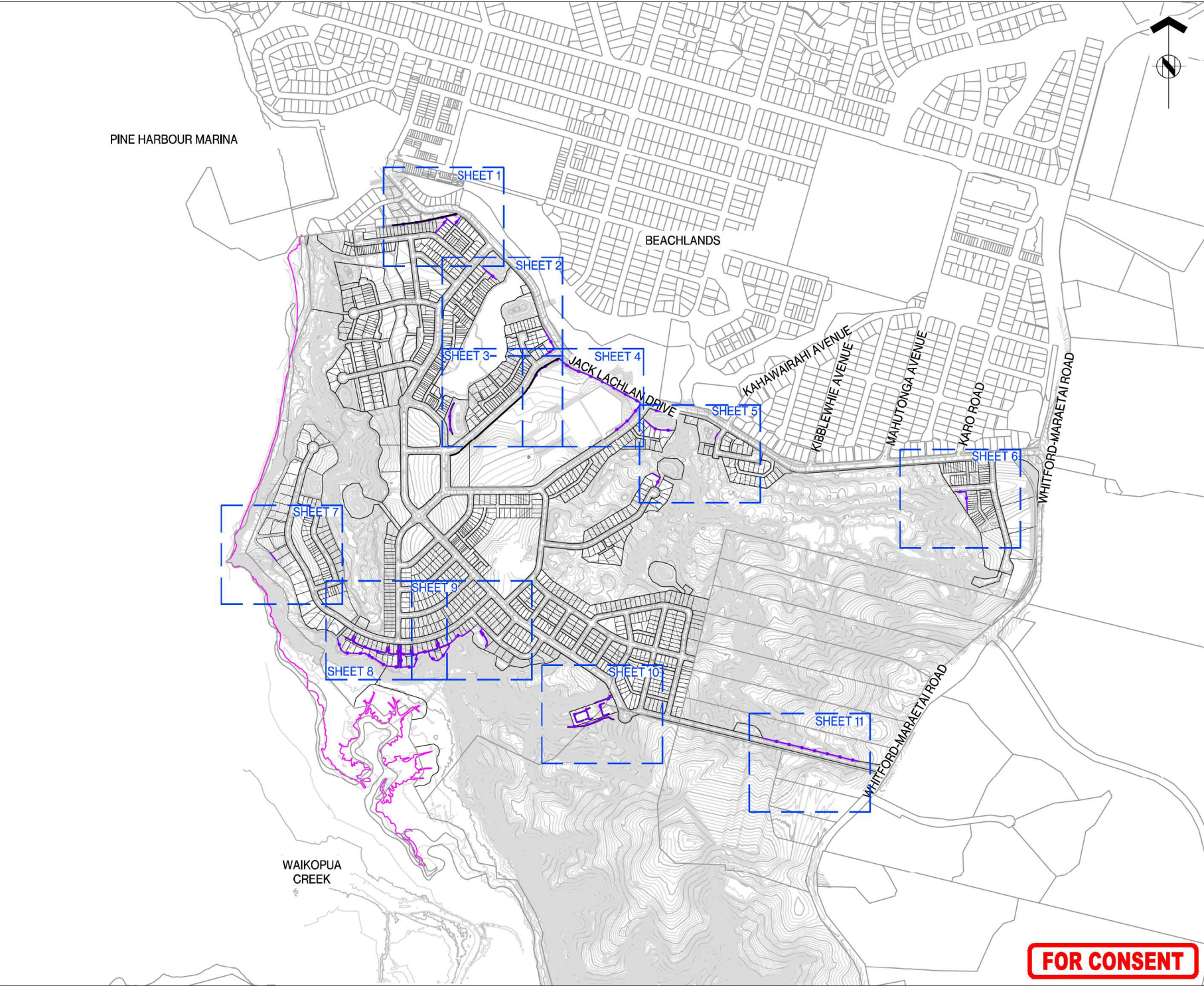






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NOTES

- REFER TO DRAWINGS A2515591.00-2907 TO 2914 FOR TYPICAL RETAINING WALL DETAILS.
- RETAINING WALL INFORMATION IS SHOWN FOR PURPOSES OF CONSENT. A BUILDING CONSENT WILL BE REQUIRED FOR CONSTRUCTION.
- PALLISADE WALL LOCATION AND DESIGN SUBJECT TO GEOTECHNICAL INPUTS AT BUILDING CONSENT LODGEMENT.

LEGEND

 PROPOSED RETAINING WALL

 RETAINING WALL CHAINAGE

 CONTOURS SHOWN AT 0.5m INTERVALS

B	FOR CONSENT	CJM	06/2026
A	FOR DRAFT	CJM	06/2026
REF	REVISIONS	BY	DATE

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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALLS OVERALL PLAN

ORIGINATOR SCT	DATE 04.2026	SIGNED	PLOT BY	SCT
DRAWN SCT	DATE 11.2025	SIGNED	PLOT DATE	12.06.26
CHECKED PZS	DATE 04.2026	SIGNED	SURVEYED BY	
APPROVED CJM	DATE 04.2026	SIGNED	SURVEY DATE	

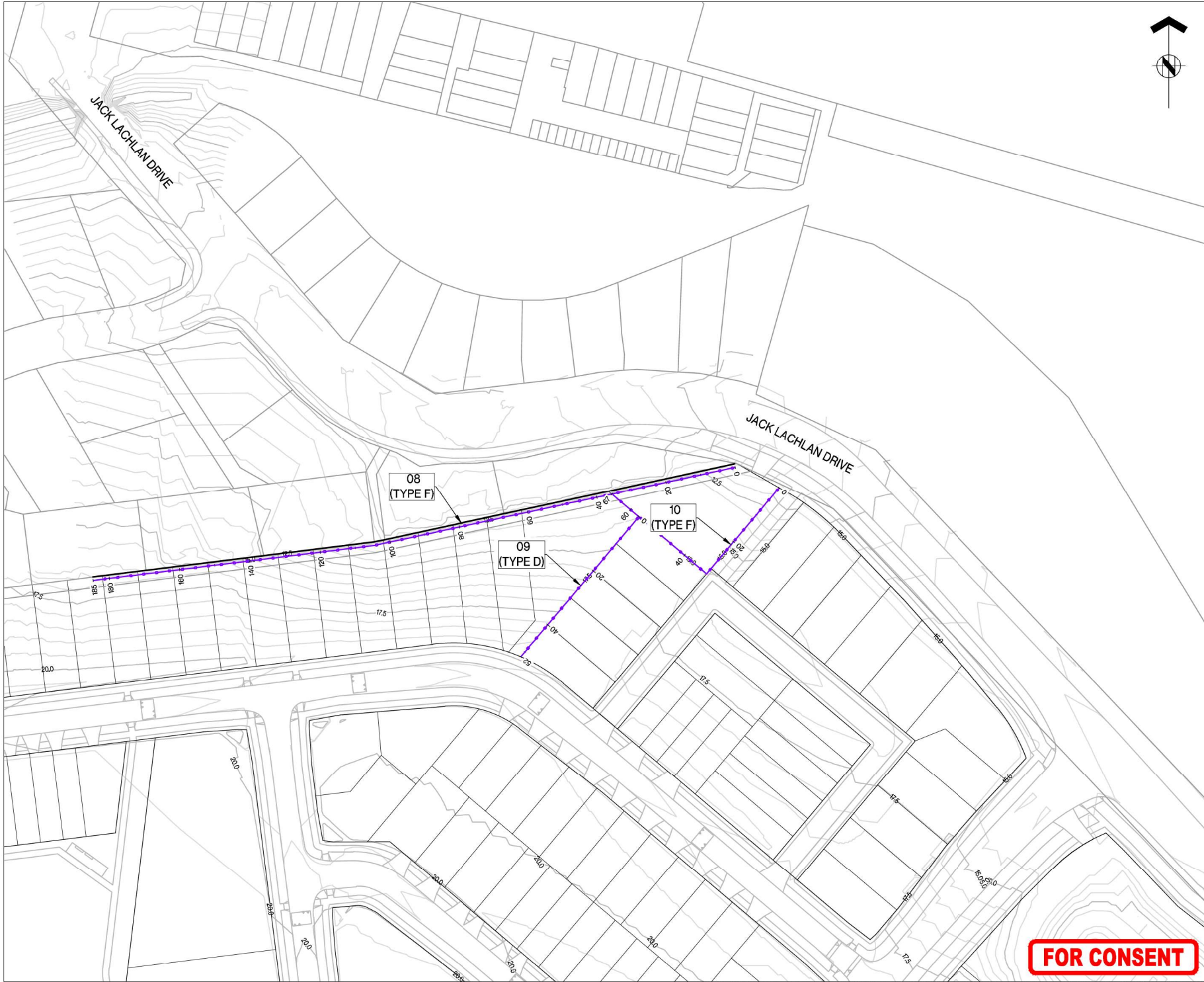
ISSUE STATUS:

FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: A1 1:5000 A3 1:10000	A1
DRAWING No:		REV
A2515591.00-2500		B

FOR CONSENT

REFER TO APPROVED MASTER DRAWINGS FOR ORIGINAL SIGNATURES. File: LATE C:\AUTODESK\ACCC\CCS\ACCC\CCS\HARRISON GRIERSON\US\BEACHLANDS SOUTH FAST TRACK CONSENT\PROJECT FILES\01\DESIGN\02_CIVIL\04_SHEETS\A2515591.00-2500 RETAINING WALLS.DWG



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- NOTES:**
- REFER TO A2515591.00-HG-SI-SK-C-078 FOR NOTES AND LEGEND

B	FOR CONSENT	CJM	06/2026
A	FOR DRAFT	CJM	06/2026
REF	REVISIONS	BY	DATE

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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

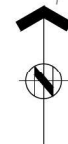
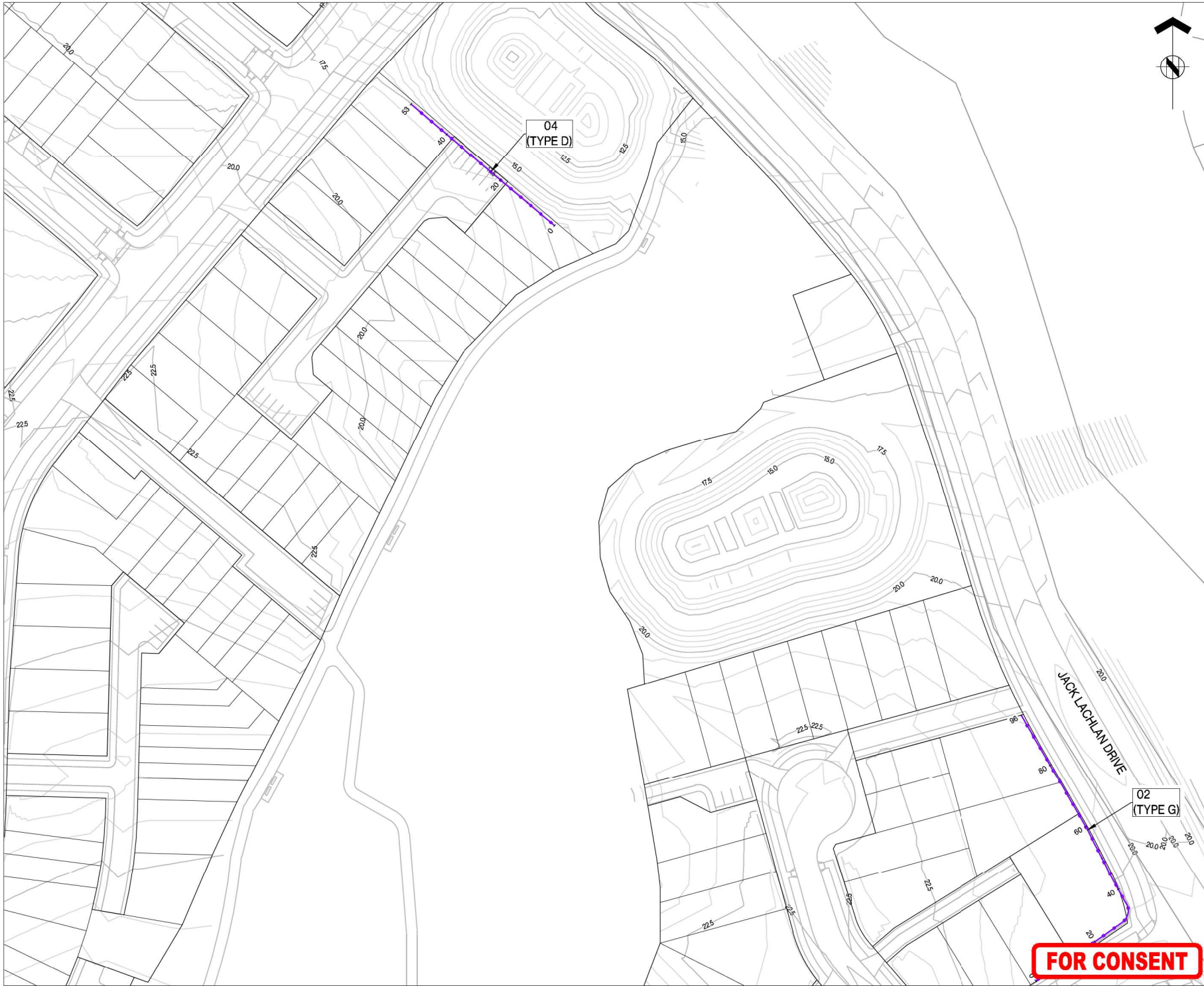
TITLE:

RETAINING WALL PLAN
SHEET 1 OF 11

ORIGINATOR SCT	DATE 04/2026	SIGNED	PLOT BY SCT
DRAWN SCT	DATE 11/2025	SIGNED	PLOT DATE 12/06/26
CHECKED PZS	DATE 04/2026	SIGNED	SURVEY BY SURVEYED BY
APPROVED CJM	DATE 04/2026	SIGNED	SURVEY DATE SURVEYED DATE

FAST TRACK CONSENT			
PROJECT No: A2515591.00	SCALE: A1 1:500 A3 1:1000	REV	A1
DRAWING No:			
A2515591.00-2501			B

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1. REFER TO A2515591.00-HG-S1-SK-C-078 FOR NOTES
AND LEGEND

