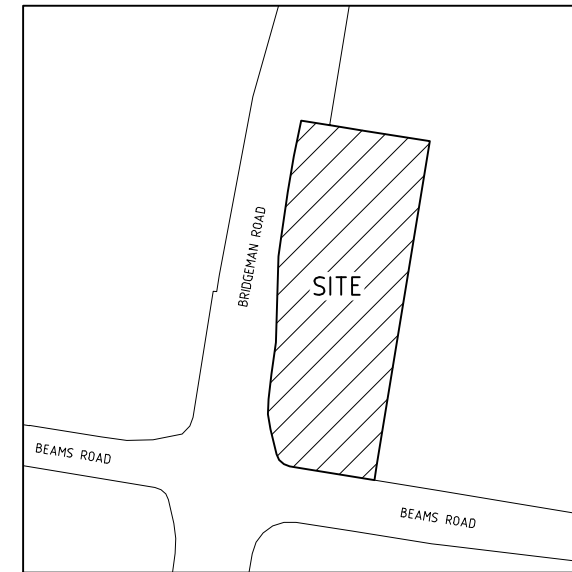


# 2 INTO 24 LOT SUBDIVISION LOT 1 SP 227357 AND LOT 2 SP 227358 899-905 BEAMS ROAD BRIDGEMAN DOWNS, QLD 4035

| DRAWING INDEX |   |
|---------------|---|
| DRAWING No.   | DESCRIPTION   |
| 24283-SK20    | LOCALITY PLAN AND DRAWING INDEX                         |
| 24283-SK21    | CONCEPT GENERAL ARRANGEMENT PLAN                        |
| 24283-SK22    | CONCEPT SERVICES PLAN SHEET 1 OF 2                      |
| 24283-SK23    | CONCEPT SERVICES PLAN SHEET 2 OF 2                      |
| 24283-SK24    | CONCEPT EARTHWORKS PLAN SHEET 1 OF 2                    |
| 24283-SK25    | CONCEPT EARTHWORKS PLAN SHEET 2 OF 2                    |
| 24283-SK26    | CONCEPT EARTHWORKS SECTIONS SHEET 1 OF 2                |
| 24283-SK27    | CONCEPT EARTHWORKS SECTIONS SHEET 2 OF 2                |
| 24283-SK28    | CONCEPT EXTERNAL CATCHMENT PLAN AND DETAILS             |
| 24283-SK29    | CONCEPT STORMWATER QUALITY CATCHMENT PLAN               |
| 24283-SK30    | CONCEPT BIO-RETENTION BASIN, PLAN, DETAILS AND SECTIONS |



**LOCALITY PLAN**  
 SCALE 1:2500

THIS DESIGN HAS BEEN PREPARED BASED ON SERVICE AUTHORITY AS CONSTRUCTED INFORMATION. NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN.

