



## RESOURCE CONSENT

- ## NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO REGIONAL COUNCIL EROSION AND SEDIMENT CONTROL: GUIDELINES FOR SOIL DISTURBING ACTIVITIES TR 2009/02.
  2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000
  3. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
  4. ORIGIN OF LEVELS = SM XXXX SO XXXX(XXXX) PUBLISHED RL=XX.XX. SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.
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  8. CONTRACTOR SHALL PROVIDE AS-BUILT OF WORKING SEDIMENT CONTROL DEVICES AND CONFIRMATION OF POND/DECENT VOLUMES TO ENGINEER.

LEGEND

- 
- EX BDY  
 PROP BDY  
 EX MAJOR CONTOUR  
 EX MINOR CONTOUR  
 PR MAJOR CONTOUR  
 PR MINOR CONTOUR  
 PROP EXTENT WORK  
 PROP CLEANWATER  
 PROP DIRTY WATER  
 PROP SILT FENCE  
 PROP STOCKPILE  
 PROP DECANT  
 PROP DECANT BAR

|         |                |         |         |
|---------|----------------|---------|---------|
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| A       | FAST TRACK APP | MKS     | 06/2026 |
| Rev     | Description    | By      | Date    |
|         | By             | Date    |         |
| Survey  | MAVEN          | 06/2025 |         |
| Design  | RJM            | 11/2025 |         |
| Drawn   | RJM            | 11/2025 |         |
| Checked | DJM            | 11/2025 |         |



Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title

**PROPOSED  
CONTOUR  
OVERVIEW PLAN**

|             |                               |     |          |
|-------------|-------------------------------|-----|----------|
| Project no. | 298001-R1 SL1                 |     |          |
| Scale       | 1:4000 @ A3                   |     |          |
| Cad file    | 298001-R1-C200 EARTHWORKS.DWG |     |          |
| Drawing no. | R1-C200                       | Rev | <b>A</b> |



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FORTH

CAESAR ROOSE DRIVE

MACMURDO AVENUE

REYNOLDS DRIVE

STAGE 1C

STAGE 1A

STAGE 1B

STAGE 1D

STAGE 1E

LOT 2 DPS 9219

RESOURCE CONSENT

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Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
STAGE 1  
CONTOUR PLAN**

|             |                               |     |          |
|-------------|-------------------------------|-----|----------|
| Project no. | 298001-R1 SL1                 |     |          |
| Scale       | 1:2000 @ A3                   |     |          |
| Cad file    | 298001-R1-C200 EARTHWORKS.DWG |     |          |
| Drawing no. | R1-C200-1                     | Rev | <b>A</b> |

DATE: 9/25 FILEPATH: F:\MAVEN\HAMILTON6 PROJECTS\298001 - SOUTHERN LINKS 1\STG1\RT\DWG\298001-R1-C200 EARTHWORKS.DWG



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Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
STAGE 2  
CONTOUR PLAN**

|             |                               |     |          |
|-------------|-------------------------------|-----|----------|
| Project no. | 298001-R1 SL1                 |     |          |
| Scale       | 1:2000 @ A3                   |     |          |
| Cad file    | 298001-R1-C200 EARTHWORKS.DWG |     |          |
| Drawing no. | R1-C200-2                     | Rev | <b>A</b> |

RESOURCE CONSENT



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| A       | FAST TRACK APP | MKS | 06/2026 |
| Rev     | Description    | By  | Date    |
|         |                | By  | Date    |
| Survey  | MAVEN          |     | 06/2025 |
| Design  | RJM            |     | 11/2025 |
| Drawn   | RJM            |     | 11/2025 |
| Checked | DJM            |     | 11/2025 |

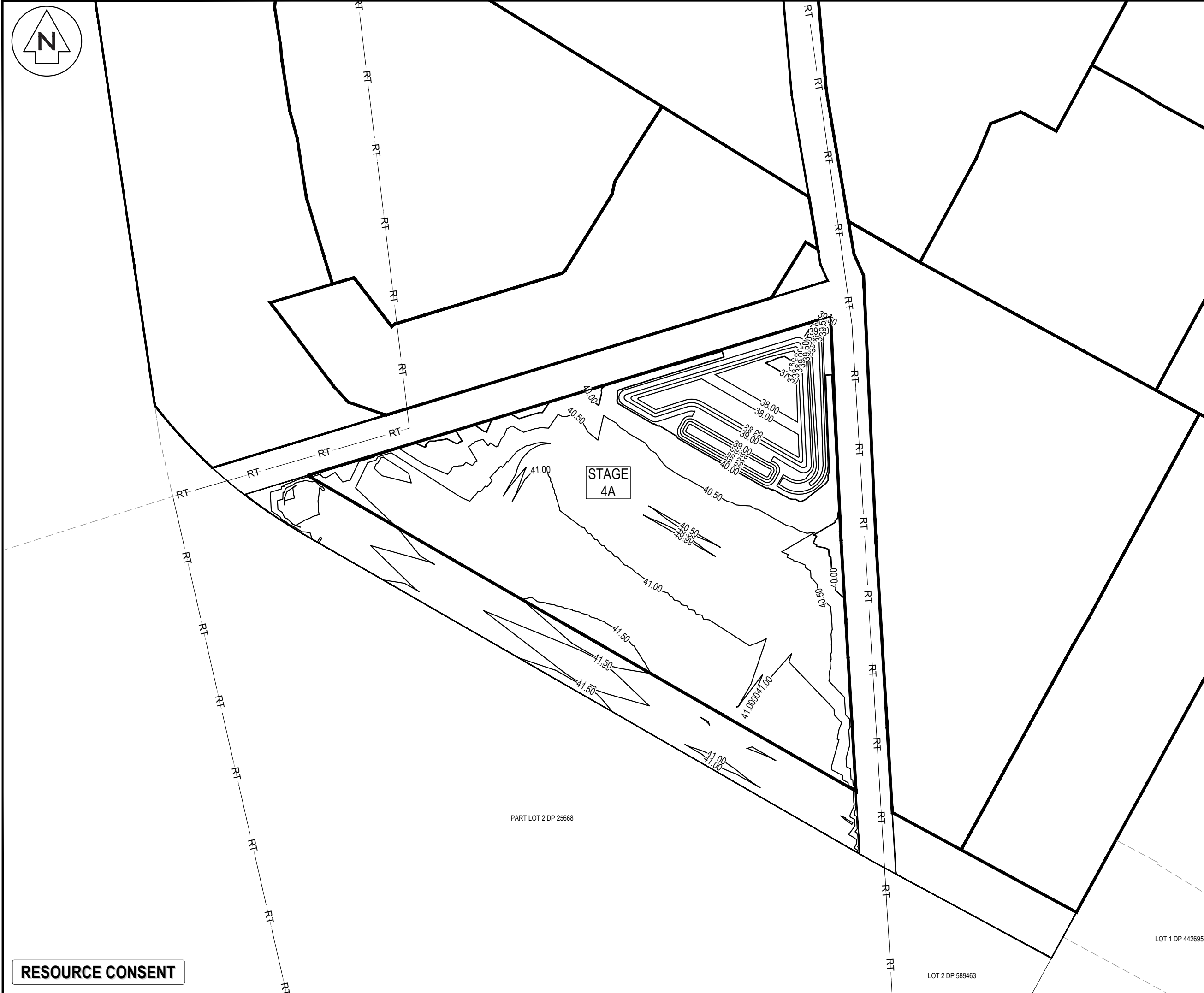


Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
STAGE 3  
CONTOUR PLAN**

|             |                               |
|-------------|-------------------------------|
| Project no. | 298001-R1 SL1                 |
| Scale       | 1:2000 @ A3                   |
| Cad file    | 298001-R1-C200 EARTHWORKS.DWG |
| Drawing no. | R1-C200-3                     |
| Rev         | A                             |

RESOURCE CONSENT



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Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
STAGE 4  
CONTOUR PLAN**

|             |                               |     |          |
|-------------|-------------------------------|-----|----------|
| Project no. | 298001-R1 SL1                 |     |          |
| Scale       | 1:2000 @ A3                   |     |          |
| Cad file    | 298001-R1-C200 EARTHWORKS.DWG |     |          |
| Drawing no. | R1-C200-4                     | Rev | <b>A</b> |

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|  | PROP DECANT BAR  |

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| A       | FAST TRACK APP | MKS | 06/2026 |
| Rev     | Description    | By  | Date    |
|         |                | By  | Date    |
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Project

**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title

**PROPOSED  
STAGE 5  
CONTOUR PLAN**

|             |                               |     |          |
|-------------|-------------------------------|-----|----------|
| Project no. | 298001-R1 SL1                 |     |          |
| Scale       | 1:2000 @ A3                   |     |          |
| Cad file    | 298001-R1-C200 EARTHWORKS.DWG |     |          |
| Drawing no. | R1-C200-5                     | Rev | <b>A</b> |

RESOURCE CONSENT



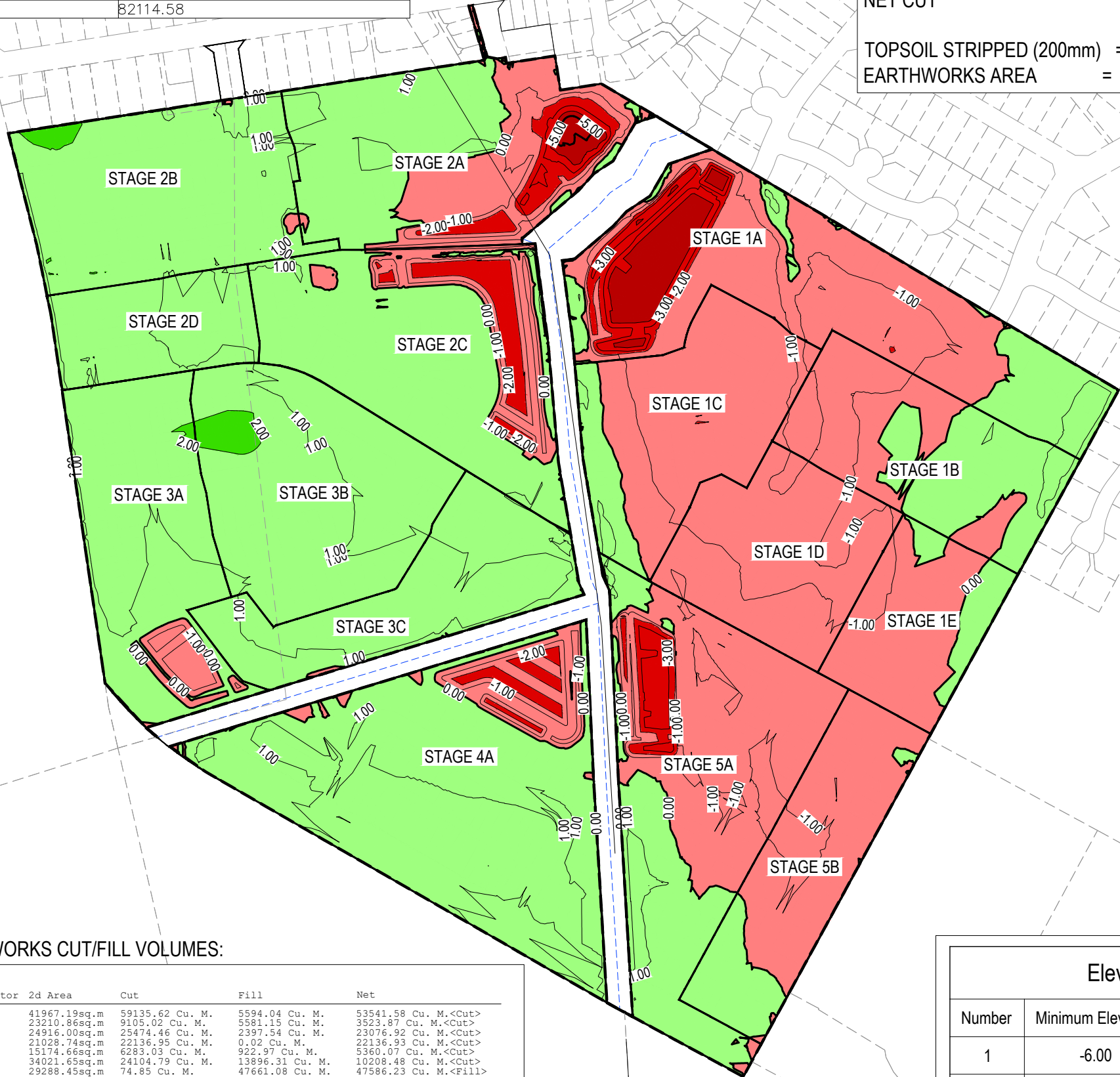
| Extrapolated/Estimated Spoils Excavated (cu.m.) |          |
|-------------------------------------------------|----------|
| SW Pipe Embedment Spoils                        | 6110.71  |
| SW Manhole Spoils                               | 260.25   |
| WW Pipe Embedment Spoils                        | 1449.78  |
| WW Manhole Spoils                               | 426.02   |
| WS Pipe Spoils                                  | 301.88   |
| Road Paving Excavated                           | 47103.37 |
| Footpath Paving Excavated                       | 10585.03 |
| JOAL Paving Excavated                           | 15877.54 |
| Total                                           | 82114.58 |