B	FOR CONSENT	CJM	06/2026
A	FOR DRAFT	CJM	06/2026
REF	REVISIONS	BY	DATE

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

TITLE:
**RETAINING WALL PLAN
SHEET 2 OF 11**

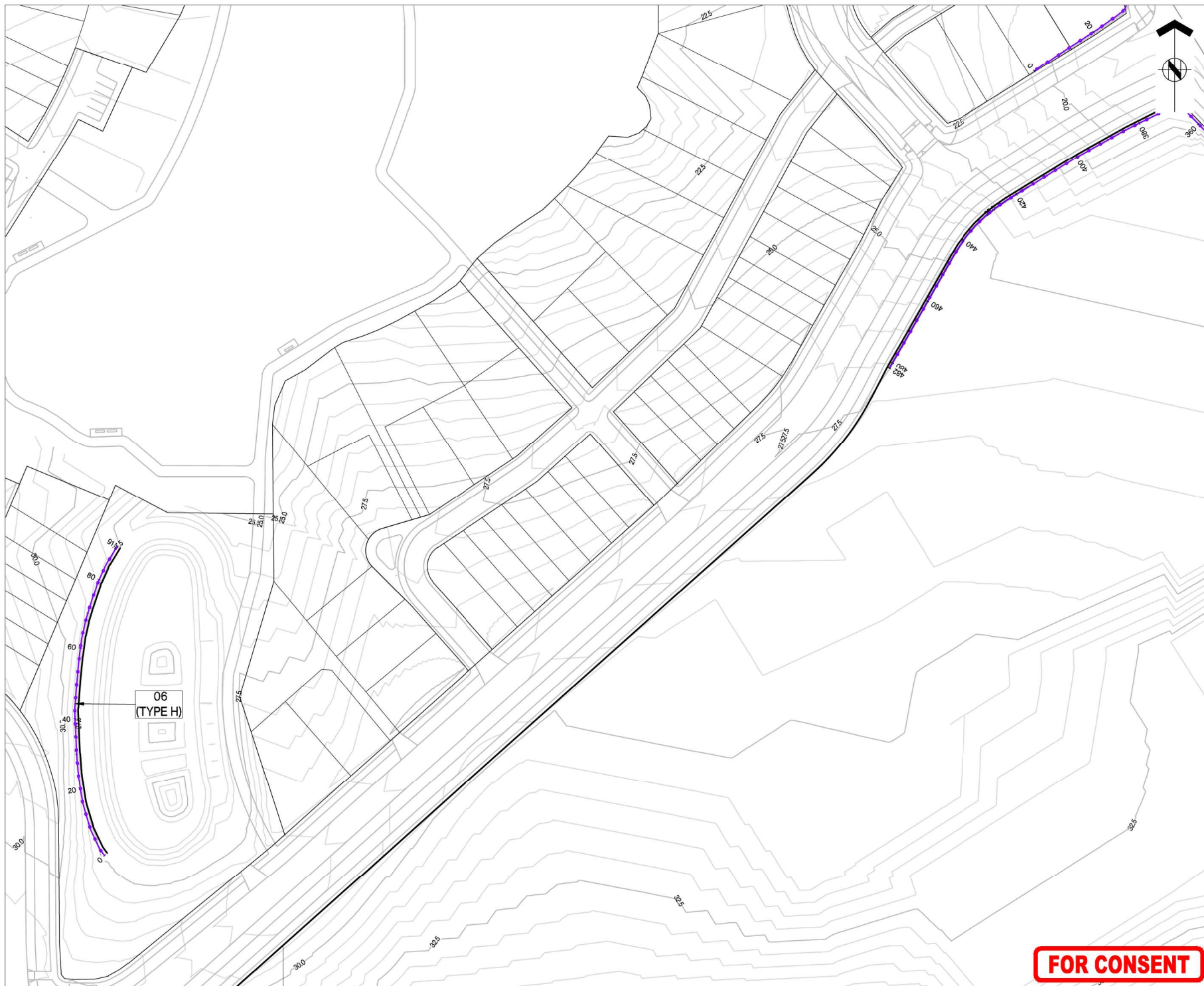
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DRAWN SCT	DATE 11/2025	SIGNED	PLOT DATE	12/06/26
CHECKED PZS	DATE 04/2026	SIGNED	SURVEY BY	SURVEYED BY
APPROVED CJM	DATE 04/2026	SIGNED	SURVEY DATE	SURVEYED DATE

ISSUE STATUS:
FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: A1 1:500 A3 1:1000	REV
DRAWING No:		REV

A2515591.00-2502
B

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NOTES:

1. REFER TO A2515591.00-HG-S1-SK-C-078 FOR NOTES
AND LEGEND

B	FOR CONSENT	CJM	06/2026
A	FOR DRAFT	CJM	06/2026
REF	REVISIONS	BY	DATE

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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL PLAN
SHEET 4 OF 11

ORIGINATOR SCT	DATE 04/2026	SIGNED	PLOT BY:	SCT
DRAWN SCT	DATE 11/2025	SIGNED	PLOT DATE:	12/06/26
CHECKED PZS	DATE 04/2026	SIGNED	SURVEY BY:	SURVEYED BY
APPROVED CJM	DATE 04/2026	SIGNED	SURVEY DATE:	SURVEYED DATE

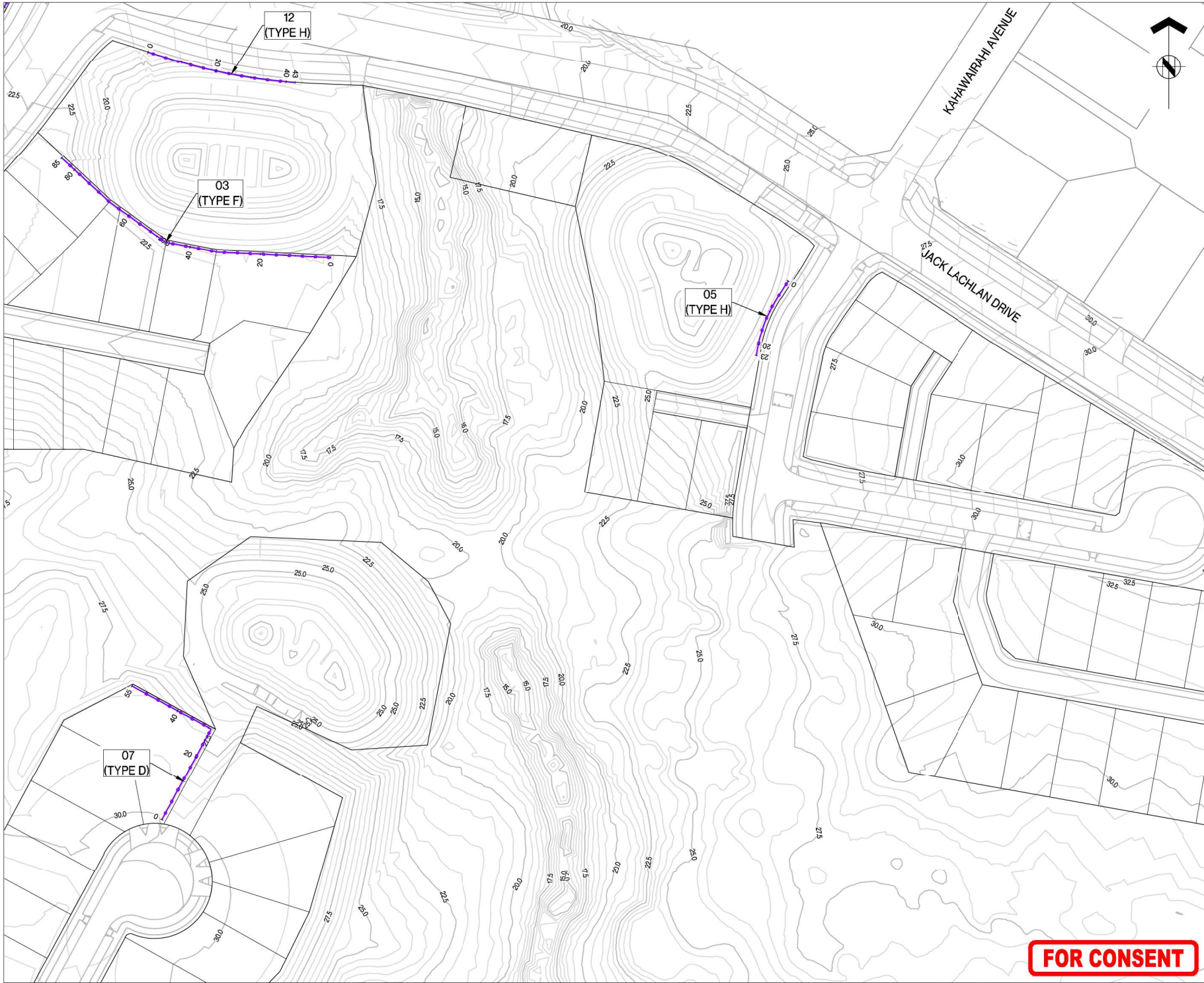
ISSUE STATUS:

FAST TRACK CONSENT

PROJECT No: A2515591.00 SCALES: A1 1:500 A3 1:1000

DRAWING No: A2515591.00-2504 B

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AND LEGEND

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A	FOR DRAFT	CJM	06/2026
REF	REVISIONS	BY	DATE

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

TITLE:
**RETAINING WALL PLAN
SHEET 5 OF 11**

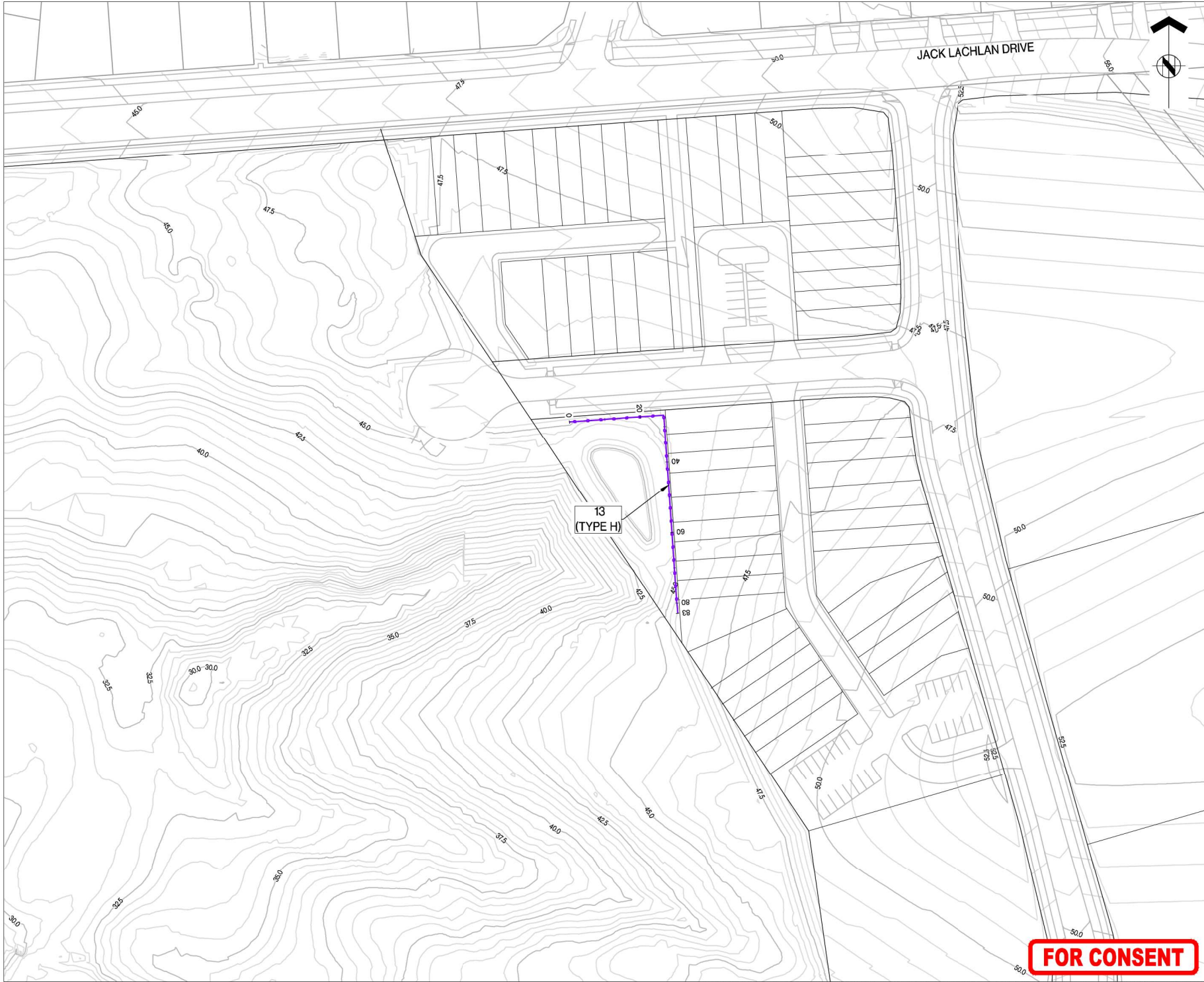
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DRAWN SCT	DATE 11.2025	SIGNED	PILOT DATE	12.06.26
CHECKED PZS	DATE 04.2026	SIGNED	SURVEY BY	SURVEYED BY
APPROVED CJM	DATE 04.2026	SIGNED	SURVEY DATE	SURVEYED DATE

ISSUE STATUS:
FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: A1 1:500 A3 1:1000	REV A1
DRAWING No:		REV B

A2515591.00-2505

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A	FOR DRAFT	CJM	05/2026
REF	REVISIONS	BY	DATE

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

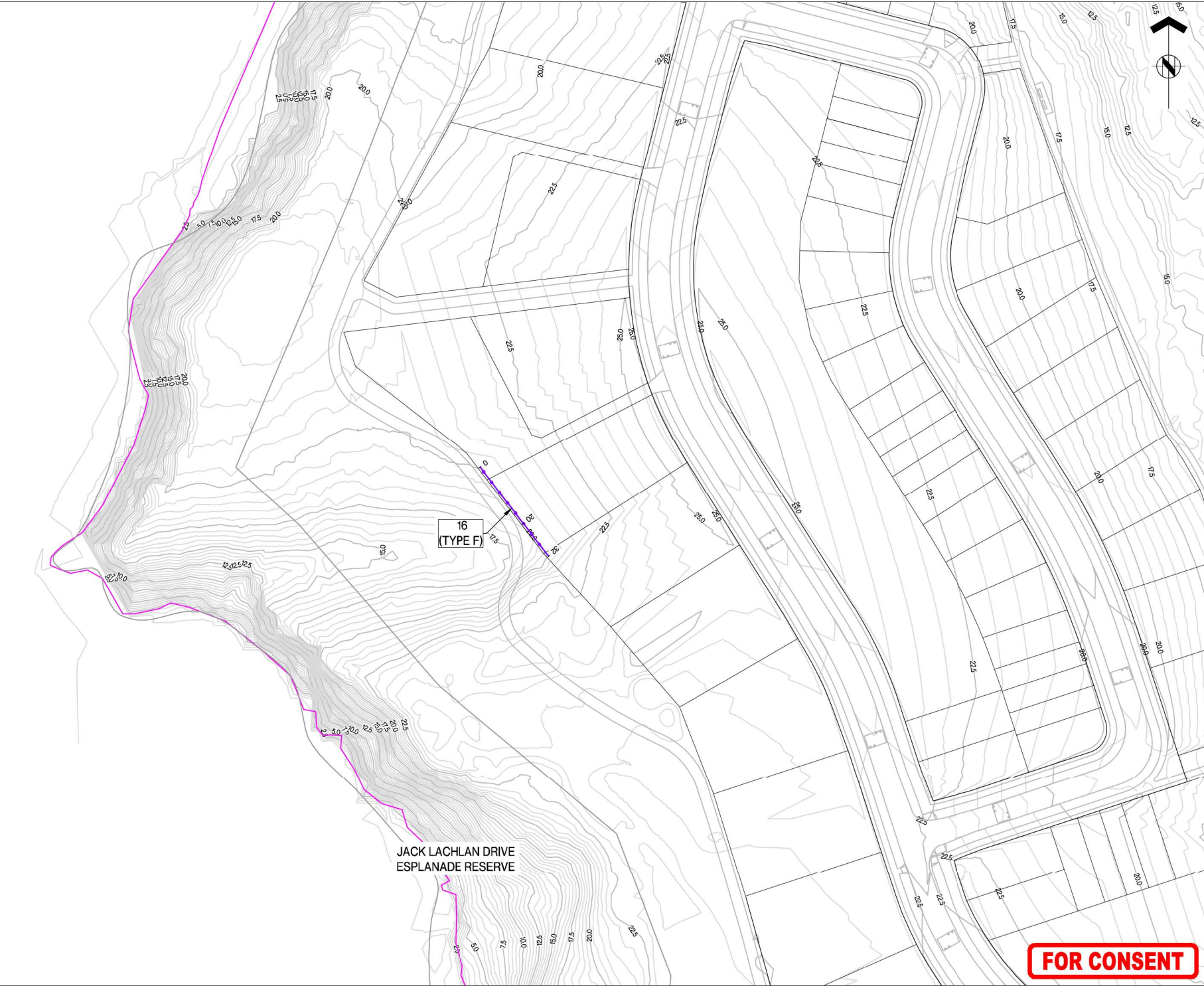
TITLE:
**RETAINING WALL PLAN
SHEET 6 OF 11**