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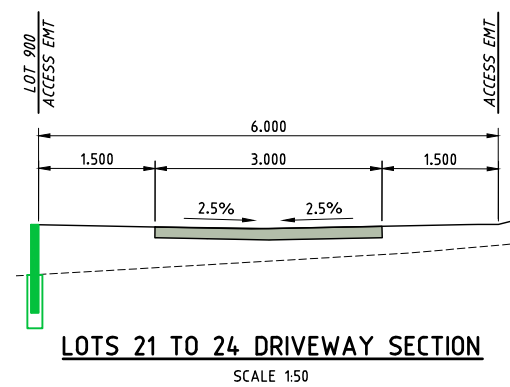
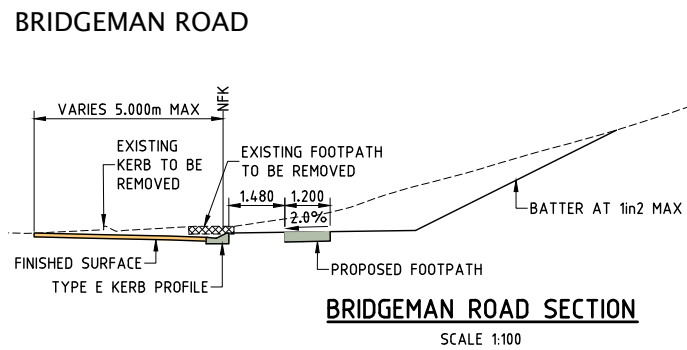
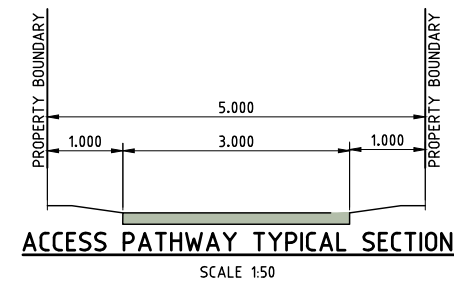
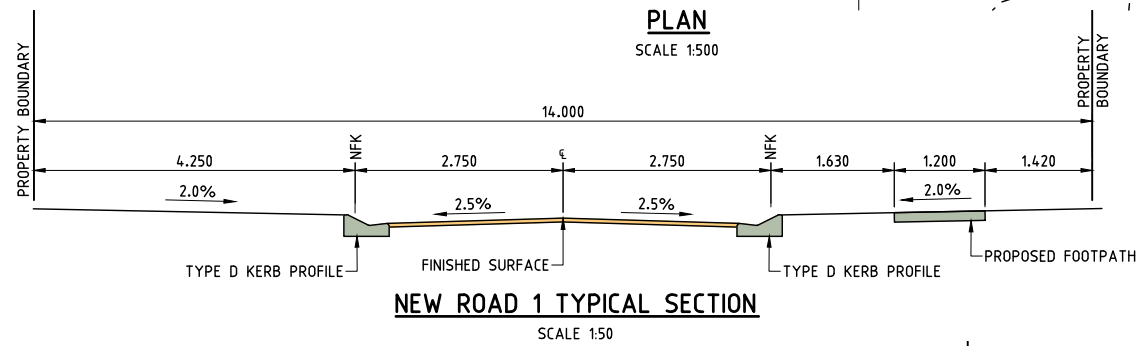
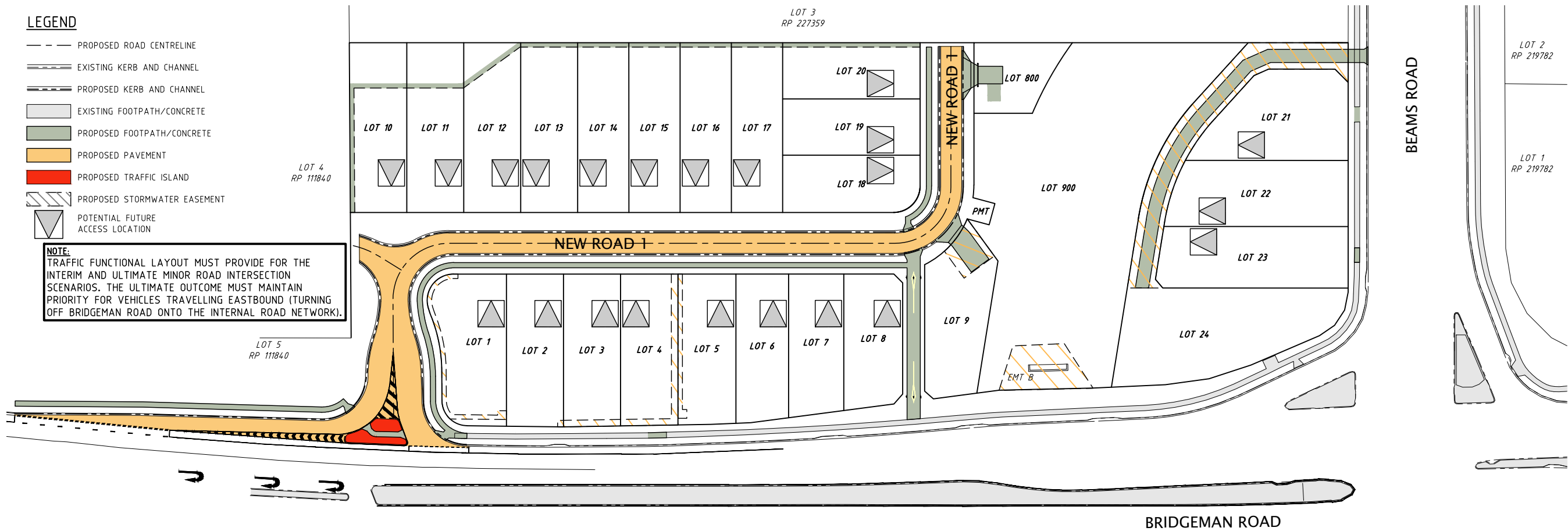
SCALE 1:2500 (A1)  
(SCALE BEFORE REDUCTION)

|  |  |  |   |   |                                 |  |                    |  |                              |  |   |
|--|--|--|---|---|---------------------------------|--|--------------------|--|------------------------------|--|---|
|  |  | HCE Engineers Pty Ltd<br>ABN 42 664 382 610<br>mail@hce-engineers.com.au<br>07 3829 1399 | PROJECT<br>899-905 BEAMS ROAD<br>BRIDGEMAN DOWNS,<br>QLD 4035 | TITLE<br>LOCALITY PLAN AND<br>DRAWING INDEX | CLIENT<br>PLANT TURRISI PTY LTD | <b>NOT FOR<br/>                 CONSTRUCTION.<br/>                 CONCEPT ONLY.</b> | REVISION<br>A<br>B | AMENDMENT<br>REPORT ISSUE<br>ISSUED FOR APPROVAL | DATE<br>22/05/26<br>02/07/26 | DO NOT SCALE.<br>CONFIRM ALL DIMENSIONS ON SITE. | Copyright ©<br>Designed MB<br>Drawn AD<br>Date 20/05/2026<br>Approval No. -<br>Scale AS SHOWN<br>Drawing No. 24283-SK20<br>Rev. B |
|  |  |  | (SCALE BEFORE REDUCTION)                                      |   |                                 |  |                    |  |                              |  |   |

**LEGEND**

- PROPOSED ROAD CENTRELINE
- EXISTING KERB AND CHANNEL
- PROPOSED KERB AND CHANNEL
- EXISTING FOOTPATH/CONCRETE
- PROPOSED FOOTPATH/CONCRETE
- PROPOSED PAVEMENT
- PROPOSED TRAFFIC ISLAND
- PROPOSED STORMWATER EASEMENT
- POTENTIAL FUTURE ACCESS LOCATION

**NOTE:**  
TRAFFIC FUNCTIONAL LAYOUT MUST PROVIDE FOR THE INTERIM AND ULTIMATE MINOR ROAD INTERSECTION SCENARIOS. THE ULTIMATE OUTCOME MUST MAINTAIN PRIORITY FOR VEHICLES TRAVELLING EASTBOUND (TURNING OFF BRIDGEMAN ROAD ONTO THE INTERNAL ROAD NETWORK).



THIS DESIGN HAS BEEN PREPARED BASED ON SERVICE AUTHORITY AS CONSTRUCTED INFORMATION. NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN.

