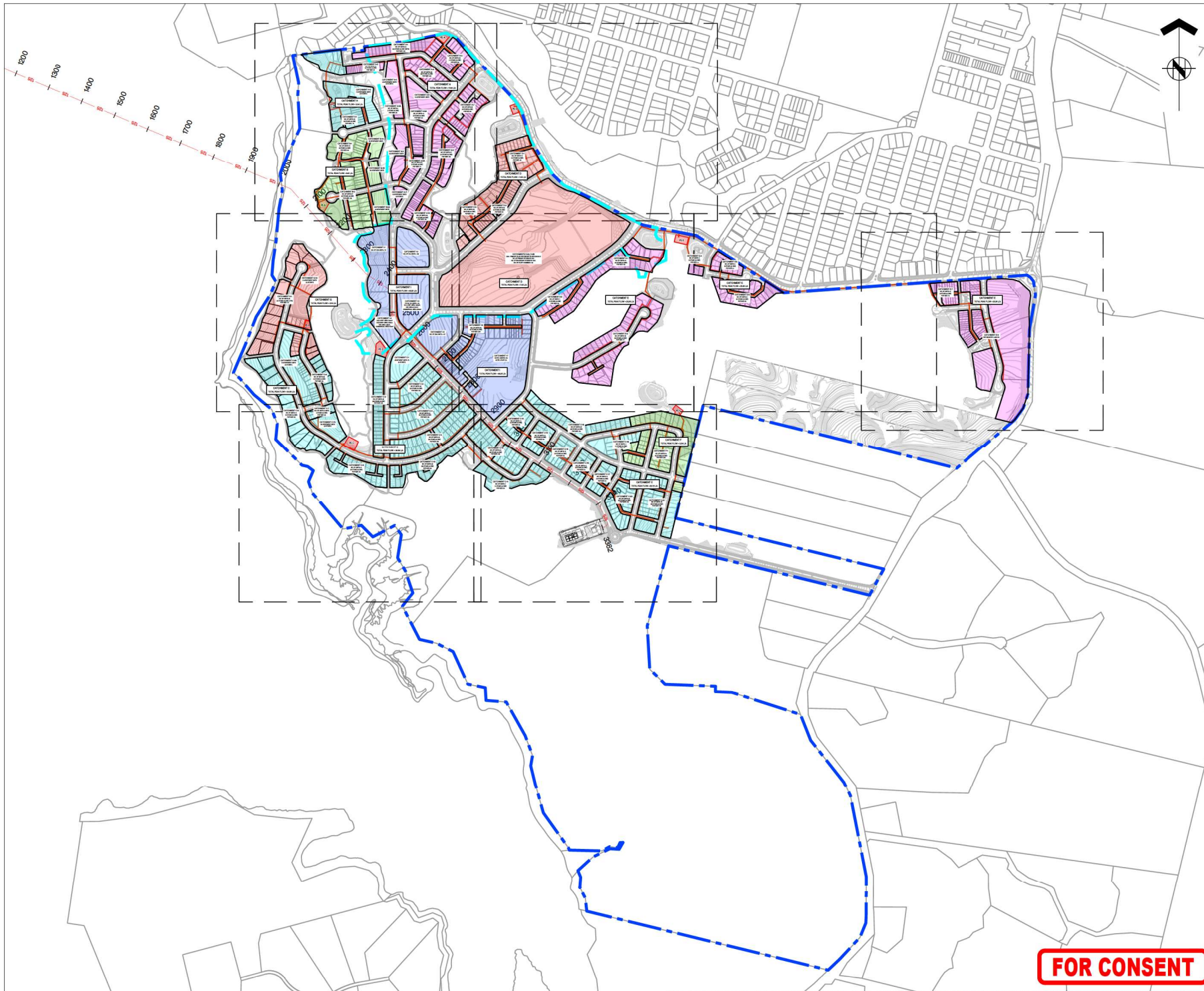




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NOTES

1. WASTEWATER FLOWS ARE BASED ON WSL COP PEAKING WET WEATHER FACTORS.
2. REFER TO DRAWINGS A2515591.00-5300 TO 5309 FOR PUMP STATION GENERAL ARRANGEMENT.

LEGEND

- SITE BOUNDARY
- PROPOSED WASTEWATER LINE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED FLOW ARROW
- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- PROPOSED WASTEWATER CATCHMENTS
- PROPOSED PUMP STATION (PS)

A	FOR CONSENT	CJM 02/2026
REF	REVISIONS	BY DATE

HARRISON GREYSON
AUCKLAND OFFICE:
Level 4, 96 St Georges Bay Road
Parnell, Auckland 1052
T +64 9 917 5000
W www.harrisongreyson.com

PROJECT:
BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:
WASTEWATER CATCHMENT
OVERALL PLAN

ORIGINATOR: SCT	DATE: 04/2026	SIGNED:	PLOT BY: RER
DRAWN: SCT	DATE: 11/2025	SIGNED:	PLOT DATE: 08/06/26
DRAWN: PZS	DATE: 04/2026	SIGNED:	SURVEYED BY:
APPROVED: CJM	DATE: 04/2026	SIGNED:	SURVEY DATE:

ISSUE STATUS:
FAST TRACK CONSENT

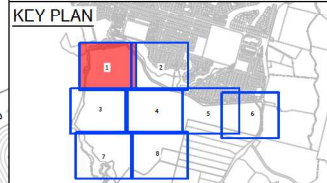
PROJECT NO: A2515591.00	SCALE: A1 1:5000 A3 1:10000	A1
DRAWING NO: A2515591.00-5200	REV	A

FOR CONSENT

NOTES:
REFER TO A2515591.00-5200 FOR LEGEND AND NOTES

LEGEND

- SITE BOUNDARY
- PROPOSED WASTEWATER LINE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED FLOW ARROW
- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- PROPOSED WASTEWATER CATCHMENTS
- PROPOSED PUMP STATION (PS)



A	FOR CONSENT	CJM	02/2020
REF	REVISIONS	BY	DATE

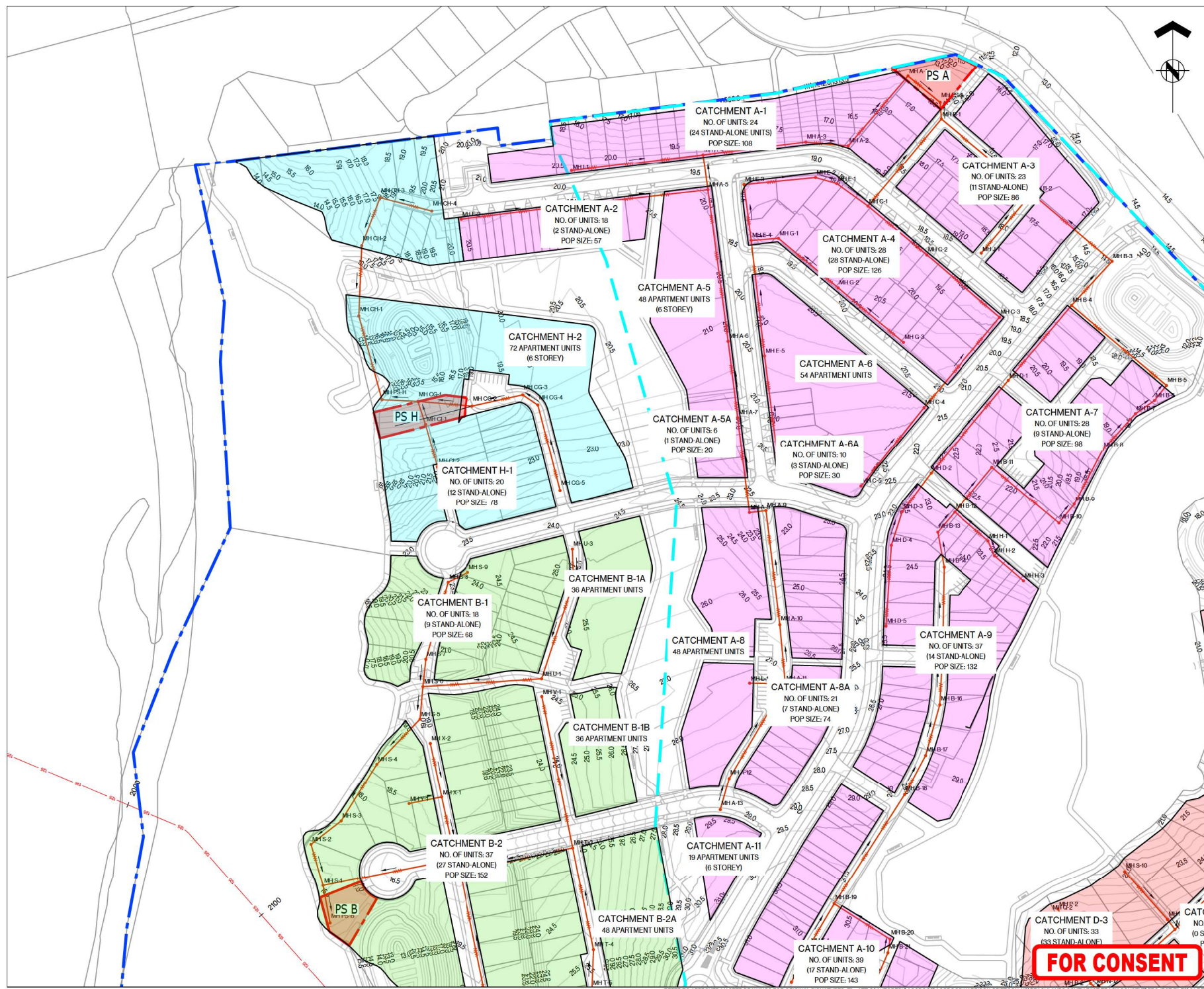
HARRISON GRIERSON
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Parnell, Auckland 1052
T +64 9 917 5000
W www.harrisongrierson.com

PROJECT: **BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND**

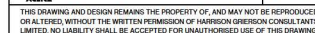
TITLE: **WASTEWATER CATCHMENT PLAN
SHEET 1 OF 8**

ORIGINATOR	DATE	SIGNED	PLOT BY
SCT	04/2020		REB
DRAWN	DATE	SIGNED	PLOT DATE
SCT	11/2025		08/06/20
CHECKED	DATE	SIGNED	SURVEY BY
PZS	04/2020		
APPROVED	DATE	SIGNED	SURVEY DATE
CJM	04/2020		

PROJECT NO.	SCALE	REV
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DRAWING NO.		
A2515591.00-5201		A

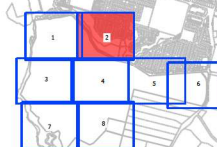


FOR CONSENT



REFER TO A2515591.00-5200 FOR LEGEND AND NOTES

 SITE BOUNDARY
 PROPOSED WASTEWATER LINE
 PROPOSED WASTEWATER MANHOLE
 PROPOSED FLOW ARROW
 EXISTING CONTOURS
 SHOWN AT 0.5m INTERVALS
 PROPOSED WASTEWATER
 CATCHMENTS
 PROPOSED PUMP STATION
 (PS)



A	FOR CONSENT	CJM	0220
REF	REVISIONS	BY	DATE

**HARRISON
GRIERSON**

PROJECT: BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

WASTEWATER CATCHMENT PLAN
SHEET 2 OF 8

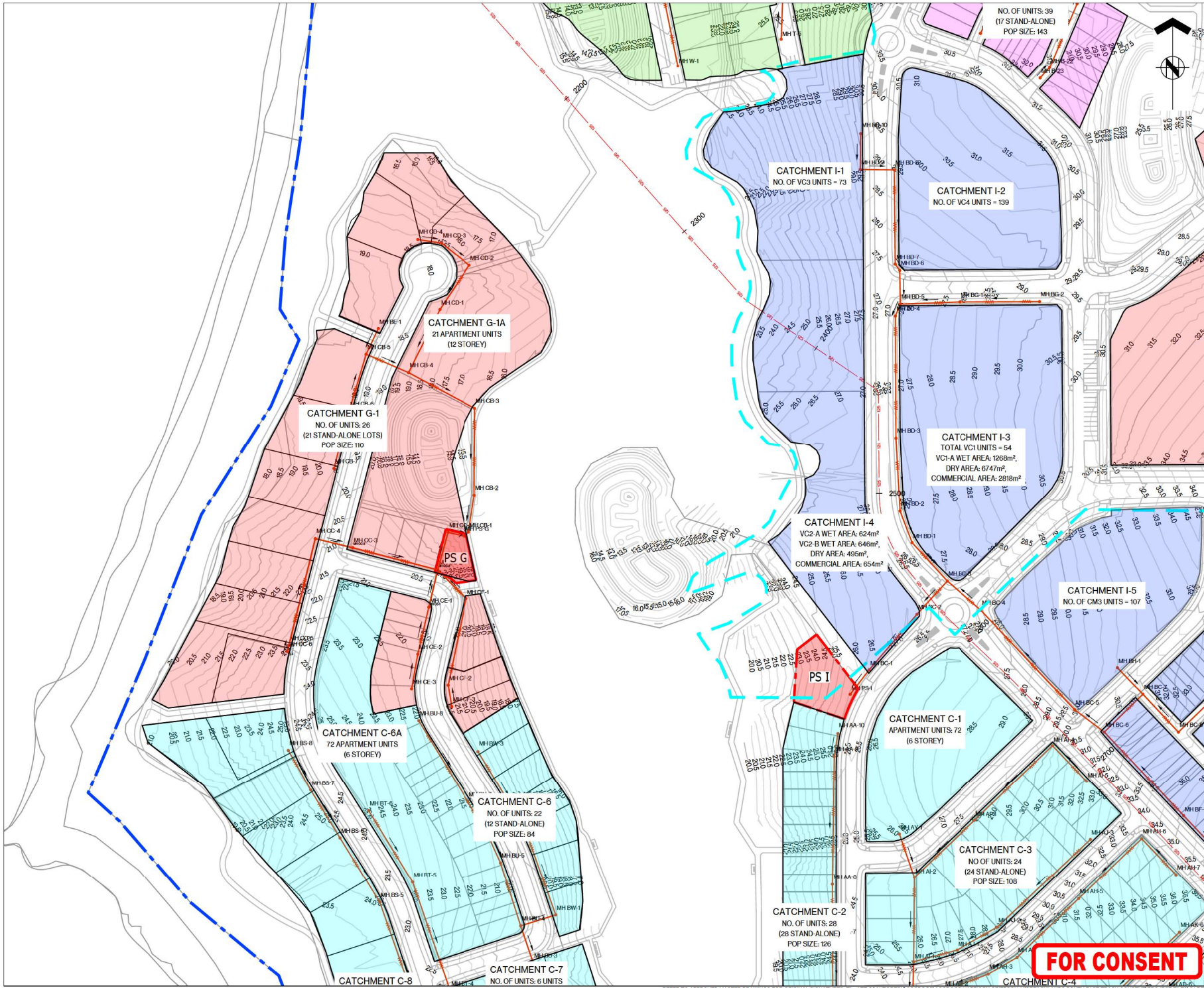
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DRAWN: SCT	DATE: 11/2025	SIGNED:	PLOT DATE: 09/06
CHECKED: PZS	DATE: 04/2026	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 04/2026	SIGNED:	SURVEY DATE: SURVEYED DA

FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: A1 1:1000 A3 1:2000	A
DRAWING No:		REV
A2515591.00-5202		A

FOR CONSENT

REFER TO APPROVED MASTER DRAWINGS FOR ORIGINAL SIGNATURES. FILE: ATE C:\AUTODESK\ACCDWG\ACCDWG\SHARRISON GRIFFIN\US\BEACH AND SOUTH EAST TRACK CONSENT\PROJECT FILES\01 DESIGN\02 CIVIL\04 SHEETS\A225159100-5200 WASTEWATER CATCHMENT PLAN.DWG



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NOTES:

REFER TO A2515591.00-5200 FOR LEGEND AND NOTES

LEGEND

- SITE BOUNDARY
- PROPOSED WASTEWATER LINE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED FLOW ARROW
- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- PROPOSED WASTEWATER CATCHMENTS
- PROPOSED PUMP STATION (PS)

KEY PLAN

A	FOR CONSENT	CJM	02/2026
REF	REVISIONS	BY	DATE

HARRISON GRIERSON

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PROJECT: BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

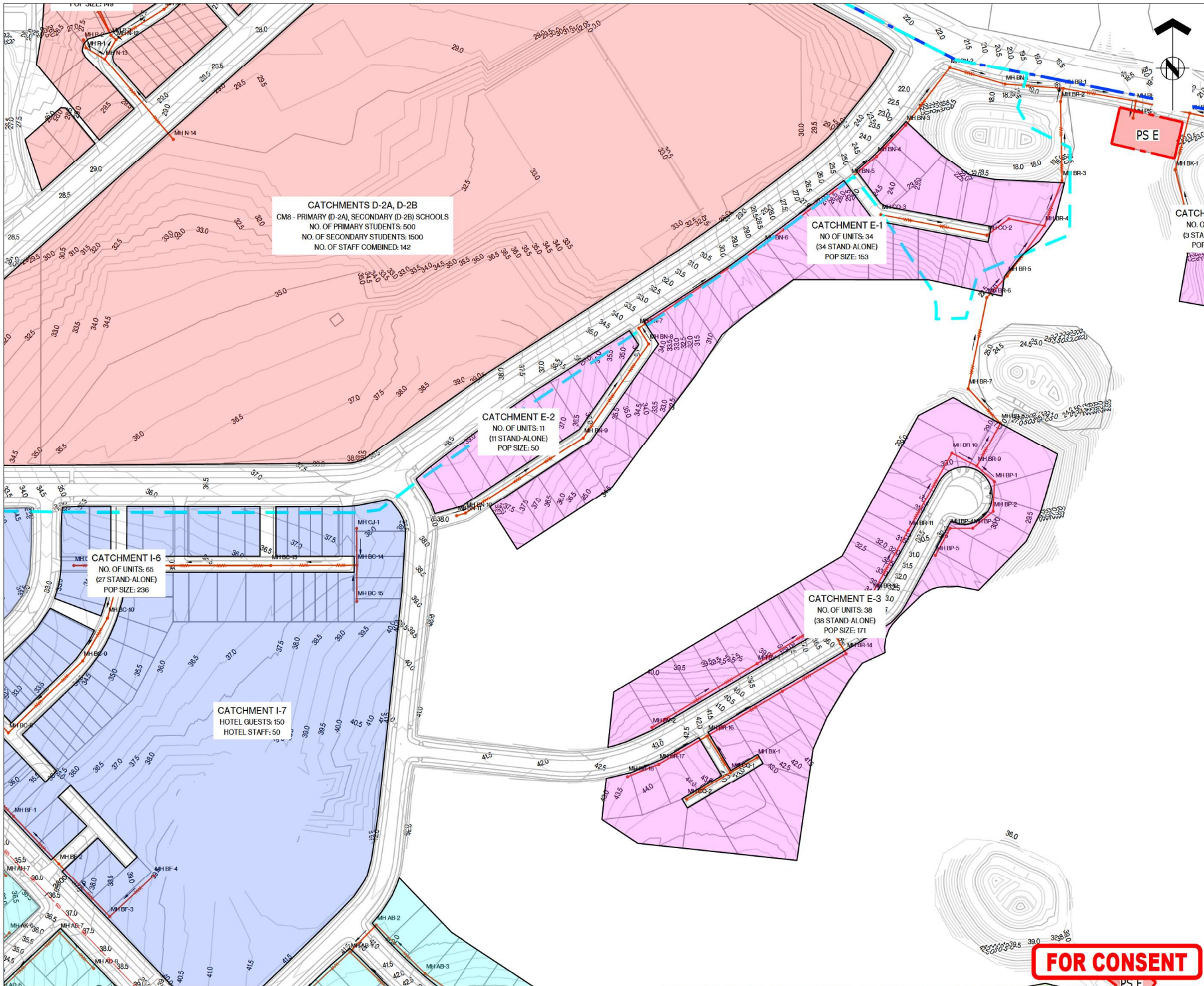
TITLE: WASTEWATER CATCHMENT PLAN
SHEET 3 OF 8

ORIGINATOR	DATE	SIGNED	PLOT BY
SCT	04/2026		RER
DRAWN	DATE	SIGNED	PLOT DATE
SCT	11/2025		08/06/26
CHECKED	DATE	SIGNED	SURVEY BY
PZS	04/2026		
APPROVED	DATE	SIGNED	SURVEY DATE
CJM	04/2026		

ISSUE STATUS: FAST TRACK CONSENT

PROJECT NO:	SCALE:	A1
A2515591.00	A1 1:1000 A3 1:2000	REV
DRAWING NO:		
A2515591.00-5203		A

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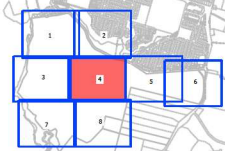
REFER TO A2515591.00-5200 FOR LEGEND AND NOTES

LEGEND

- SITE BOUNDARY
- PROPOSED WASTEWATER LINE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED FLOW ARROW
- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- PROPOSED WASTEWATER CATCHMENTS
- PROPOSED PUMP STATION (PS)

CATCHMENT NO. (3 STAND-ALONE)

KEY PLAN



A	FOR CONSENT	CJM	02/2025
REF	REVISIONS	BY	DATE

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PROJECT: BEACHLANDS FAST TRACK CONSENT APPLICATION BEACHLANDS SOUTH, AUCKLAND

TITLE: WASTEWATER CATCHMENT PLAN SHEET 4 OF 8

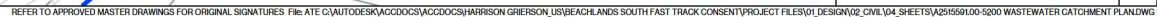
ORIGINATOR: SCT	DATE: 04/2026	SIGNED:	PLOT BY: RER
DRAWN: SCT	DATE: 11/2025	SIGNED:	PLOT DATE: 09/06/26
CHECKED: PZS	DATE: 04/2026	DESIGNED:	SURVEY BY: SURVEYED BY:
APPROVED: CJM	DATE: 04/2026	SIGNED:	SURVEY DATE: SURVEYED DATE:

ISSUE STATUS: FAST TRACK CONSENT

PROJECT No: A2515591.00 SCALES: A1 1:1000 A3 1:2000 A1

DRAWING No: A2515591.00-5204 A

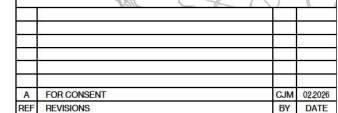
FOR CONSENT



NOTES:

LEGEND

-
- LEGEND**
- SITE BOUNDARY
 - PROPOSED WASTEWATER LINE
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED FLOW ARROW
 - EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
 - PROPOSED WASTEWATER CATCHMENTS
 - PROPOSED PUMP STATION (PS)



PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

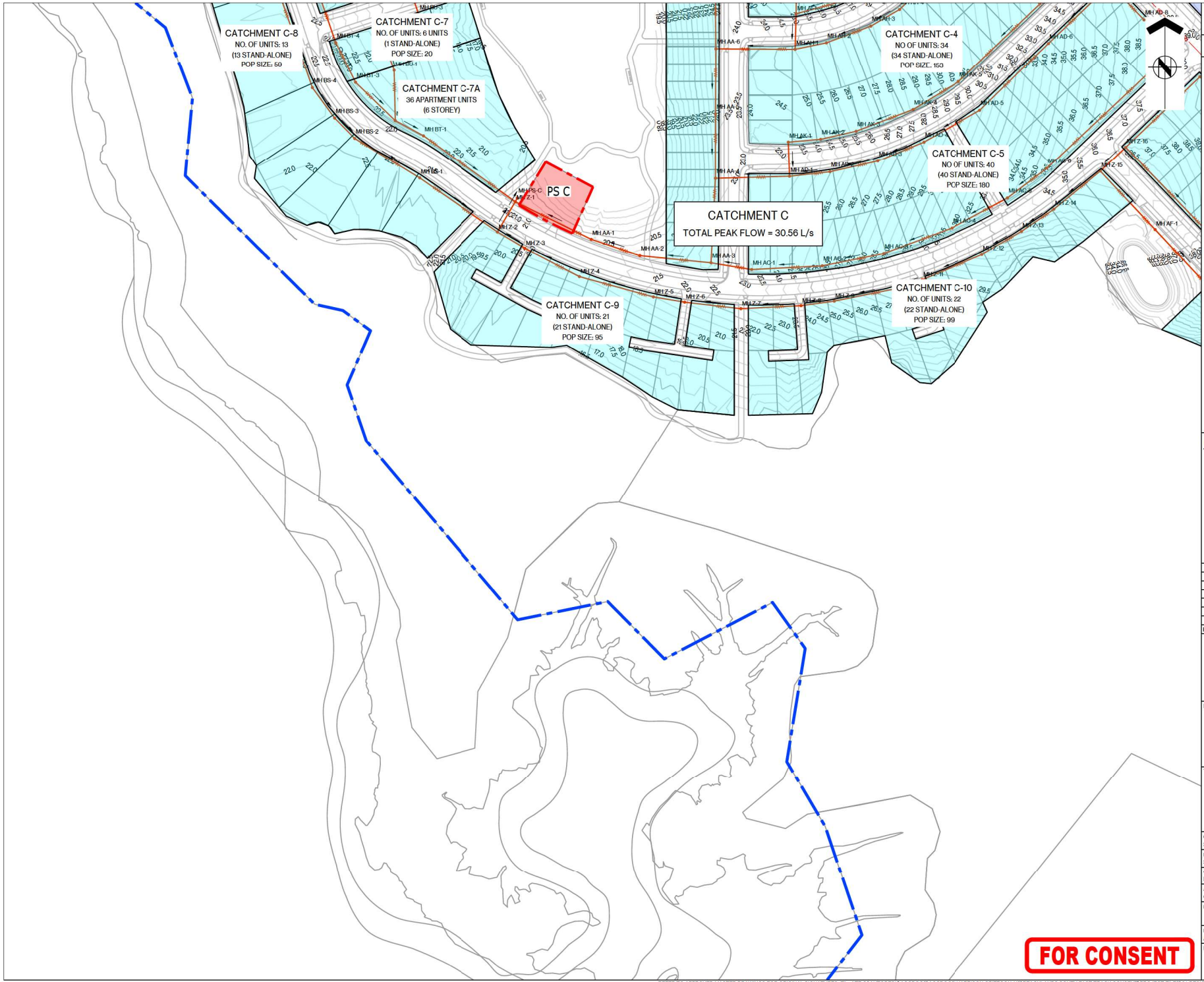
WASTEWATER CATCHMENT PLAN
SHEET 6 OF 8

ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOT BY: RER
DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 09.06.26
CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED BY
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DATE

ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515591.00	SCALE: A1 1:1000 A3 1:2000	A1
DRAWING No: A2515591.00-5206		REV A

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NOTES:

REFER TO A2515591.00-5200 FOR LEGEND AND NOTES

LEGEND

- SITE BOUNDARY
- PROPOSED WASTEWATER LINE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED FLOW ARROW
- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- PROPOSED WASTEWATER CATCHMENTS
- PROPOSED PUMP STATION (PS)

KEY PLAN

REV	DESCRIPTION	DATE	BY
A	FOR CONSENT	02/2026	CJM
REF	REVISIONS		

HARRISON GRIERSON

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Parnell, Auckland 1052
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PROJECT: BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE: WASTEWATER CATCHMENT PLAN
SHEET 7 OF 8