ORIGINATOR SCT	DATE 04/2026	SIGNED	PLOT BY SCT
DRAWN SCT	DATE 11/2025	SIGNED	PLOT DATE 12/06/26
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 1:500 A3 1:1000	REV A1
DRAWING No: A2515591.00-2506		REV B

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AND LEGEND

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A	FOR DRAFT	CJM	06/2026
REF	REVISIONS	BY	DATE

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

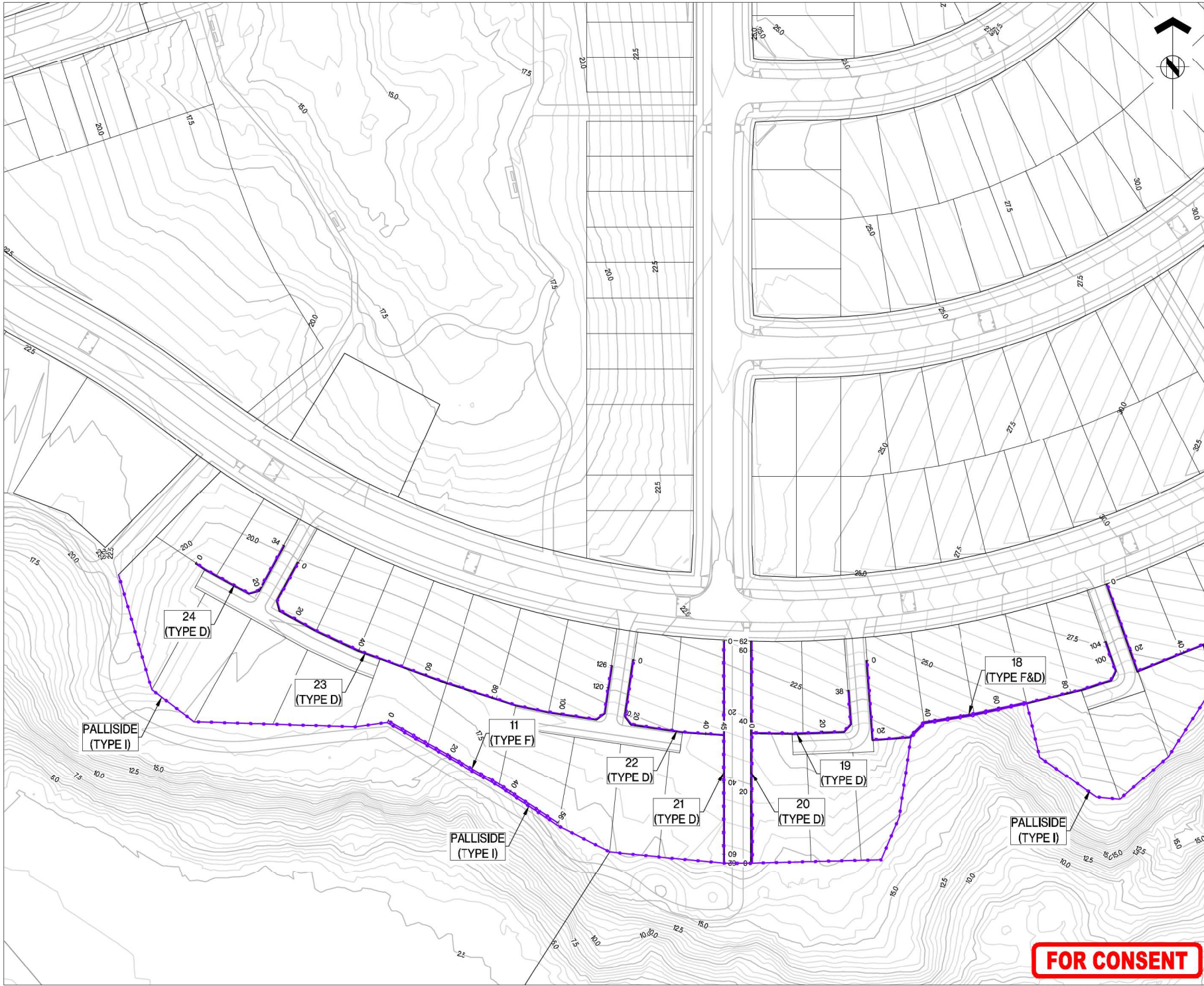
TITLE:
**RETAINING WALL PLAN
SHEET 7 OF 11**

ORIGINATOR SCT	DATE 04/2026	SIGNED	PLOT BY SCT
DRAWN SCT	DATE 11/2025	SIGNED	PLOT DATE 12/06/26
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 1:500 A3 1:1000	REV A1
DRAWING No: A2515591.00-2507		REV B

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AND LEGEND

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A	FOR DRAFT	CJM	06/2026
REF	REVISIONS	BY	DATE

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PROJECT:
BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:
RETAINING WALL PLAN
SHEET 8 OF 11

ORIGINATOR SCT	DATE 04.2026	SIGNED	PLOT BY SCT
DRAWN SCT	DATE 11.2025	SIGNED	PLOT DATE 12.06.26
CHECKED PZS	DATE 04.2026	SIGNED	SURVEY BY
APPROVED CJM	DATE 04.2026	SIGNED	SURVEY DATE

ISSUE STATUS:
FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: A1 1:500 A3 1:1000	REV A1
DRAWING No: A2515591.00-2508		REV B

FOR CONSENT



1. REFER TO A2515591.00-HG-S1-SK-C-078 FOR NOTES AND LEGEND

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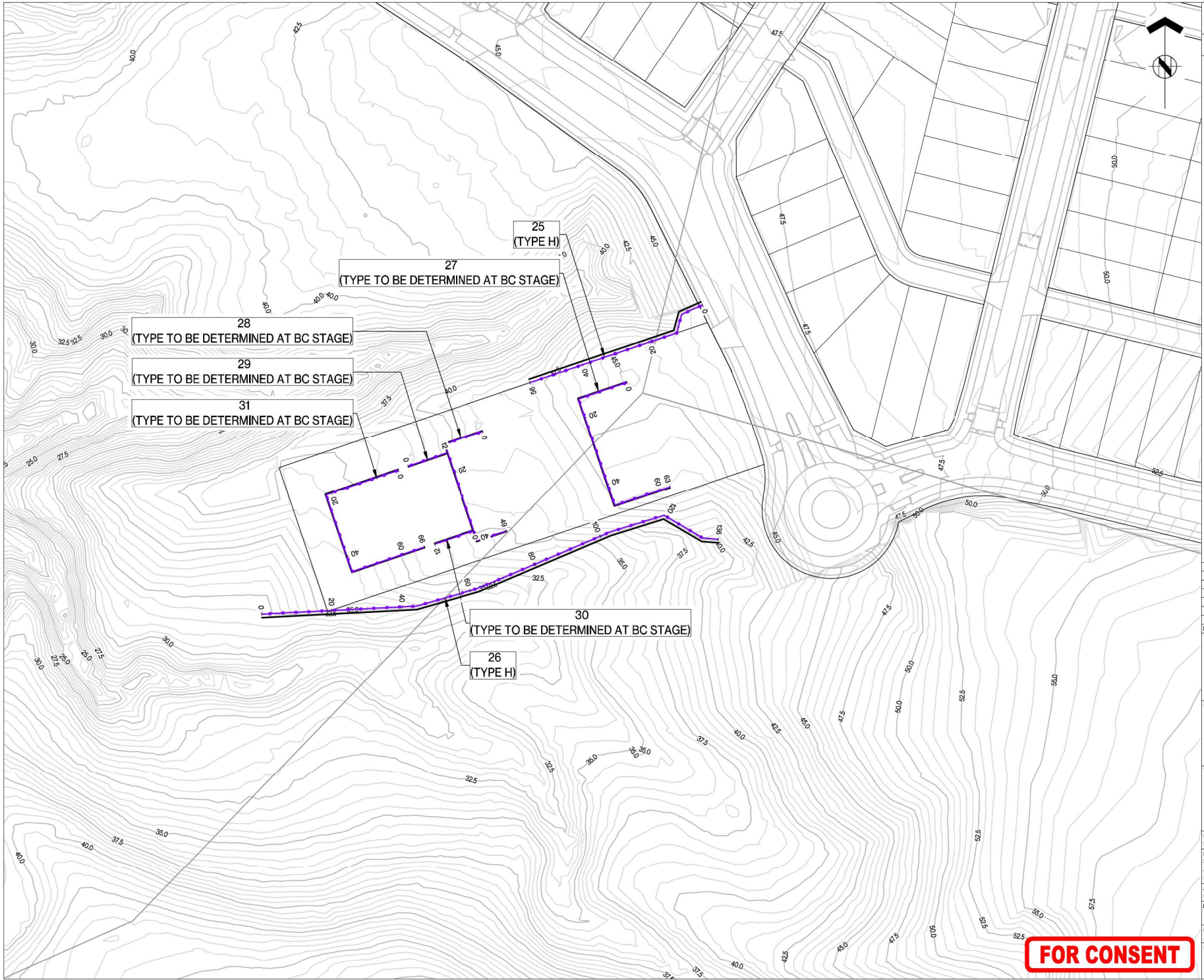
TITLE:

RETAINING WALL PLAN
SHEET 9 OF 11

ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515591.00	SCALES: A1 1:500 A3 1:1000	A
DRAWING No: A2515591.00-2509		REV B

REFER TO APPROVED MASTER DRAWINGS FOR ORIGINAL SIGNATURES: File: LATE C:\AUTODESK\ACCDXCS\ACCDXCS\HARRISON GRIERSON\US\BEACHLANDS SOUTH FAST TRACK CONSENT\PROJECT FILES\01 DESIGN\02 CIVIL\04 SHEET\SA251559L00-2500 RETAINING WALLS.DWG





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NOTES:

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B	FOR CONSENT	CJM	06/2026
A	FOR CONSENT	SCT	06/2026
REF	REVISIONS	BY	DATE

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

TITLE:
**RETAINING WALL PLAN
SHEET 10 OF 11**

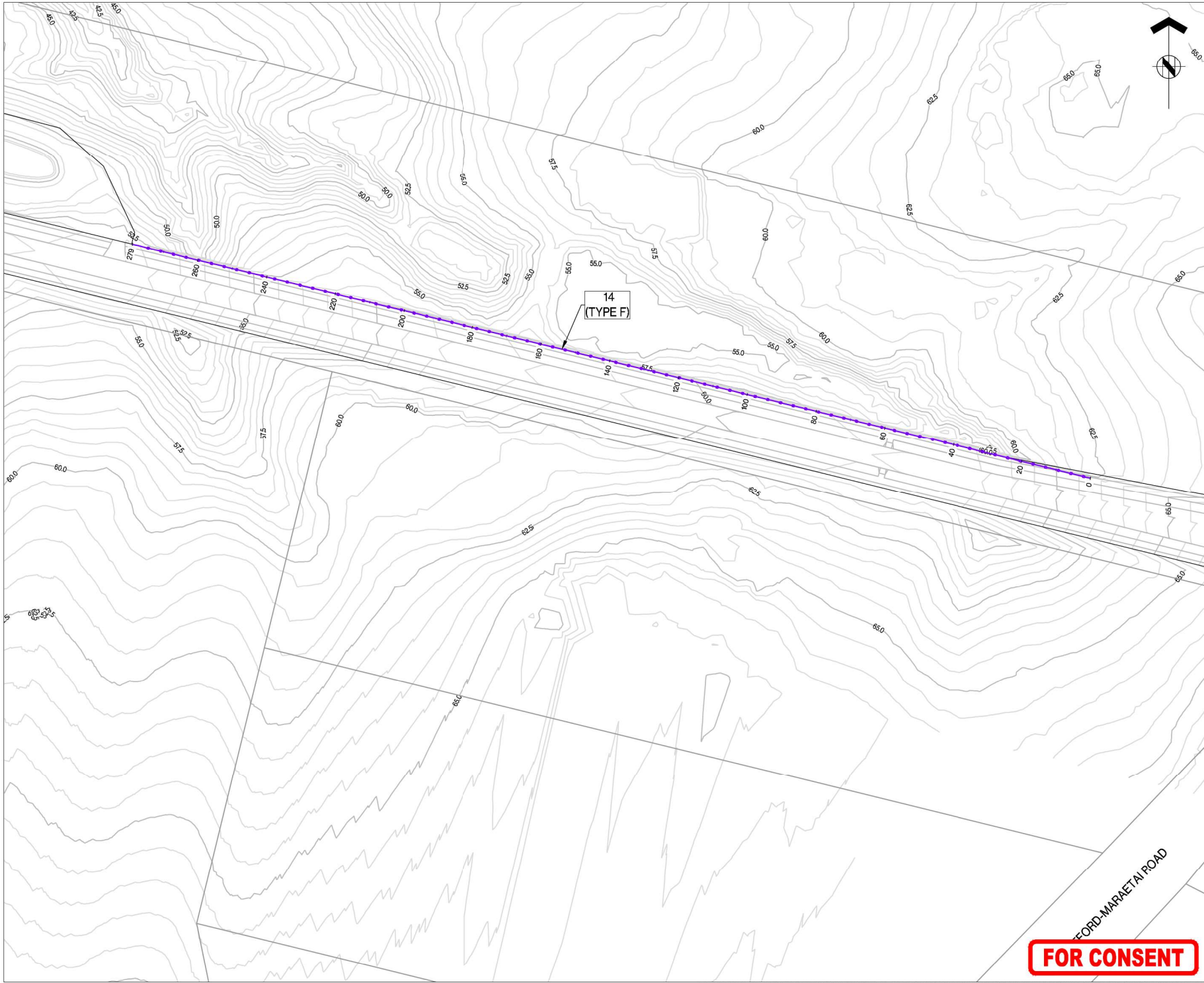
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DRAWN SCT	DATE 11/2025	SIGNED	PLOT DATE	12/06/26
CHECKED PZS	DATE 04/2026	SIGNED	SURVEY BY	SURVEYED BY
APPROVED CJM	DATE 04/2026	SIGNED	SURVEY DATE	SURVEYED DATE

ISSUE STATUS:
FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: A1 1:500 A3 1:1000	REV
DRAWING No:		REV

A2515591.00-2510 B

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B	FOR CONSENT	CJM	06/2026
A	FOR DRAFT	SCT	06/2026
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PROJECT: **BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND**

TITLE: **RETAINING WALL PLAN
SHEET 11 OF 11**

ORIGINATOR SCT	DATE 04.2026	SIGNED	PILOT BY	SCT
DRAWN SCT	DATE 11.2025	SIGNED	PILOT DATE	12.06.26
CHECKED PZS	DATE 04.2026	SIGNED	SURVEY BY	
APPROVED CJM	DATE 04.2026	SIGNED	SURVEY DATE	

ISSUE STATUS			
FAST TRACK CONSENT			
PROJECT No: A2515591.00	SCALE: A1 1:500 A3 1:1000	REV	A1
DRAWING No:			B
A2515591.00-2511			

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REFER TO A2515591.00-2500 FOR GENERAL NOTES



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BEACHLANDS SOUTH, AUCKLAND**

TITLE:			
RETAINING WALL LONGSECTION SHEET 1 OF 10			
ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOTT BY: F
DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOTT DATE: 08.06
CHECKED: PZB	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DA

