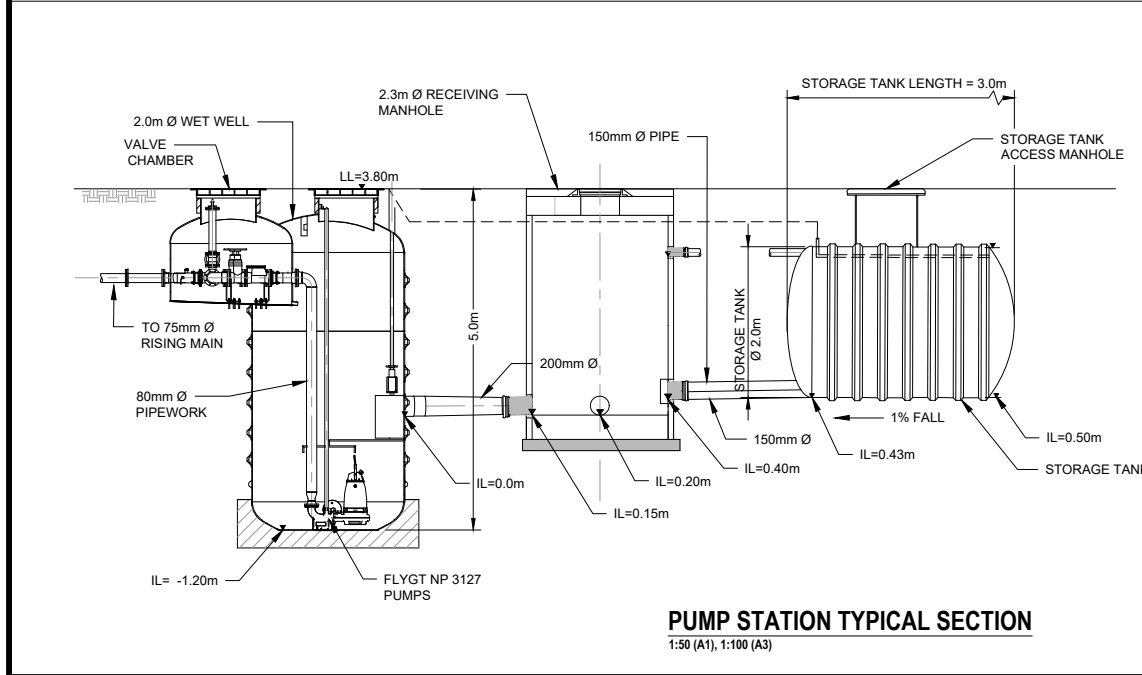
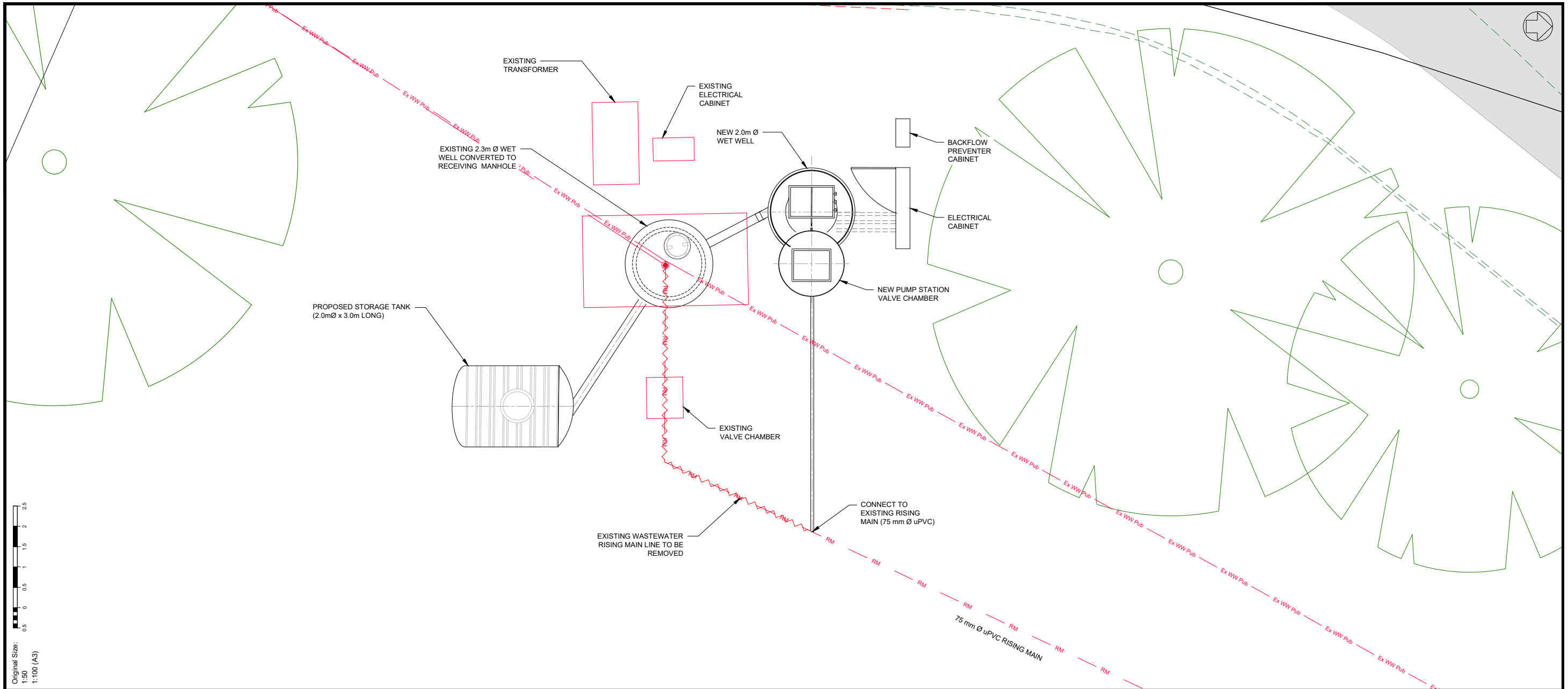