ORIGINATOR	DATE	SIGNED	PLOT BY
SCT	04/2026		RER

DRAWN	DATE	SIGNED	PLOT DATE
SCT	11/2025		08/06/26

CHECKED	DATE	DESIGNED	SURVEY BY
PZS	04/2026		

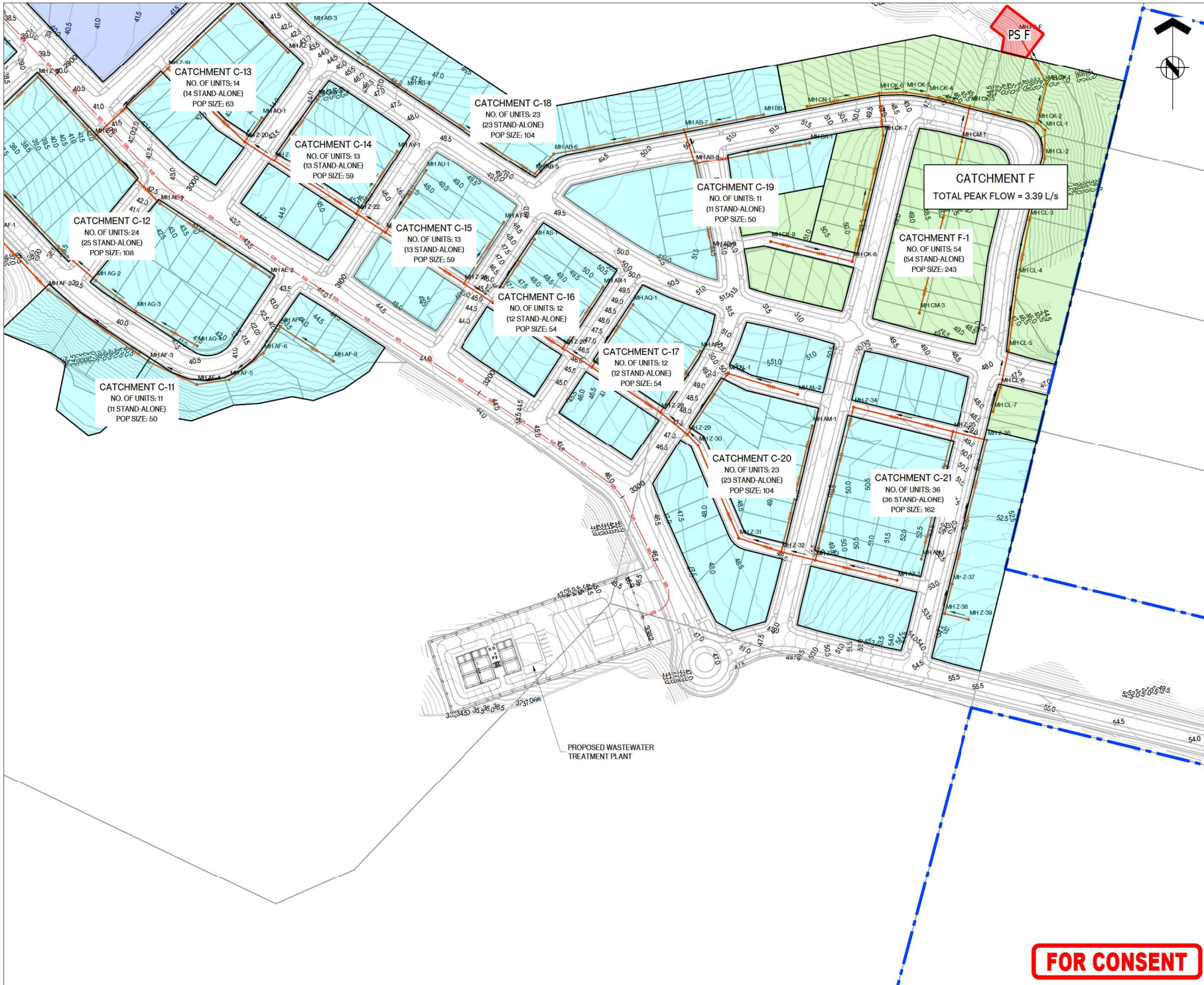
APPROVED	DATE	SIGNED	SURVEY DATE
CJM	04/2026		

ISSUE STATUS: FAST TRACK CONSENT

PROJECT No:	SCALE:	A1
A2515591.00	A1 1:1000 A3 1:2000	

DRAWING NO:	REV
A2515591.00-5207	A

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NOTES:

REFER TO A2515591.00-5200 FOR LEGEND AND NOTES

LEGEND

- SITE BOUNDARY
- PROPOSED WASTEWATER LINE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED FLOW ARROW
- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- PROPOSED WASTEWATER CATCHMENTS
- PROPOSED PUMP STATION (PS)

KEY PLAN

A	FOR CONSENT	CJM	02/2026
REF	REVISIONS	BY	DATE

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PROJECT: BEACHLANDS FAST TRACK CONSENT APPLICATION BEACHLANDS SOUTH, AUCKLAND

TITLE: WASTEWATER CATCHMENT PLAN SHEET 8 OF 8

ORIGINATOR	DATE	SIGNED	PLOT BY
SCT	04/2026		RRR
DRAWN	DATE	SIGNED	PLOT DATE
SCT	11/2025		08/06/26
CHECKED	DATE	SIGNED	SURVEY BY
P2S	04/2026		SURVEYED BY
APPROVED	DATE	SIGNED	SURVEY DATE
CJM	04/2026		SURVEYED DATE

ISSUE STATUS: FAST TRACK CONSENT

PROJECT No:	SCALE:	A1
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DRAWING No:		REV
A2515591.00-5208		A

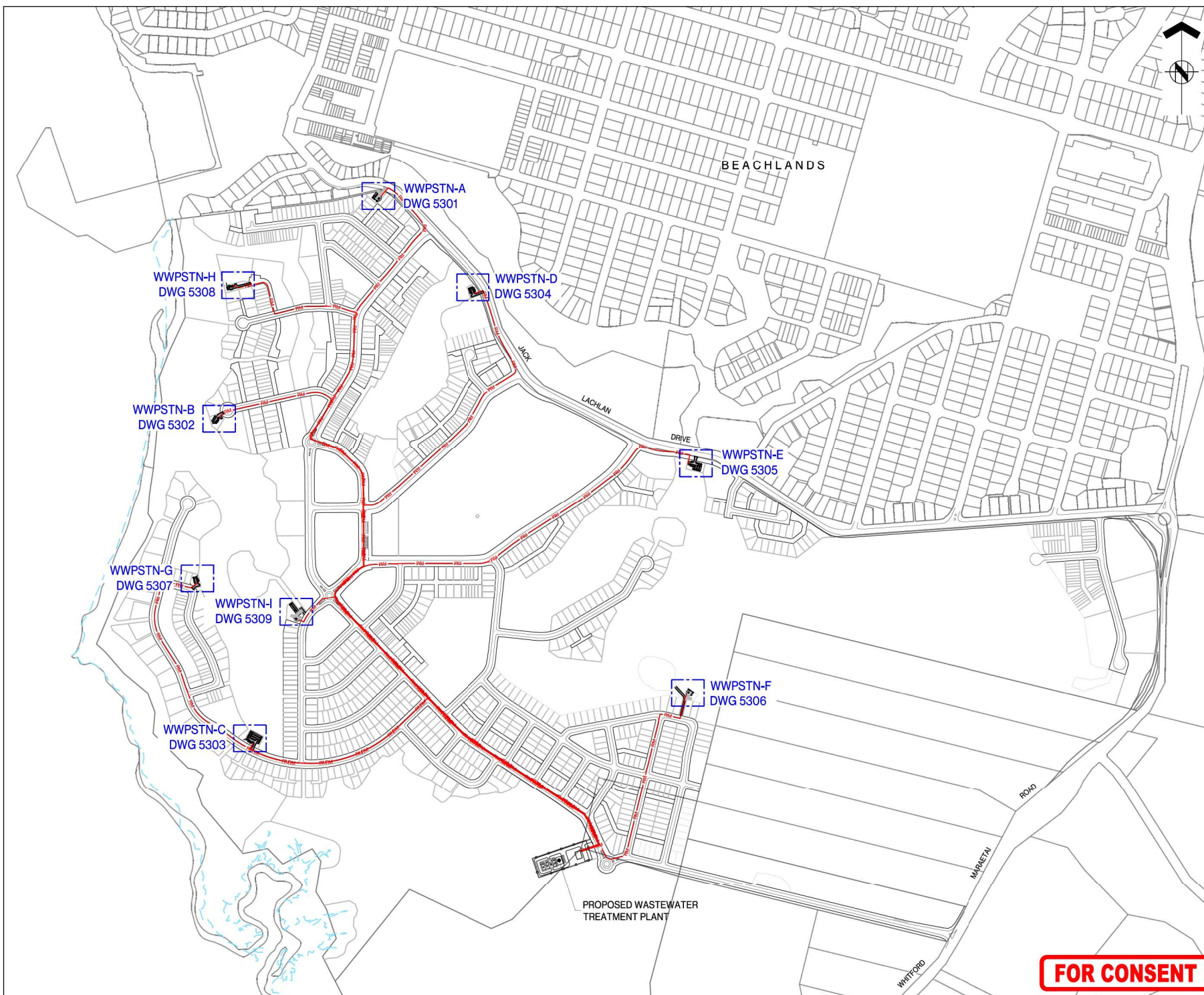
FOR CONSENT



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1. PUMP STATION LAYOUTS ARE INDICATIVE AND AS PROPOSED BY PUMP AND VALVE SPECIALITIES LTD.



 WW
 PROPOSED WASTEWATER GRAVITY MAIN

 RM
 PROPOSED WASTEWATER RISING MAIN

 PROPOSED WASTEWATER PUMP STATION (TYPICAL)

 STORAGE = 24 hrs

 STORAGE = 8 hrs

A	FOR CONSENT	CJM	05/20/2017
REF	REVISIONS	BY	DATE

**HARRISON
GRIERSON**

PROJECT:

**BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND**

TITLE: **WASTEWATER
PUMP STATIONS
LAYOUT SHEET**

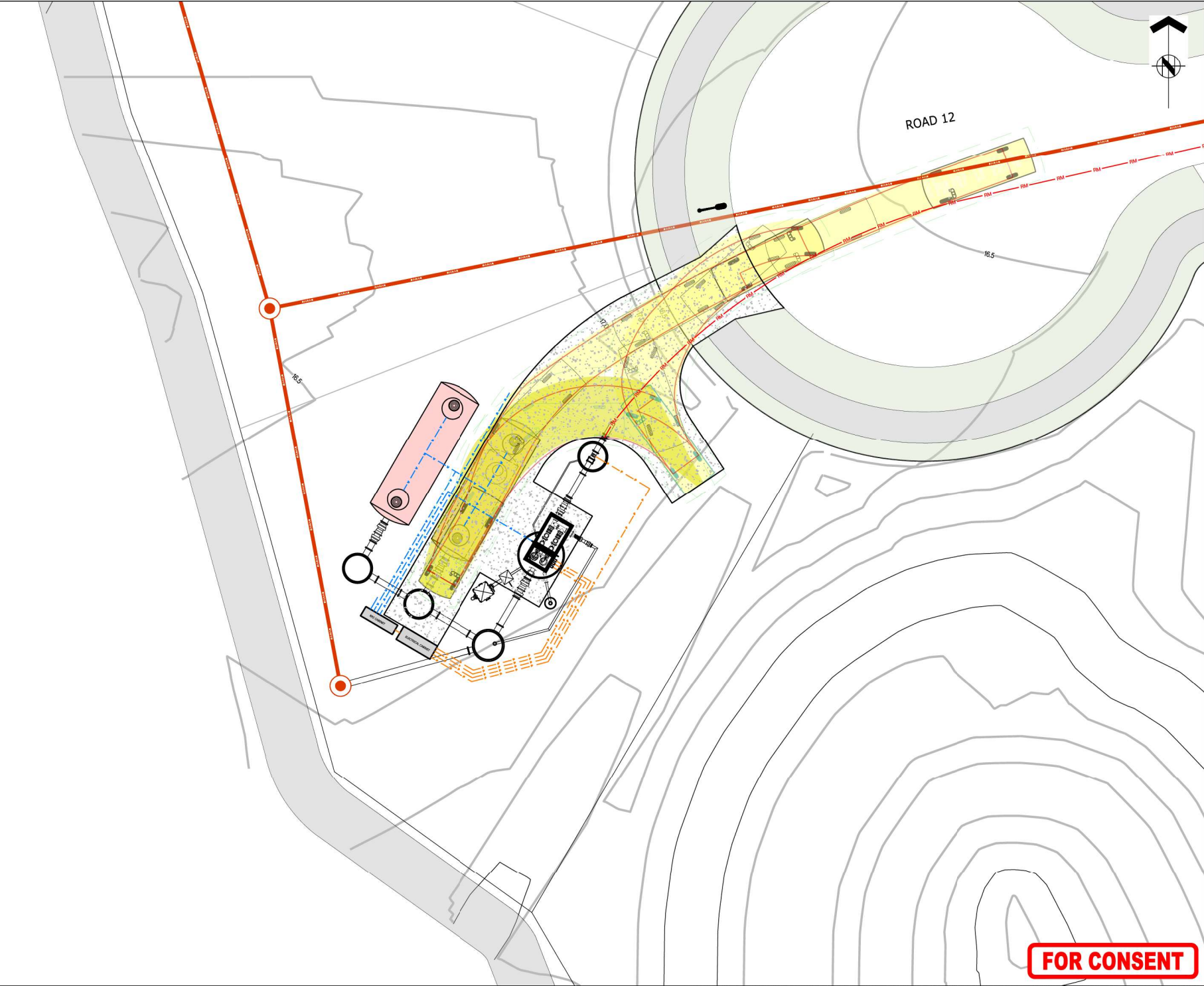
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DRAWN: MNP	DATE: 05/20/26	SIGNED:	PLOT DATE: 26.05
CHECKED: PZS	DATE: 05/20/26	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 05/20/26	SIGNED:	SURVEY DATE: SURVEYED DA

ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515591.00	SCALES: A1 1:3500 A3 1:1750	A
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DRAWING No:	REV
A2515591.00-5300	A

FOR CONSENT





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NOTES:

1. REFER TO A2515591.00-5300 FOR LEGEND AND NOTES



AT Design Vehicle - 6.3m - Delivery Van
Overall Length 6.30m
Overall Width 2.05m
Overall Body Height 2.25m
Min Body Ground Clearance 0.205m
Max Track Width 1.80m
Lock-to-lock time 4.00s
CURB TO CURB Turning Radius 7.200m