ISSUE STATUS: **FAST TRACK CONSENT**

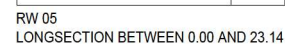
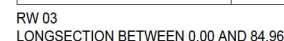
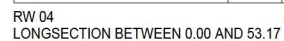
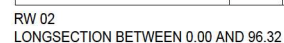
PROJECT No: A2515591.00	SCALES: 1:500 H; 1:2000 V - A1 1:1000 H; 1:4000 V - A3	A
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A2515591.00	E1000 H; E4000 V • AS	
DRAWING No:		REV

A2515591.00-2700 A

FOR CONSENT

REFER TO A2515591.00-2500 FOR GENERAL NOTES



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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL LONGSECTION
SHEET 2 OF 10

ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOT BY:
DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 04.06
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APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DA

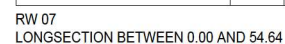
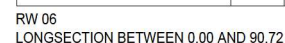
ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515501.00	SCALE: 1:500 H; 1:2000 V - A1 1:1000 H; 1:4000 V - A3	A
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DRAWING No:	REV
A2515591.00-2701	A

FOR CONSENT

REFER TO A2515591.00-2500 FOR GENERAL NOTES



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PROJECT:

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FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL LONGSECTION
SHEET 3 OF 10

ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOT BY:
DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 04.06
CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DA

FAST TRACK CONSENT

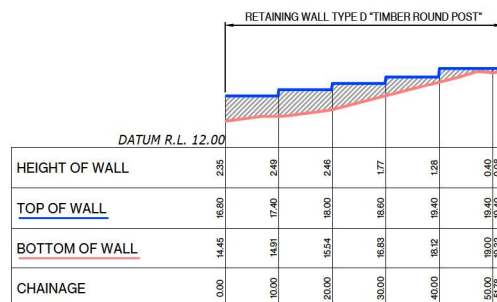
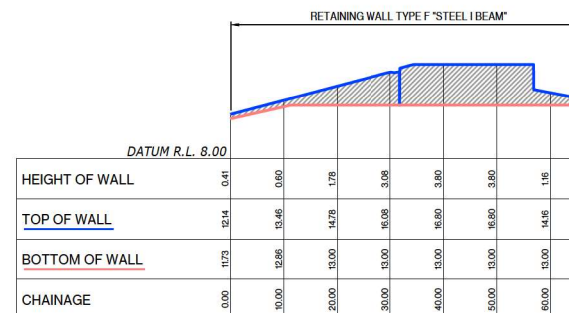
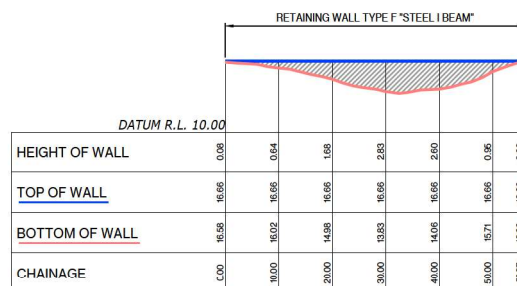
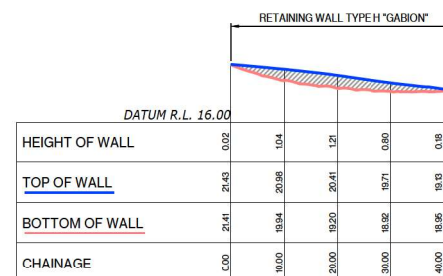
PROJECT No: A2515591.00	SCALES: 1:500 H; 1:2000 V - A1 1:1000 H; 1:4000 V - A3	A
DRAWING No:		REV
A2515591.00-2702		A

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NOTES:

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RW 09
LONGSECTION BETWEEN 0.00 AND 51.78RW 10
LONGSECTION BETWEEN 0.00 AND 66.83RW 11
LONGSECTION BETWEEN 0.00 AND 55.97RW 12
LONGSECTION BETWEEN 0.00 AND 42.52

A	FOR CONSENT	SCT	05/20
RFF	REVISIONS	RY	DAT

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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL LONGSECTION
SHEET 4 OF 10

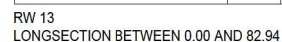
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DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 04.06.2025
CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED BY
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DATE

ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515591.00	SCALES: 1:500 H; 1:2000 V - A1 1:1000 H; 1:4000 V - A3	A1
DRAWING No: A2515591.00-2703		REV A

FOR CONSENT

REFER TO A2515591.00-2500 FOR GENERAL NOTES



**HARRISON
GRIERSON**

PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL LONGSECTION
SHEET 5 OF 10

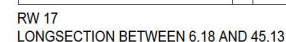
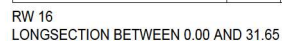
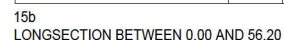
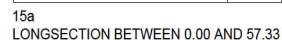
ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOT BY: R
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CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DA

FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALES: 1:500 H; 1:2000 V - A1 1:1000 H; 1:4000 V - A3	A
DRAWING No: A2515591.00-2704		REV A

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REFER TO A2515591.00-2500 FOR GENERAL NOTES



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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL LONGSECTION
SHEET 6 OF 10

ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOT BY: R
DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 04.06
CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DA

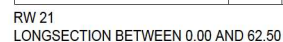
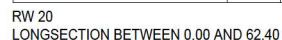
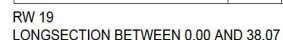
ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515501.00	SCALES: 1:500 H; 1:2000 V - A1 1:1000 H; 1:4000 V - A3	A
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A2515591.00-2705 A

FOR CONSENT

REFER TO A2515591.00-2500 FOR GENERAL NOTES



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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL LONGSECTION
SHEET 7 OF 10

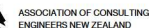
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DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 04.06
CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DA

ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515501.00	SCALES: 1:500 H; 1:2000 V - A1 1:1000 H; 1:4000 V - A3	A
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DRAWING No:	REV
A2515591.00-2706	A

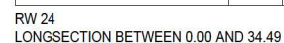
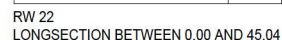
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ASSURED

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RFF	REVISIONS	RY	DAT

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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL LONGSECTION
SHEET 8 OF 10

ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOT BY:
DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 04.06
CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DA

ISSUE STATUS: **FAST TRACK CONSENT**

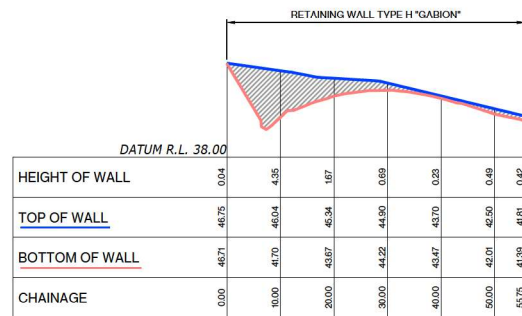
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DRAWING No:		REV
A2515591.00-2707		A

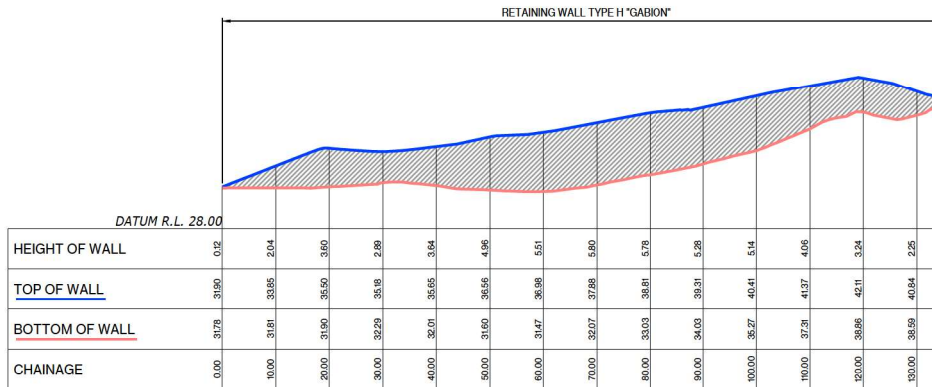
FOR CONSENT

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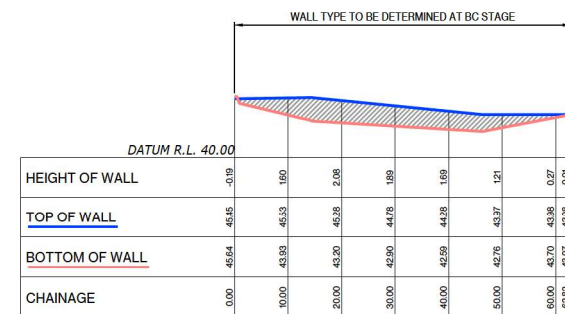
REFER TO A2515591.00-2500 FOR GENERAL NOTES



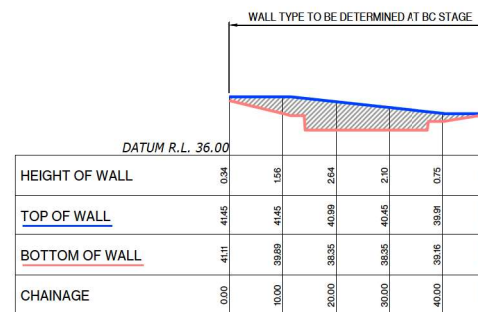
RW 25
LONGSECTION BETWEEN 0.00 AND 55.75



RW 26
LONGSECTION BETWEEN 0.00 AND 136.26



RW 27
LONGSECTION BETWEEN 0.00 AND 62.82



RW 28
LONGSECTION BETWEEN 0.00 AND 49.20

FOR CONSENT

A		FOR CONSENT		SCT	06/2026
REF	REVISIONS	BY	DATE		

HARRISON GRIERSON

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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL LONGSECTION
SHEET 9 OF 10

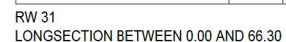
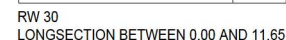
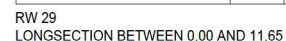
ORIGINATOR SCT	DATE 04.2026	SIGNED	PLOT BY: RER
DRAWN SCT	DATE 11.2025	SIGNED	PLOT DATE: 04.06.26
CHECKED JZS	DATE 04.2026	SIGNED	SURVEYED BY:
APPROVED CJM	DATE 04.2026	SIGNED	SURVEYED DATE:

ISSUE STATUS:

FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALE: 1500 H, 1:2000 V - A1 1:1000 H, 1:4000 V - A3	REV A1
DRAWING No: A2515591.00-2708	REV A	

REFER TO A2515591.00-2500 FOR GENERAL NOTES



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PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL LONGSECTION
SHEET 10 OF 10

ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOT BY: R
DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 04.06
CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DA

ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515501.00	SCALES: 1:500 H; 1:2000 V - A1 1:1000 H; 1:4000 V - A3	A
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DRAWING No:	REV
A2515591.00-2709	A

FOR CONSENT

STABILISED CONSTRUCTION ENTRANCE SPECIFICATIONS:

APPLICATION

USE A STABILISED CONSTRUCTION ENTRANCE AT ALL POINTS OF CONSTRUCTION SITE INGRESS AND EGRESS WITH A CONSTRUCTION PLAN LIMITING TRAFFIC TO THESE ENTRANCES ONLY. THEY ARE PARTICULARLY USEFUL ON SMALL CONSTRUCTION SITES BUT CAN BE UTILISED FOR ALL PROJECTS.

DESIGN:

CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS AND OTHER UNSUITABLE MATERIAL AND PROPERLY GRADE IT.

LAY WOVEN GEOTEXTILE; PIN DOWN EDGES AND OVERLAP JOINTS.

PROVIDE DRAINAGE TO CARRY RUNOFF FROM THE STABILISED CONSTRUCTION ENTRANCE TO A SEDIMENT CONTROL MEASURE.

PLACE AGGREGATE TO THE SPECIFICATIONS BELOW AND SMOOTH IT.

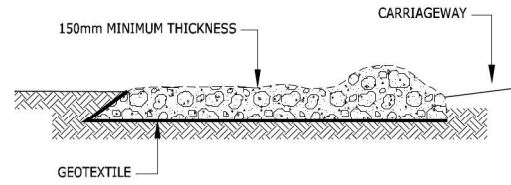
STABILISED CONSTRUCTION ENTRANCE AGGREGATE SPECIFICATIONS:

AGGREGATE SIZE	50-150mm WASHED AGGREGATE
THICKNESS	150mm MINIMUM
LENGTH	10m MINIMUM LENGTH RECOMMENDED
WIDTH	4m MINIMUM

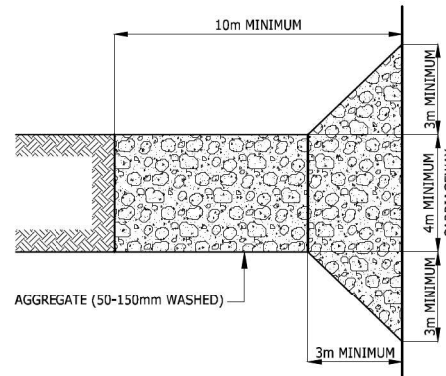
MAINTENANCE

MAINTAIN THE STABILISED CONSTRUCTION ENTRANCE IN A CONDITION TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. AFTER EACH RAINFALL INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT FROM THE STABILISED CONSTRUCTION ENTRANCE AND CLEAN OUT AS NECESSARY.

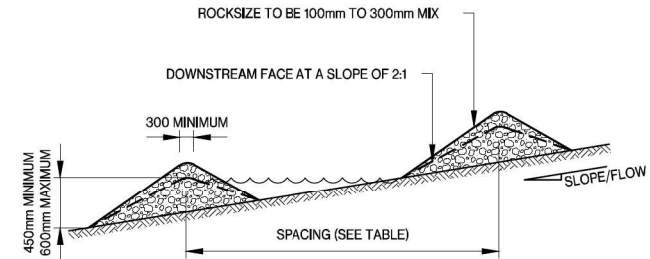
WHEN WHEEL WASHING IS ALSO REQUIRED, ENSURE THIS IS DONE ON AN AREA STABILISED WITH AGGREGATE WHICH DRAINS TO AN APPROVED SEDIMENT RETENTION FACILITY.