Drawing Title:
WASTEWATER LONGITUDINAL
SECTIONS 2 OF 2

File No.
12582-01-500

Rev. **B**

Dwg. No.
511



PUMP STATION TYPICAL SECTION
1:50 (A1), 1:100 (A3)

ABBREVIATIONS

- WW WASTEWATER
- MH MANHOLE
- CP CESSPIT
- LL LID LEVEL
- IL INVERT LEVEL
- EX EXISTING
- PR PROPOSED

WASTEWATER NOTES:

1. ALL WASTEWATER WORKS TO BE IN ACCORDANCE WITH WATERCARE'S WASTEWATER CODE OF PRACTICE
2. ALL WORKS ARE IN CONJUNCTION WITH PROJECT SPECIFICATION
3. LEVELS ARE IN TERMS OF MEAN SEA LEVEL (AUCKLAND VERTICAL DATUM 1946)
4. COORDINATES ARE IN TERMS OF NZGD 2000 (MT. EDEN CIRCUIT)
5. CONTRACTOR TO CONFIRM ALL EXISTING SERVICES, AND ESTABLISH NECESSARY CONTROLS, PRIOR TO COMMENCEMENT OF CONSTRUCTION
6. REFER TO DRAWING 500-504 FOR PROPOSED WASTEWATER PLANS
7. REFER TO DRAWING 510-511 FOR PROPOSED WASTEWATER LONG SECTIONS
8. ON COMPLETION OF WORKS, ALL AREAS OF CONSTRUCTION WORKS TO BE REINSTATED TO COUNCIL ENGINEERS STANDARDS AND ENGINEERS SATISFACTION

B	RC S92 ISSUE	20/05/21
A	ISSUED FOR RESOURCE CONSENT	19/02/21
No.	Revision Details (Current Revision Date : 30/04/2021)	Date