TRUCK CHASSIS/WHEELTRACK

VAN BODYWORK ENVELOPE

500mm BUFFER ZONE

REF	REVISIONS	BY	DATE
A	FOR CONSENT	SCT	05/2026

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T +64 9 917 5000
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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

WASTEWATER
PUMP STATION B
LAYOUT

OPERATOR	DATE	SIGNED	PILOT BY
CJM	05/2026		MNP

DRAWN	DATE	SIGNED	PILOT DATE
MNP	05/2026		26/05/26

CHECKED	DATE	SIGNED	SURVEYED BY
PZS	05/2026		

APPROVED	DATE	SIGNED	SURVEY DATE
CJM	05/2026		

ISSUE STATUS:

FAST TRACK CONSENT

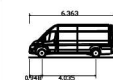
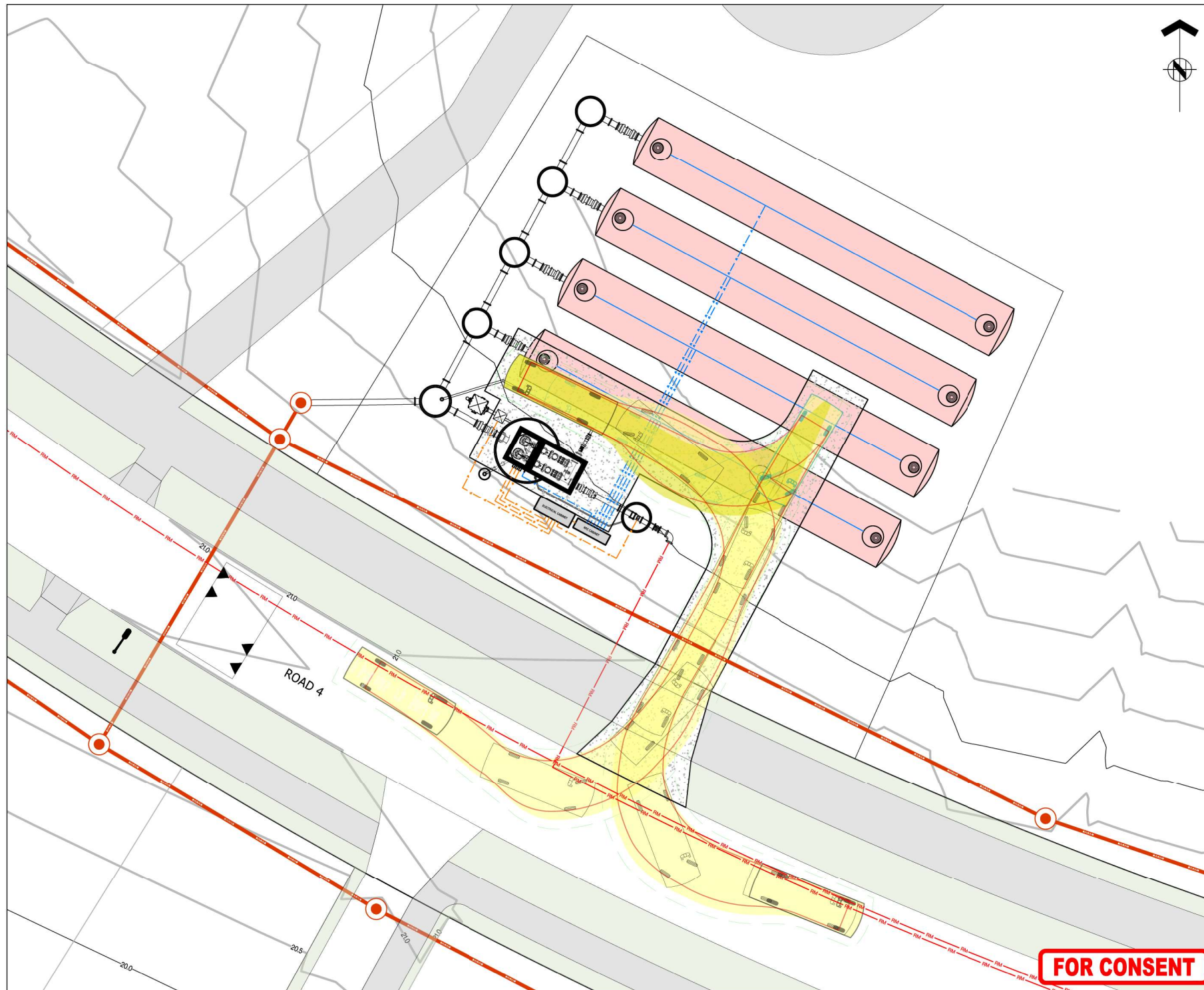
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DRAWING No:

A2515591.00-5302

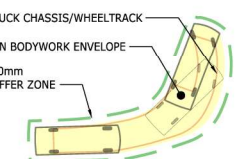
REV

FOR CONSENT



AT Design Vehicle - 6.3m - Delivery Van

Overall Length	6.363m
Overall Width	2.030m
Overall Body Height	2.432m
Min Body Ground Clearance	0.061m
Max Track Width	1.810m
Lock-to-lock time	4.00s
Curb to Curb turning Radius	7.200m



A	FOR CONSENT	SCT	05/2026
REF	REVISIONS	BY	DATE

**HARRISON
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Parnell, Auckland 1052
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W www.harrisongrierson.com

PROJECT:

**BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND**

TITLE: WASTEWATER
PUMP STATION C
LAYOUT

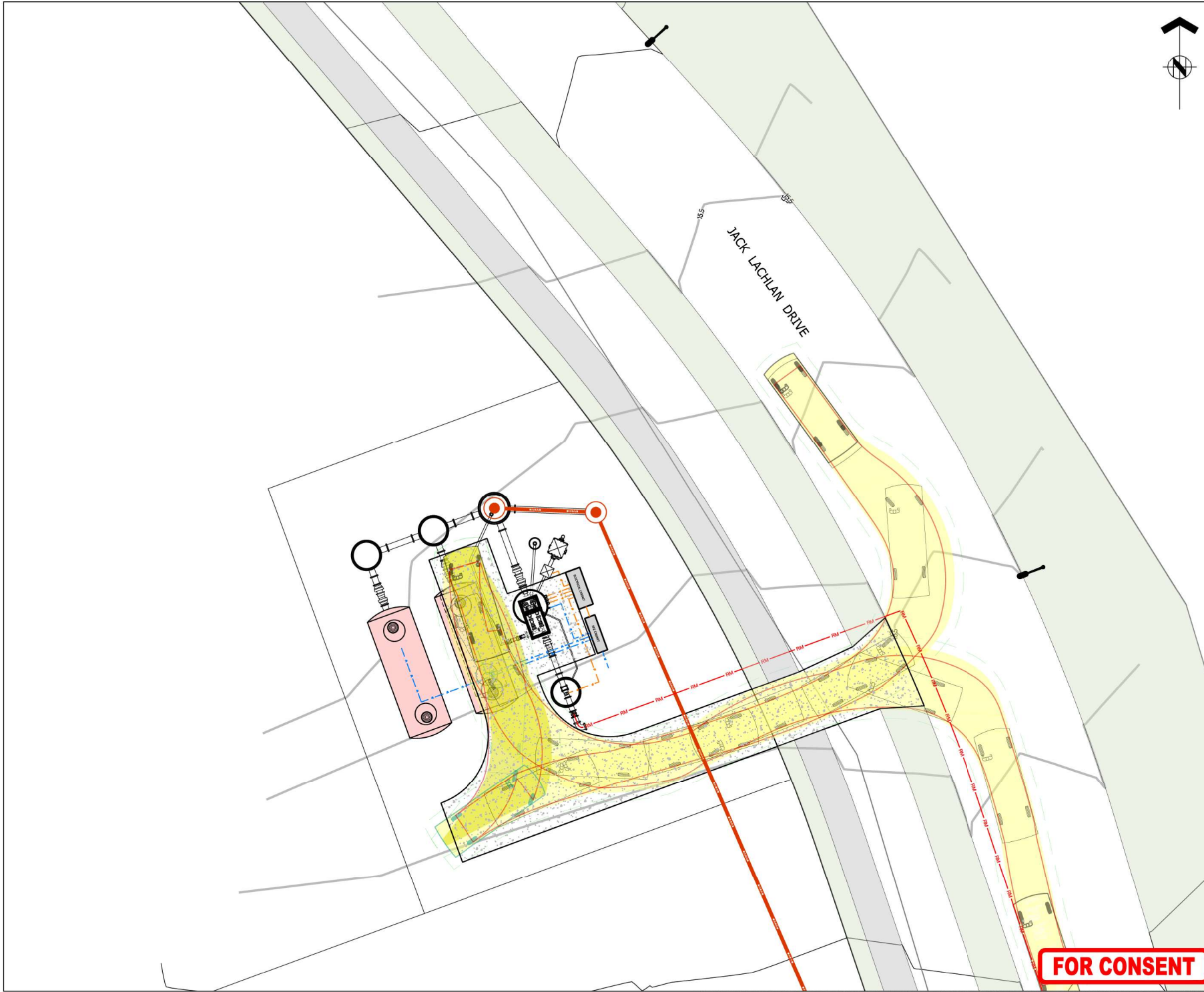
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DRAWN: MNP	DATE: 05.2026	SIGNED:	PLOT DATE: 26.05.26
CHECKED: PZS	DATE: 05.2026	SIGNED:	SURVEY BY: SURVEYED BY
APPROVED: CJM	DATE: 05.2026	SIGNED:	SURVEY DATE: SURVEYED DATE

ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515591.00	SCALES: A1 1:100 A3 1:200	A1
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DRAWING No: **A2515591.00-5303** REV **A**

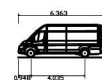
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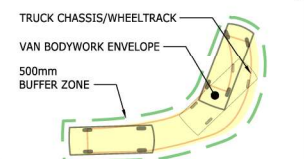
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NOTES:

1. REFER TO A2515591.00-5300 FOR LEGEND AND NOTES



AT Design Vehicle - 6.3m - Delivery Van
Overall Length 6.3m
Overall Width 2.5m
Overall Body Height 2.5m
Min Body Ground Clearance 0.25m
Max Track Width 1.8m
Lock-to-lock time 4.0m
CURB TO CURB Turning Radius 7.200m



REF	REVISIONS	BY	DATE
A	FOR CONSENT	SCT	05/2026

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PROJECT: BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE: WASTEWATER
PUMP STATION D
LAYOUT

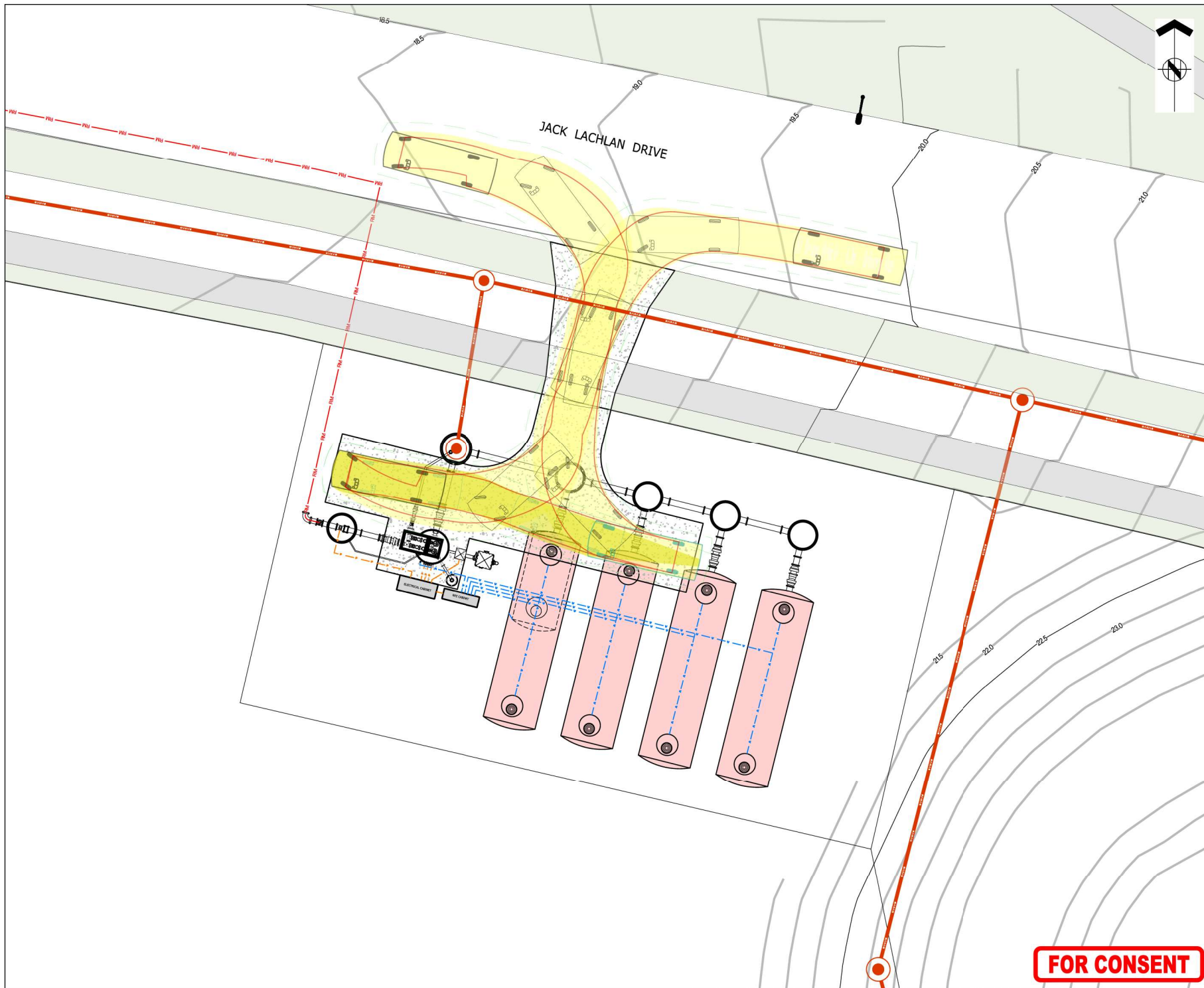
ORIGINATOR CJM	DATE 05/2026	SIGNED	PLOT BY: MNP
DRAWN MNP	DATE 05/2026	SIGNED	PLOT DATE: 26/05/26
CHECKED VZS	DATE 05/2026	SIGNED	SURVEY BY: SURVEYED BY
APPROVED CJM	DATE 05/2026	SIGNED	SURVEY DATE: SURVEYED DATE