WHOLE SITE EARTH WORKS (SURFACE PSGL COMPARISON WITH SURFACE ESGL )

|                           |                        |
|---------------------------|------------------------|
| CUT VOLUME                | 207,910 m <sup>3</sup> |
| CUT VOLUME ( FROM SPOILS) | 82,100 m <sup>3</sup>  |
| FILL VOLUME               | 272,850 m <sup>3</sup> |
| NET CUT                   | 17,160 m <sup>3</sup>  |

|                          |                                     |
|--------------------------|-------------------------------------|
| TOPSOIL STRIPPED (200mm) | = 86,690 m <sup>3</sup>             |
| EARTHWORKS AREA          | = 433,460 m <sup>2</sup> / 43.34 Ha |

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WHOLE SITE STAGING BULK EARTHWORKS CUT/FILL VOLUMES:

| Cut/Fill Summary        |            |             |               |                  |                  |                       |  |
|-------------------------|------------|-------------|---------------|------------------|------------------|-----------------------|--|
| Name                    | Cut Factor | Fill Factor | 2d Area       | Cut              | Fill             | Net                   |  |
| PSGL vs ESGL - STAGE 1A | 1.000      | 1.200       | 41967.19sq.m  | 59135.62 Cu. M.  | 5594.04 Cu. M.   | 53541.58 Cu. M.<Cut>  |  |
| PSGL vs ESGL - STAGE 1B | 1.000      | 1.200       | 23210.86sq.m  | 9105.02 Cu. M.   | 5581.15 Cu. M.   | 3523.87 Cu. M.<Cut>   |  |
| PSGL vs ESGL - STAGE 1C | 1.000      | 1.200       | 24916.00sq.m  | 25474.46 Cu. M.  | 2397.54 Cu. M.   | 23076.92 Cu. M.<Cut>  |  |
| PSGL vs ESGL - STAGE 1D | 1.000      | 1.200       | 21028.74sq.m  | 22136.95 Cu. M.  | 0.02 Cu. M.      | 22136.93 Cu. M.<Cut>  |  |
| PSGL vs ESGL - STAGE 1E | 1.000      | 1.200       | 15174.66sq.m  | 6283.03 Cu. M.   | 922.97 Cu. M.    | 5360.07 Cu. M.<Cut>   |  |
| PSGL vs ESGL - STAGE 2A | 1.000      | 1.200       | 34021.65sq.m  | 24104.79 Cu. M.  | 13896.31 Cu. M.  | 10208.48 Cu. M.<Cut>  |  |
| PSGL vs ESGL - STAGE 2B | 1.000      | 1.200       | 29288.45sq.m  | 74.85 Cu. M.     | 47661.08 Cu. M.  | 47586.23 Cu. M.<Fill> |  |
| PSGL vs ESGL - STAGE 2C | 1.000      | 1.200       | 35498.51sq.m  | 13851.66 Cu. M.  | 15068.12 Cu. M.  | 1216.46 Cu. M.<Fill>  |  |
| PSGL vs ESGL - STAGE 2D | 1.000      | 1.200       | 12606.45sq.m  | 0.00 Cu. M.      | 16847.56 Cu. M.  | 16847.56 Cu. M.<Fill> |  |
| PSGL vs ESGL - STAGE 3A | 1.000      | 1.200       | 27326.55sq.m  | 2719.46 Cu. M.   | 32129.16 Cu. M.  | 29409.70 Cu. M.<Fill> |  |
| PSGL vs ESGL - STAGE 3B | 1.000      | 1.200       | 31286.41sq.m  | 0.00 Cu. M.      | 46036.93 Cu. M.  | 46036.93 Cu. M.<Fill> |  |
| PSGL vs ESGL - STAGE 3C | 1.000      | 1.200       | 21113.31sq.m  | 7.92 Cu. M.      | 25662.40 Cu. M.  | 25654.48 Cu. M.<Fill> |  |
| PSGL vs ESGL - STAGE 4A | 1.000      | 1.200       | 53087.67sq.m  | 8623.46 Cu. M.   | 49833.35 Cu. M.  | 41209.90 Cu. M.<Fill> |  |
| PSGL vs ESGL - STAGE 5A | 1.000      | 1.200       | 41521.63sq.m  | 27600.06 Cu. M.  | 9305.01 Cu. M.   | 18295.05 Cu. M.<Cut>  |  |
| PSGL vs ESGL - STAGE 5B | 1.000      | 1.200       | 21410.89sq.m  | 8792.78 Cu. M.   | 1913.89 Cu. M.   | 6878.90 Cu. M.<Cut>   |  |
| Totals                  |            |             | 433458.96sq.m | 207910.08 Cu. M. | 272849.54 Cu. M. | 64939.46 Cu. M.<Fill> |  |

RESOURCE CONSENT

| Elevations Table |                   |                   |             |
|------------------|-------------------|-------------------|-------------|
| Number           | Minimum Elevation | Maximum Elevation | Color       |
| 1                | -6.00             | -4.00             | Red         |
| 2                | -4.00             | -2.00             | Red         |
| 3                | -2.00             | 0.00              | Light Red   |
| 4                | 0.00              | 2.00              | Light Green |
| 5                | 2.00              | 4.00              | Green       |

|         |                |      |         |
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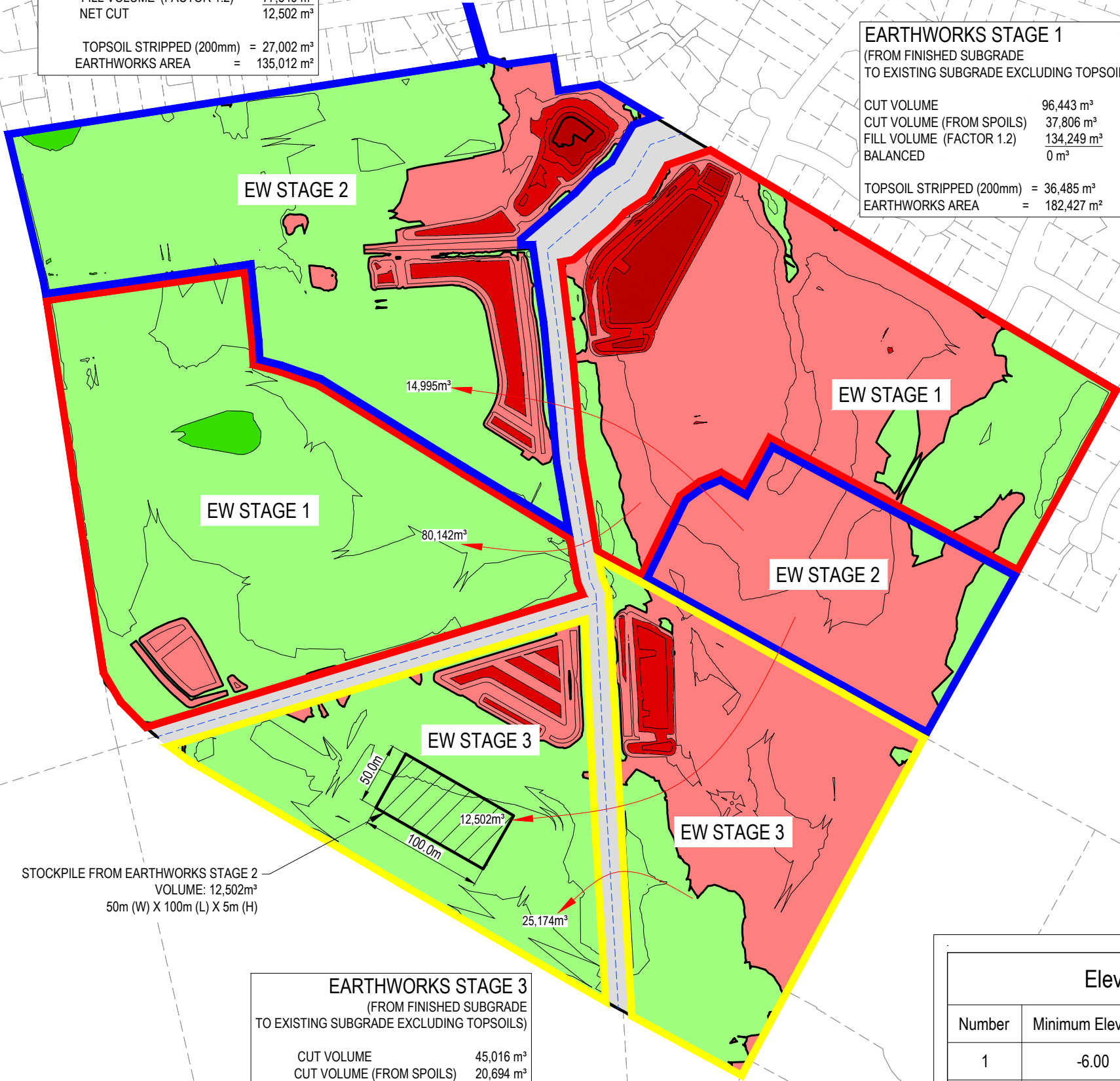
Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

|                                                         |                                |
|---------------------------------------------------------|--------------------------------|
| Title<br><b>PROPOSED<br/>CUT/FILL<br/>OVERVIEW PLAN</b> |                                |
| Project no.                                             | 298001-R1 SL1                  |
| Scale                                                   | 1:4000 @ A3                    |
| Cad file                                                | 298001-R1-C220 EW CUT&FILL.DWG |
| Drawing no.                                             | R1-C220                        |
| Rev                                                     | A                              |



| EARTHWORKS STAGE 2                                               |           |
|------------------------------------------------------------------|-----------|
| (FROM FINISHED SUBGRADE TO EXISTING SUBGRADE EXCLUDING TOPSOILS) |           |
| CUT VOLUME                                                       | 66,451 m³ |
| CUT VOLUME (FROM SPOILS)                                         | 23,600 m³ |
| FILL VOLUME (FACTOR 1.2)                                         | 77,549 m³ |
| NET CUT                                                          | 12,502 m³ |
| TOPSOIL STRIPPED (200mm) = 27,002 m³                             |           |
| EARTHWORKS AREA = 135,012 m²                                     |           |

| EARTHWORKS STAGE 1                                               |            |
|------------------------------------------------------------------|------------|
| (FROM FINISHED SUBGRADE TO EXISTING SUBGRADE EXCLUDING TOPSOILS) |            |
| CUT VOLUME                                                       | 96,443 m³  |
| CUT VOLUME (FROM SPOILS)                                         | 37,806 m³  |
| FILL VOLUME (FACTOR 1.2)                                         | 134,249 m³ |
| BALANCED                                                         | 0 m³       |
| TOPSOIL STRIPPED (200mm) = 36,485 m³                             |            |
| EARTHWORKS AREA = 182,427 m²                                     |            |



STOCKPILE FROM EARTHWORKS STAGE 2  
VOLUME: 12,502m³  
50m (W) X 100m (L) X 5m (H)

| EARTHWORKS STAGE 3                                               |           |
|------------------------------------------------------------------|-----------|
| (FROM FINISHED SUBGRADE TO EXISTING SUBGRADE EXCLUDING TOPSOILS) |           |
| CUT VOLUME                                                       | 45,016 m³ |
| CUT VOLUME (FROM SPOILS)                                         | 20,694 m³ |
| FILL VOLUME (FACTOR 1.2)                                         | 61,052 m³ |
| NET CUT                                                          | 4,658 m³  |
| TOPSOIL STRIPPED (200mm) = 23,204 m³                             |           |
| EARTHWORKS AREA = 116,020 m²                                     |           |

| Elevations Table |                   |                   |             |
|------------------|-------------------|-------------------|-------------|
| Number           | Minimum Elevation | Maximum Elevation | Color       |
| 1                | -6.00             | -4.00             | Dark Red    |
| 2                | -4.00             | -2.00             | Red         |
| 3                | -2.00             | 0.00              | Light Red   |
| 4                | 0.00              | 2.00              | Light Green |
| 5                | 2.00              | 4.00              | Green       |

- NOTES
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|         |                |     |         |
|---------|----------------|-----|---------|
| A       | FAST TRACK APP | MKS | 06/2026 |
| Rev     | Description    | By  | Date    |
|         |                | By  | Date    |
| Survey  | MAVEN          |     | 06/2025 |
| Design  | MKS            |     | 11/2025 |
| Drawn   | MKS            |     | 11/2025 |
| Checked | DJM            |     | 11/2025 |