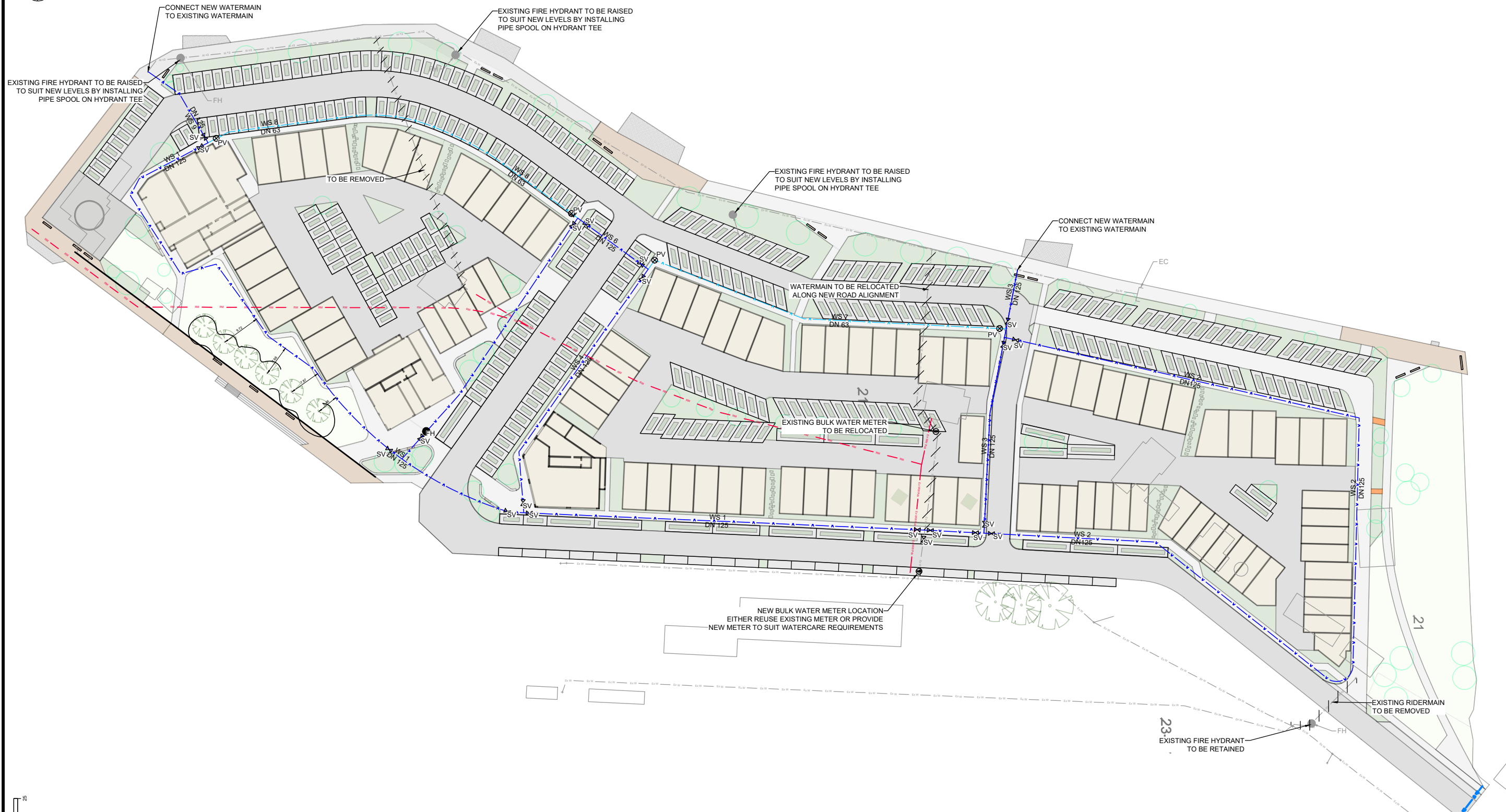
WASTEWATER LEGEND	
	PROPOSED WASTEWATER
	PROPOSED WWMH
	EXISTING WW LINE (PUBLIC)
	EXISTING WWMH
	EXISTING RISING MAIN