ISSUE STATUS: FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: A1 1:100 A3 1:200	REV A1
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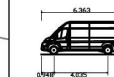
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FOR CONSENT

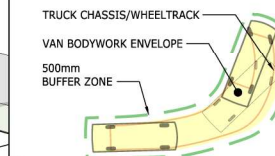


NOTES:

1. REFER TO A2515591.00-5300 FOR LEGEND AND NOTES



AT Design Vehicle - 6.3m - Delivery Van
Overall Length 6.30m
Overall Width 2.55m
Overall Body Height 2.55m
Min Body Ground Clearance 1.81m
Max Track Width 4.06m
Lock-to-lock, 4.06m
Curb to Curb Turning Radius 7.200m



REF	REVISIONS	BY	DATE
A	FOR CONSENT	CJM	05/2026

HARRISON GRIERSON AUCKLAND OFFICE
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PROJECT: BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE: WASTEWATER
PUMP STATION E
LAYOUT

ORIGINATOR CJM	DATE 05/2026	SIGNED	PLOT BY: MNP
DRAWN MNP	DATE 05/2026	SIGNED	PLOT DATE: 26/05/26
CHECKED PZS	DATE 05/2026	SIGNED	SURVEY BY: SURVEYED BY
APPROVED CJM	DATE 05/2026	SIGNED	SURVEY DATE: SURVEYED DATE

ISSUE STATUS:

FAST TRACK CONSENT

PROJECT No: A2515591.00 SCALES: A1 1:100 A3 1:200

DRAWING No: A1

A2515591.00-5305 A

FOR CONSENT

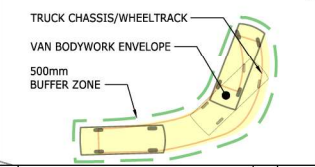


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NOTES:

1. REFER TO A2515591.00-5300 FOR LEGEND AND NOTES

AT Design Vehicle - 6.3m - Delivery Van
Overall Length 6.3m
Overall Width 2.05m
Overall Body Height 2.25m
Min Body Ground Clearance 0.205m
Max Track Width 1.80m
Lock-to-lock time 4.00s
CURB TO CURB Turning Radius 7.200m



REF	REVISIONS	BY	DATE
A	FOR CONSENT	CJM	05/2026

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PROJECT:
**BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND**

TITLE:
**WASTEWATER
PUMP STATION F
LAYOUT**

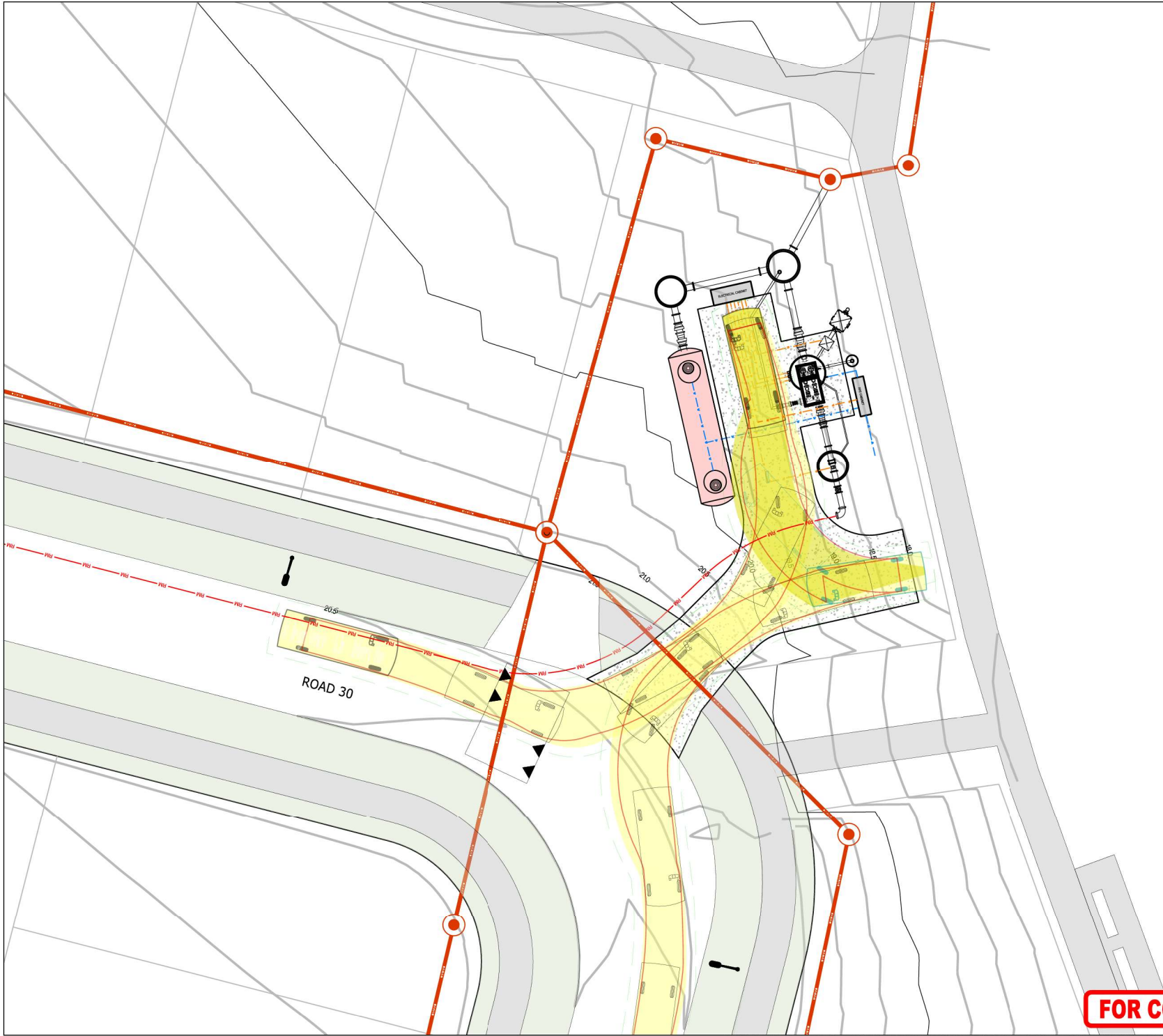
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DRAWN MNP	DATE 05/2026	SIGNED	PLOT DATE: 26/05/26
CHECKED PZS	DATE 05/2026	SIGNED	SURVEY BY: SURVEYED BY
APPROVED CJM	DATE 05/2026	SIGNED	SURVEY DATE: SURVEYED DATE

ISSUE STATUS:
FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: A1 1:100 A3 1:200	REV
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DRAWING No:
A2515591.00-5306
A

FOR CONSENT



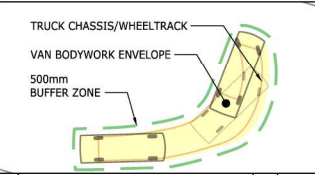
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NOTES:

1. REFER TO A2515591.00-5300 FOR LEGEND AND NOTES



AT Design Vehicle - 6.3m - Delivery Van
Overall Length 6.30m
Overall Width 2.55m
Overall Height 2.55m
Min Body Ground Clearance 0.205m
Max Track Width 1.81m
Lock-to-lock, time 4.00m
Curb to Curb Turning Radius 7.200m



A		FOR CONSENT	CJM	05/2026
REF	REVISIONS	BY	DATE	

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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

WASTEWATER
PUMP STATION G
LAYOUT

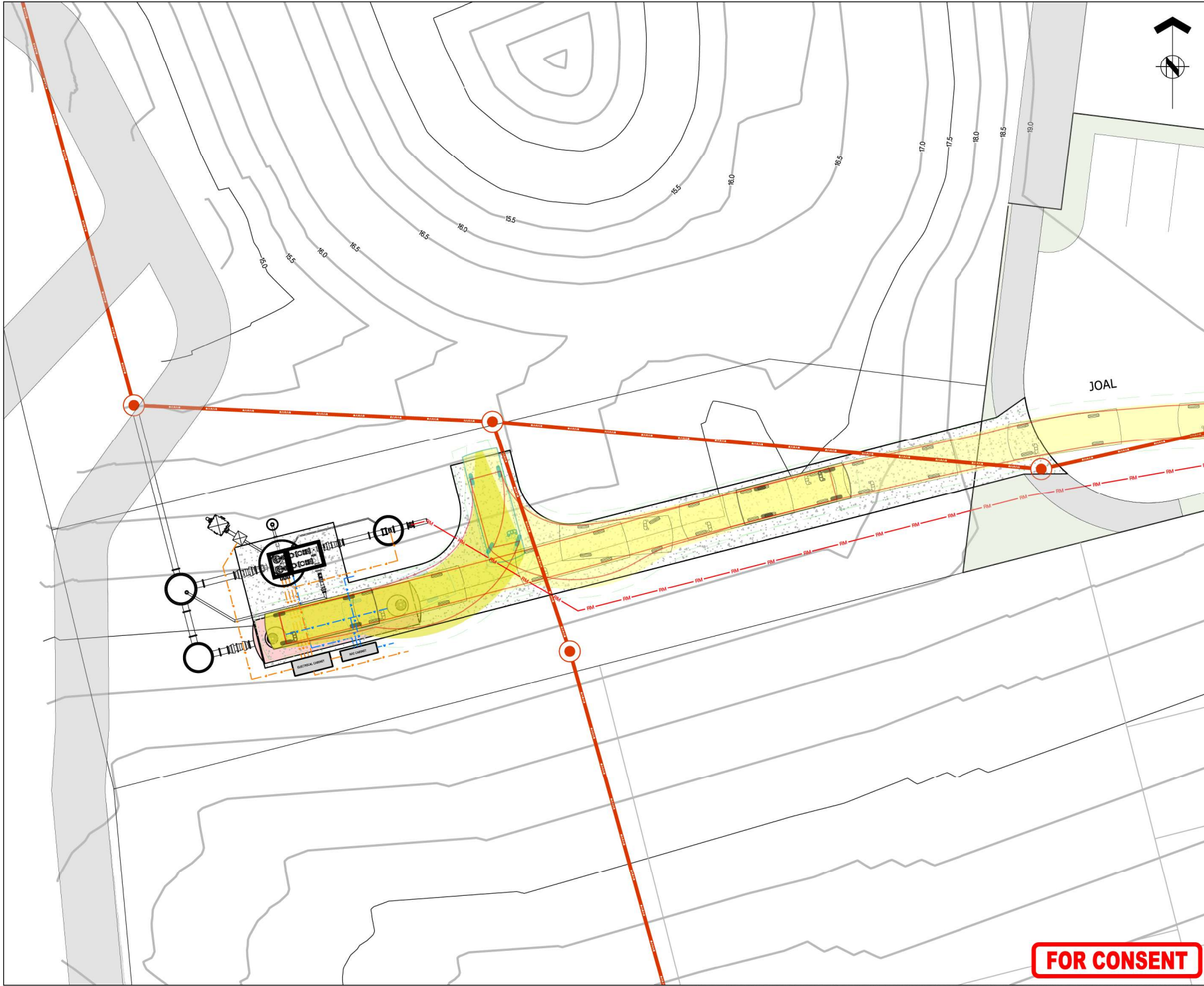
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DRAWN MNP	DATE 05/2026	SIGNED	PLOT DATE: 26/05/26
CHECKED PZS	DATE 05/2026	SIGNED	SURVEY BY: SURVEYED BY
APPROVED CJM	DATE 05/2026	SIGNED	SURVEY DATE: SURVEYED DATE

ISSUE STATUS:

FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: A1 1:100 A3 1:200	REV A1
DRAWING No: A2515591.00-5307		REV A

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NOTES:

1. REFER TO A2515591.00-5300 FOR LEGEND AND NOTES

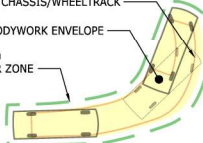


AT Design Vehicle - 6.3m - Delivery Van
Overall Length 6.30m
Overall Width 2.50m
Overall Body Height 2.50m
Min Body Ground Clearance 0.205m
Max Track Width 1.80m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 7.200m

TRUCK CHASSIS/WHEELTRACK

VAN BODYWORK ENVELOPE

500mm BUFFER ZONE



REF	REVISIONS	BY	DATE
A	FOR CONSENT	CJM	05/2026

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PROJECT:
BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:
WASTEWATER
PUMP STATION H
LAYOUT