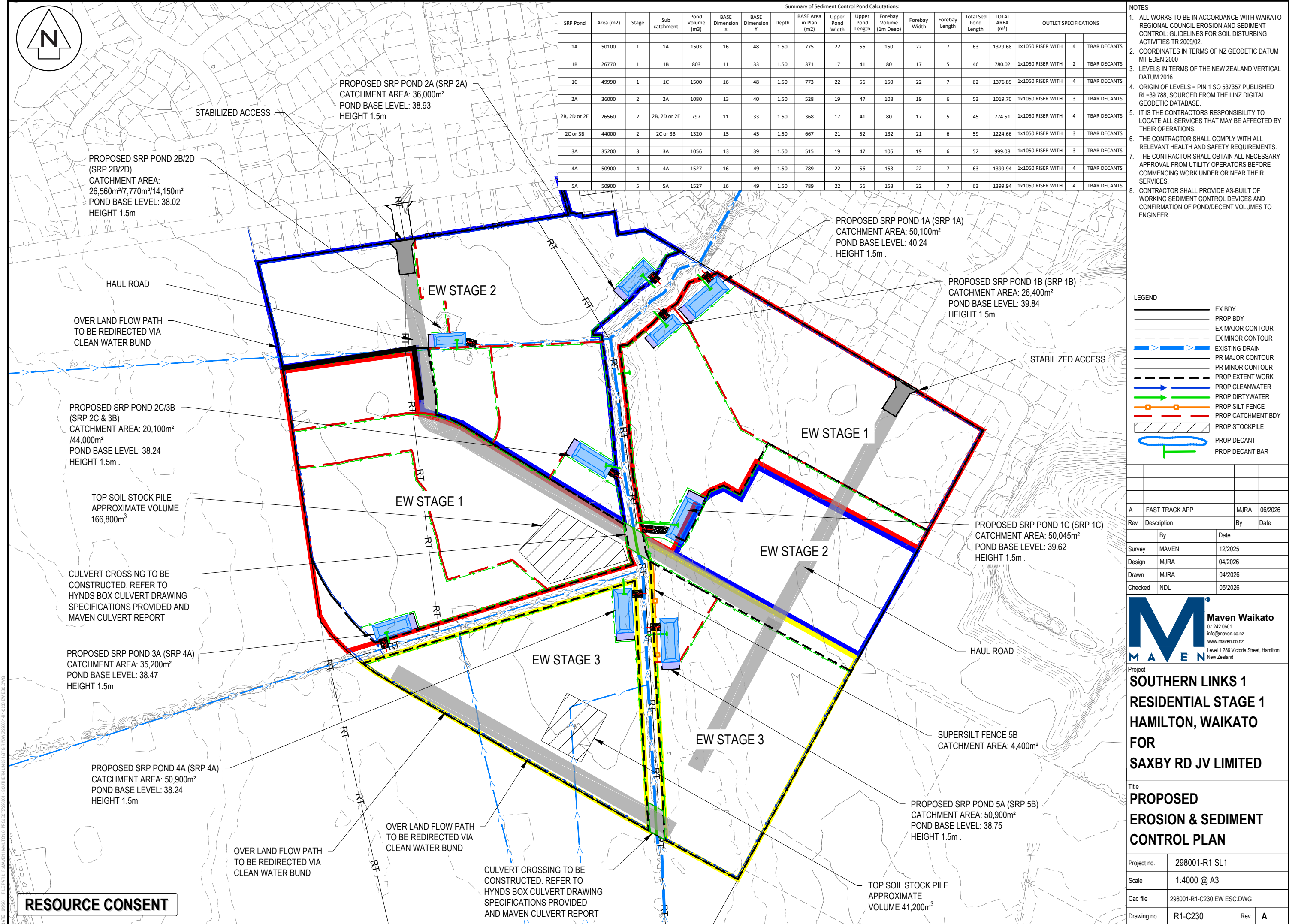


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New Zealand

Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SL1 CONSORTIUM GROUP**

|                                                        |                                  |     |   |
|--------------------------------------------------------|----------------------------------|-----|---|
| Title<br><b>PROPOSED<br/>CUT/FILL<br/>STAGING PLAN</b> |                                  |     |   |
| Project no.                                            | 298001-R1 SL1                    |     |   |
| Scale                                                  | 1:4000 @ A3                      |     |   |
| Cad file                                               | 298001-R1-C220-1 EW CUT&FILL.DWG |     |   |
| Drawing no.                                            | C220-1                           | Rev | A |

RESOURCE CONSENT



| Summary of Sediment Control Pond Calculations: |           |       |               |                  |                  |                  |       |                        |                  |                   |                          |               |                |                       |                 |                                  |
|------------------------------------------------|-----------|-------|---------------|------------------|------------------|------------------|-------|------------------------|------------------|-------------------|--------------------------|---------------|----------------|-----------------------|-----------------|----------------------------------|
| SRP Pond                                       | Area (m2) | Stage | Sub catchment | Pond Volume (m3) | BASE Dimension x | BASE Dimension Y | Depth | BASE Area in Plan (m2) | Upper Pond Width | Upper Pond Length | Forebay Volume (1m Deep) | Forebay Width | Forebay Length | Total Sed Pond Length | TOTAL AREA (m²) | OUTLET SPECIFICATIONS            |
| 1A                                             | 50100     | 1     | 1A            | 1503             | 16               | 48               | 1.50  | 775                    | 22               | 56                | 150                      | 22            | 7              | 63                    | 1379.68         | 1x1050 RISER WITH 4 TBAR DECANTS |
| 1B                                             | 26770     | 1     | 1B            | 803              | 11               | 33               | 1.50  | 371                    | 17               | 41                | 80                       | 17            | 5              | 46                    | 780.02          | 1x1050 RISER WITH 2 TBAR DECANTS |
| 1C                                             | 49990     | 1     | 1C            | 1500             | 16               | 48               | 1.50  | 773                    | 22               | 56                | 150                      | 22            | 7              | 62                    | 1376.89         | 1x1050 RISER WITH 4 TBAR DECANTS |
| 2A                                             | 36000     | 2     | 2A            | 1080             | 13               | 40               | 1.50  | 528                    | 19               | 47                | 108                      | 19            | 6              | 53                    | 1019.70         | 1x1050 RISER WITH 3 TBAR DECANTS |
| 2B, 2D or 2E                                   | 26560     | 2     | 2B, 2D or 2E  | 797              | 11               | 33               | 1.50  | 368                    | 17               | 41                | 80                       | 17            | 5              | 45                    | 774.51          | 1x1050 RISER WITH 4 TBAR DECANTS |
| 2C or 3B                                       | 44000     | 2     | 2C or 3B      | 1320             | 15               | 45               | 1.50  | 667                    | 21               | 52                | 132                      | 21            | 6              | 59                    | 1224.66         | 1x1050 RISER WITH 3 TBAR DECANTS |
| 3A                                             | 35200     | 3     | 3A            | 1056             | 13               | 39               | 1.50  | 515                    | 19               | 47                | 106                      | 19            | 6              | 52                    | 999.08          | 1x1050 RISER WITH 3 TBAR DECANTS |
| 4A                                             | 50900     | 4     | 4A            | 1527             | 16               | 49               | 1.50  | 789                    | 22               | 56                | 153                      | 22            | 7              | 63                    | 1399.94         | 1x1050 RISER WITH 4 TBAR DECANTS |
| 5A                                             | 50900     | 5     | 5A            | 1527             | 16               | 49               | 1.50  | 789                    | 22               | 56                | 153                      | 22            | 7              | 63                    | 1399.94         | 1x1050 RISER WITH 4 TBAR DECANTS |

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- LEGEND
- EX BDY
  - PROP BDY
  - EX MAJOR CONTOUR
  - EX MINOR CONTOUR
  - EXISTING DRAIN
  - PR MAJOR CONTOUR
  - PR MINOR CONTOUR
  - PROP EXTENT WORK
  - PROP CLEANWATER
  - PROP DIRTYWATER
  - PROP SILT FENCE
  - PROP CATCHMENT BDY
  - PROP STOCKPILE
  - PROP DECANT
  - PROP DECANT BAR

|         |                |      |         |
|---------|----------------|------|---------|
| A       | FAST TRACK APP | MJRA | 06/2026 |
| Rev     | Description    | By   | Date    |
| Survey  | MAVEN          |      | 12/2025 |
| Design  | MJRA           |      | 04/2026 |
| Drawn   | MJRA           |      | 04/2026 |
| Checked | NDL            |      | 05/2026 |



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Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
EROSION & SEDIMENT  
CONTROL PLAN**

|             |                           |
|-------------|---------------------------|
| Project no. | 298001-R1 SL1             |
| Scale       | 1:4000 @ A3               |
| Cad file    | 298001-R1-C230 EW ESC.DWG |
| Drawing no. | R1-C230                   |
| Rev         | A                         |

RESOURCE CONSENT

DATE: 6/9/25 FILEPATH: F:\MVEN\HAMILTON\6 PROJECTS\298001 - SOUTHERN LINKS 1\STG1\298001-R1-C230 EW ESC.DWG



| Summary of Sediment Control Pond Calculations: |           |       |               |                  |                  |                  |       |                        |                  |                   |                          |               |                |                       |                 |                       |   |              |
|------------------------------------------------|-----------|-------|---------------|------------------|------------------|------------------|-------|------------------------|------------------|-------------------|--------------------------|---------------|----------------|-----------------------|-----------------|-----------------------|---|--------------|
| SRP Pond                                       | Area (m2) | Stage | Sub catchment | Pond Volume (m3) | BASE Dimension x | BASE Dimension Y | Depth | BASE Area in Plan (m2) | Upper Pond Width | Upper Pond Length | Forebay Volume (1m Deep) | Forebay Width | Forebay Length | Total Sed Pond Length | TOTAL AREA (m²) | OUTLET SPECIFICATIONS |   |              |
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| 3A                                             | 35200     | 3     | 3A            | 1056             | 13               | 39               | 1.50  | 515                    | 19               | 47                | 106                      | 19            | 6              | 52                    | 999.08          | 1x1050 RISER WITH     | 3 | TBAR DECANTS |
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| LEGEND |                    |
|--------|--------------------|
|        | EX BDY             |
|        | PROP BDY           |
|        | EX MAJOR CONTOUR   |
|        | EX MINOR CONTOUR   |
|        | EXISTING DRAIN     |
|        | PR MAJOR CONTOUR   |
|        | PR MINOR CONTOUR   |
|        | PROP EXTENT WORK   |
|        | PROP CLEANWATER    |
|        | PROP DIRTYWATER    |
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|        | PROP CATCHMENT BDY |
|        | PROP STOCKPILE     |
|        | PROP DECANT        |
|        | PROP DECANT BAR    |

|         |                |      |         |
|---------|----------------|------|---------|
| A       | FAST TRACK APP | MJRA | 06/2026 |
| Rev     | Description    | By   | Date    |
| Survey  | MAVEN          |      | 12/2025 |
| Design  | MJRA           |      | 04/2026 |
| Drawn   | MJRA           |      | 04/2026 |
| Checked | NDL            |      | 05/2026 |

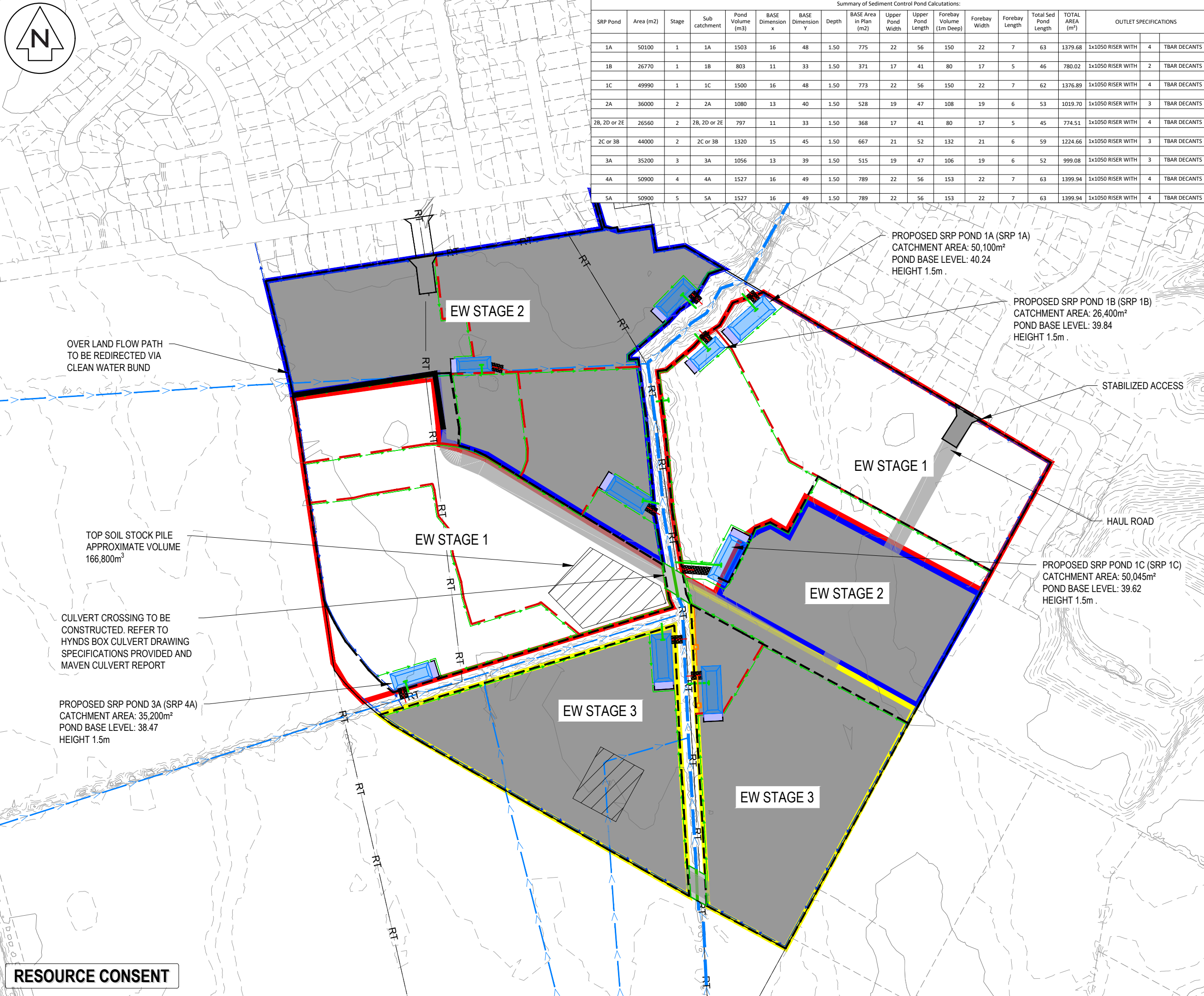


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HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
EROSION & SEDIMENT  
CONTROL PLAN**

|             |                           |
|-------------|---------------------------|
| Project no. | 298001-R1 SL1             |
| Scale       | 1:4000 @ A3               |
| Cad file    | 298001-R1-C230 EW ESC.DWG |
| Drawing no. | R1-C230-1                 |
| Rev         | A                         |



RESOURCE CONSENT



PROPOSED SRP POND 2A (SRP 2A)  
CATCHMENT AREA: 36,000m<sup>2</sup>  
POND BASE LEVEL: 38.93  
HEIGHT 1.5m

PROPOSED SRP POND 2B/2D  
(SRP 2B/2D)  
CATCHMENT AREA:  
26,560m<sup>2</sup>/7,770m<sup>2</sup>/14,150m<sup>2</sup>  
POND BASE LEVEL: 38.02  
HEIGHT 1.5m

PROPOSED SRP POND 2C/3B  
(SRP 2C & 3B)  
CATCHMENT AREA: 20,100m<sup>2</sup>  
/44,000m<sup>2</sup>  
POND BASE LEVEL: 38.24  
HEIGHT 1.5m .