STABILISED ENTRANCE SIDE ELEVATION



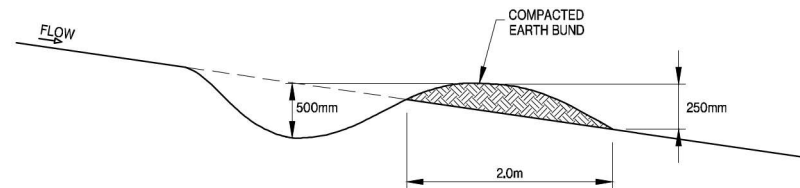
STABILISE ENTRANCE PLAN VIEW



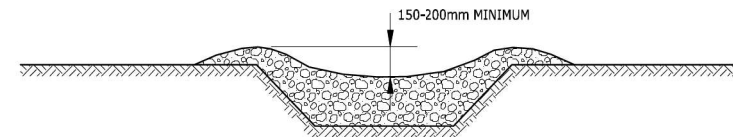
ROCK CHECK DAM ELEVATION

SLOPE OF SITE (%)	SPACING (m) BETWEEN DAMS WITH A 450mm CENTRE HEIGHT	SPACING (m) BETWEEN DAMS WITH A 600mm CENTRE HEIGHT
LESS THAN 2%	24	30
2% - 4%	12	15
4% - 7%	8	11
7% - 10%	5	6
> 10%	UNSUITABLE - USE STABILISED CHANNEL OR SPECIFIC ENGINEERED DESIGN	UNSUITABLE - USE STABILISED CHANNEL OR SPECIFIC ENGINEERED DESIGN

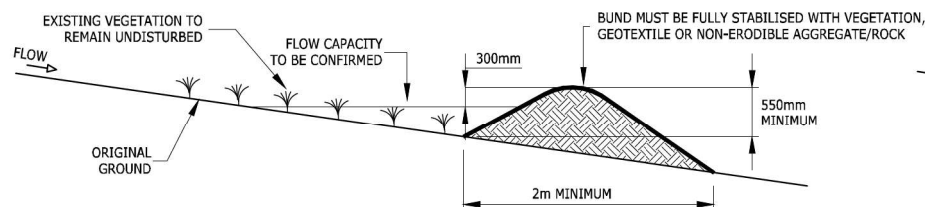
POSITIONING OF CHECK DAMS



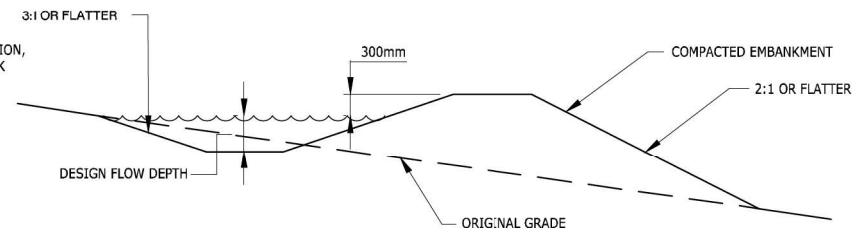
CONTOUR DRAIN CROSS-SECTION



ROCK CHECK DAM CROSS SECTION



CLEANWATER RUNOFF DIVERSION BUND - CROSS SECTION



RUNOFF DIVERSION BUND - CROSS SECTION



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NOTES:

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- ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE OPERATIONAL PRIOR TO ANY OTHER WORKS COMMENCING ON SITE. THE CONTRACTOR SHALL ARRANGE FOR AND ATTEND A PRELIMINARY SEDIMENT CONTROL MEETING ON-SITE WITH THE ENGINEER.
- A COPY OF THE SEDIMENT CONTROL PLAN SHALL BE AVAILABLE ON THE SITE DURING WORK HOURS AND ALL PERSONNEL INVOLVED IN EARTHWORK ACTIVITIES ON THE SITE (INCLUDING OF SUB-CONTRACTORS) SHALL BE FAMILIAR WITH THE PLAN REQUIREMENTS AS THEY RELATE TO EROSION AND SEDIMENT CONTROL.
- ALL 'CLEAN WATER' RUNOFF FROM STABILISED SURFACES INCLUDING CATCHMENT AREAS ABOVE THE SITE SHALL BE DIVERTED AWAY FROM EARTHWORK AREAS VIA STABILISED SYSTEM TO PREVENT SURFACE EROSION.
- ALL EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH THE 'EROSION AND SEDIMENT CONTROL GUIDELINES FOR LAND DISTURBING ACTIVITIES IN THE AUCKLAND REGION' COUNCIL GUIDANCE DOCUMENT 2016/005.
- THE MAIN SILT CONTROL MEASURES FOR THIS SITE ARE:
 - (I) DIVERSION OF 'CLEAN WATER' FROM THE ABOVE CATCHMENTS AROUND THE EARTHWORKS AREA BY MEANS OF DIVERSION DRAINS, AND/OR OTHER APPROVED METHOD AS DIRECTED BY THE ENGINEER.
 - (II) REMOVAL OF SEDIMENT FROM SILT-LADEN WATERS USING EITHER 'HAY BARRIERS' OR 'SILT FENCES' OR BOTH.
 - (III) THAT THE SITE BE STABILISED AGAINST EROSION AS SOON AS PRACTICABLE AND IN A PROGRESSIVE MANNER AS EARTHWORKS ARE FINISHED OVER VARIOUS AREAS OF THE SITE.
 - (IV) MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES AS REQUIRED.
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- BATCH DOSING OF PAC MAY BE REQUIRED PRIOR TO REMOVAL OF SURFACE WATER FROM SITE.

FOR CONSENT

A	FOR CONSENT	SCT	02/2026
REF	REVISIONS	BY	DATE

HARRISON GRIERSON

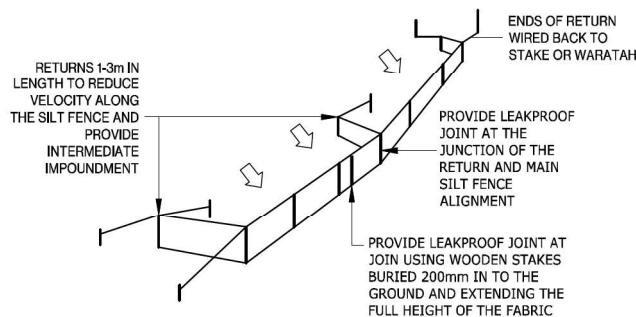
AUCKLAND OFFICE
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W www.harrisonsgrimson.com

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

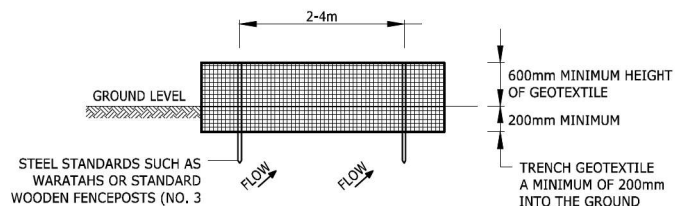
TITLE: **EROSION AND SEDIMENT CONTROL
DETAILS
SHEET 1 OF 6**

ORIGINATOR SCT	DATE 04.2026	SIGNED	PLOTT BY MNP
DRAWN SCT	DATE 11.2026	SIGNED	PLOT DATE 08.05.26
CHECKED RZS	DATE 04.2026	SIGNED	SURVEY BY SURVEYED BY
APPROVED CJM	DATE 04.2026	SIGNED	SURVEY DATE SURVEYED DATE

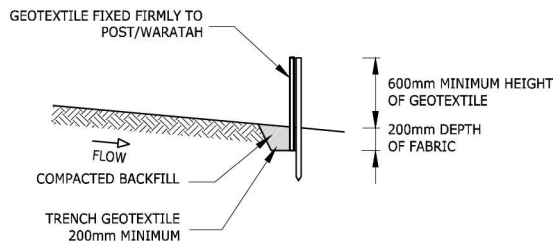
FAST TRACK CONSENT			
PROJECT No: A2515591.00	SCALE: NOT TO SCALE	A1	REV
DRAWING No:			
A2515591.00-2900		A	



SILT FENCE WITH RETURNS AND SUPPORT WIRE



ELEVATION



CROSS SECTION

SILT FENCE CONSTRUCTION

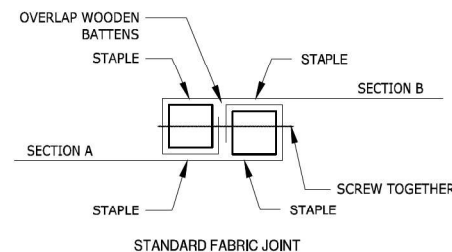
SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAXIMUM)	SPACING OF RETURNS (m)	SILT FENCE LENGTH (m) (MAXIMUM)
FLATTER THAN 2%	UNLIMITED	N/A	UNLIMITED
2-10%	40	60	300
10-20%	30	50	230
20-33%	20	40	150
33-50%	15	30	75
>50%	6	20	40

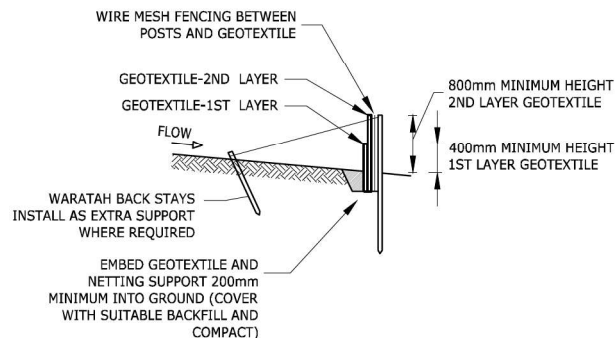
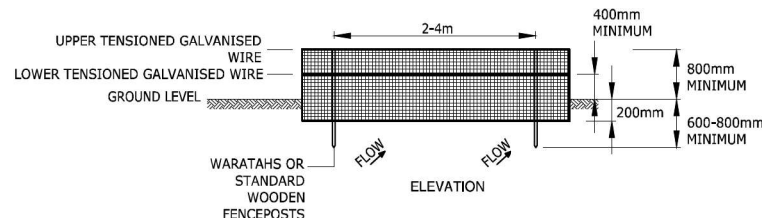
WIDE WIDTH TENSILE STRENGTH: ≥ 14 kN/m MINIMUM (AS, ASTM OR ISO TEST METHODS ALLOWED)

RETAINED STRENGTH AT 500h UV = 70% MINIMUM (AS, ASTM OR ISO TEST METHODS ALLOWED)

OPENING SIZE (EOS): 0.2-0.4mm (AS, ASTM OR ISO TEST METHODS ALLOWED)



STANDARD FABRIC JOINT



CROSS SECTION

SUPER SILT FENCE CONSTRUCTION

SUPER SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAXIMUM)	SPACING OF RETURNS (m)	SUPER SILT FENCE LENGTH (m) (MAXIMUM)
0-10%	UNLIMITED	60	UNLIMITED
10-20%	60	50	450
20-33%	30	40	300
33-50%	30	30	150
>50%	15	20	75

WIDE WIDTH TENSILE STRENGTH: ≥ 14 kN/m MINIMUM (AS, ASTM OR ISO TEST METHODS ALLOWED)

RETAINED STRENGTH AT 500h UV = 70% MINIMUM (AS, ASTM OR ISO TEST METHODS ALLOWED)

OPENING SIZE (EOS): 0.2-0.4mm (AS, ASTM OR ISO TEST METHODS ALLOWED)

SUPER SILT FENCE MESH REQUIREMENTS: WIRE DIAMETER = 1.5mm MINIMUM
MESH APERTURE = 100mm MAXIMUM
MESH HEIGHT = 1m MINIMUM
COATING = GALVANISED OR ZINC COATED



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FOR CONSENT

A	FOR CONSENT	SC	02/2026
REF	REVISIONS	BY	DATE

**HARRISON
GRIERSON**

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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: **EROSION AND SEDIMENT CONTROL
DETAILS
SHEET 2 OF 6**

ORIGINATOR SC	DATE 04/2026	SIGNED	PLOT BY MNP
DRAWN SC	DATE 11/2026	SIGNED	PLOT DATE 08/05/26
CHECKED PZ	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	SCALES: NOT TO SCALE	A1
DRAWING No:		REV

A2515591.00-2901 A



NOTES:

1. THESE PLANS ARE PRELIMINARY IN NATURE AND SUBJECT TO FINAL DESIGN, ANY CHANGES WILL BE DISCUSSED WITH THE COUNCIL OFFICERS PRIOR TO COMMENCEMENT.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE OPERATIONAL PRIOR TO ANY OTHER WORKS COMMENCING ON THE SITE. THE CONTRACTOR SHALL ARRANGE FOR AND ATTEND A PRELIMINARY SEDIMENT CONTROL MEETING ON-SITE WITH THE ENGINEER.
3. A COPY OF THE SEDIMENT CONTROL PLAN SHALL BE AVAILABLE ON THE SITE DURING WORK HOURS AND ALL PERSONNEL INVOLVED IN EARTHWORK ACTIVITIES ON THE SITE (INCLUDING SUB-CONTRACTORS) SHALL BE FAMILIAR WITH THE PLAN REQUIREMENTS AS THEY RELATE TO EROSION AND SEDIMENT CONTROL.
4. ALL 'CLEAN' WATER RUNOFF FROM STABILISED SURFACES INCLUDING CATCHMENT AREAS ABOVE THE SITE SHALL BE DIVERTED AWAY FROM EARTHWORK AREAS VIA STABILISED SYSTEM TO PREVENT SURFACE EROSION.
5. ALL EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH THE 'EROSION AND SEDIMENT CONTROL' GUIDELINES FOR LAND DISTURBING ACTIVITIES IN THE AUCKLAND REGION' COUNCIL GUIDANCE DOCUMENT 2016/005.
6. THE MAIN SILT CONTROL MEASURES FOR THIS SITE ARE:
 - (I) DIVERSION OF 'CLEAN WATER' FROM THE ABOVE CATCHMENTS AROUND THE EARTHWORKS AREA BY MEANS OF DIVERSION DRAINS, AND/OR OTHER APPROVED METHOD AS DIRECTED BY THE ENGINEER.
 - (II) REMOVAL OF SEDIMENT FROM SILT-LADEN WATERS BY MEANS EITHER 'HAY BARRIERS' OR 'SILT FENCES' OR BOTH.
 - (III) THAT THE SITE BE STABILISED AGAINST EROSION AS SOON AS PRACTICABLE AND IN A PROGRESSIVE MANNER AS EARTHWORKS ARE FINISHED OVER VARIOUS AREAS OF THE SITE.
 - (IV) MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES AS REQUIRED.
7. FURTHER SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER AS THE PROJECT ADVANCES. THESE WILL BE INSTALLED AS AND WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE SITE HAS EFFECTIVE MEASURES OPERATING AT ALL TIMES.
8. BATCH DISPOSAL OF PAC MAY BE REQUIRED PRIOR TO REMOVAL OF SURFACE WATER FROM SITE.

A	FOR CONSENT	SCT	02/2026
REF	REVISIONS	BY	DATE

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

PROJECT: BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

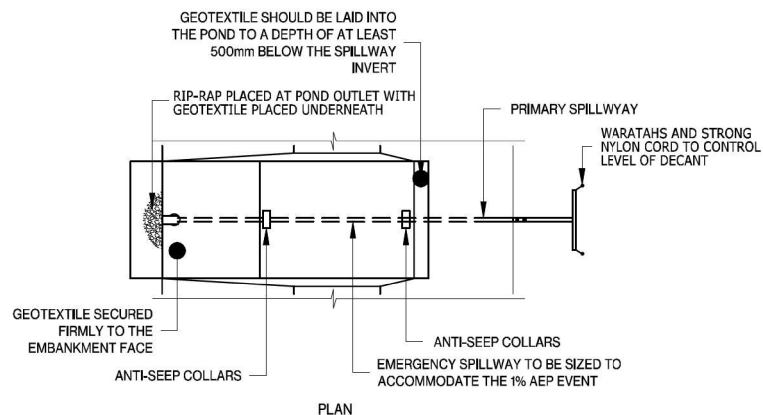
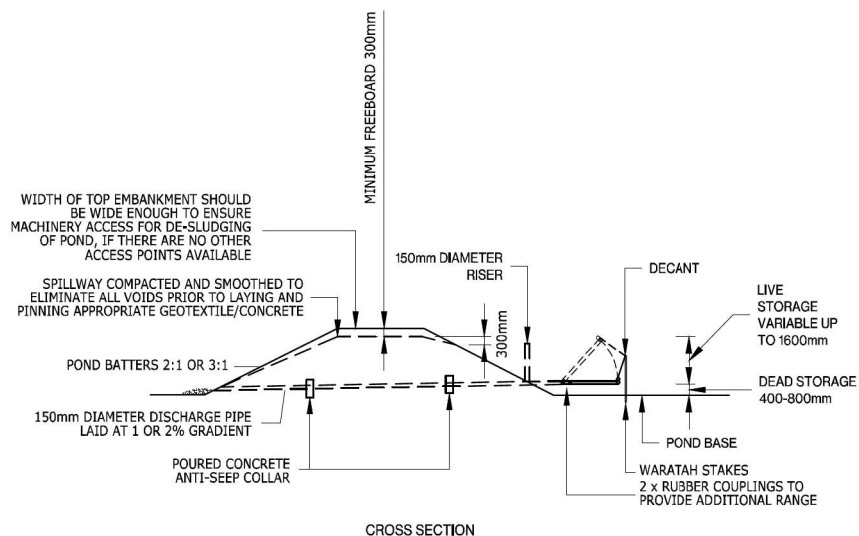
TITLE:

EROSION AND SEDIMENT CONTROL
DETAILS
SHEET 3 OF 6

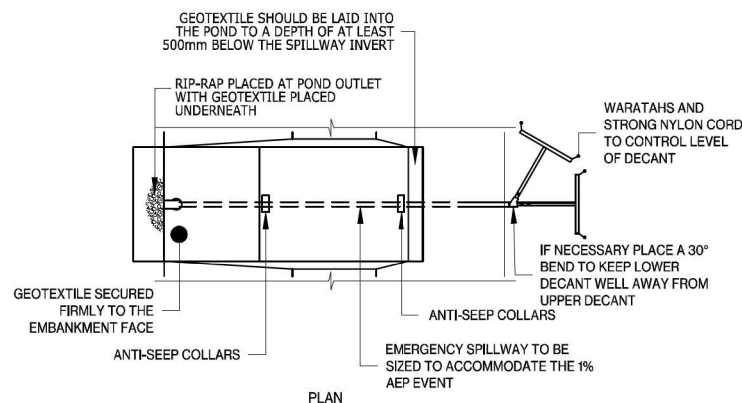
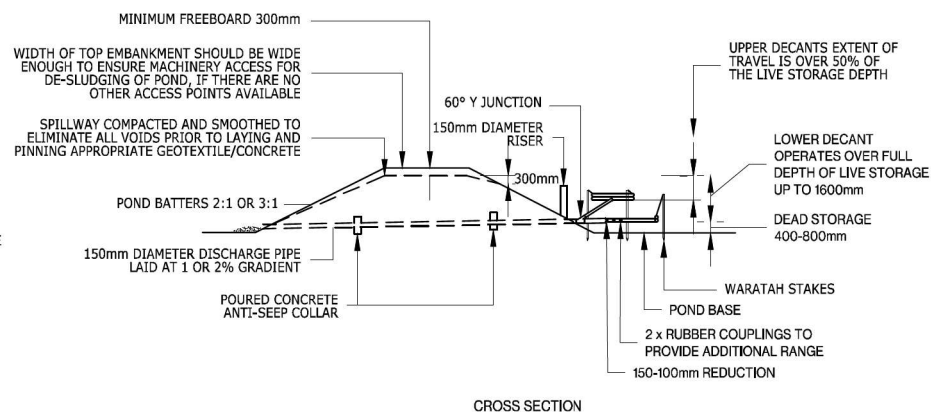
ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOT BY: MNF
DRAWN: SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 08.05.2025
CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED BY
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DATE

FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALES: NOT TO SCALE	A1
DRAWING No: A2515591.00-2902		REV A



SEDIMENT RETENTION POND FOR < 1.5HA CATCHMENT



SEDIMENT RETENTION POND 2.5 TO 3HA CATCHMENT

FOR CONSENT

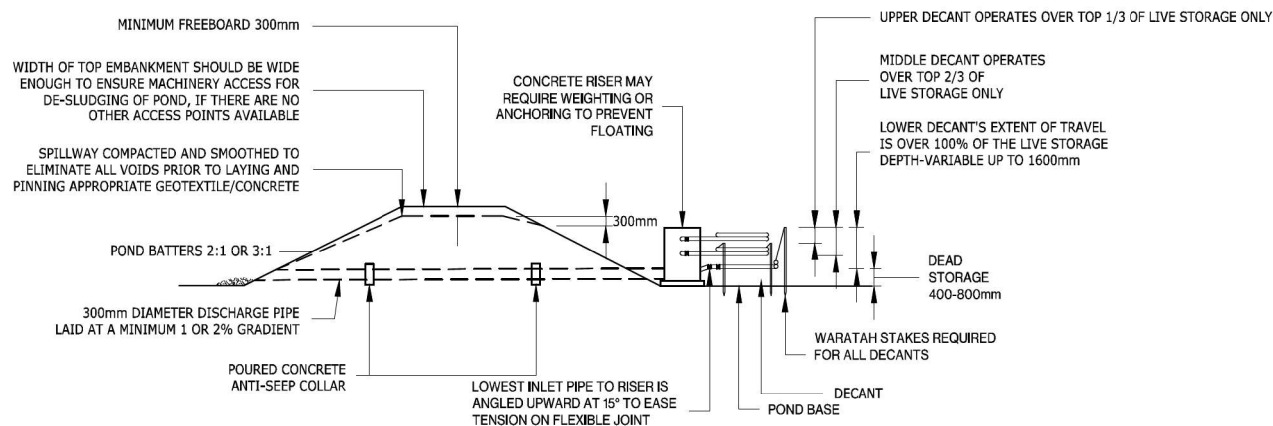


ISO 9001
QUALITY
ASSURED

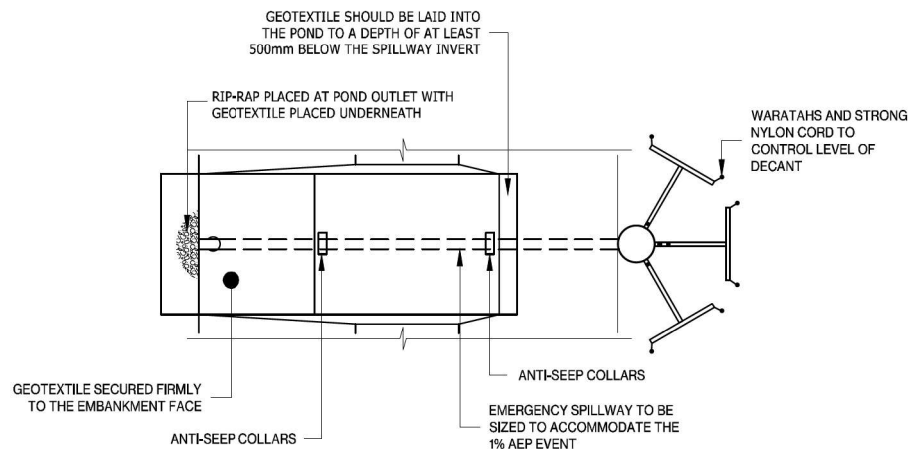
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NOTES:

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 - (II) REMOVAL OF SEDIMENT FROM SILT-ADEN WATERS USING EITHER "HAY BARRIERS" OR "SILT FENCES" OR BOTH.
 - (III) THAT THE SITE BE STABILISED AGAINST EROSION AS SOON AS PRACTICABLE AND IN A PROGRESSIVE MANNER AS EARTHWORKS ARE FINISHED OVER VARIOUS AREAS OF THE SITE.
 - (IV) MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES AS REQUIRED.
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8. BATCH DOSING OF PAC MAY BE REQUIRED PRIOR TO REMOVAL OF SURFACE WATER FROM SITE.



CROSS SECTION



PLAN

SEDIMENT RETENTION POND 3 TO 5HA CATCHMENT

A	FOR CONSENT	SCT	02/2026
REF	REVISIONS	BY	DATE

**HARRISON
GRIERSON**

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T +64 9 917 5000
W www.harrisongrierson.com

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

TITLE:
**EROSION AND SEDIMENT CONTROL
DETAILS
SHEET 4 OF 6**

ORIGINATOR SCT	DATE 04.2026	SIGNED	PLOT BY MNP
DRAWN SCT	DATE 11.2026	SIGNED	PLOT DATE 08.05.26
CHECKED RVS	DATE 04.2026	SIGNED	SURVEYED BY
APPROVED CJM	DATE 04.2026	SIGNED	SURVEY DATE

ISSUE STATUS:

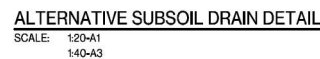
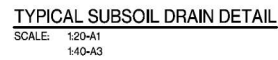
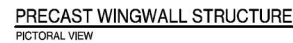
FAST TRACK CONSENT

PROJECT No: A2515591.00 SCALES: NOT TO SCALE

DRAWING No: REV

A2515591.00-2903 A

FOR CONSENT



WINGWALL DIMENSIONS														
MODEL	DN (mm)	TYPE	A DIA (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	I (mm)	MASS (kg)	IFTING ANCHOR LOAD GROUP	OPENING TYPE	R1x2xR3 (mm) RP-RAP
WW0300**	100-300	STANDARD	390	1000	600	460	520	200	160	65	300	3x1.3	SOFT SPOT	1000 x 1000 x 2

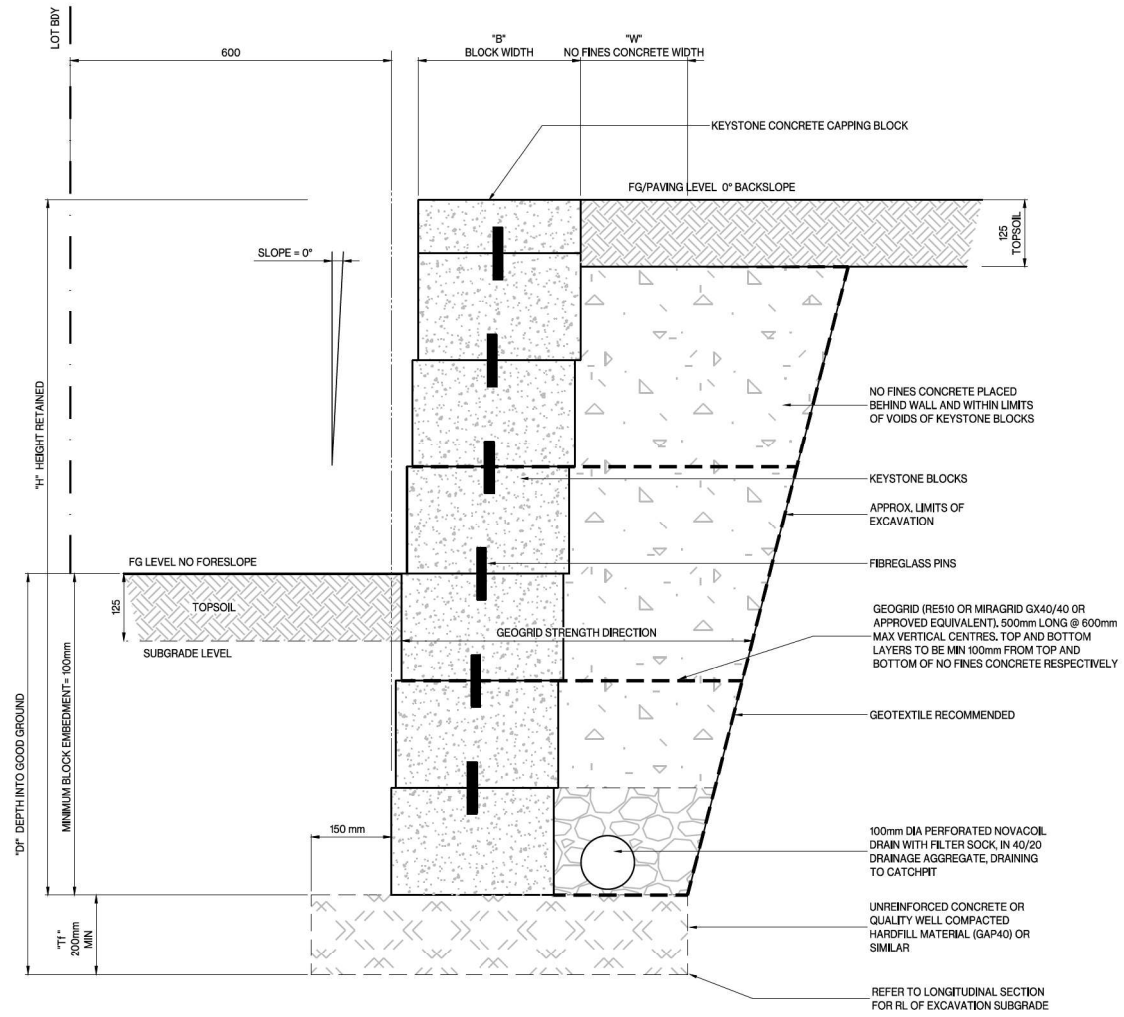
FOR CONSENT

**HARRISON
GRIERSON**

TITLE: EROSION AND SEDIMENT CONTROL
DETAILS
SHEET 6 OF 6

FAST TRACK CONSENT

PROJECT No: A2515591.00	SCALES: AS SHOWN	A1
DRAWING No: A2515591.00-2905		REV A



KEYSTONE BLOCK WALL
TYPE A

RETAINING WALL SCHEDULE FOR M CLASS SOILS				
HEIGHT RETAINED 'H' mm	Tf mm	B mm	W mm	Df mm
1000	200 (min)	300	200	600 (min)
1300			350	
1500			500	
1700			550	
1900			600	
2100			700	

NOTES

- WALL DESIGNED FOR 2KPA SURCHARGE.
- EMBEDMENT DEPTH SHOWN IS BASED IN CLASS 'M' EXPANSIVE SOILS.
- NO FINES CONCRETE TO BE PLACED IN MAX 600mm HIGH POURS.
- PRIOR TO PLACEMENT OF HARDFILL - WALL BASE TO BE INSPECTED BY GEOTECHNICAL ENGINEER.

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NOTES:

- RETAINING WALL DETAILS ARE SHOWN FOR INFORMATION PURPOSES ONLY. ALL WALLS SUBJECT TO STRUCTURAL ENGINEERING DESIGN AND BUILDING CONSENT.

A	FOR CONSENT	CJM	02/2026
REF	REVISIONS	BY	DATE

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

PROJECT:
BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:
TYPICAL
RETAINING WALL DETAILS
SHEET 1 OF 9

ORIGINATOR SCT	DATE 04.2026	SIGNED	PLOT BY: SCT
DRAWN MNP	DATE 04.2026	SIGNED	PLOT DATE: 05.06.26
CHECKED YZS	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
DRAWING No:	REV	

A2515591.00-2907 A

FOR INFORMATION



ISO 9001
QUALITY
ASSURED

NOTES:

1. RETAINING WALL DETAILS ARE SHOWN FOR INFORMATION PURPOSES ONLY. ALL WALLS SUBJECT TO STRUCTURAL ENGINEERING DESIGN AND BUILDING CONSENT.