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|  |  |   |  |   |   |                                     |  |
|--|--|---|--|---|---|-------------------------------------|--|
|  | <b>PROJECT</b><br>899-905 BEAMS ROAD<br>BRIDGEMAN DOWNS,<br>QLD 4035                     | <b>TITLE</b><br>CONCEPT GENERAL<br>ARRANGEMENT PLAN | <b>CLIENT</b><br>PLANT TURRISI PTY LTD | NOT FOR<br>CONSTRUCTION.<br>CONCEPT ONLY. | <b>REVISION</b><br>A AMENDMENT<br>B REPORT ISSUE<br>ISSUED FOR APPROVAL | <b>DATE</b><br>22/05/26<br>02/07/26 | DO NOT SCALE.<br>CONFIRM ALL DIMENSIONS ON SITE. |
|  | HCE Engineers Pty Ltd<br>ABN 42 664 382 610<br>mail@hce-engineers.com.au<br>07 3829 1399 | HCE<br>ENGINEERS                                    | MB Drawn<br>AD Date<br>20/05/2026      |   | Approval No. - Scale<br>AS SHOWN  | Drawing No. 24283-SK21 Rev. B       |  |

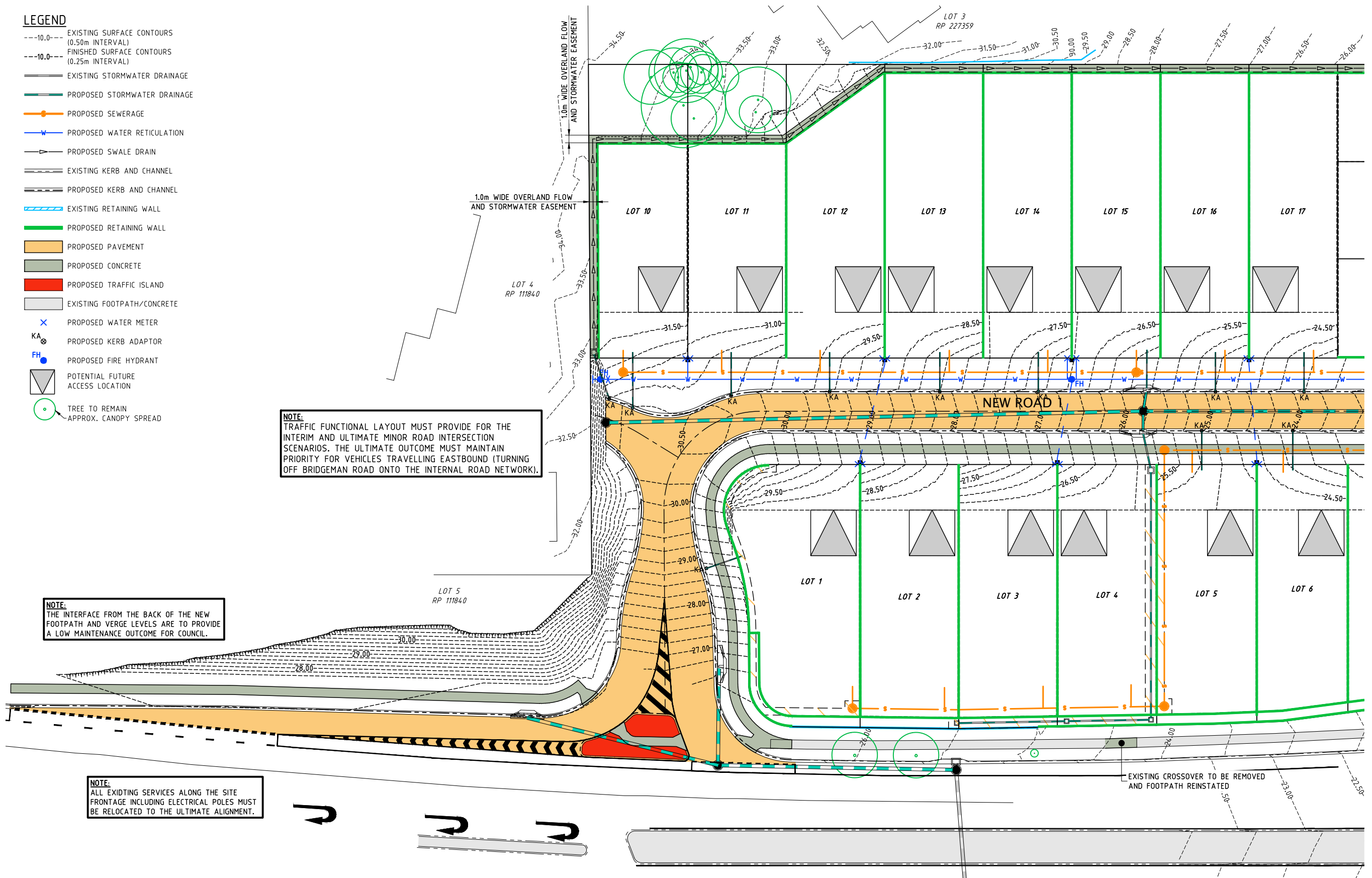
**LEGEND**

- 10.0--- EXISTING SURFACE CONTOURS (0.50m INTERVAL)
- 10.0--- FINISHED SURFACE CONTOURS (0.25m INTERVAL)
- EXISTING STORMWATER DRAINAGE
- PROPOSED STORMWATER DRAINAGE
- PROPOSED SEWERAGE
- PROPOSED WATER RETICULATION
- PROPOSED SWALE DRAIN
- EXISTING KERB AND CHANNEL
- PROPOSED KERB AND CHANNEL
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- PROPOSED TRAFFIC ISLAND
- EXISTING FOOTPATH/CONCRETE
- X PROPOSED WATER METER
- KA PROPOSED KERB ADAPTOR
- FH PROPOSED FIRE HYDRANT
- ▽ POTENTIAL FUTURE ACCESS LOCATION
- TREE TO REMAIN APPROX. CANOPY SPREAD