OPERATOR	DATE	SIGNED	PILOT BY
CJM	05/2026		MNP

DRAWN	DATE	SIGNED	PILOT DATE
MNP	05/2026		26.05.26

CHECKED	DATE	SIGNED	SURVEY BY
PZS	05/2026		SURVEYED BY

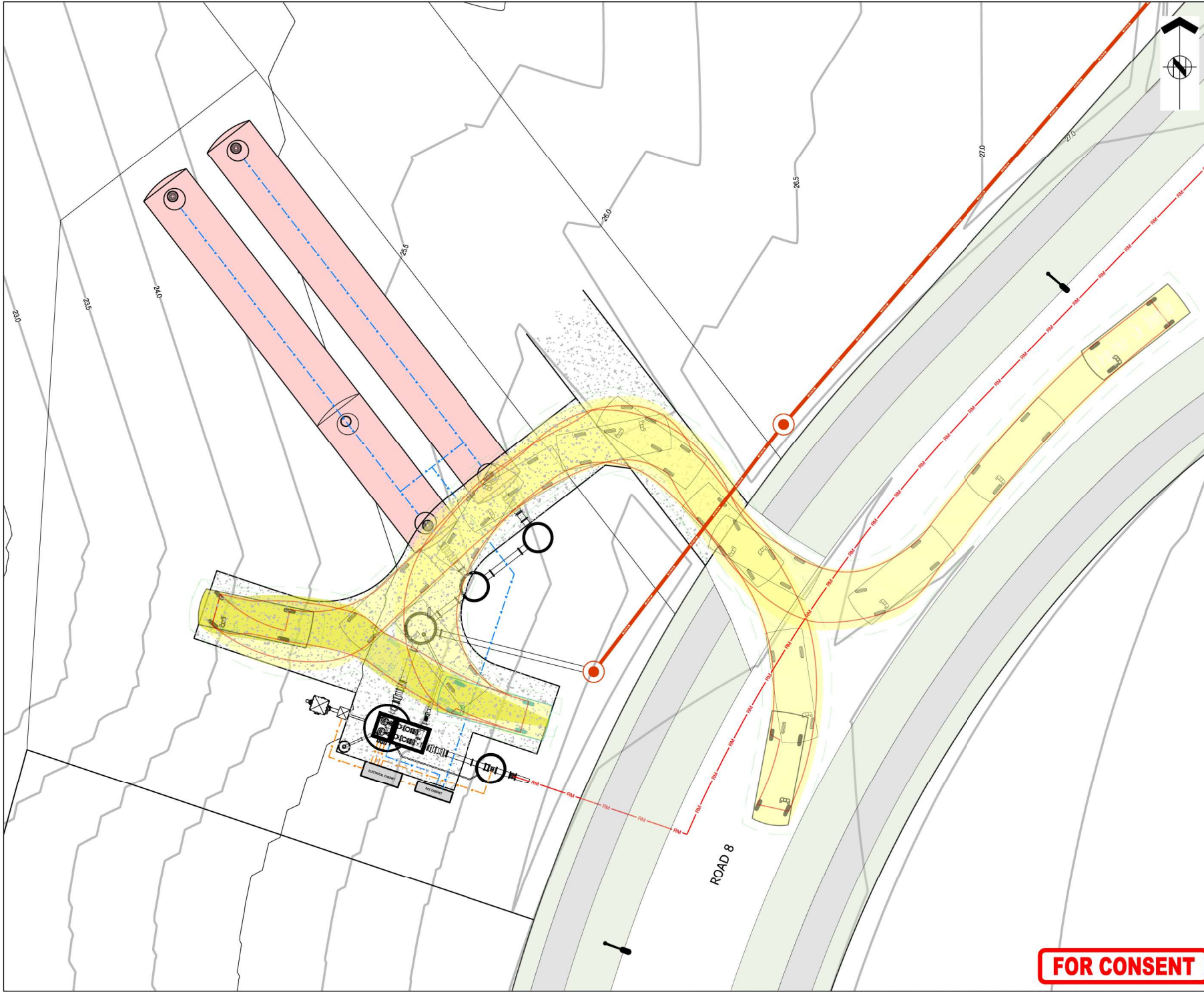
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CJM	05/2026		SURVEYED DATE

ISSUE STATUS:
FAST TRACK CONSENT

PROJECT No:	SCALE:	A1
A2515591.00	A1 1:100 A3 1:200	REV

DRAWING No: A2515591.00-5308 A

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ENGINEERS NEW ZEALAND

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QUALITY
ASSURED

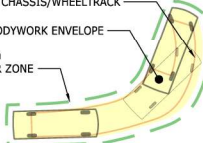
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NOTES:
1. REFER TO A2515591.00-5300 FOR LEGEND AND
NOTES



AT Design Vehicle - 6.3m - Delivery Van
Overall Length 6.30m
Overall Width 2.50m
Overall Body Height 2.50m
Min Body Ground Clearance 0.20m
Max Track Width 1.80m
Lock-to-lock time 4.00s
CURB TO CURB Turning Radius 7.200m

TRUCK CHASSIS/WHEELTRACK
VAN BODYWORK ENVELOPE
500mm
BUFFER ZONE



REF	REVISIONS	BY	DATE
A	FOR CONSENT	SCT	05/2026

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PROJECT:
BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:
WASTEWATER
PUMP STATION I
LAYOUT

OPERATOR	DATE	SIGNED	PLLOT BY:
CJM	05/2026		MNP

DRAWN	DATE	SIGNED	PLLOT DATE:
MNP	05/2026		26/05/26

CHECKED	DATE	SIGNED	SURVEY BY:
PZS	05/2026		SURVEYED BY

APPROVED	DATE	SIGNED	SURVEY DATE:
CJM	05/2026		SURVEYED DATE

ISSUE STATUS:
FAST TRACK CONSENT

PROJECT No:	SCALE:	REV
A2515591.00	A1 1:100 A2 1:200	A1

DRAWING No: A2515591.00-5309 A

FOR CONSENT

GENERAL CONSTRUCTION NOTES

STANDARDS RELATING TO WORKS

Works shall be carried out to the requirements of the Health & Safety at work in Employment Act 2015.

Works shall be completed to Watercare Construction Standards.

MANUFACTURERS SPECIFICATIONS

Materials shall be installed to the Manufacturers requirements unless otherwise specified.

WELDING & FIXINGS

All steelwork shall be workshop fabricated.

Steelwork and fixings shall be hot-dip galvanised to AS/NZS 4680 unless otherwise stated.

A Nickel anti-seize free of copper, lead, sulphides, chlorides & carbons (graphite) shall be used on bolts.

REINFORCING STEEL

Reinforcing shall be centrally placed with the specified minimum cover.

Bends shall be cold formed.

JOINT SEALS

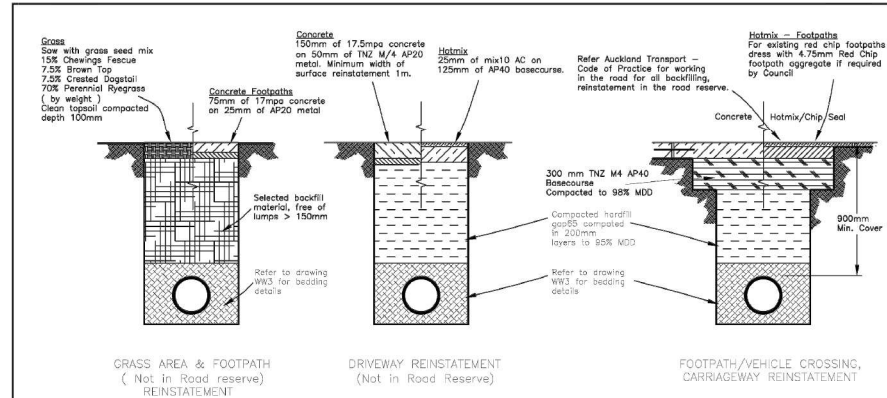
Flanges : Per WSL Material Standard.

Manhole Joints : Concrete manhole with flexible joint seal such as rubber or butyl.
All joints must be externally wrapped with an accepted tape wrapped system.
Alternative materials to suppliers' specifications.



GENERAL CONSTRUCTION NOTES

SCALE: N.T.S.
ISSUE DATE: 13-07-2018
DWG No. 2010070.002D
REFERENCE No. WW 1



NOTES:
1. All trench surface reinstatement within the road reserve shall comply with Auckland Transport requirements. The details shown are typical expectations for reinstatements.
2. Backfill shall be compacted in 200mm layers to obtain maximum density as described in Watercare's Construction Standards.
3. Where concrete or other stabilized layers exist in the roadway, the trench shall be reinstated with similar material or as directed by the roading engineer.

SCALE: N.T.S.
ISSUE DATE: 06-03-2017
DWG No. 2010070.001C
REFERENCE No. WW 2

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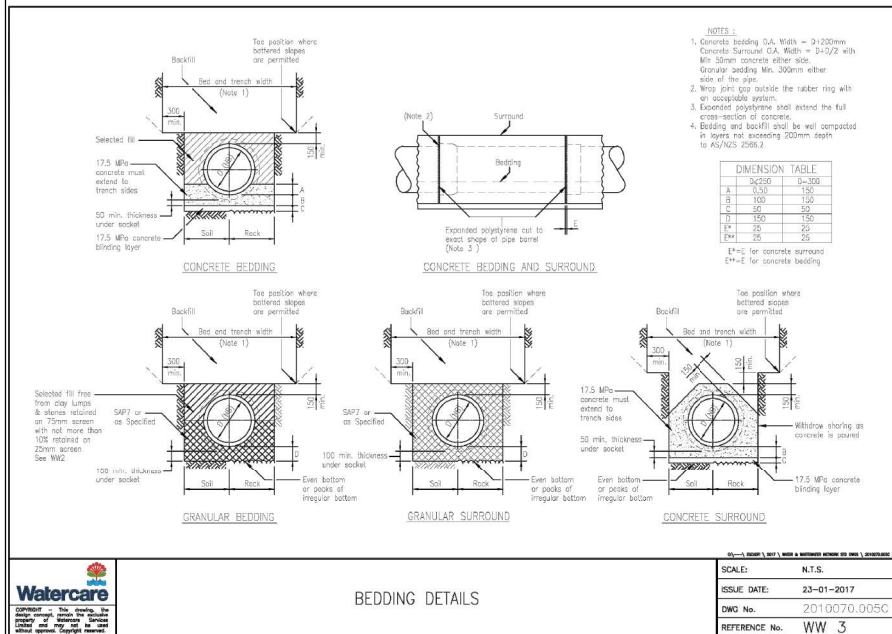
PROJECT: BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE: WASTEWATER STANDARD DETAILS
SHEET 1 OF 5

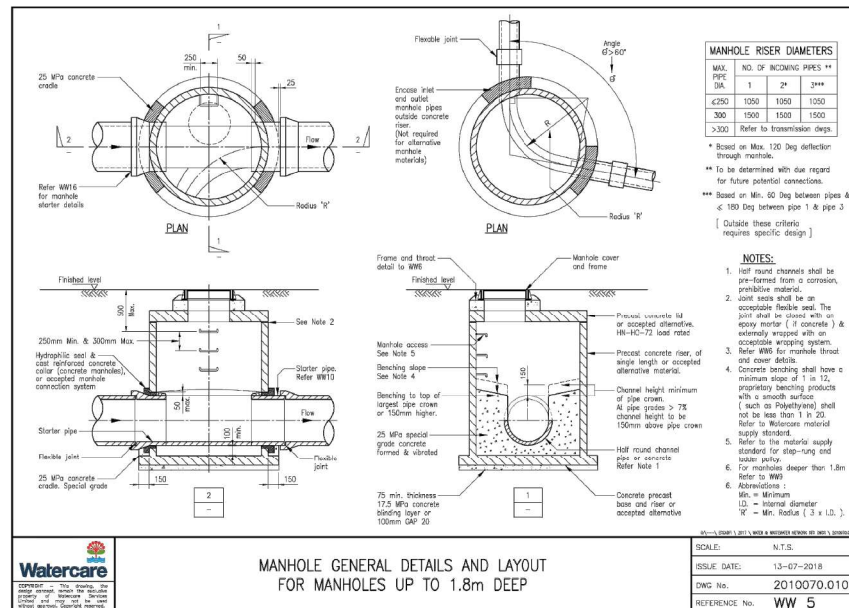
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SCOT	04.2026			
DRAWN	DATE	SIGNED	PLAT DATE	00.06.26
SCOT	11.2025			
CHECKED	DATE	SIGNED	SURVEY BY	
P23	04.2026			
APPROVED	DATE	SIGNED	SURVEY DATE	
CSM	04.2026			