PROPOSED SRP POND 1C (SRP 1C)  
CATCHMENT AREA: 50,045m<sup>2</sup>  
POND BASE LEVEL: 39.62  
HEIGHT 1.5m .

| Summary of Sediment Control Pond Calculations: |           |       |               |                  |                  |                  |       |                        |                  |                   |                          |               |                |                       |                 |                       |   |              |
|------------------------------------------------|-----------|-------|---------------|------------------|------------------|------------------|-------|------------------------|------------------|-------------------|--------------------------|---------------|----------------|-----------------------|-----------------|-----------------------|---|--------------|
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| 3A                                             | 35200     | 3     | 3A            | 1056             | 13               | 39               | 1.50  | 515                    | 19               | 47                | 106                      | 19            | 6              | 52                    | 999.08          | 1x1050 RISER WITH     | 3 | TBAR DECANTS |
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LEGEND

|  |                    |
|--|--------------------|
|  | EX BDY             |
|  | PROP BDY           |
|  | EX MAJOR CONTOUR   |
|  | EX MINOR CONTOUR   |
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|         |                |      |         |
|---------|----------------|------|---------|
| A       | FAST TRACK APP | MJRA | 06/2026 |
| Rev     | Description    | By   | Date    |
| Survey  | MAVEN          |      | 12/2025 |
| Design  | MJRA           |      | 04/2026 |
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| Checked | NDL            |      | 05/2026 |

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RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
EROSION & SEDIMENT  
CONTROL PLAN**

|             |                           |
|-------------|---------------------------|
| Project no. | 298001-R1 SL1             |
| Scale       | 1:4000 @ A3               |
| Cad file    | 298001-R1-C230 EW ESC.DWG |
| Drawing no. | R1-C230-2                 |
| Rev         | A                         |

RESOURCE CONSENT

DATE: 6/9/25 FILEPATH: F:\MAVEN\HAMILTON6 PROJECTS\298001 - SOUTHERN LINKS 1\STG1\DWG\298001-R1-C230 EW ESC.DWG



| Summary of Sediment Control Pond Calculations: |           |       |               |                  |                  |                  |       |                        |                  |                   |                          |               |                |                       |                 |                       |   |              |
|------------------------------------------------|-----------|-------|---------------|------------------|------------------|------------------|-------|------------------------|------------------|-------------------|--------------------------|---------------|----------------|-----------------------|-----------------|-----------------------|---|--------------|
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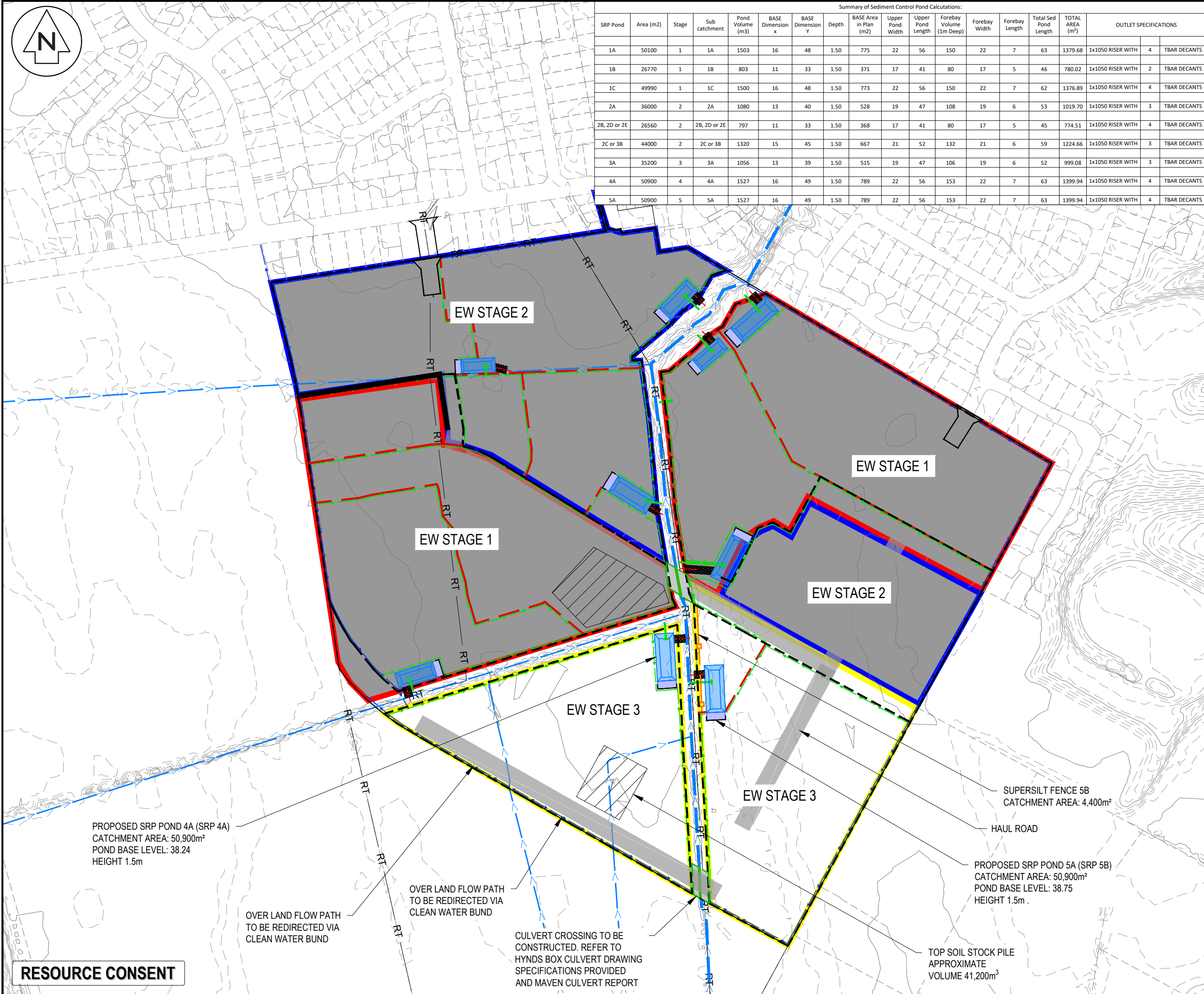
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|        | EX MAJOR CONTOUR   |
|        | EX MINOR CONTOUR   |
|        | EXISTING DRAIN     |
|        | PR MAJOR CONTOUR   |
|        | PR MINOR CONTOUR   |
|        | PROP EXTENT WORK   |
|        | PROP CLEANWATER    |
|        | PROP DIRTYWATER    |
|        | PROP SILT FENCE    |
|        | PROP CATCHMENT BDY |
|        | PROP STOCKPILE     |
|        | PROP DECANT        |
|        | PROP DECANT BAR    |

|         |                |      |         |
|---------|----------------|------|---------|
| A       | FAST TRACK APP | MJRA | 06/2026 |
| Rev     | Description    | By   | Date    |
| Survey  | MAVEN          |      | 12/2025 |
| Design  | MJRA           |      | 04/2026 |
| Drawn   | MJRA           |      | 04/2026 |
| Checked | NDL            |      | 05/2026 |



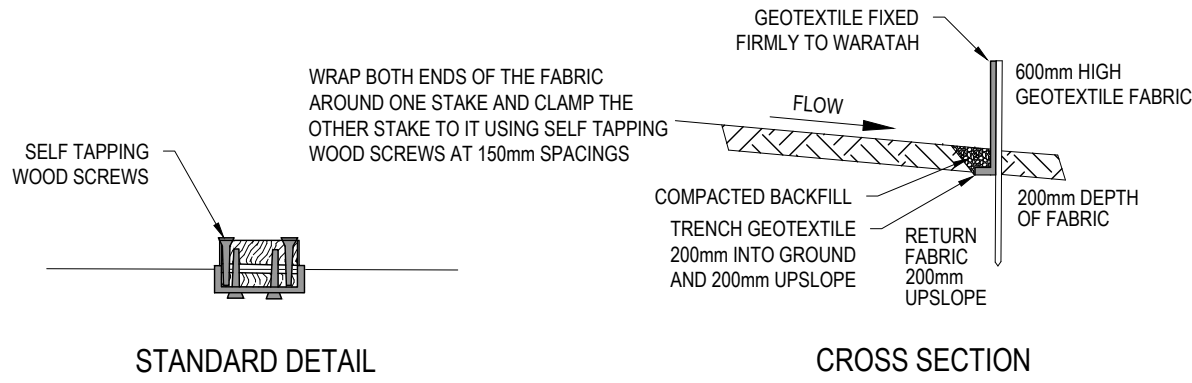
Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

|                                                                      |                           |
|----------------------------------------------------------------------|---------------------------|
| Title<br><b>PROPOSED<br/>EROSION &amp; SEDIMENT<br/>CONTROL PLAN</b> |                           |
| Project no.                                                          | 298001-R1 SL1             |
| Scale                                                                | 1:4000 @ A3               |
| Cad file                                                             | 298001-R1-C230 EW ESC.DWG |
| Drawing no.                                                          | R1-C230-3                 |
| Rev                                                                  | A                         |

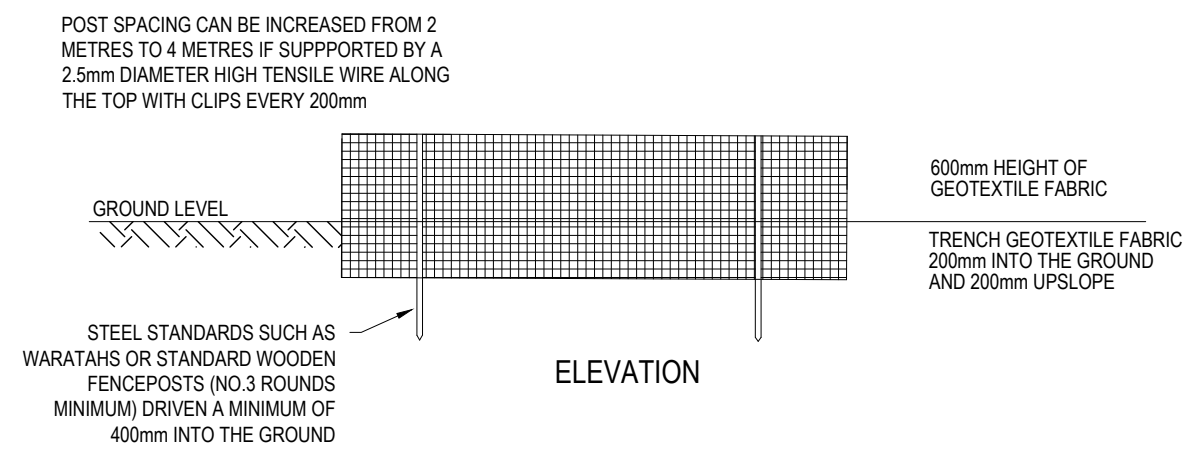


RESOURCE CONSENT

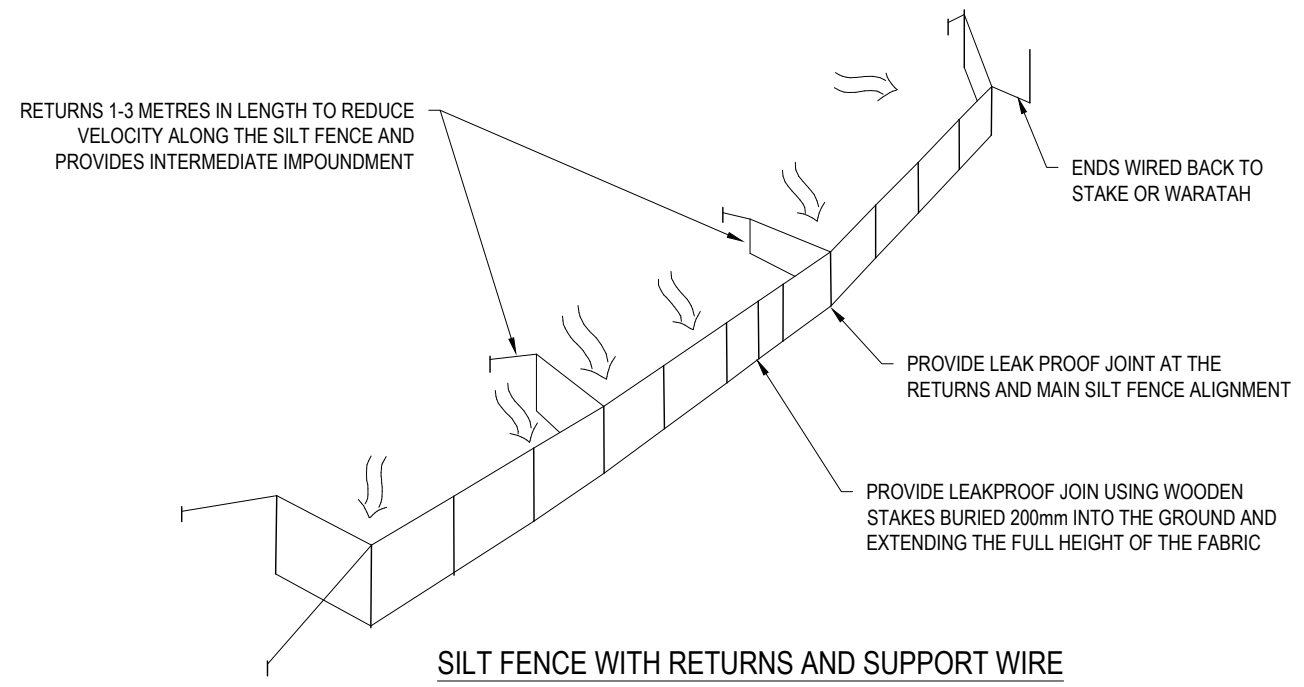
DATE: 9/2/25 FILEPATH: F:\MAVEN\HAMILTON6 PROJECTS\298001 - SOUTHERN LINKS 1\STG1\R1\DWG\298001-R1-C240 EW ESC DETAILS.DWG