**NOTE:**  
TRAFFIC FUNCTIONAL LAYOUT MUST PROVIDE FOR THE INTERIM AND ULTIMATE MINOR ROAD INTERSECTION SCENARIOS. THE ULTIMATE OUTCOME MUST MAINTAIN PRIORITY FOR VEHICLES TRAVELLING EASTBOUND (TURNING OFF BRIDGEMAN ROAD ONTO THE INTERNAL ROAD NETWORK).

**NOTE:**  
THE INTERFACE FROM THE BACK OF THE NEW FOOTPATH AND VERGE LEVELS ARE TO PROVIDE A LOW MAINTENANCE OUTCOME FOR COUNCIL.

**NOTE:**  
ALL EXISTING SERVICES ALONG THE SITE FRONTAGE INCLUDING ELECTRICAL POLES MUST BE RELOCATED TO THE ULTIMATE ALIGNMENT.



**PLAN**  
SCALE 1:250

FOR CONTINUATION REFER TO DRAWING 24283-SK23

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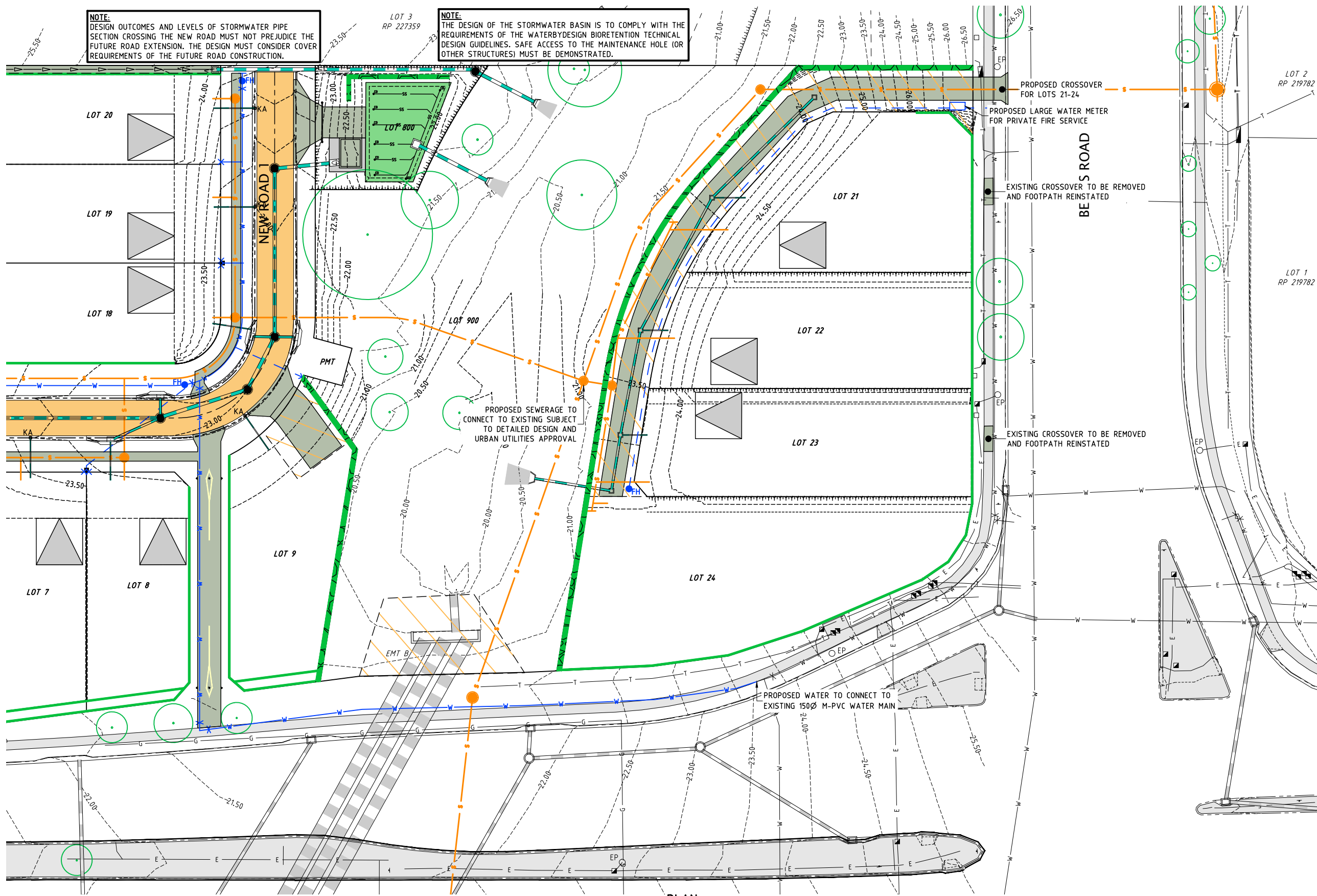
THIS DESIGN HAS BEEN PREPARED BASED ON SERVICE AUTHORITY AS CONSTRUCTED INFORMATION. NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN.