Design	PS
Survey	
Drawn	TM
Checked	ML
Date	30/04/2021
Scale	1:50 (A1) 1:100 (A3)
CAD Filename	12582-01-500.dwg
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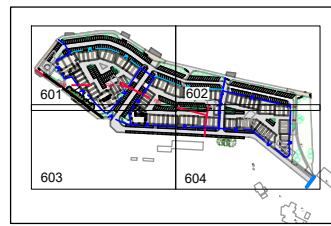
Drawing Title: WASTEWATER PUMP STATION	
File No. 12582-01-500	Rev. B
Dwg. No. 520	



NOTES:

- LEVELS IN TERMS OF MEAN SEA LEVEL (AUCKLAND VERTICAL DATUM 2000)
- COORDINATES IN TERMS OF NZGD 2000 (MT EDEN CIRCUIT)
- ALL PUBLIC WATER SUPPLY WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH WATERCARE'S CODE OF PRACTICE. ALL PRIVATE WATER SUPPLY WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH NZBC CLAUSE G12 OR AS/NZS 3500.
- ALL IN-GROUND WATER SUPPLY PIPES SHALL BE PE100 PN12.5 IN ACCORDANCE WITH AS/NZS 4130 U.N.O. ALL FITTINGS SHALL BE PN16 U.N.O.
- ALL MULTISTOREY APARTMENT BUILDINGS SHALL BE PROVIDED WITH SPRINKLERS IN ACCORDANCE WITH NZS 4541. DETAILS TO BE PROVIDED AT BUILDING CONSENT STAGE.
- COVER TO WATERMAINS TO BE:
 - MIN. 900mm UNDER TRAFFICABLE AREAS
 - MIN. 600mm ELSEWHERE
- PROVIDE PAINTED TRIANGLE MARKINGS ON PAVEMENT INDICATING THE LOCATIONS OF ALL HYDRANTS AND VALVES. REFER TO WATERCARE STD DRG WS7 FOR DETAILS.
- CONSTRUCT ANCHOR BLOCKS AT ALL TEES, BENDS AND REDUCERS IN ACCORDANCE WITH WATERCARE STD DRG WS10.
- PROVIDE DN25 PROPERTY CONNECTIONS TO EACH UNIT. METERS FOR EACH UNIT SHALL BE INSTALLED AT HOUSE CONSTRUCTION STAGE.
- REFER TO SHEET 150 FOR TYPICAL SERVICE CONNECTION ARRANGEMENTS TO TERRACE HOUSES.
- RAISE ALL EXISTING HYDRANTS AND VALVES TO SUIT FINISHED LEVELS. PROVIDE PIPE SPOOLS ON HYDRANT TEES AND EXTEND VALVE SPINDLES AS REQUIRED.

Original Size: 1:500
1:1000 (A3)



WATER SUPPLY LEGEND

- PROPOSED WATERMAIN
- PROPOSED RIDERMAIN
- EXISTING WATERMAIN
- PR. FIRE HYDRANT
- PR. SLUICE VALVE
- PR. PEET VALVE
- PR. WATER METER

Design AW
Survey
Drawn MK
Checked ML
Date 30/04/2021
Scale 1:500 (A1) 1:1000 (A3)
CAD Filename 12582-01-600.dwg
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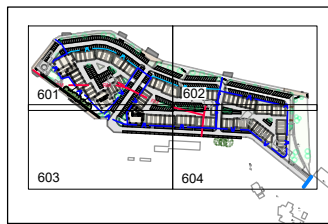
Drawing Title:
OVERALL WATER SUPPLY PLAN