FABRIC JOIN



ELEVATION



SILT FENCE WITH RETURNS AND SUPPORT WIRE

RESOURCE CONSENT

|         |                |     |         |
|---------|----------------|-----|---------|
|         |                |     |         |
|         |                |     |         |
|         |                |     |         |
| A       | FAST TRACK APP | MKS | 06/2026 |
| Rev     | Description    | By  | Date    |
|         |                | By  | Date    |
| Survey  | MAVEN          |     | 06/2025 |
| Design  | MKS            |     | 11/2025 |
| Drawn   | MKS            |     | 11/2025 |
| Checked | DJM            |     | 11/2025 |

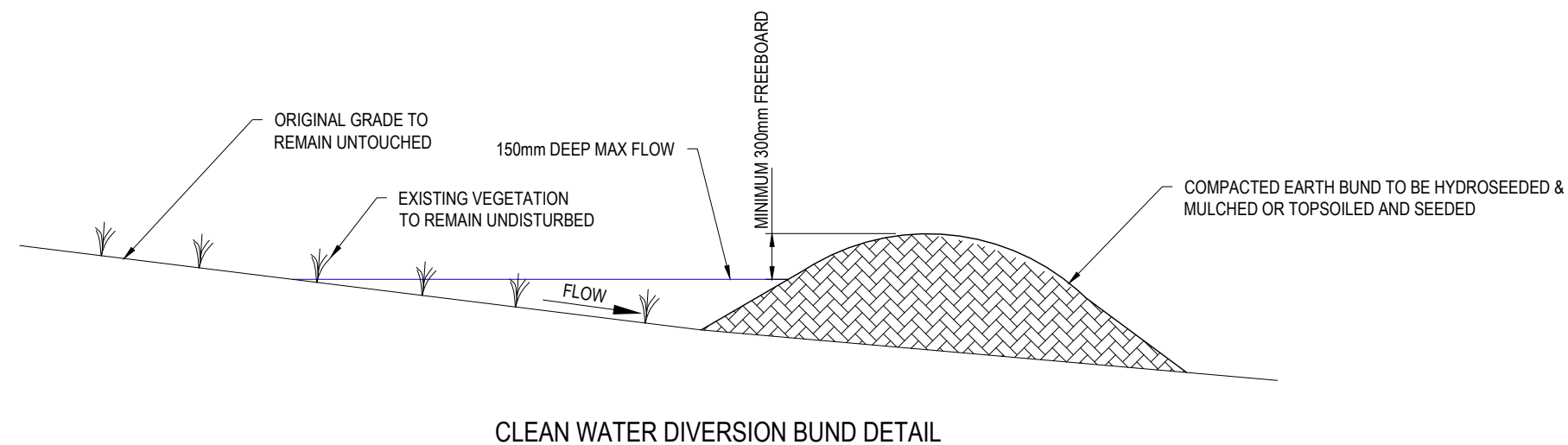
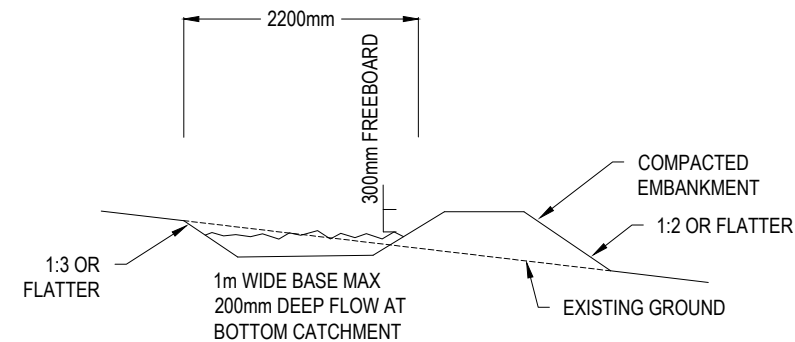
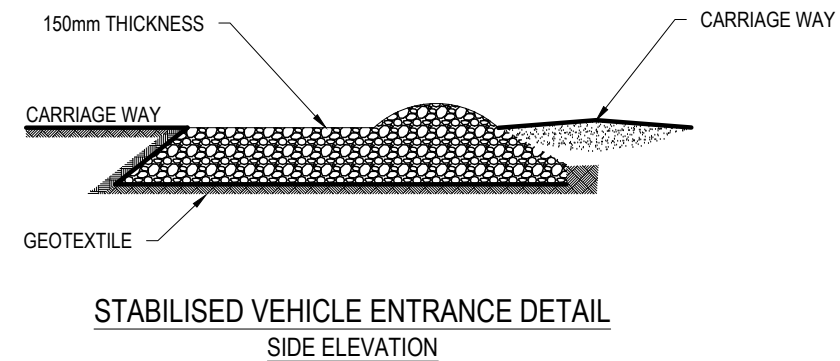
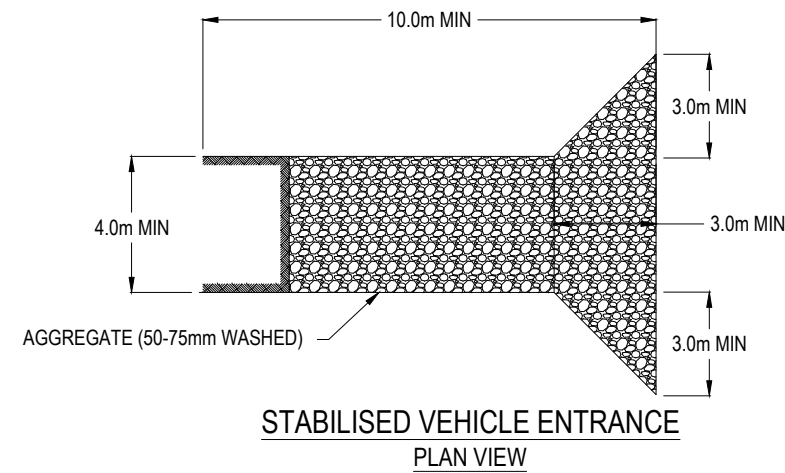


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Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
EROSION & SEDIMENT  
CONTROL DETAILS**

|             |                                   |     |          |
|-------------|-----------------------------------|-----|----------|
| Project no. | 298001-R1 SL1                     |     |          |
| Scale       | N.T.S.                            |     |          |
| Cad file    | 298001-R1-C240 EW ESC DETAILS.DWG |     |          |
| Drawing no. | R1-C240-1                         | Rev | <b>A</b> |



|         |                |     |         |
|---------|----------------|-----|---------|
|         |                |     |         |
|         |                |     |         |
|         |                |     |         |
| A       | FAST TRACK APP | MKS | 06/2026 |
| Rev     | Description    | By  | Date    |
|         |                | By  | Date    |
| Survey  | MAVEN          |     | 06/2025 |
| Design  | MKS            |     | 11/2025 |
| Drawn   | MKS            |     | 11/2025 |
| Checked | DJM            |     | 11/2025 |

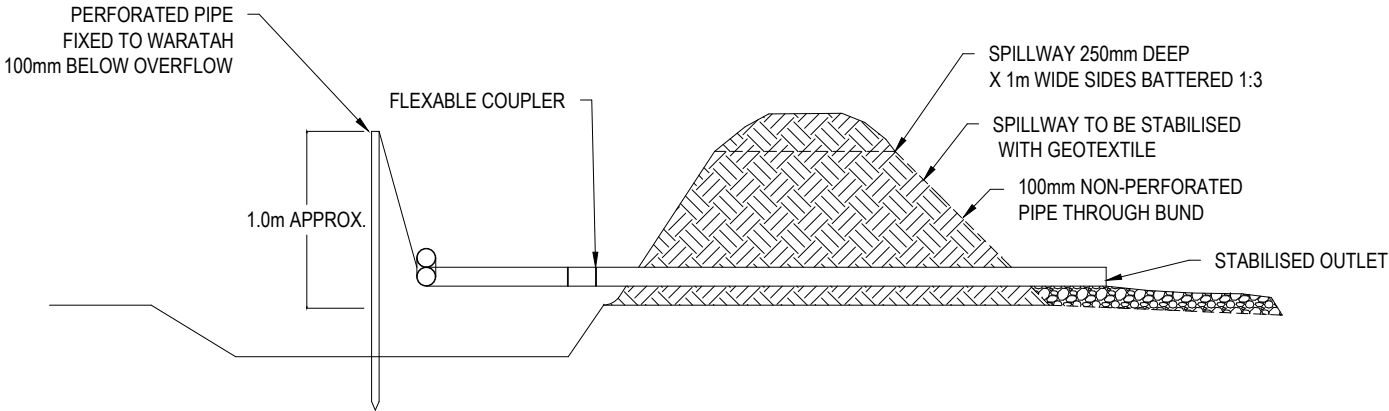


Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

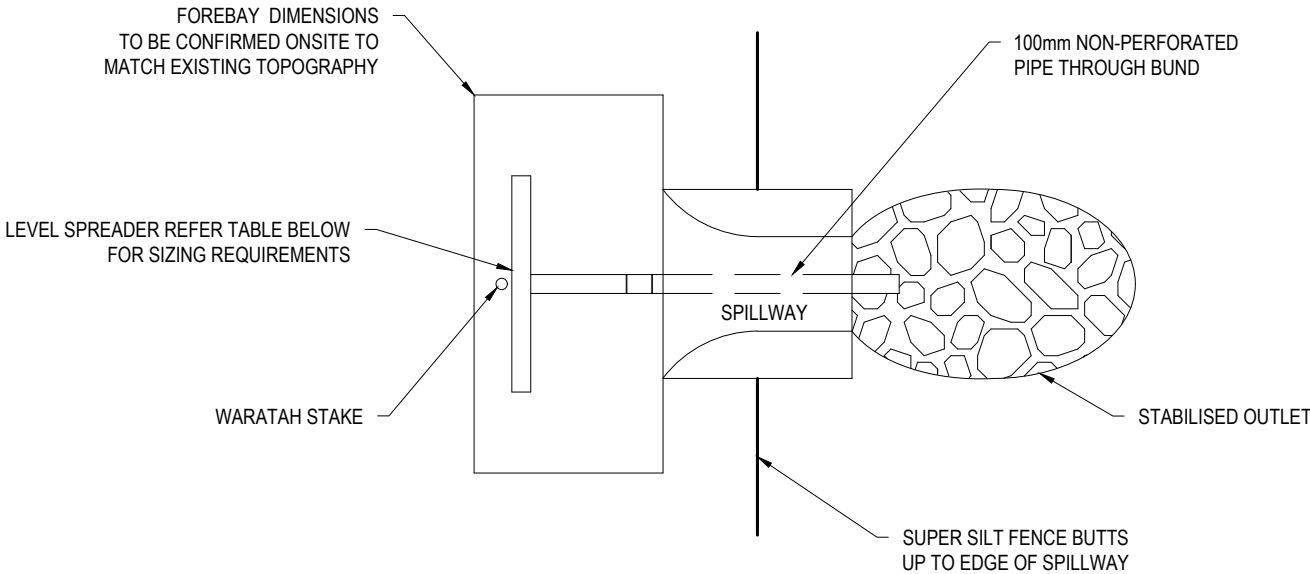
Title  
**PROPOSED  
EROSION & SEDIMENT  
CONTROL DETAILS**

|             |                                   |
|-------------|-----------------------------------|
| Project no. | 298001-R1 SL1                     |
| Scale       | N.T.S.                            |
| Cad file    | 298001-R1-C240 EW ESC DETAILS.DWG |
| Drawing no. | R1-C240-2                         |
| Rev         | A                                 |

**RESOURCE CONSENT**



EARTH BUND DECANT DETAIL A  
N.T.S



DECANT PLAN VIEW  
N.T.S

| LEVEL SPREADER DESIGN CRITERIA (20 YEAR STORM EVENT) |                    |              |                  |                |
|------------------------------------------------------|--------------------|--------------|------------------|----------------|
| DESIGN FLOW<br>(m <sup>3</sup> /sec)                 | INLET WIDTH<br>(m) | DEPTH<br>(m) | END WIDTH<br>(m) | LENGTH<br>(mm) |
| 0-0.3                                                | 3                  | 150          | 1                | 3              |
| 0.3-0.6                                              | 5                  | 180          | 1                | 7              |
| 0.6-0.9                                              | 7                  | 220          | 1                | 10             |