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|--|--|--|--|--|-----------------------|--|----------|---------------------|--------------|---|----------|------------|
|  | HCE Engineers Pty Ltd<br>ABN 42 664 382 610<br>mail@hce-engineers.com.au<br>07 3829 1399 |  | PROJECT                                      | TITLE                                    | CLIENT                | NOT FOR CONSTRUCTION.<br>CONCEPT ONLY. | REVISION | AMENDMENT           | DATE         | DO NOT SCALE. CONFIRM ALL DIMENSIONS ON SITE. Copyright © |          |            |
|  |  |  | 899-905 BEAMS ROAD BRIDGEMAN DOWNS, QLD 4035 | CONCEPT CIVIL SERVICES PLAN SHEET 1 OF 2 | PLANT TURRISI PTY LTD |  | A        | REPORT ISSUE        | 22/05/26     |   | Designed | Drawn      |
|  |  |  |  |  |                       |  | B        | ISSUED FOR APPROVAL | 02/07/26     | MB  | AD       | 20/05/2026 |
|  |  |  |  |  |                       |  |          |                     | Approval No. | AS SHOWN  |          |            |
|  |  |  |  |  |                       |  |          |                     | Drawing No.  | 24283-SK22  | Rev.     | B          |

**NOTE:**  
DESIGN OUTCOMES AND LEVELS OF STORMWATER PIPE SECTION CROSSING THE NEW ROAD MUST NOT PREJUDICE THE FUTURE ROAD EXTENSION. THE DESIGN MUST CONSIDER COVER REQUIREMENTS OF THE FUTURE ROAD CONSTRUCTION.

**NOTE:**  
THE DESIGN OF THE STORMWATER BASIN IS TO COMPLY WITH THE REQUIREMENTS OF THE WATERBYDESIGN BIORETENTION TECHNICAL DESIGN GUIDELINES. SAFE ACCESS TO THE MAINTENANCE HOLE (OR OTHER STRUCTURES) MUST BE DEMONSTRATED.

FOR CONTINUATION REFER TO DRAWING 24-283-SK22



- LEGEND**
- 10.0--- EXISTING SURFACE CONTOURS (0.50m INTERVAL)
  - 10.0--- FINISHED SURFACE CONTOURS (0.25m INTERVAL)
  - EXISTING STORMWATER DRAINAGE
  - PROPOSED STORMWATER DRAINAGE
  - PROPOSED SEWERAGE
  - EXISTING WATER RETICULATION
  - PROPOSED WATER RETICULATION
  - EXISTING UNDERGROUND ELECTRICAL
  - EXISTING TELECOMMUNICATIONS
  - EXISTING GAS
  - PROPOSED SWALE DRAIN
  - EXISTING KERB AND CHANNEL
  - PROPOSED KERB AND CHANNEL
  - PROPOSED RETAINING WALL
  - PROPOSED BOULDER RETAINING WALL
  - PROPOSED PAVEMENT
  - PROPOSED CONCRETE
  - EXISTING FOOTPATH/CONCRETE
  - PROPOSED STORMWATER EASEMENT
  - BIORETENTION AREA
  - STONE PITCHING
  - WM □ EXISTING WATER METER
  - ✕ PROPOSED WATER METER
  - EP ○ EXISTING ELECTRICAL POLE
  - KA ○ PROPOSED KERB ADAPTOR
  - FH ○ PROPOSED FIRE HYDRANT
  - EXISTING ELECTRICAL PILLAR
  - ▽ POTENTIAL FUTURE ACCESS LOCATION
  - TREE TO REMAIN APPROX. CANOPY SPREAD

**PLAN**  
SCALE 1:250

**NOTE:**  
FLOWS GENERATED WITHIN THE CROSS BLOCK LINK CORRIDOR ARE TO BE MANAGED APPROPRIATELY - TO BE CONFIRMED WITHIN SUBSEQUENT OPERATIONAL WORKS APPLICATIONS.

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**HCE ENGINEERS**  
HCE Engineers Pty Ltd  
ABN 42 664 382 610  
mail@hce-engineers.com.au  
07 3829 1399



**PROJECT**  
899-905 BEAMS ROAD  
BRIDGEMAN DOWNS,  
QLD 4035

**TITLE**  
CONCEPT CIVIL SERVICES  
PLAN SHEET 2 OF 2

**CLIENT**  
PLANT TURRISI PTY LTD

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| Drawing No. 24283-SK23                        |                |

**LEGEND**

- 10.0--- EXISTING SURFACE CONTOURS (0.50m INTERVAL)
- 10.0--- FINISHED SURFACE CONTOURS (0.25m INTERVAL)
- PROPOSED SWALE DRAIN
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- EXISTING FOOTPATH/CONCRETE
- PROPOSED KERB AND CHANNEL
- EXISTING KERB AND CHANNEL
- EXISTING STORMWATER DRAINAGE
- H 0.35 MAX. HEIGHT
- 25.90 X EXISTING SURFACE LEVEL
- TREE TO REMAIN TPZ