B	RC S92 ISSUE	20/05/21
A	ISSUED FOR RESOURCE CONSENT	19/02/21
No.	Revision Details (Current Revision Date : 30/04/2021)	Date

File No. 12582-01-600	Rev. B	Dwg. No. 600
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Original Size:
1:250
1:500 (A3)



NOTES:
REFER TO SHEET 600 FOR NOTES

No.	Revision Details	Date
B	RC S92 ISSUE	20/05/21
A	ISSUED FOR RESOURCE CONSENT	19/02/21
No. Revision Details (Current Revision Date : 30/04/2021)		

WATER SUPPLY LEGEND	
	PROPOSED WATERMAIN
	PROPOSED RIDERMAIN
	EXISTING WATERMAIN
	PR. FIRE HYDRANT
	PR. SLUICE VALVE
	PR. PEET VALVE
	PR. WATER METER

Design	AW
Survey	
Drawn	MK
Checked	ML
Date	30/04/2021
Scale	1:250 (A1) 1:500 (A3)
CAD Filename	12582-01-600.dwg
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Drawing Title: WATER SUPPLY PLAN 1 OF 4	
File No. 12582-01-600	Rev. B
Dwg. No. 601	



EXISTING FIRE HYDRANT TO BE RAISED TO SUIT NEW LEVELS BY INSTALLING PIPE SPOOL ON HYDRANT TEE

CONNECT NEW WATERMAIN TO EXISTING WATERMAIN

WATERMAIN TO BE RELOCATED ALONG NEW ROAD ALIGNMENT

EC

WS 7
DN 63

WS 2
DN 125

PV

SV

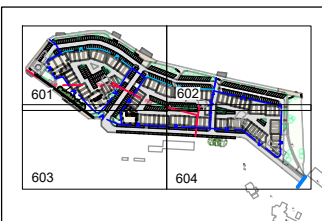
SV

WS 2
DN 125

EXISTING BULK WATER METER TO BE RELOCATED

21

Original Size:
1:250
1:500 (A3)



NOTES:
REFER TO SHEET 600 FOR NOTES

B	RC S92 ISSUE	20/05/21
A	ISSUED FOR RESOURCE CONSENT	19/02/21
No.	Revision Details (Current Revision Date : 30/04/2021)	Date

WATER SUPPLY LEGEND	
	PROPOSED WATERMAIN
	PROPOSED RIDERMAIN
	EXISTING WATERMAIN
	PR. FIRE HYDRANT
	PR. SLUICE VALVE
	PR. PEET VALVE
	PR. WATER METER