RESOURCE CONSENT

|         |                |     |         |
|---------|----------------|-----|---------|
|         |                |     |         |
|         |                |     |         |
|         |                |     |         |
| A       | FAST TRACK APP | MKS | 06/2026 |
| Rev     | Description    | By  | Date    |
|         |                | By  | Date    |
| Survey  | MAVEN          |     | 06/2025 |
| Design  | MKS            |     | 11/2025 |
| Drawn   | MKS            |     | 11/2025 |
| Checked | DJM            |     | 11/2025 |

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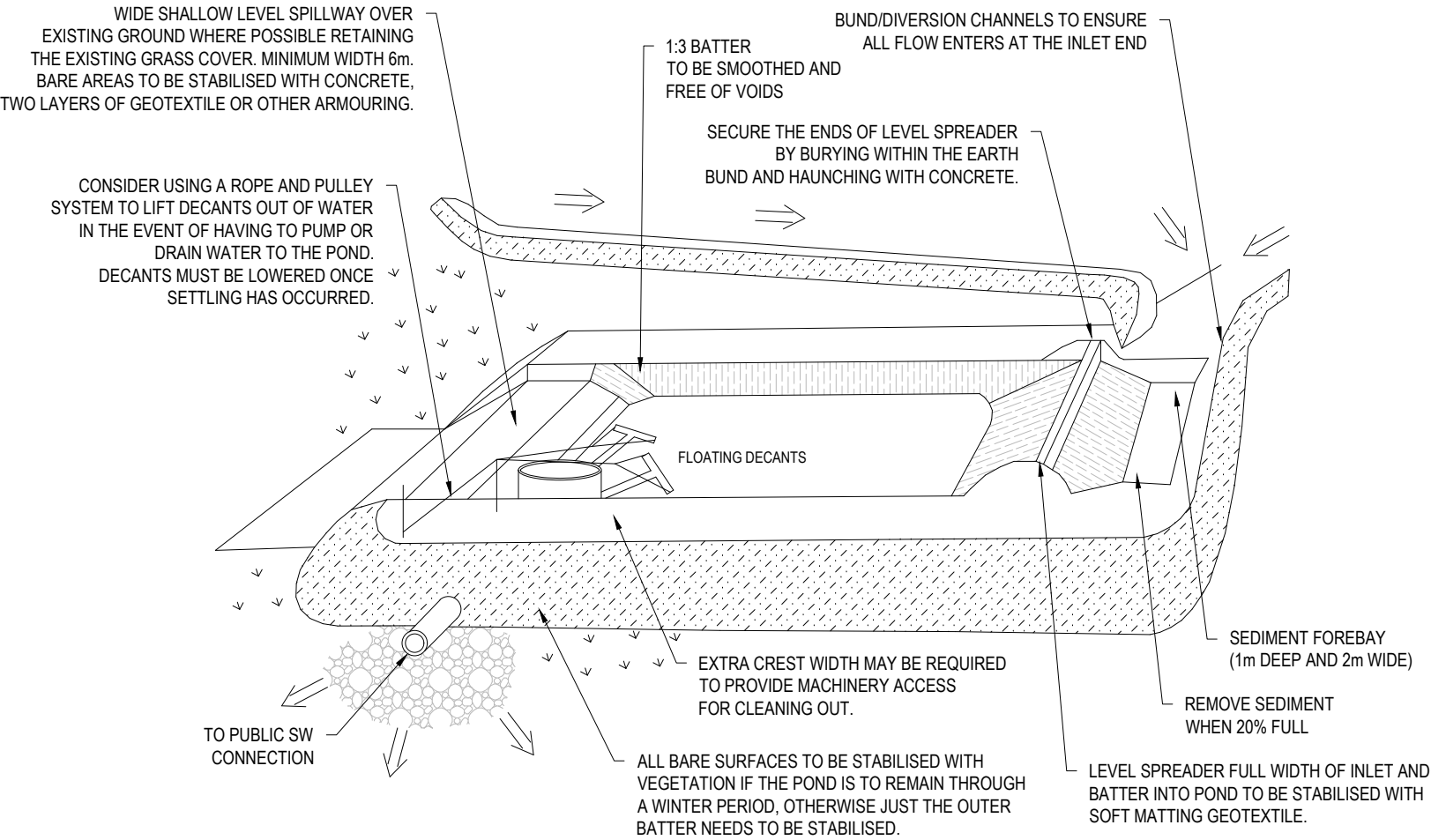
Level 1 286 Victoria Street, Hamilton

New Zealand

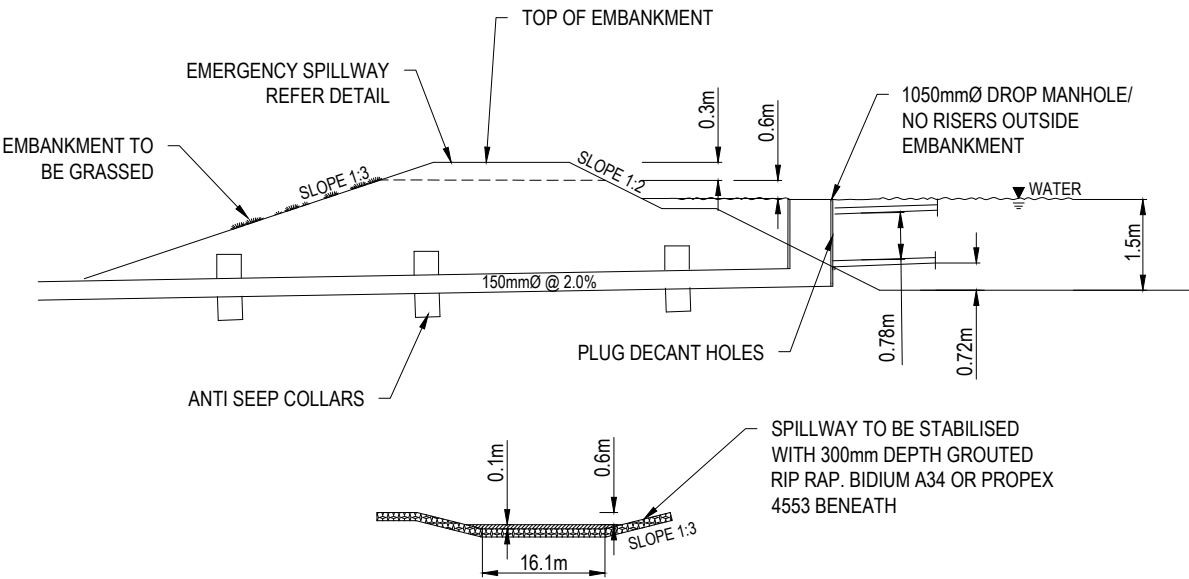
Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
EROSION & SEDIMENT  
CONTROL DETAILS**

|             |                                   |
|-------------|-----------------------------------|
| Project no. | 298001-R1 SL1                     |
| Scale       | N.T.S.                            |
| Cad file    | 298001-R1-C240 EW ESC DETAILS.DWG |
| Drawing no. | R1-C240-3                         |
| Rev         | A                                 |



CROSS SECTION A-A OF SEDIMENT TREATMENT POND



EMERGENCY SPILLWAY

|                                                                                                                                                                                                                                        |                                   |     |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----|---------|
|                                                                                                                                                                                                                                        |                                   |     |         |
|                                                                                                                                                                                                                                        |                                   |     |         |
|                                                                                                                                                                                                                                        |                                   |     |         |
| A                                                                                                                                                                                                                                      | FAST TRACK APP                    | PK  | 06/2026 |
| Rev                                                                                                                                                                                                                                    | Description                       | By  | Date    |
|                                                                                                                                                                                                                                        |                                   | By  | Date    |
| Survey                                                                                                                                                                                                                                 | MAVEN                             |     | 06/2025 |
| Design                                                                                                                                                                                                                                 | MKS                               |     | 11/2025 |
| Drawn                                                                                                                                                                                                                                  | MKS                               |     | 11/2025 |
| Checked                                                                                                                                                                                                                                | DJM                               |     | 11/2025 |
| <div><div><div>M</div><div>MAVEN</div></div><div><div>Maven Waikato</div><div>07 242 0601</div><div>info@maven.co.nz</div><div>www.maven.co.nz</div><div>Level 1 286 Victoria Street, Hamilton</div><div>New Zealand</div></div></div> |                                   |     |         |
| Project                                                                                                                                                                                                                                |                                   |     |         |
| SOUTHERN LINKS 1                                                                                                                                                                                                                       |                                   |     |         |
| RESIDENTIAL STAGE 1                                                                                                                                                                                                                    |                                   |     |         |
| HAMILTON, WAIKATO                                                                                                                                                                                                                      |                                   |     |         |
| FOR                                                                                                                                                                                                                                    |                                   |     |         |
| SAXBY RD JV LIMITED                                                                                                                                                                                                                    |                                   |     |         |
| Title                                                                                                                                                                                                                                  |                                   |     |         |
| PROPOSED                                                                                                                                                                                                                               |                                   |     |         |
| EROSION & SEDIMENT                                                                                                                                                                                                                     |                                   |     |         |
| CONTROL DETAILS                                                                                                                                                                                                                        |                                   |     |         |
| Project no.                                                                                                                                                                                                                            | 298001-R1 SL1                     |     |         |
| Scale                                                                                                                                                                                                                                  | N.T.S.                            |     |         |
| Cad file                                                                                                                                                                                                                               | 298001-R1-C240 EW ESC DETAILS.DWG |     |         |
| Drawing no.                                                                                                                                                                                                                            | R1-C240-4                         | Rev | A       |



- The maximum retained height shall be as specified on the drawing and shall not be exceeded unless approved by Maven in writing.
- The concrete encasement shall be adequately vibrated with a pencil vibrator to avoid "honey combing".
- Excavations for foundations shall be taken out by augering to the dimensions detailed with all surplus soil being disposed of away from the site.
- Allowance shall be made in positioning augered holes for the slope of the wall and for concrete surround to poles.
- Driving of poles is not acceptable as an alternative to auguring.
- The Contractor shall verify the position of all underground services and confirm that there are no clashes prior to construction.
- The Contractor shall refer to Maven as soon as possible for further instruction should any unforeseen circumstance or abnormal site condition be encountered during construction.
- Inspections are required by Geotechnical Engineer during construction to confirm assumed ground conditions.
- Maven shall inspect and approve the founding depth and condition of all pile holes prior to installation of the poles and pouring of concrete.
- Any groundwater and associated sediment/sludge within the pile holes shall be removed prior to installing the timber poles and the pouring of concrete.
- If there is potential for hole collapse e.g. due to weak ground condition or groundwater ingress, it is recommended that alternate holes be drilled initially and backfilled with concrete prior to the drilling of the remaining holes.
- Concrete encasement to extend to toe of permanent retaining wall i.e. post future backfilling in front of wall.
- Building Consent to be done by others.

- Notes
- All works to be in accordance with Matamata-Piako District Council standards.
  - All existing and proposed services shall be marked and protected during construction works.
  - The extent of excavation required shall be marked out on the ground having regard to the positions of poles, working space for construction, backfill and drainage provisions.
  - The retaining wall should be backfilled to its full height with 'no fines' concrete, fully wrapped by a separation geotextile Bidim A14 or approved similar.
  - Timber pole wall
    - All timber poles shall be H5 treated radiata pine in accordance with NZS 3603 unless otherwise specified.
    - All timber poles shall have concrete encasement below the ground level with a minimum of 75mm side cover. The characteristic compressive strength of the concrete encasement shall be  $f_c = 20$  MPa unless otherwise noted.
    - Poles are expressed as a minimum small end diameter  $\emptyset$  (SED) and shall be installed small end upwards. Cut ends shall not be put into the ground.
    - The timber railing shall be H4 treated Radiata Pine and shall be fixed to the rear of the poles with CCA resistant coated screws or nails. Rails shall have minimum 10mm gap between them.
    - Cutting of timbers shall be avoided wherever possible. If cutting is necessary, the exposed surfaces shall be flooded with a copper naphthenate type wood preservative.