**CUT/FILL DEPTHS**

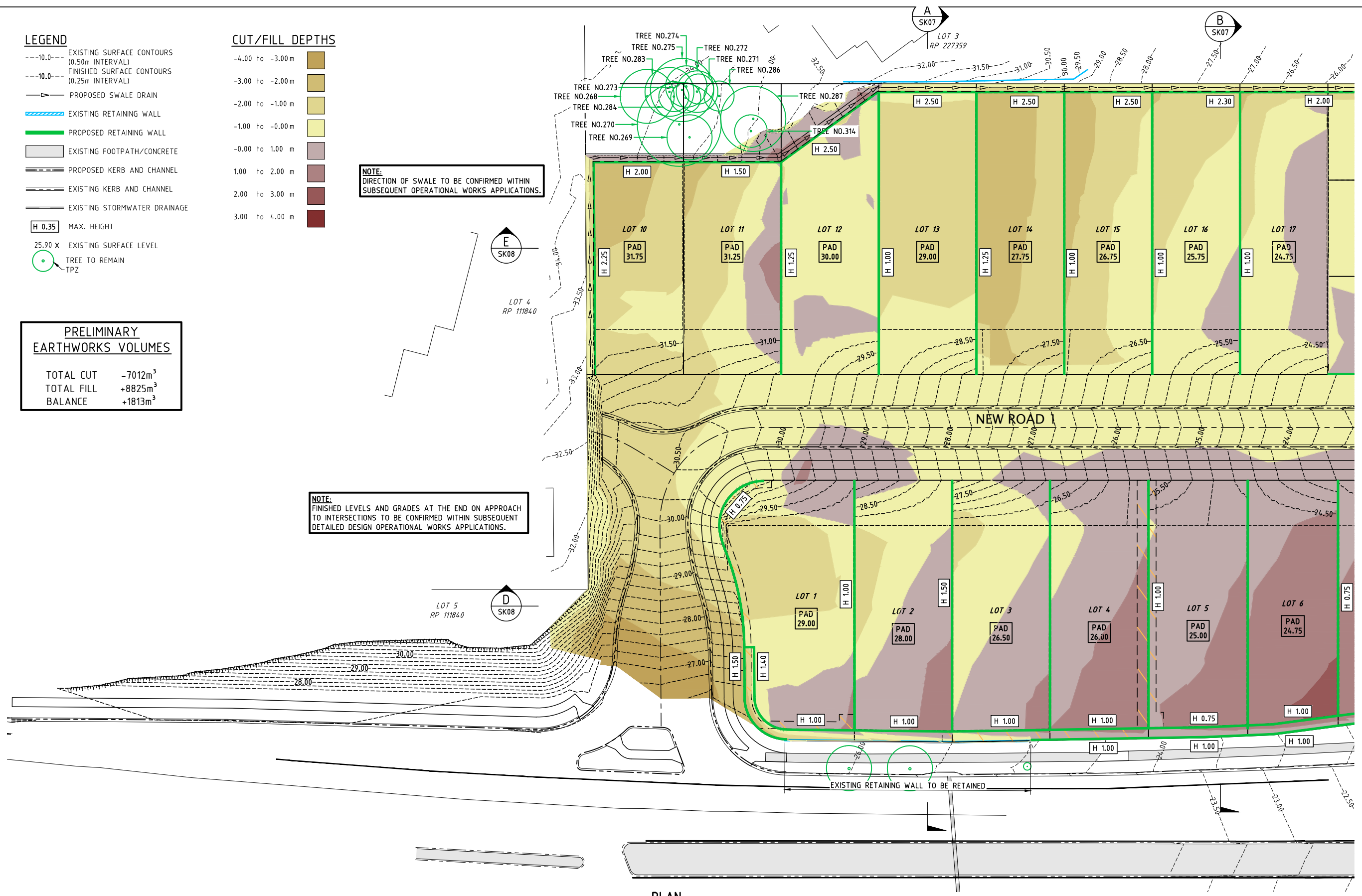
- 4.00 to -3.00 m
- 3.00 to -2.00 m
- 2.00 to -1.00 m
- 1.00 to -0.00 m
- 0.00 to 1.00 m
- 1.00 to 2.00 m
- 2.00 to 3.00 m
- 3.00 to 4.00 m

**PRELIMINARY EARTHWORKS VOLUMES**

TOTAL CUT -7012m<sup>3</sup>  
 TOTAL FILL +8825m<sup>3</sup>  
 BALANCE +1813m<sup>3</sup>

**NOTE:**  
 DIRECTION OF SWALE TO BE CONFIRMED WITHIN SUBSEQUENT OPERATIONAL WORKS APPLICATIONS.

**NOTE:**  
 FINISHED LEVELS AND GRADES AT THE END ON APPROACH TO INTERSECTIONS TO BE CONFIRMED WITHIN SUBSEQUENT DETAILED DESIGN OPERATIONAL WORKS APPLICATIONS.