FAST TRACK CONSENT

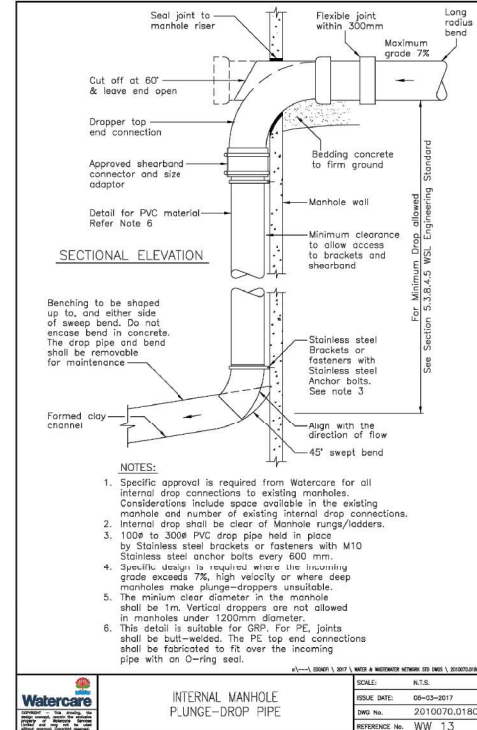
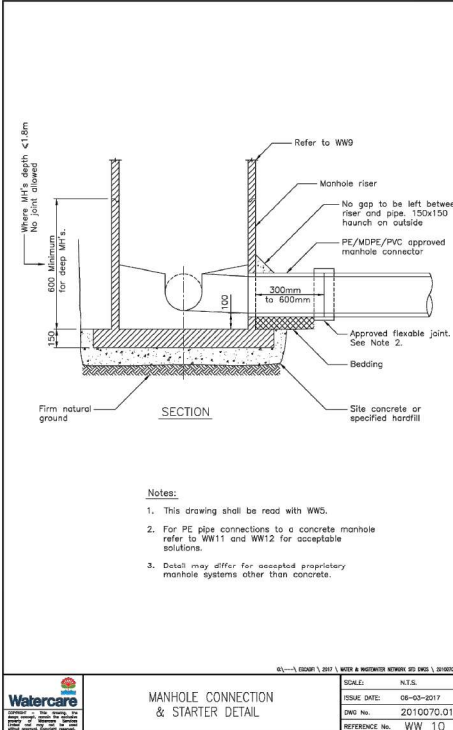
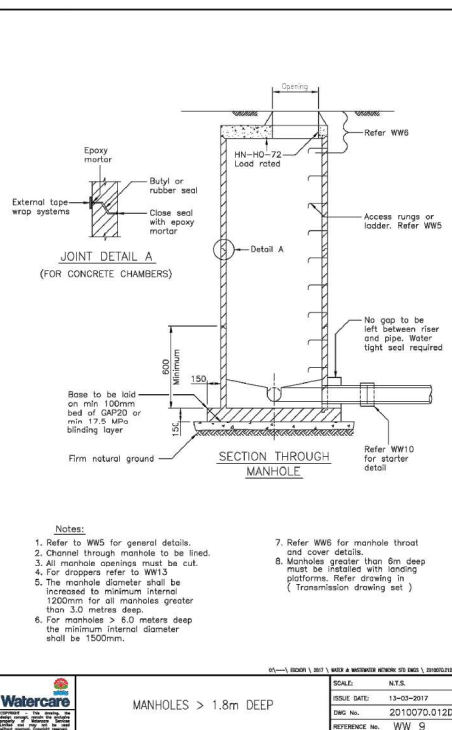
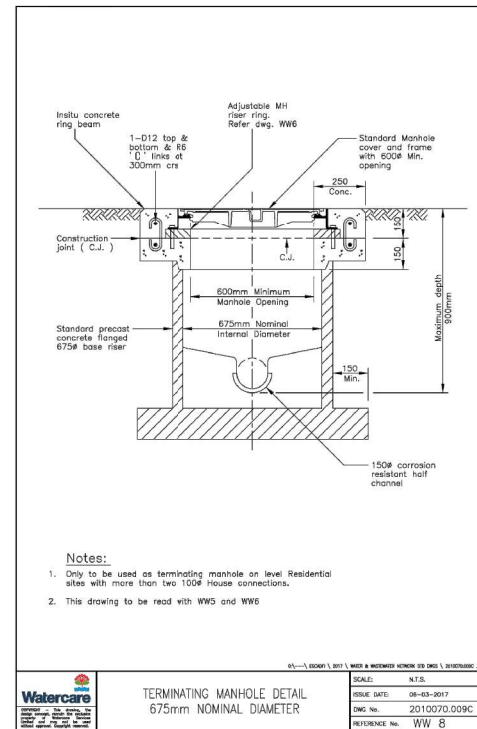
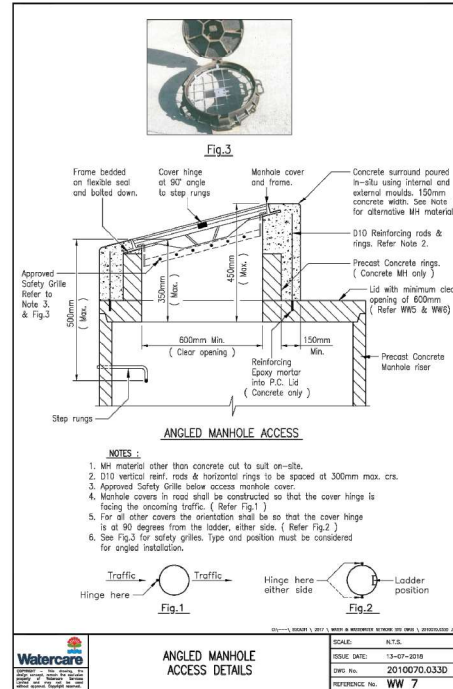
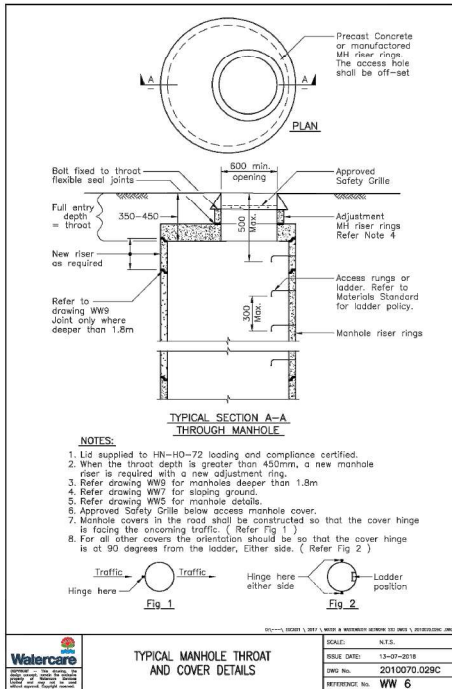
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DRAWING No: A2515591.00-5900
SCALE: NOT TO SCALE
REV A



SCALE: N.T.S.
ISSUE DATE: 23-01-2017
DWG No. 2010070.005C
REFERENCE No. WW 3



SCALE: N.T.S.
ISSUE DATE: 13-07-2018
DWG No. 2010070.010D
REFERENCE No. WW 5



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A	FOR CONSENT	CJM	02/2026
REF	REVISIONS	BY	DATE

HARRISON GRIERSON

PROJECT: **BEACHLANDS FAST TRACK CONSENT APPLICATION BEACHLANDS SOUTH, AUCKLAND**

TITLE: **WASTEWATER STANDARD DETAILS SHEET 2 OF 5**

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ORIGINATOR	DATE	SIGNED	PLOT BY	REF
SCT	04/2026			

DRAWN	DATE	SIGNED	PLOT DATE	08/06/26
SCT	11/2025			

CHECKED	DATE	SIGNED	SURVEY BY	SURVEYED BY
P23	04/2026			

APPROVED	DATE	SIGNED	SURVEY DATE	SURVEYED DATE
CJM	04/2026			

PROJECT No: **A2515591.00**

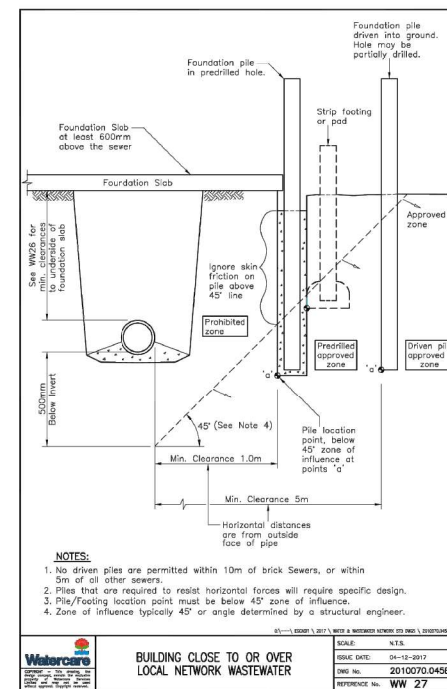
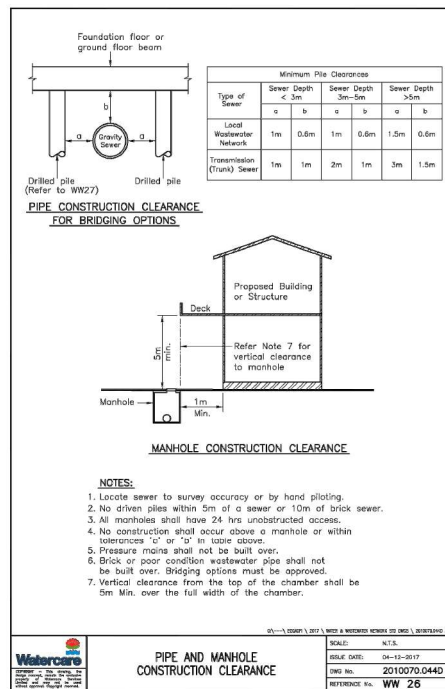
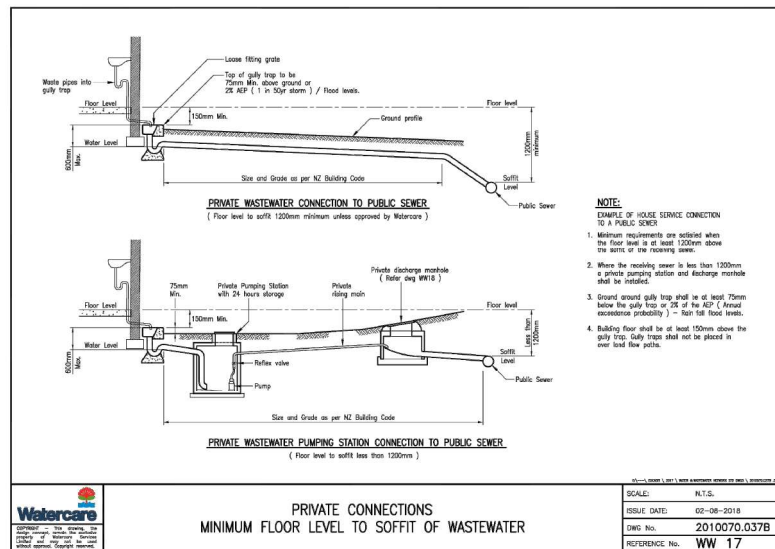
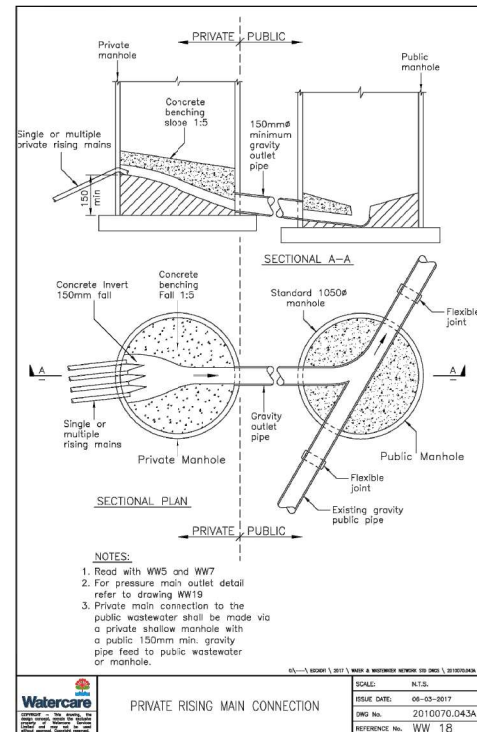
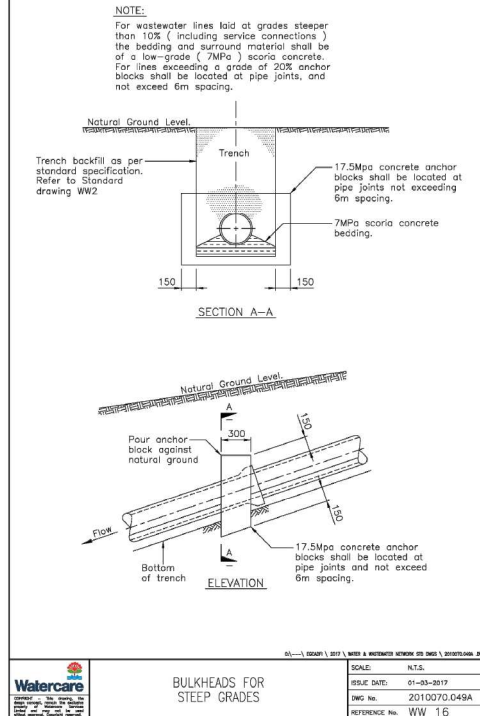
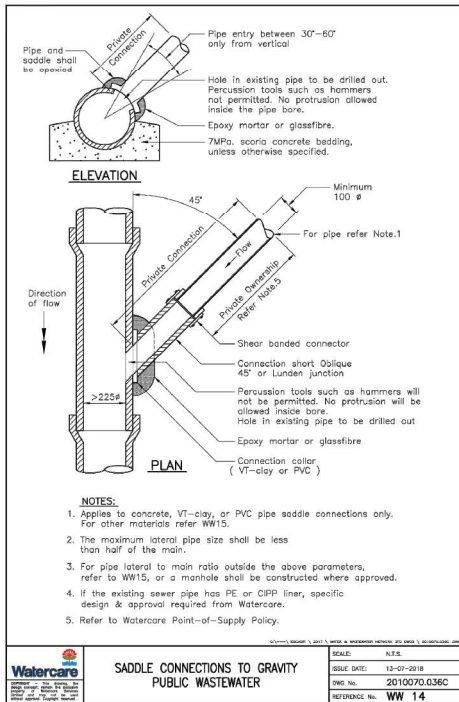
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SCALE: NOT TO SCALE

FAST TRACK CONSENT

A1

REV **A**



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PROJECT: BEACHLANDS FAST TRACK CONSENT APPLICATION BEACHLANDS SOUTH, AUCKLAND