RETAINING WALL SCHEDULE FOR CLASS M SOILS					
WALL HEIGHT 1'f (mm)	EMBEDMENT DEPTH 1'f (mm)	AUGER DRILL 1'f	SQ POST SIZE 1'f	POLE SPACING	RAIL SIZE
300	600	400Ø	X	1000	1/150X50
450	800	400Ø		1000	1/150X50
600	800	400Ø		1000	1/150X50
750	1000	400Ø DRAFT		1000	1/150X50
900	1000	400Ø		1000	1/150X50
1050	1000	400Ø		1000	1/150X50
1200	1400	400Ø		1000	1/150X50
1350	1400	400Ø		1000	1/150X50
1400	1400	400Ø		1000	1/150X50



RETAINING WALL SCHEDULE FOR CLASS M SOILS					
WALL HEIGHT "F" (mm)	EMBEDMENT DEPTH "D" (mm)	AUGER DRILL "B"	SQ POST SIZE "P"	POLE SPACING	RAIL SIZE
300	600	4000	X	1000	1/150X50
450	600	4000		1000	1/150X50
600	600	4000		1000	1/150X50
750	1000	4000		1000	1/150X50
900	1000	4000		1000	1/150X50
1050	1000	4000		1000	1/150X50
1200	1400	4000		1000	1/150X50
1350	1400	4000		1000	1/150X50
1400	1400	4000		1000	1/150X50

A	FOR CONSENT	CJM	02/20
REF	REVISIONS	BY	DATE

**HARRISON
GRIERSON**

PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

TYPICAL
RETAINING WALL DETAILS
SHEET 2 OF 9

ORIGINATOR SCT	DATE 04.2026	SIGNED:	PLOT BY: SC
DRAWN MNP	DATE 04.2026	SIGNED:	PLOT DATE: 05.06.2
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:	SCALES: NOT TO SCALE	44
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PROJECT NO: A2515591.00	SHEET: 101 OF 100	A1
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DRAWING No:	REV
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A2515501.00 2008 A

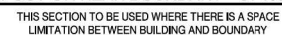
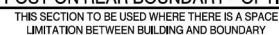
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ESI01 DESIGN\02 CIV\104 SHEETS\A251559100-2907 RETAINING WALL DETAIL.SDW

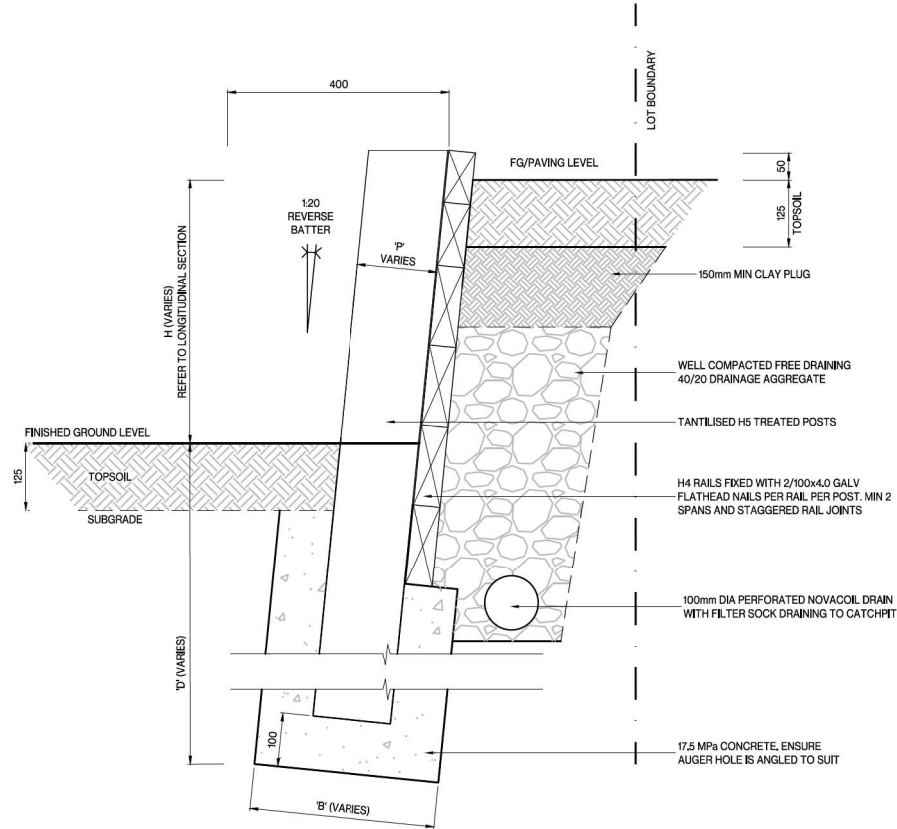
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FOR INFORMATION

1. RETAINING WALL DETAILS ARE SHOWN FOR INFORMATION PURPOSES ONLY. ALL WALLS SUBJECT TO STRUCTURAL ENGINEERING DESIGN AND BUILDING CONSENT.

**FOR INFORMATION**

- NOTES:
1. RETAINING WALL DETAILS ARE SHOWN FOR INFORMATION PURPOSES ONLY. ALL WALLS SUBJECT TO STRUCTURAL ENGINEERING DESIGN AND BUILDING CONSENT.



ROUND POST ON REAR BOUNDARY
TYPE E

RETAINING WALL SCHEDULE FOR CLASS M SOILS					
WALL HEIGHT 'H' (mm)	EMBEDMENT DEPTH 'D' (mm)	AUGER DRILL 'B' (mm)	SQ POST SIZE 'T'	POLE SPACING	RAIL SIZE
300	600	400Ø	150Ø SED	1000	1/150X50
450	600	400Ø	150Ø SED	1000	1/150X50
600	600	400Ø	150Ø SED	1000	1/150X50
750	1000	400Ø	150Ø SED	1000	1/150X50
900	1000	400Ø	150Ø SED	1000	1/150X50
1050	1000	400Ø	150Ø SED	1000	1/150X50
1200	1400	400Ø	175Ø SED	1000	1/150X50
1350	1400	400Ø	175Ø SED	1000	1/150X50
1400	1400	400Ø	175Ø SED	1000	1/150X50

A	FOR CONSENT	CJM	02/2026
REF	REVISIONS	BY	DATE

HARRISON GRIERSON
AUCKLAND OFFICE
Level 4, 96 St. Georges Bay Road
Parnell, Auckland 1052
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W www.harrisingrierson.com

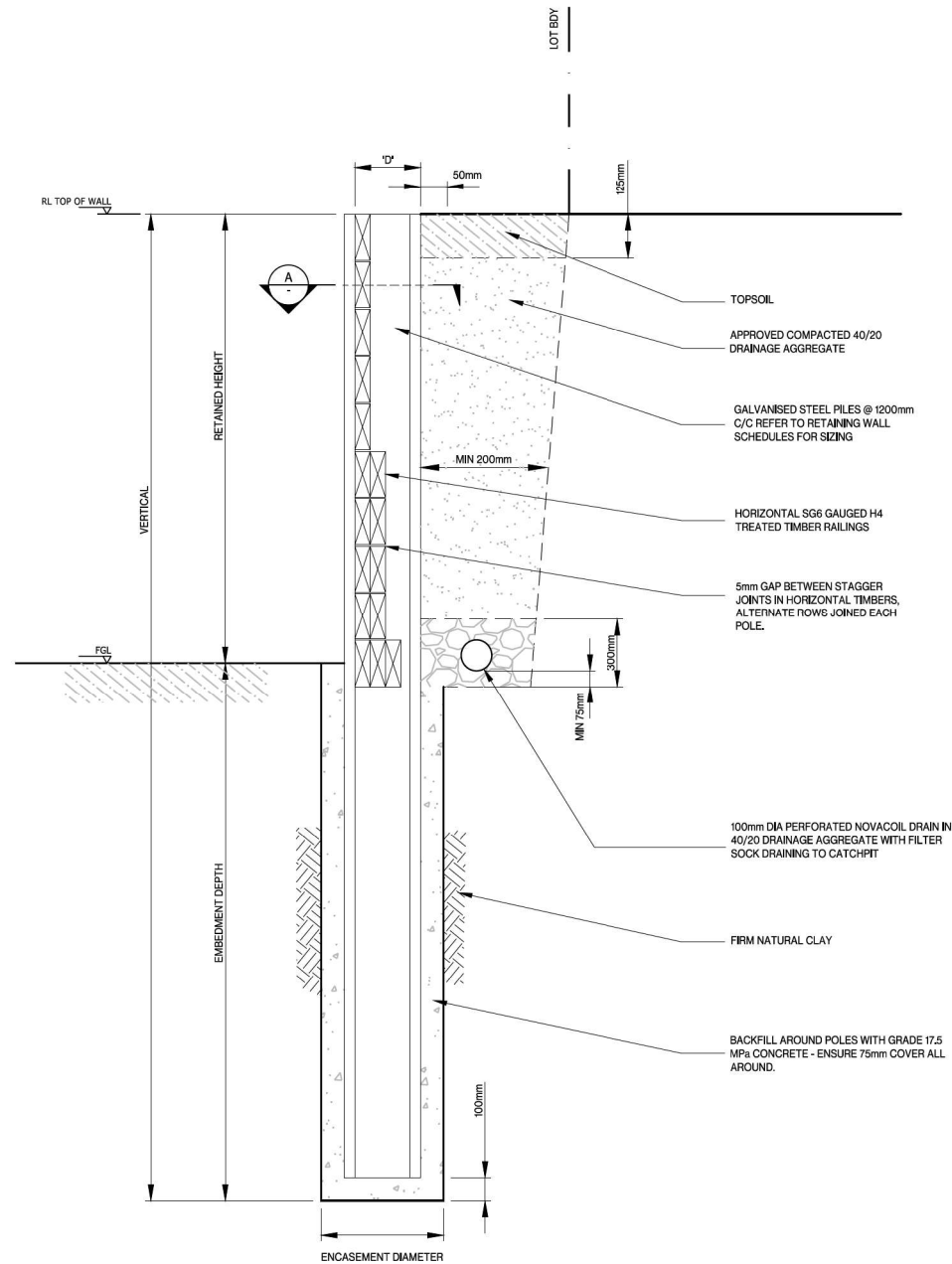
PROJECT:
BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:
TYPICAL
RETAINING WALL DETAILS
SHEET 4 OF 9

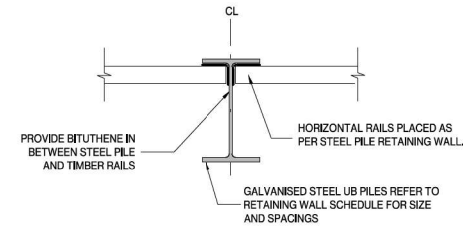
ORIGINATOR SCT	DATE 04.2026	SIGNED	PLOT BY: SCT
DRAWN MNP	DATE 04.2026	SIGNED	PLOT DATE: 05.06.26
CHECKED JZS	DATE 04.2026	SIGNED	SURVEY BY: SURVEYED BY
APPROVED CJM	DATE 04.2026	SIGNED	SURVEY DATE: SURVEYED DATE

FAST TRACK CONSENT			
PROJECT No: A2515591.00	SCALE: AS SHOWN	A1	
DRAWING No:	REV	A	
A2515591.00-2910		A	

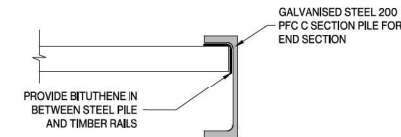
FOR INFORMATION



**STANDARD SECTION-STEEL IB WALL
TYPE F**



SECTION A-A
SCALE NTS



END SECTION
SCALE NTS

NOTES:

1. RETAINING WALL DETAILS ARE SHOWN FOR INFORMATION PURPOSES ONLY. ALL WALLS SUBJECT TO STRUCTURAL ENGINEERING DESIGN AND BUILDING CONSENT.

REF	REVISIONS	BY	DATE
A	FOR CONSENT	CJM	02/2026

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

TITLE:
**TYPICAL
RETAINING WALL DETAILS
SHEET 5 OF 9**

ORIGINATOR: SCT	DATE: 04.2026	SIGNED:	PLOT BY:	SCT
DRAWN: MNP	DATE: 04.2026	SIGNED:	PLOT DATE:	05.06.26
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: NOT TO SCALE	A1
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DRAWING No:	REV
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A2515591.00-2911 A

FOR INFORMATION

NOTES:

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2. DETAILS COPIED FROM CIRTEX.

NOTE:
EXTENDER UNIT DETAILS;
REF. MAGMUM STONE
DRAWING 101b/1100-MS-GEN

MAGNUMSTONE®
BLOCK (REF DWG 101
/ 1100-MS-GEN)

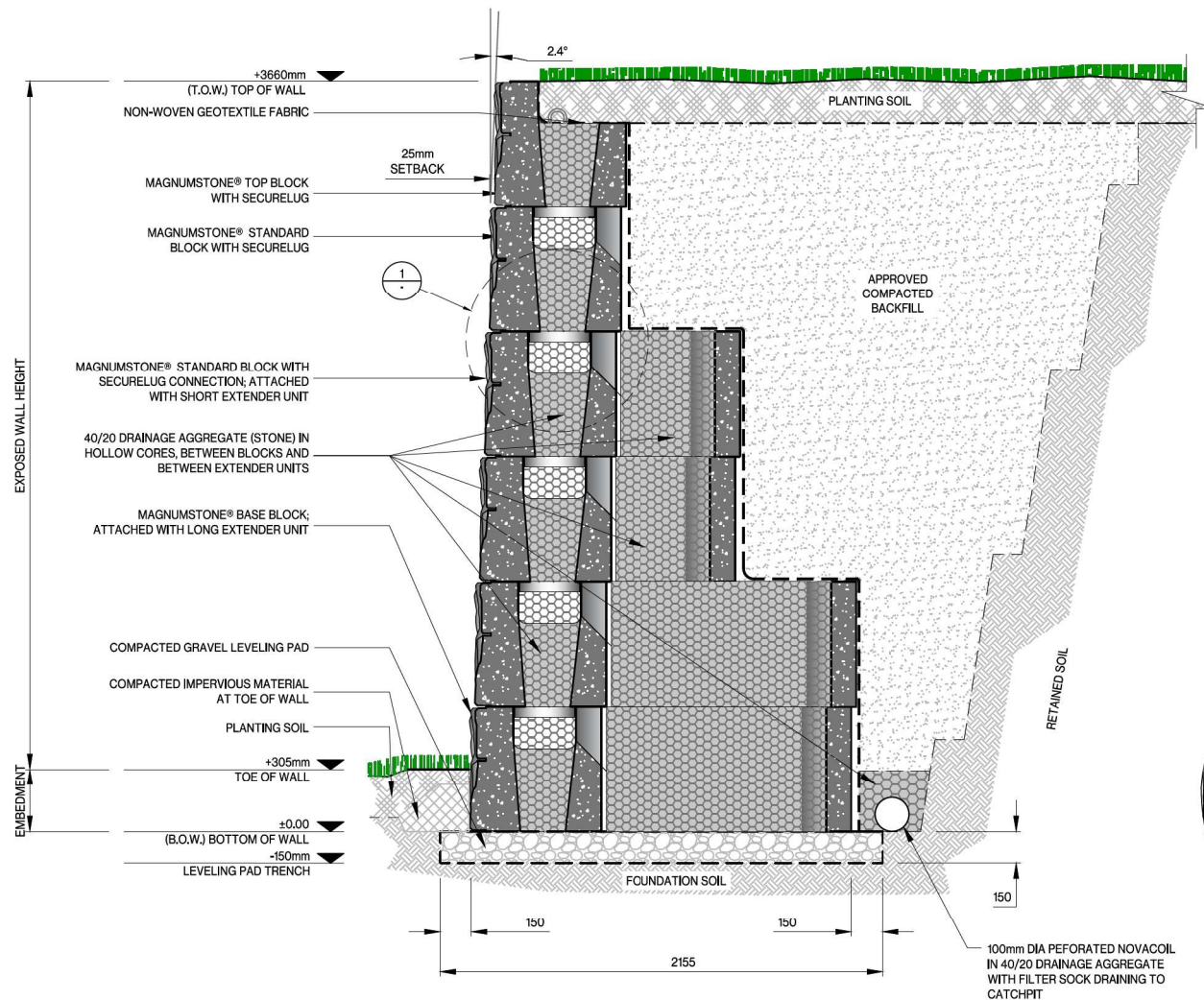
GROOVE TO RECEIVE
EXTENDER UNIT

1220mm / LONG
EXTENDER UNIT

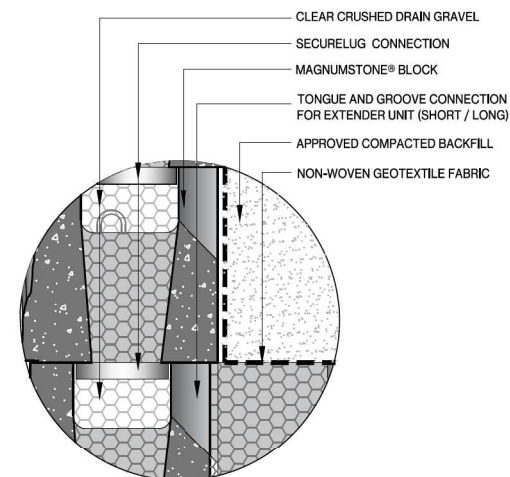
GROOVE TO RECEIVE
ADDITIONAL EXTENDER
UNIT