FOR CONTINUATION REFER TO DRAWING 24283-SK25

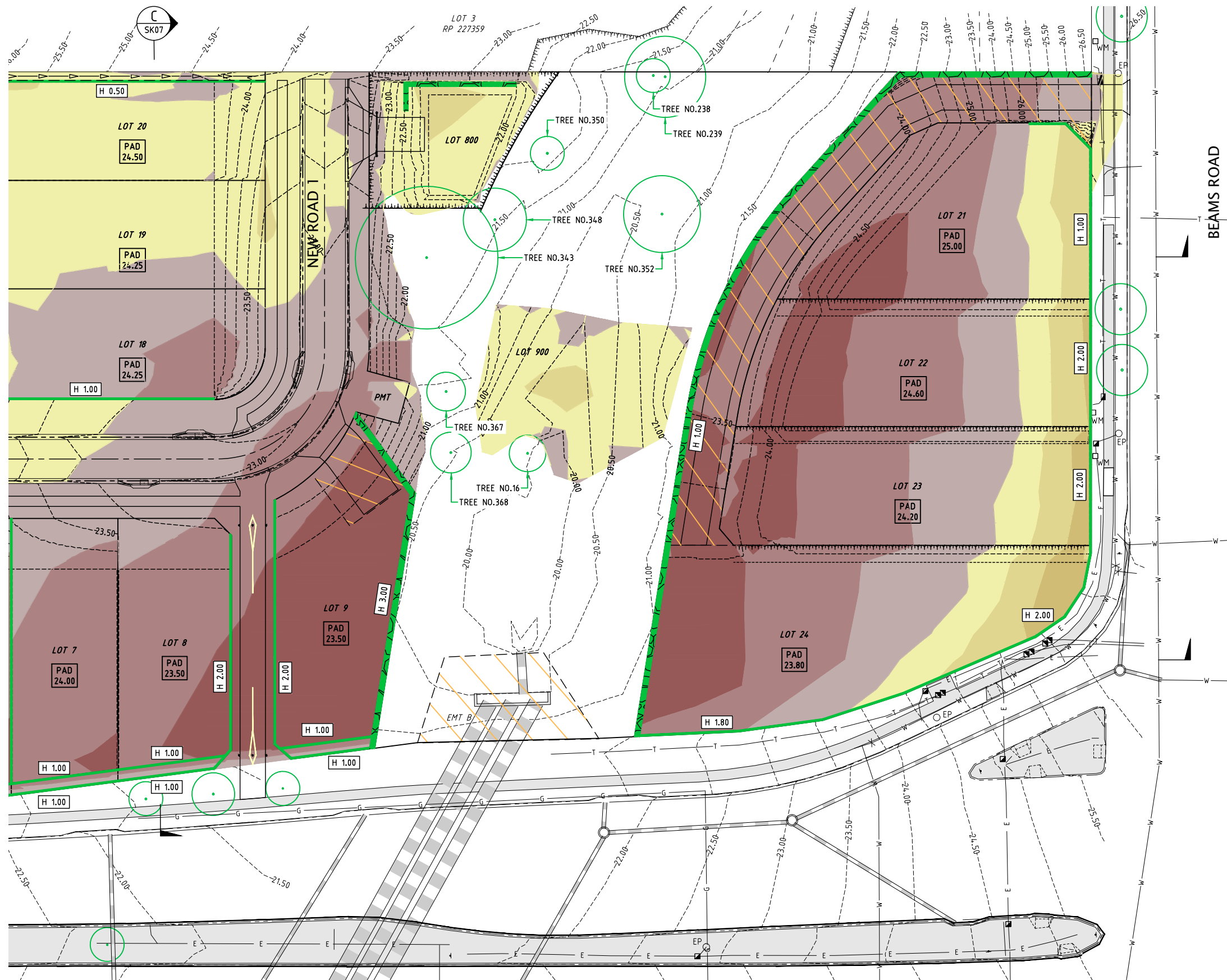
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|--|--|--|--|--|-----------------------|--|----------|---------------------|------------------------|---|----------|
|  | HCE Engineers Pty Ltd<br>ABN 42 664 382 610<br>mail@hce-engineers.com.au<br>07 3829 1399 |  | PROJECT                                      | TITLE                                    | CLIENT                | NOT FOR CONSTRUCTION.<br>CONCEPT ONLY. | REVISION | AMENDMENT           | DATE                   | DO NOT SCALE. CONFIRM ALL DIMENSIONS ON SITE. Copyright © |          |
|  |  |  | 899-905 BEAMS ROAD BRIDGEMAN DOWNS, QLD 4035 | CONCEPT CIVIL SERVICES PLAN SHEET 1 OF 2 | PLANT TURRISI PTY LTD |  | A        | REPORT ISSUE        | 22/05/26               | Designed MB   | Drawn AD |
|  |  |  |  |  |                       |  | B        | ISSUED FOR APPROVAL | 02/07/26               | Approval No. -  | Rev. B   |
|  |  |  |  |  |                       |  |          |                     | Drawing No. 24283-SK24 |   |          |

FOR CONTINUATION REFER TO DRAWING 24283-SK24



**LEGEND**

- 10.0--- EXISTING SURFACE CONTOURS (0.50m INTERVAL)
- 10.0--- FINISHED SURFACE CONTOURS (0.25m INTERVAL)
- PROPOSED SWALE DRAIN
- EXISTING WATER RETICULATION
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING TELECOMMUNICATIONS
- EXISTING GAS
- PROPOSED RETAINING WALL
- PROPOSED BOULDER RETAINING WALL
- EXISTING FOOTPATH/CONCRETE
- PROPOSED KERB AND CHANNEL
- EXISTING KERB AND CHANNEL
- EXISTING STORMWATER DRAINAGE
- [H 0.35] MAX. HEIGHT
- 48.60X EXISTING SURFACE LEVEL
- WM EXISTING WATER METER
- EP EXISTING ELECTRICAL POLE
- EP EXISTING ELECTRICAL PILLAR
- TREE TO REMAIN TPZ

**CUT/FILL DEPTHS**

- 4.00 to -3.00 m
- 3.00 to -2.00 m
- 2.00 to -1.00 m
- 1.00 to -0.00 m
- 0.00 to 1.00 m
- 1.00 to 2.00 m
- 2.00 to 3.00 m
- 3.00 to 4.00 m