Legend

|     |                         |
|-----|-------------------------|
| --- | EX BDY                  |
| --- | PROP BDY                |
| --- | RETAINING WALL 0.0-1.0m |
| --- | RETAINING WALL 1.0-1.5m |
| --- | RETAINING WALL 1.5-2.0m |
| --- | RETAINING WALL 2.0-2.5m |

|         |                |      |         |
|---------|----------------|------|---------|
| A       | FAST TRACK APP | MJRA | 06/2026 |
| Rev     | Description    | By   | Date    |
|         |                | By   | Date    |
| Survey  | MAVEN          |      | 06/2025 |
| Design  | MJRA           |      | 04/2026 |
| Drawn   | MJRA           |      | 04/2026 |
| Checked | MKJ/DJM        |      | 04/2026 |



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Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
RETAINING WALL  
OVERVIEW PLAN**

|             |                                   |     |   |
|-------------|-----------------------------------|-----|---|
| Project no. | 298001-R1 SL1                     |     |   |
| Scale       | 1:4000 @ A3                       |     |   |
| Cad file    | 298001-R1-C250 RETAINING WALL.DWG |     |   |
| Drawing no. | R1-C250                           | Rev | A |

**RESOURCE CONSENT**



Notes  
1. See plan C250 for all notes.

| Legend |                         |
|--------|-------------------------|
|        | EX BDY                  |
|        | PROP BDY                |
|        | RETAINING WALL 0.0-1.0m |
|        | RETAINING WALL 1.0-1.5m |
|        | RETAINING WALL 1.5-2.0m |
|        | RETAINING WALL 2.0-2.5m |

|         |                |      |         |
|---------|----------------|------|---------|
| A       | FAST TRACK APP | MJRA | 06/2026 |
| Rev     | Description    | By   | Date    |
| Survey  | MAVEN          |      | 06/2025 |
| Design  | MJRA           |      | 04/2026 |
| Drawn   | MJRA           |      | 04/2026 |
| Checked | MKJ/DJM        |      | 04/2026 |



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Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

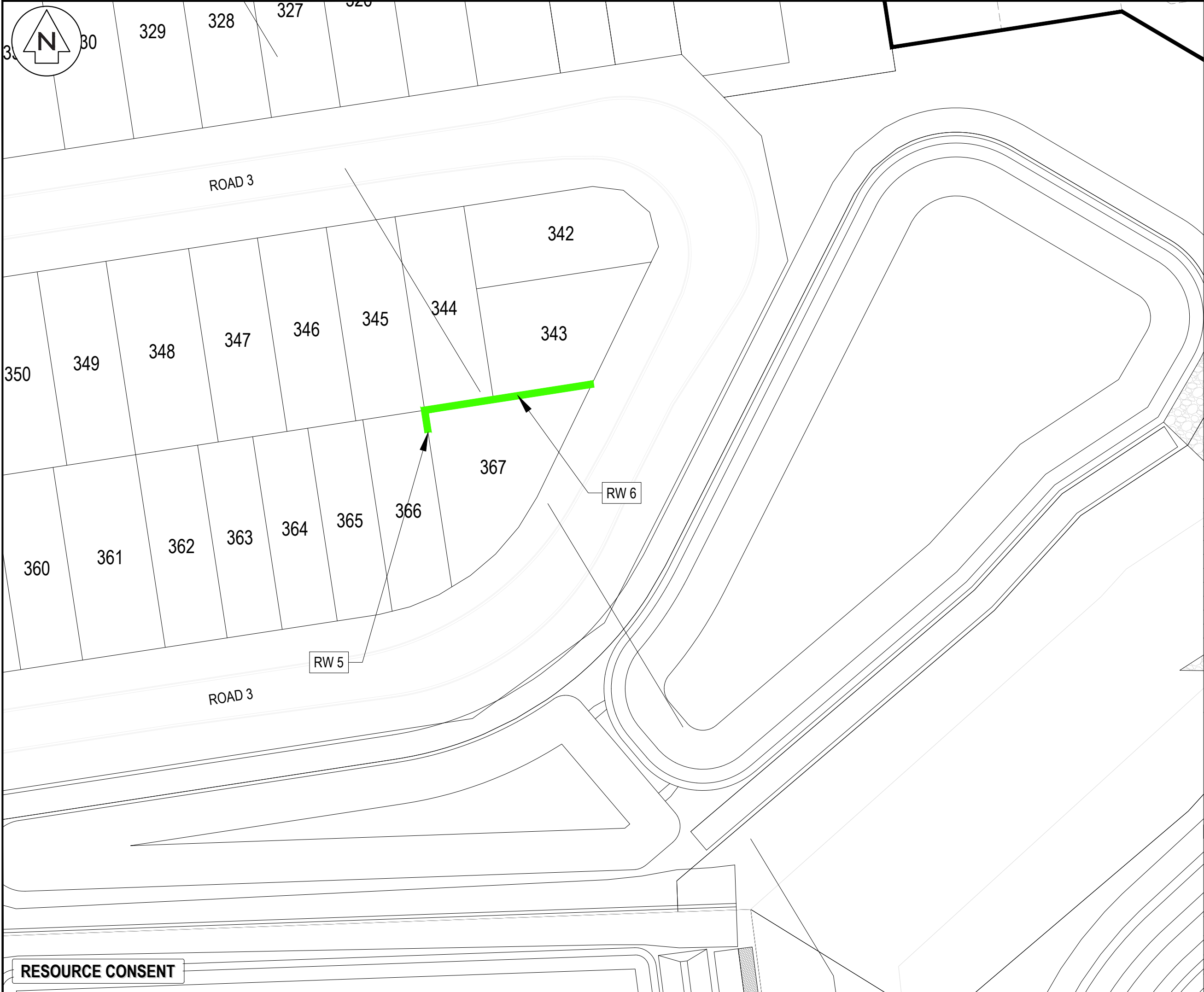
Title  
**PROPOSED  
RETAINING WALL  
PLAN**

|             |                                   |
|-------------|-----------------------------------|
| Project no. | 298001-R1 SL1                     |
| Scale       | 1:1000 @ A3                       |
| Cad file    | 298001-R1-C250 RETAINING WALL.DWG |
| Drawing no. | R1-C250-1                         |
| Rev         | A                                 |

**RW 1**  
**NOTE:** BUILD BACK OF  
RETAINING WALL ON THE  
EDGE OF JOAL & LOT  
BOUNDARY. NO NEED TO  
APPLY THE 0.5m SETBACK  
SPECIFIED ON THE RETAINING  
WALL TYPICAL SECTION

**RESOURCE CONSENT**

DATE: 7/9/25 FILEPATH: F:\MVEN\HAMILTON6 PROJECTS\298001 - SOUTHERN LINKS 1\STG1\DWG\298001-R1-C250 RETAINING WALL.DWG



Notes

1. See plan C250 for all notes.

Legend

---

EX BDY

---

PROP BDY

---

RETAINING WALL 0.0-1.0m

---

RETAINING WALL 1.0-1.5m

---

RETAINING WALL 1.5-2.0m

---

RETAINING WALL 2.0-2.5m

|         |                |      |         |
|---------|----------------|------|---------|
|         |                |      |         |
|         |                |      |         |
|         |                |      |         |
| A       | FAST TRACK APP | MJRA | 06/2026 |
| Rev     | Description    | By   | Date    |
|         |                | By   | Date    |
| Survey  | MAVEN          |      | 06/2025 |
| Design  | MJRA           |      | 04/2026 |
| Drawn   | MJRA           |      | 04/2026 |
| Checked | MKJ/DJM        |      | 04/2026 |

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Project

**SOUTHERN LINKS 1**

**RESIDENTIAL STAGE 1**

**HAMILTON, WAIKATO**

**FOR**

**SAXBY RD JV LIMITED**

Title

**PROPOSED**

**RETAINING WALL**

**PLAN**

|             |                                   |     |   |
|-------------|-----------------------------------|-----|---|
| Project no. | 298001-R1 SL1                     |     |   |
| Scale       | 1:500 @ A3                        |     |   |
| Cad file    | 298001-R1-C250 RETAINING WALL.DWG |     |   |
| Drawing no. | R1-C250-2                         | Rev | A |

DATE: 7/9/26 FILEPATH: F:\MVEN\HAMILTON6 - PROJECTS\298001 - SOUTHERN LINKS 1\STG1\R1\C250 RETAINING WALL.DWG

RESOURCE CONSENT



Notes  
1. See plan C250 for all notes.

- Legend
- EX BDY
  - PROP BDY
  - RETAINING WALL 0.0-1.0m
  - RETAINING WALL 1.0-1.5m
  - RETAINING WALL 1.5-2.0m
  - RETAINING WALL 2.0-2.5m

|         |                |         |         |
|---------|----------------|---------|---------|
| A       | FAST TRACK APP | MJRA    | 06/2026 |
| Rev     | Description    | By      | Date    |
| Survey  | MAVEN          | 06/2025 |         |
| Design  | MJRA           | 04/2026 |         |
| Drawn   | MJRA           | 04/2026 |         |
| Checked | MKJ/DJM        | 04/2026 |         |



Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

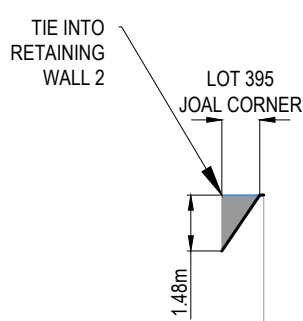
Title  
**PROPOSED  
RETAINING WALL  
PLAN**

|             |                                   |
|-------------|-----------------------------------|
| Project no. | 298001-R1 SL1                     |
| Scale       | 1:500 @ A3                        |
| Cad file    | 298001-R1-C250 RETAINING WALL.DWG |
| Drawing no. | R1-C250-3                         |
| Rev         | A                                 |

RW 8  
**NOTE: BUILD BACK OF RETAINING  
WALL ON THE EDGE OF JOAL &  
LOT BOUNDARY. NO NEED TO  
APPLY THE 0.5m SETBACK FROM  
EXISTING LOT BOUNDARY AS  
SPECIFIED ON THE RETAINING  
WALL TYPICAL SECTION**

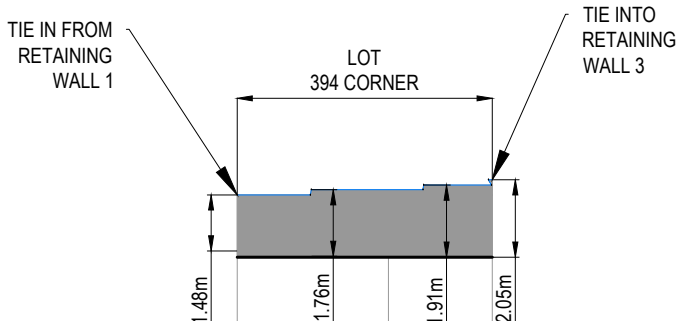
RESOURCE CONSENT

DATE: 7/9/25 FILEPATH: F:\MAVEN\HAMILTON\6 PROJECTS\298001 - SOUTHERN LINKS 1\STG1\DWG\298001-R1-C250 RETAINING WALL.DWG



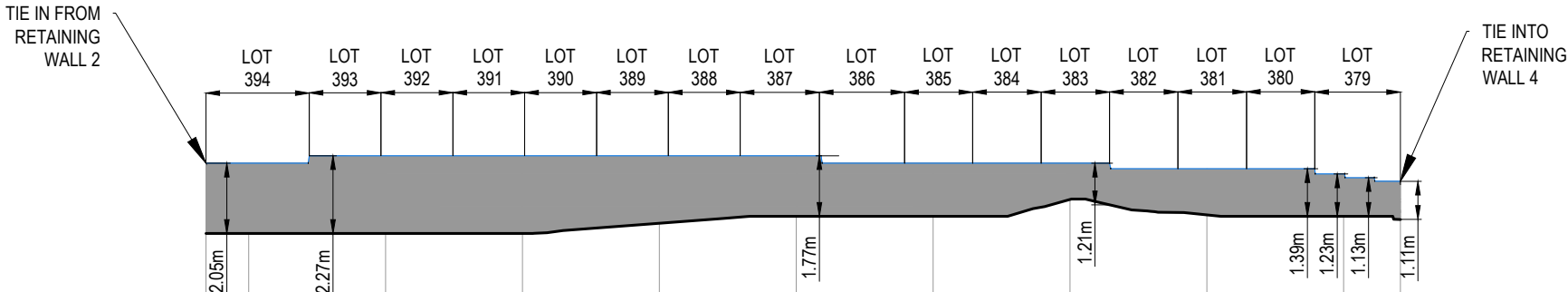
|              |           |
|--------------|-----------|
| DATUM 36.00m |           |
| TOP OF WALL  |           |
| TOE OF WALL  | 41.38     |
| WALL HEIGHT  |           |
| CHAINAGE     | 0.00 5.60 |

Retaining Wall 1  
SCALE: HORI 1:1000 VERT 1:200



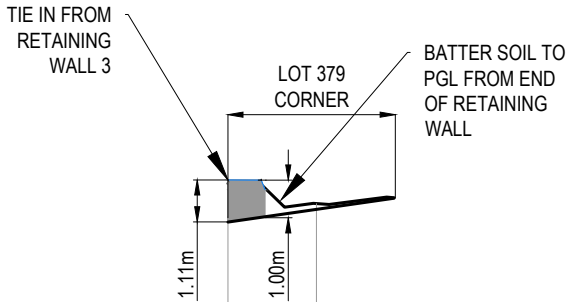
|              |                   |
|--------------|-------------------|
| DATUM 36.00m |                   |
| TOP OF WALL  | 41.38 41.52 41.78 |
| TOE OF WALL  | 39.74 39.74 39.74 |
| WALL HEIGHT  | 1.65 1.78 2.05    |
| CHAINAGE     | 0.00 20.00 33.74  |

Retaining Wall 2  
SCALE: HORI 1:1000 VERT 1:200



|              |                                                                          |
|--------------|--------------------------------------------------------------------------|
| DATUM 36.00m |                                                                          |
| TOP OF WALL  | 41.78 41.78 42.00 42.00 42.00 42.00 41.78 41.78 41.62 41.47 41.25        |
| TOE OF WALL  | 39.74 39.74 39.74 39.74 40.03 40.24 40.24 40.28 40.24 40.14 40.14        |
| WALL HEIGHT  | 2.05 2.05 2.27 2.27 1.97 1.77 1.55 1.06 1.34 1.23 1.11                   |
| CHAINAGE     | 33.74 40.00 60.00 80.00 100.00 120.00 140.00 160.00 180.00 200.00 208.29 |

Retaining Wall 3  
SCALE: HORI 1:1000 VERT 1:200



|              |                      |
|--------------|----------------------|
| DATUM 36.00m |                      |
| TOP OF WALL  | 41.25 40.48 41.25    |
| TOE OF WALL  | 40.14 40.48 40.14    |
| WALL HEIGHT  | 1.11 1.11 1.11       |
| CHAINAGE     | 208.29 220.00 237.97 |

Retaining Wall 4  
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

Notes  
1. See plan C250 for all notes.