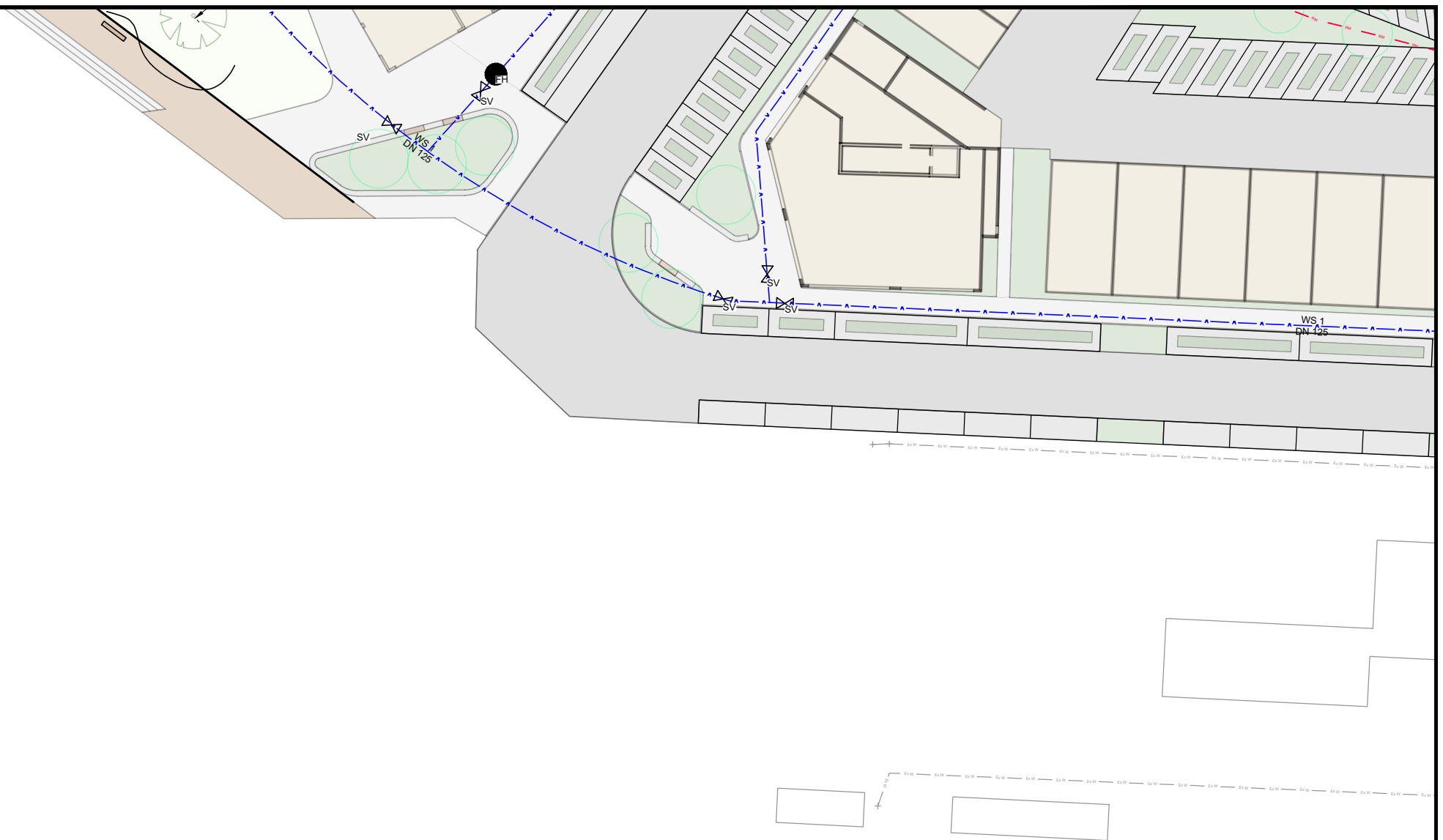
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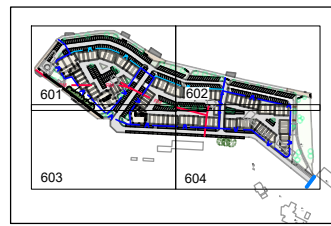
Job Title:
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AUCKLAND**



Drawing Title: WATER SUPPLY PLAN 2 OF 4	
File No. 12582-01-600	Rev. B
Dwg. No. 602	



Original Size: 1:250
1:500 (A3)
0 2.5 5 7.5 10 12.5



NOTES:
REFER TO SHEET 600 FOR NOTES

No.	Revision Details	Date
B	RC S92 ISSUE	20/05/21
A	ISSUED FOR RESOURCE CONSENT	19/02/21
(Current Revision Date : 30/04/2021)		

WATER SUPPLY LEGEND

	PROPOSED WATERMAIN		PROPOSED RIDERMAIN
	EXISTING WATERMAIN		EXISTING RIDERMAIN
	PR. FIRE HYDRANT		PR. PEET VALVE
	PR. SLUICE VALVE		PR. WATER METER

Design AW
 Survey
 Drawn MK
 Checked ML
 Date 30/04/2021
 Scale 1:250 (A1) 1:500 (A3)
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Drawing Title: WATER SUPPLY PLAN 3 OF 4		
File No. 12582-01-600	Rev. B	Dwg. No. 603