TITLE: WASTEWATER STANDARD DETAILS SHEET 3 OF 5

ORIGINATOR: SCT DATE: 04.2026 SIGNED: PLOT BY: RER

DRAWN: SCT DATE: 11.2025 SIGNED: PLOT DATE: 08.2026

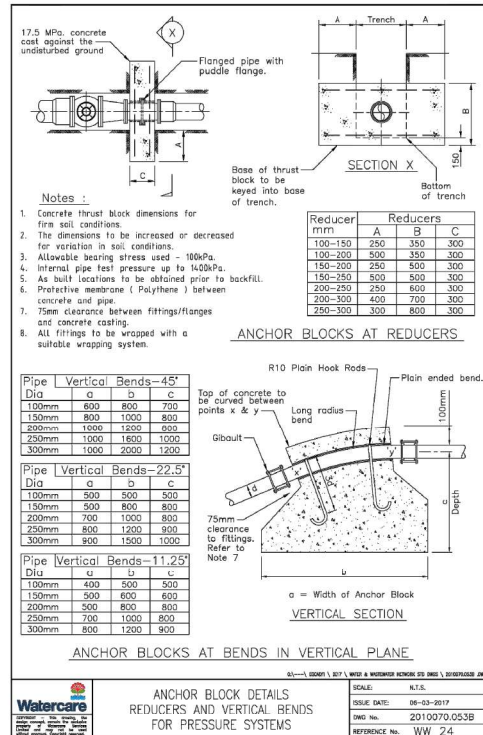
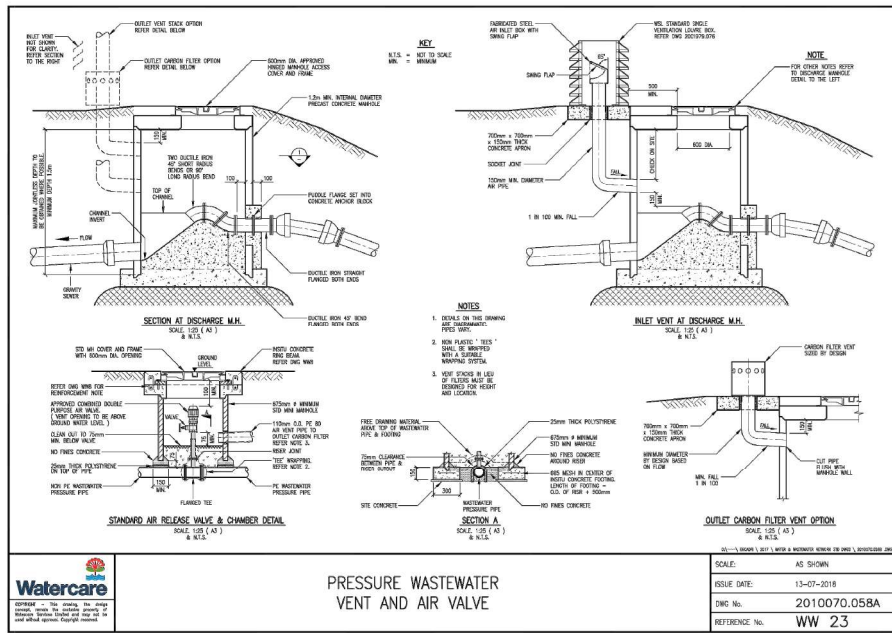
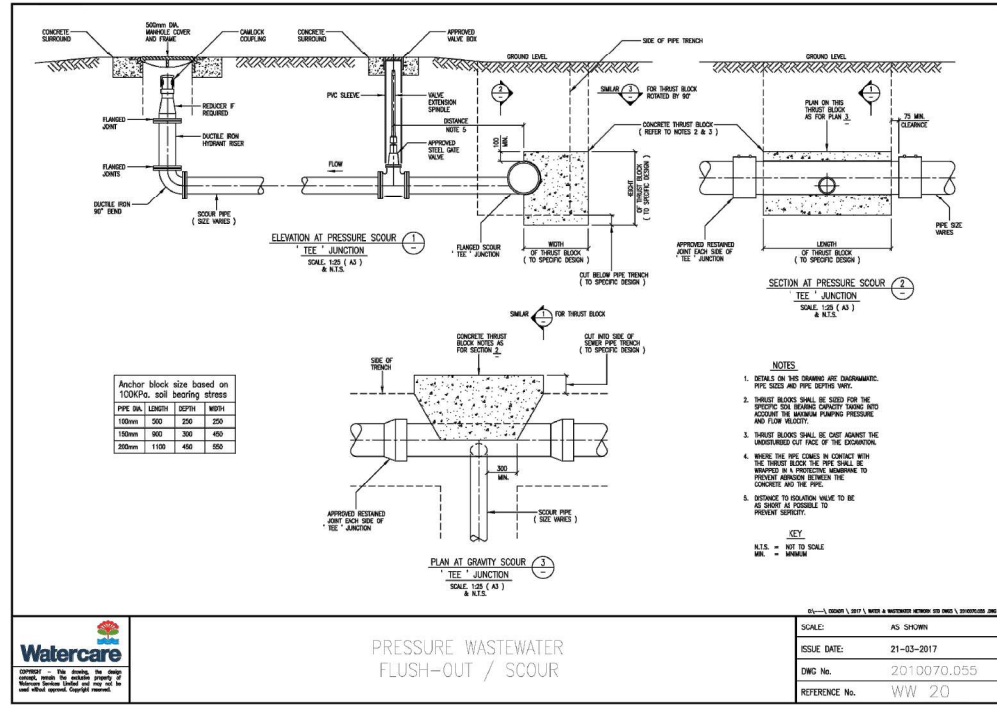
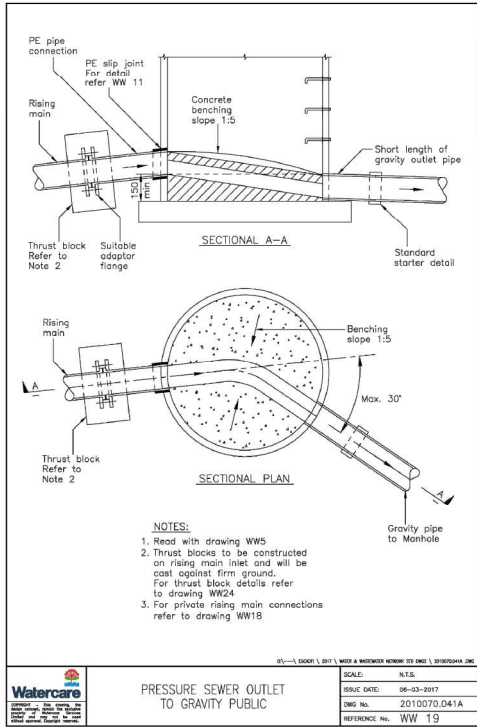
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APPROVED: CJM DATE: 04.2026 SIGNED: SURVEY DATE: SURVEYED DATE

FAST TRACK CONSENT

PROJECT No: A2515591.00 SCALES: NOT TO SCALE A1

DRAWING No: A2515591.00-5902 REV A



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FOR CONSENT

REF	REVISIONS	DATE
A	FOR CONSENT	02/2026

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PROJECT:

BEACHLANDS FAST TRACK CONSENT APPLICATION

BEACHLANDS SOUTH, AUCKLAND

TITLE:

WASTEWATER STANDARD DETAILS

SHEET 4 OF 5

ORIGINATOR	DATE	SIGNED	PLLOT BY
SCOT	04/2026		REF

DRAWN	DATE	SIGNED	PLLOT DATE
P23	11/2025		08/06/26

CHECKED	DATE	SIGNED	SURVEY BY
P23	04/2026		SURVEYED BY

APPROVED	DATE	SIGNED	SURVEY DATE
CJM	04/2026		SURVEYED DATE

ISSUE STATUS:

FAST TRACK CONSENT

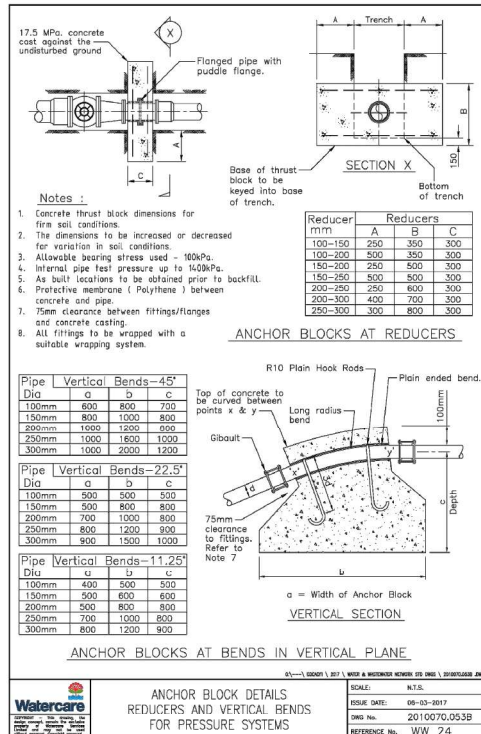
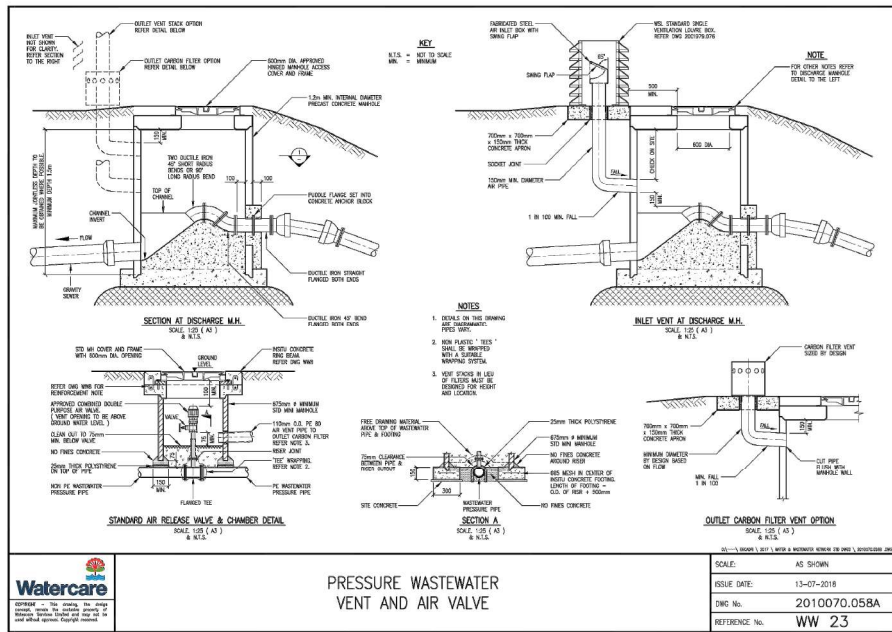
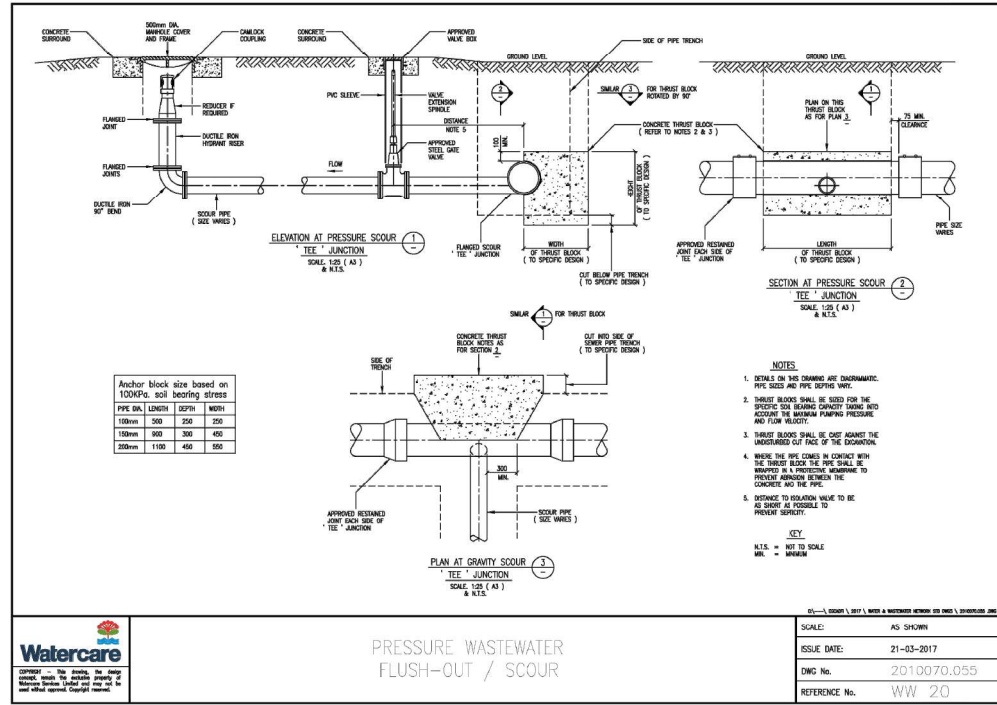
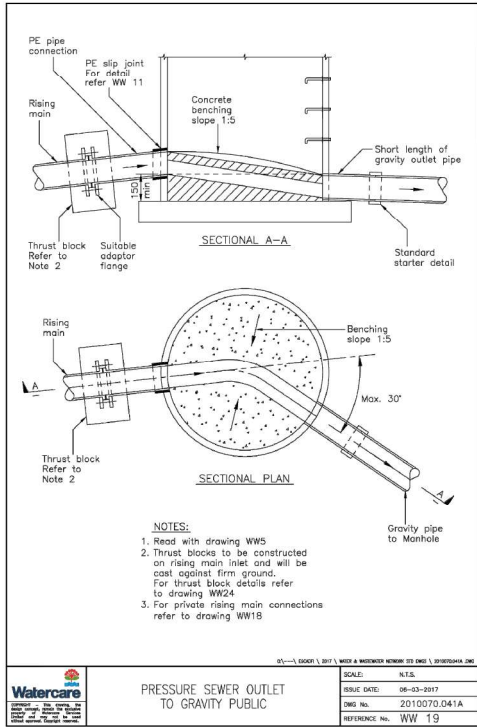
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DRAWING No.:

A2515591.00-5903

REFERENCE No.:

WW 24



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FOR CONSENT

REF	REVISIONS	DATE
A	FOR CONSENT	GJM 02/2026

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AUCKLAND OFFICE
Level 4, 96 St. Georges Bay Road
Parnell, Auckland 1052
T +64 9 917 5000
W www.harrisongrierson.com

PROJECT:

BEACHLANDS FAST TRACK CONSENT APPLICATION BEACHLANDS SOUTH, AUCKLAND

TITLE:

WASTEWATER STANDARD DETAILS SHEET 5 OF 5

ORIGINATOR	DATE	SIGNED	PLLOT BY:
SCOT	04/2026		REF

DRAWN	DATE	SIGNED	PLLOT DATE:
P23	11/2025		09/06/26

CHECKED	DATE	SIGNED	SURVEY BY:
P23	04/2026		SURVEYED BY

APPROVED	DATE	SIGNED	SURVEY DATE
GJM	04/2026		SURVEYED DATE

ISSUE STATUS:

FAST TRACK CONSENT

PROJECT No.	SCALE:	NOT TO SCALE
A2515591.00		

DRAWING No.	SCALE:	N.T.S.
A2515591.00-5904		

A2515591.00-5904 A

REFER TO APPROVED MASTER DRAWINGS FOR ORIGINAL SIGNATURES. FILE: A2\AUTODESK\ACCD0CS\ACCD0CS\HARRISON GRIERSON\US\BEACHLANDS SOUTH FAST TRACK CONSENT\PROJECT FILES\01 DESIGN\02 CIVIL\04 SHEETS\A2515591.00-5900 WASTEWATER STANDARD DETAILS.DWG