|         |             |                |      |         |
|---------|-------------|----------------|------|---------|
| A       |             | FAST TRACK APP | MJRA | 06/2026 |
| Rev     | Description | By             | Date |         |
| Survey  | MAVEN       | 06/2025        |      |         |
| Design  | MJRA        | 04/2026        |      |         |
| Drawn   | MJRA        | 04/2026        |      |         |
| Checked | MKJ/DJM     | 04/2026        |      |         |

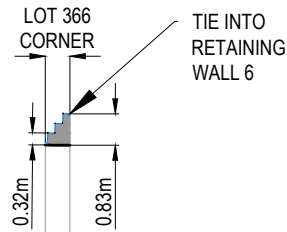


Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
RETAINING WALL  
LONGSECTION**

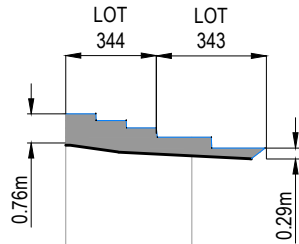
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|-------------|-----------------------------------|
| Project no. | 298001-R1 SL1                     |
| Scale       | AS SHOWN                          |
| Cad file    | 298001-R1-C250 RETAINING WALL.DWG |
| Drawing no. | R1-C250-4                         |
| Rev         | A                                 |

DATE: 7/9/26 FILE PATH: F:\MAVEN\HAMILTON\6 PROJECTS\298001-R1-C250 RETAINING WALL.DWG



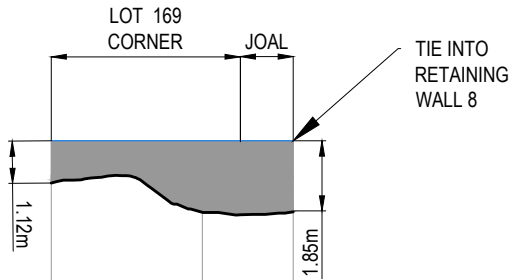
|              |             |
|--------------|-------------|
| DATUM 36.00m |             |
| TOP OF WALL  | 39.74 40.57 |
| TOE OF WALL  | 39.74 39.74 |
| WALL HEIGHT  | 0.00 0.83   |
| CHAINAGE     | 0.00 3.29   |

Retaining Wall 5  
SCALE: HORI 1:1000 VERT 1:200



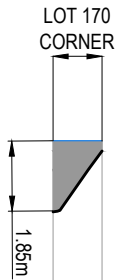
|              |                  |
|--------------|------------------|
| DATUM 36.00m |                  |
| TOP OF WALL  | 40.57 39.95      |
| TOE OF WALL  | 39.74 39.45      |
| WALL HEIGHT  | 0.83 0.49        |
| CHAINAGE     | 3.29 20.00 29.86 |

Retaining Wall 6  
SCALE: HORI 1:1000 VERT 1:200



|              |                   |
|--------------|-------------------|
| DATUM 36.00m |                   |
| TOP OF WALL  | 40.91 40.91 40.91 |
| TOE OF WALL  | 39.79 39.03 39.03 |
| WALL HEIGHT  | 1.12 1.89 1.88    |
| CHAINAGE     | 0.00 20.00 32.02  |

Retaining Wall 7  
SCALE: HORI 1:1000 VERT 1:200



|              |             |
|--------------|-------------|
| DATUM 36.00m |             |
| TOP OF WALL  | 40.91 40.91 |
| TOE OF WALL  | 39.03 40.65 |
| WALL HEIGHT  | 1.88 0.27   |
| CHAINAGE     | 32.02 38.51 |

Retaining Wall 8  
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

Notes  
1. See plan C250 for all notes.

|         |                |         |         |
|---------|----------------|---------|---------|
|         |                |         |         |
|         |                |         |         |
|         |                |         |         |
| A       | FAST TRACK APP | MJRA    | 06/2026 |
| Rev     | Description    | By      | Date    |
|         | By             | Date    |         |
| Survey  | MAVEN          | 06/2025 |         |
| Design  | MJRA           | 04/2026 |         |
| Drawn   | MJRA           | 04/2026 |         |
| Checked | MKJ/DJM        | 04/2026 |         |

M

MAVEN

Maven Waikato

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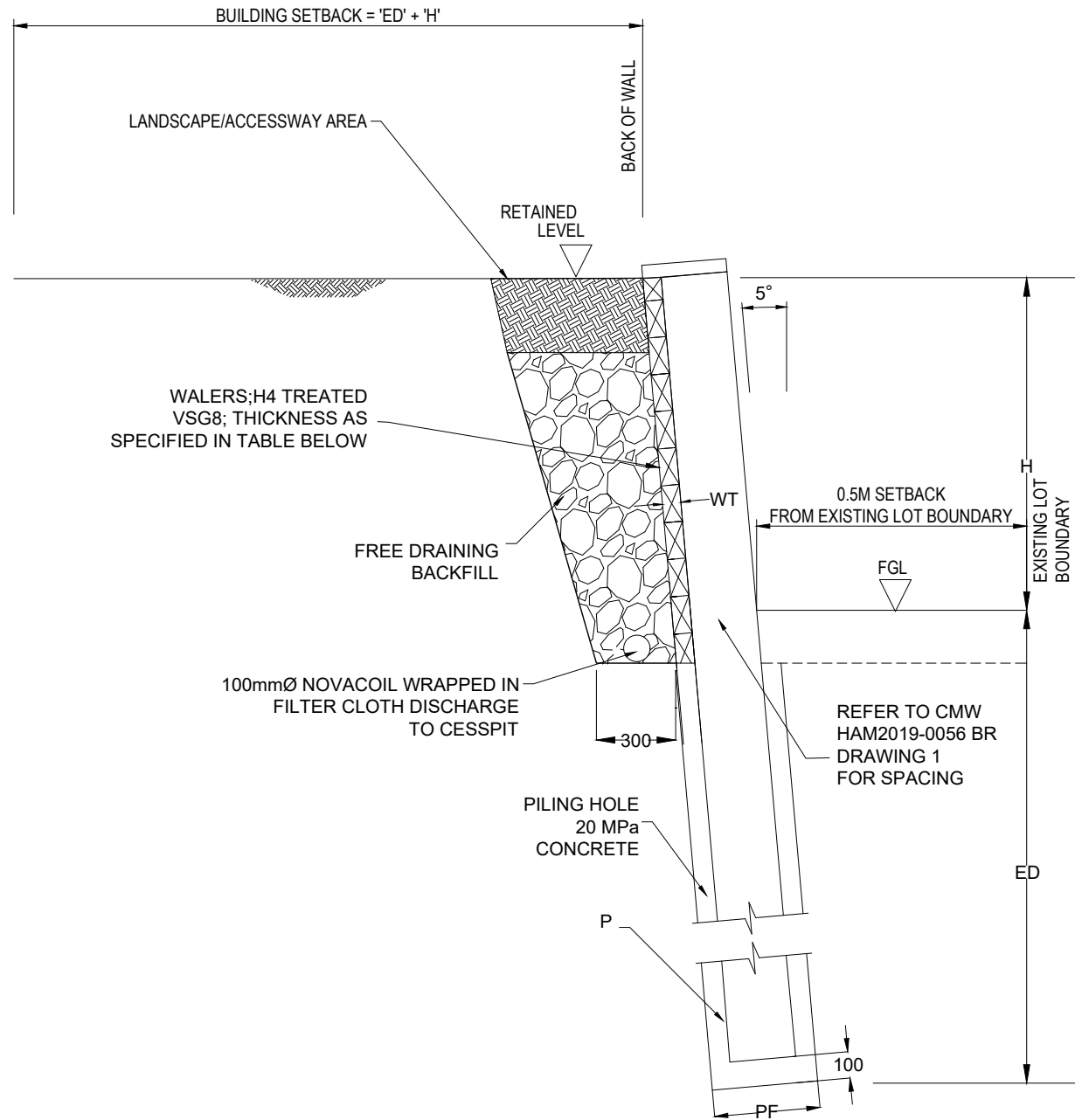
New Zealand

Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
RETAINING WALL  
LONGSECTION**

|             |                                   |     |   |
|-------------|-----------------------------------|-----|---|
| Project no. | 298001-R1 SL1                     |     |   |
| Scale       | AS SHOWN                          |     |   |
| Cad file    | 298001-R1-C250 RETAINING WALL.DWG |     |   |
| Drawing no. | R1-C250-5                         | Rev | A |

DATE: 7/9/25 FILEPATH: F:\MAVEN\HAMILTON\6. PROJECTS\298001 - SOUTHERN LINKS 1\STG R1\DWG\298001-R1-C250 RETAINING WALL.DWG



| RETAINING HEIGHT 'H' 'm' MAX. | MINIMUM SMALL END DIA (H5 TREATED) IN 'mm' | PILE FOOTING Ø 'PF' IN 'mm' | MIN. EMBEDMENT DEPTH 'ED' IN 'm' | SPACING 'm' | WALER THICKNESS WT 'mm' |
|-------------------------------|--------------------------------------------|-----------------------------|----------------------------------|-------------|-------------------------|
| 1.00                          | 200                                        | 350                         | 1.6                              | 1.0         | (<1.5m) 45              |
| 1.50                          | 275                                        | 425                         | 2.1                              | 1.0         | (<1.5m) 45              |
| 2.00                          | 325                                        | 475                         | 2.7                              | 1.0         | (>1.5m) 90              |
| 2.30                          | 350                                        | 500                         | 3.0                              | 1.0         | (>1.5m) 90              |

NOTES:

- 1) RETAINING WALL DESIGNED FOR BACK SLOPE = 0° MAX; SURCHARGE = 12 kPa
- 2) DESIGN PARAMETERS FROM CMW GEOTECHNICAL INVESTIGATION REPORT. SOIL DENSITY = 17.0 kN/m³, ANGLE OF SOIL FRICTION = 28°, Su = 60 kPa.
- 3) WALER SHALL BE CONTINUOUS OVER MINIMUM 2 SPANS.

6. The maximum retained height shall be as specified on the drawing and shall not be exceeded unless approved by Maven in writing.
7. The concrete encasement shall be adequately vibrated with a pencil vibrator to avoid "honey combing".
8. Excavations for foundations shall be taken out by augering to the dimensions detailed with all surplus soil being disposed of away from the site.
9. Allowance shall be made in positioning augered holes for the slope of the wall and for concrete surround to poles.
10. Driving of poles is not acceptable as an alternative to auguring.
11. The Contractor shall verify the position of all underground services and confirm that there are no clashes prior to construction.
12. The Contractor shall refer to Maven as soon as possible for further instruction should any unforeseen circumstance or abnormal site condition be encountered during construction.
13. Inspections are required by Geotechnical Engineer during construction to confirm assumed ground conditions.
14. Maven shall inspect and approve the founding depth and condition of all pile holes prior to installation of the poles and pouring of concrete.
15. Any groundwater and associated sediment/sludge within the pile holes shall be removed prior to installing the timber poles and the pouring of concrete.
16. If there is potential for hole collapse e.g. due to weak ground condition or groundwater ingress, it is recommended that alternate holes be drilled initially and backfilled with concrete prior to the drilling of the remaining holes.
17. Concrete encasement to extend to toe of permanent retaining wall i.e. post future backfilling in front of wall.
18. Building Consent to be done by others.

Notes

1. All works to be in accordance with Matamata-Piako District Council standards.
2. All existing and proposed services shall be marked and protected during construction works.
3. The extent of excavation required shall be marked out on the ground having regard to the positions of poles, working space for construction, backfill and drainage provisions.
4. The retaining wall should be backfilled to its full height with 'no fines' concrete, fully wrapped by a separation geotextile Bidim A14 or approved similar.
5. Timber pole wall
  - 5.1. All timber poles shall be H5 treated radiata pine in accordance with NZS 3603 unless otherwise specified.
  - 5.1. All timber poles shall have concrete encasement below the ground level with a minimum of 75mm side cover. The characteristic compressive strength of the concrete encasement shall be f<sub>c</sub> = 20 MPa unless otherwise noted.
  - 5.2. Poles are expressed as a minimum small end diameter Ø (SED) and shall be installed small end upwards. Cut ends shall not be put into the ground.
  - 5.3. The timber railing shall be H4 treated Radiata Pine and shall be fixed to the rear of the poles with CCA resistant coated screws or nails. Rails shall have minimum 10mm gap between them.
  - 5.4. Cutting of timbers shall be avoided wherever possible. If cutting is necessary, the exposed surfaces shall be flooded with a copper naphthenate type wood preservative.

|         |                |      |         |
|---------|----------------|------|---------|
|         |                |      |         |
|         |                |      |         |
|         |                |      |         |
| A       | FAST TRACK APP | MJRA | 06/2026 |
| Rev     | Description    | By   | Date    |
|         |                | By   | Date    |
| Survey  | MAVEN          |      | 06/2025 |
| Design  | MJRA           |      | 04/2026 |
| Drawn   | MJRA           |      | 04/2026 |
| Checked | MKJ/DJM        |      | 04/2026 |

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New Zealand

Project  
**SOUTHERN LINKS 1  
RESIDENTIAL STAGE 1  
HAMILTON, WAIKATO  
FOR  
SAXBY RD JV LIMITED**

Title  
**PROPOSED  
RETAINING WALL  
TYPICAL SECTION**

|             |                                   |
|-------------|-----------------------------------|
| Project no. | 298001-R1 SL1                     |
| Scale       | 1:25 @ A3                         |
| Cad file    | 298001-R1-C250 RETAINING WALL.DWG |
| Drawing no. | R1-C250-6                         |
| Rev         | A                                 |

RESOURCE CONSENT