610mm / SHORT
EXTENDER UNIT

ISOMETRIC VIEW



STANDARD SECTION MAGNUM STONE WALL
TYPE G



SECTION
SCALE: NTS

FOR INFORMATION

REF	REVISIONS	DATE
A	FOR CONSENT	CJM 02/2026

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PROJECT:
BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:
MAGNUM STONE
RETAINING WALL DETAILS
SHEET 6 OF 9

ORIGINATOR SCT	DATE 04.2026	SIGNED	PLOT BY SCT
DRAWN MNP	DATE 04.2026	SIGNED	PLOT DATE 05.06.26
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

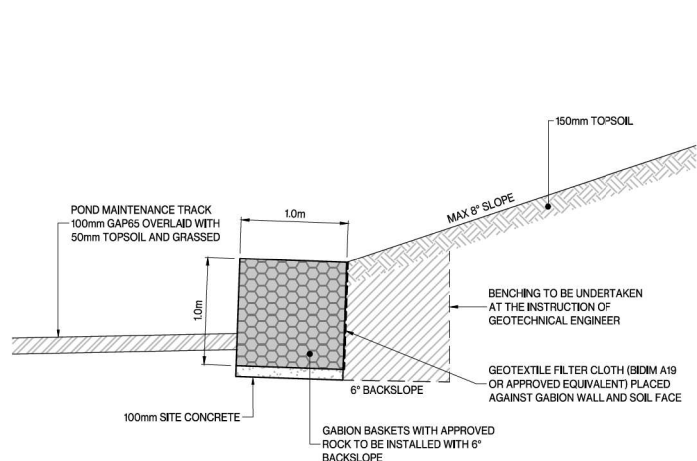
DRAWING No: A2515591.00-2912

SCALE: AS SHOWN

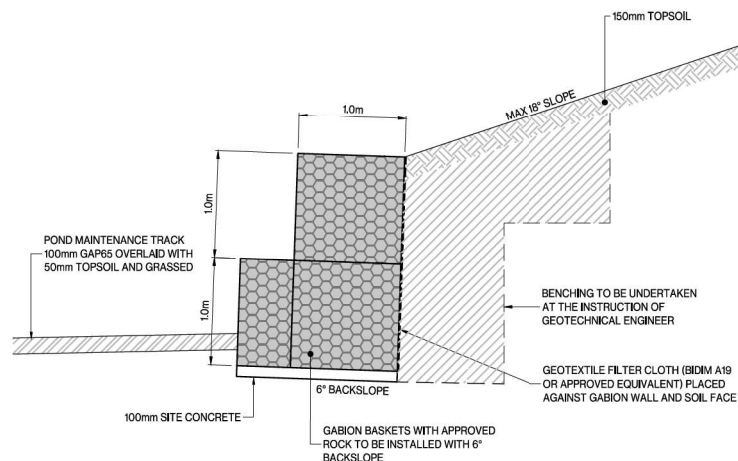
REV A

NOTES:

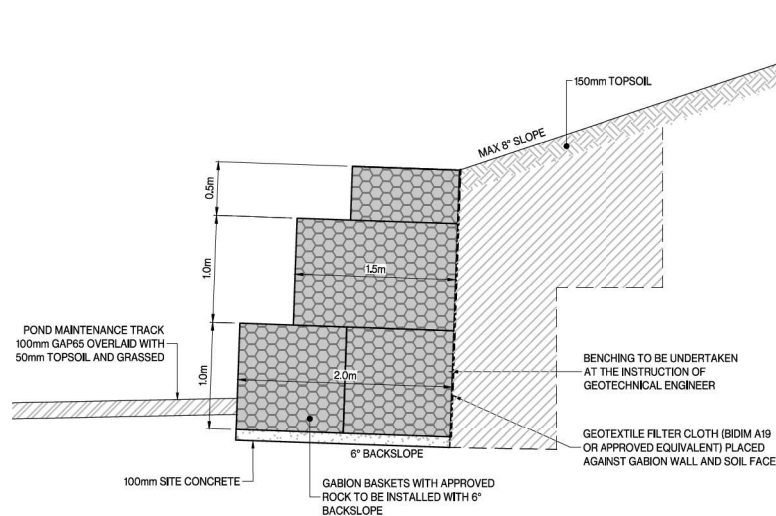
1. RETAINING WALL DETAILS ARE SHOWN FOR INFORMATION PURPOSES ONLY. ALL WALLS SUBJECT TO STRUCTURAL ENGINEERING DESIGN AND BUILDING CONSENT.



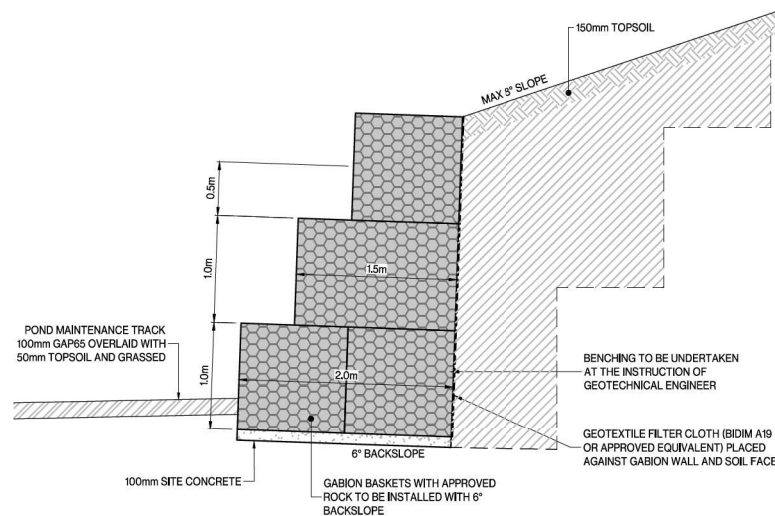
GABION WALL - TYPE H
WALL HEIGHT 1.0m



GABION WALL - TYPE H
WALL HEIGHT 2.0m



GABION WALL - TYPE H
WALL HEIGHT 2.5m



GABION WALL - TYPE H
WALL HEIGHT 2.5m

B	NOTE UPDATED	CJM 06/2026
A	FOR CONSENT	CJM 02/2026
REF	REVISIONS	BY DATE

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

TITLE: GABION WALL
RETAINING WALL DETAILS
SHEET 7 OF 8

ORIGINATOR SCT	DATE 04/2026	SIGNED	PLOT BY: SCT
DRAWN MNP	DATE 04/2026	SIGNED	PLOT DATE: 05/06/26
CHECKED NZS	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: AS SHOWN	A1
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DRAWING No:	REV
A2515591.00-2913	B

FOR INFORMATION



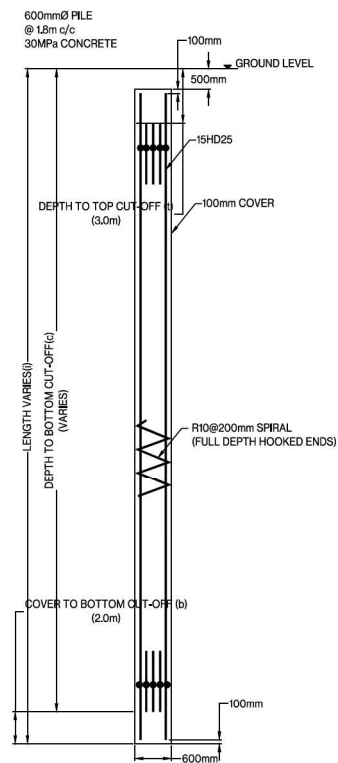
ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

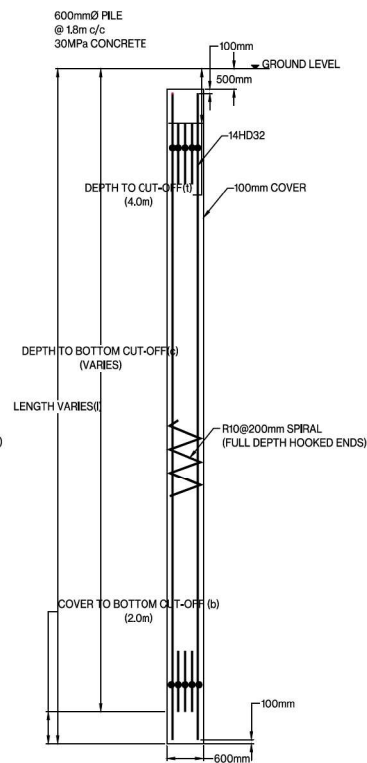
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NOTES:

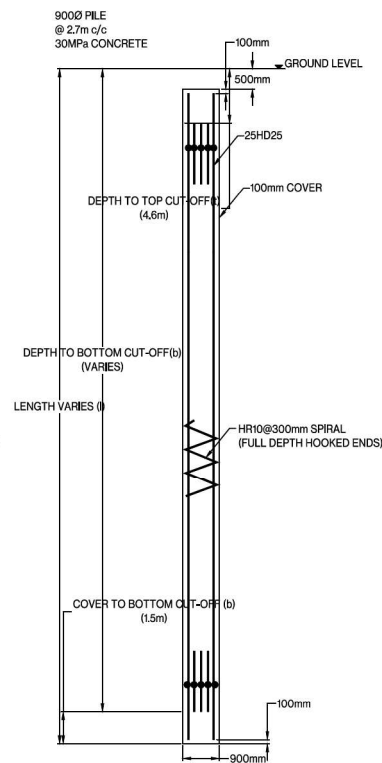
1. RETAINING WALL DETAILS ARE SHOWN FOR INFORMATION PURPOSES ONLY. ALL WALLS SUBJECT TO STRUCTURAL AND GEOTECHNICAL ENGINEERING DESIGNS AND BUILDING CONSENT.
2. ALL CONCRETE Fc 30 MPa 20mm CHIP
3. CONTRACTOR MUST HAVE FULL LENGTH OF TREMMIE ON SITE AND USE WHEN REQUIRED (Le > 0.20m WATER DEPTH)
4. TREMMIE BOTTOM MUST BE KEPT 1m BELOW CONCRETE/WATER INTERFACE AT ALL TIMES.
5. ALL PILE HOLES SHOULD BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING OF STEEL AND CONCRETING.



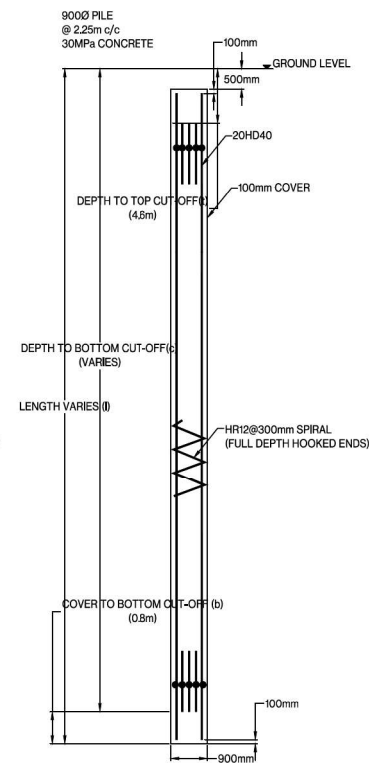
PALISADE WALL - TYPE I-1 DETAIL
N.T.S.



PALISADE WALL - TYPE I-2 DETAIL
N.T.S.



PALISADE WALL - TYPE I-3 DETAIL
N.T.S.



PALISADE WALL - TYPE I-4 DETAIL
N.T.S.

PALISADE WALL - STEEL DETAILS

PILE TYPE	DIA	C/C	VERTICAL REBAR	SPRINKLE REBAR	COVER	# CUT OFF BARS
I-1	600mm	1.80m	15HD25 @ 80mm	R10 @ 200mm	100mm	7
I-2	600mm	1.80m	14HD32 @ 84mm	R10 @ 200mm	100mm	6
I-3	900mm	2.70m	25HD25 @ 90mm	HR10 @ 300mm	100mm	12
I-4	900mm	2.70m	20HD40 @ 100mm	HR12 @ 300mm	100mm	10

FOR CONSENT

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W www.harrisongrierson.com

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

TITLE:
**PALISADE
RETAINING WALL DETAILS
SHEET 8 OF 9**

ORIGINATOR SCT	DATE 04.2026	SIGNED	PLOT BY SCT
DRAWN SCT	DATE 11.2025	SIGNED	PLOT DATE 05.06.26
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

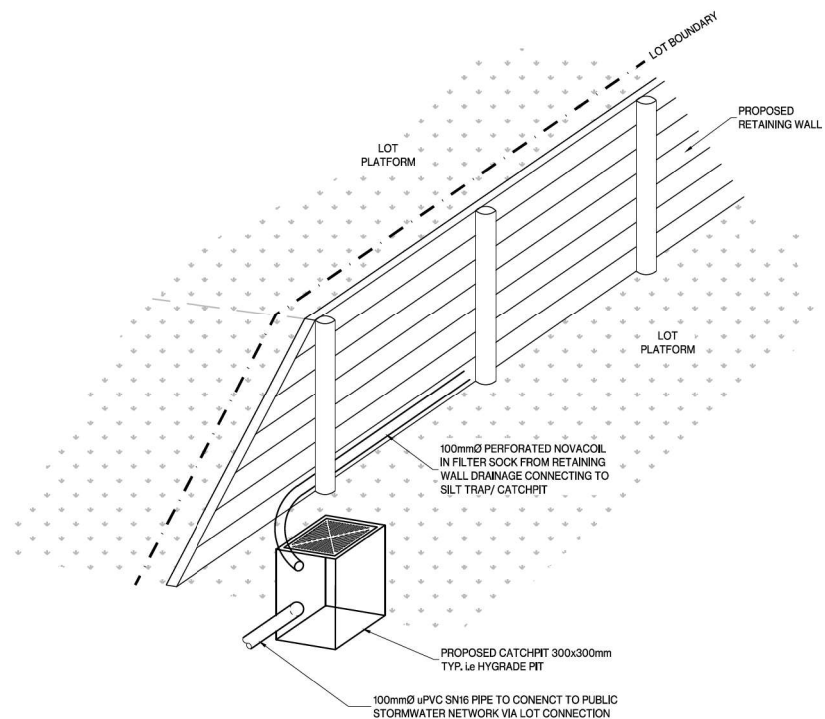
SCALE: 1:100

DRAWING No: A2515591.00-2914

REV A

NOTES:

1. RETAINING WALL DETAILS ARE SHOWN FOR INFORMATION PURPOSES ONLY. ALL WALLS SUBJECT TO STRUCTURAL ENGINEERING DESIGN AND BUILDING CONSENT.



RETAINING WALL DRAINAGE PICTORAL VIEW

A	FOR CONSENT	SCT	05/20
REF	REVISIONS	BY	DATE

**HARRISON
GRIERSON**

PROJECT:

BEACHLANDS
FAST TRACK CONSENT APPLICATION
BEACHLANDS SOUTH, AUCKLAND

TITLE:

RETAINING WALL DETAILS
SHEET 9 OF 9

ORIGINATOR SCT	DATE: 04.2026	SIGNED:	PLOT BY: S
DRAWN SCT	DATE: 11.2025	SIGNED:	PLOT DATE: 05.06
CHECKED: PZS	DATE: 04.2026	SIGNED:	SURVEY BY: SURVEYED
APPROVED: CJM	DATE: 04.2026	SIGNED:	SURVEY DATE: SURVEYED DA

ISSUE STATUS: **FAST TRACK CONSENT**

PROJECT No: A2515591.00	SCALES: AS SHOWN	A
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DRAWING No:	REV
A2515591.00-2915	A

FOR CONSENT