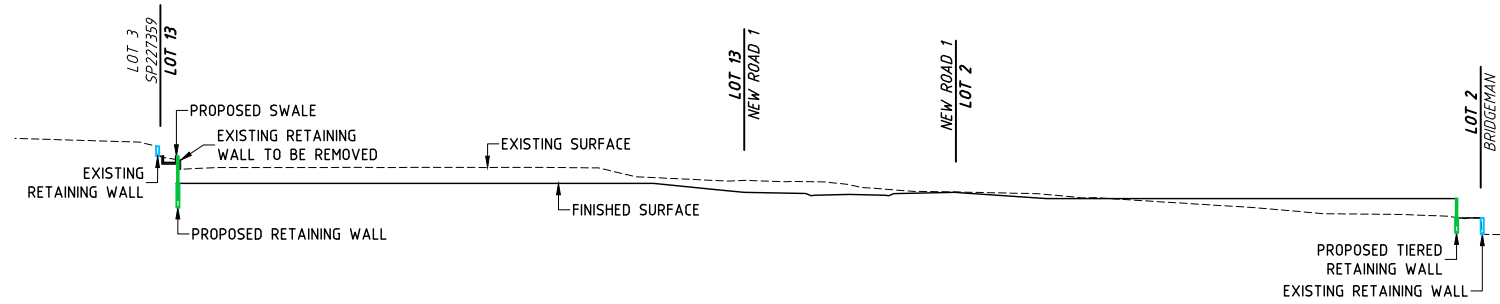
**PLAN**  
SCALE 1:250

THIS DESIGN HAS BEEN PREPARED BASED ON SERVICE AUTHORITY AS CONSTRUCTED INFORMATION. NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN.

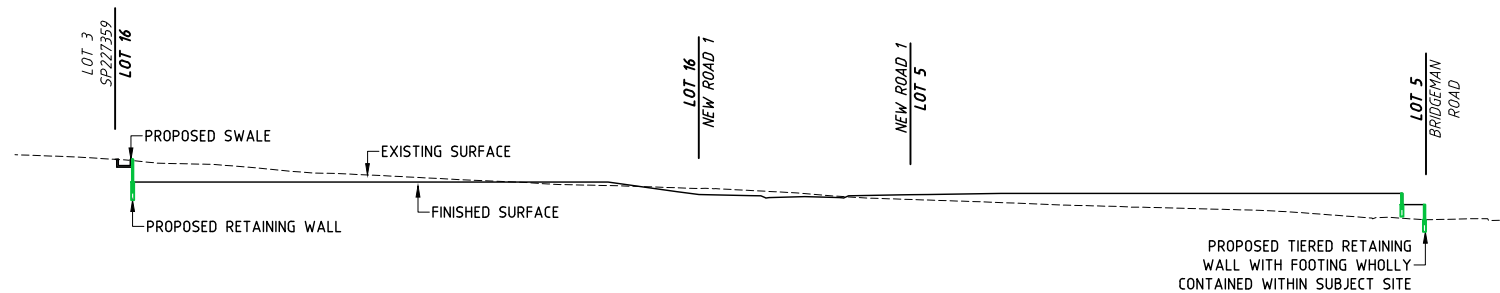
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**RECEIVED**  
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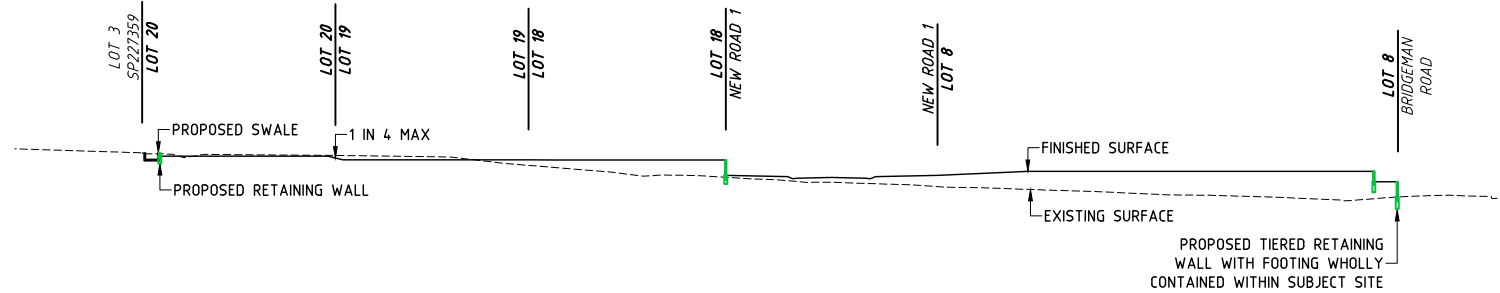
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|  | HCE Engineers Pty Ltd<br>ABN 42 664 382 610<br>mail@hce-engineers.com.au<br>07 3829 1399 |  | PROJECT                                      | TITLE                                    | CLIENT                |  | REVISION | AMENDMENT           | DATE     |   |            |       |          |    |
|  |  |  | 899-905 BEAMS ROAD BRIDGEMAN DOWNS, QLD 4035 | CONCEPT CIVIL SERVICES PLAN SHEET 2 OF 2 | PLANT TURRISI PTY LTD | <b>NOT FOR CONSTRUCTION. CONCEPT ONLY.</b> | A        | REPORT ISSUE        | 22/05/26 | DO NOT SCALE. CONFIRM ALL DIMENSIONS ON SITE. | Designed   | MB    | Drawn    | AD |
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|  |  |  |  |  |                       |  |          |                     |          | Drawing No.                                   | 24283-SK25 | Rev.  | B        |    |



SECTION A  
SCALE 1:250 SK05



SECTION B  
SCALE 1:250 SK05



SECTION C  
SCALE 1:250 SK06

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HCE Engineers Pty Ltd  
ABN 42 664 382 610  
mail@hce-engineers.com.au  
07 3829 1399



PROJECT  
899-905 BEAMS ROAD  
BRIDGEMAN DOWNS,  
QLD 4035

TITLE  
CONCEPT EARTHWORKS  
SECTIONS SHEET 1 OF 2

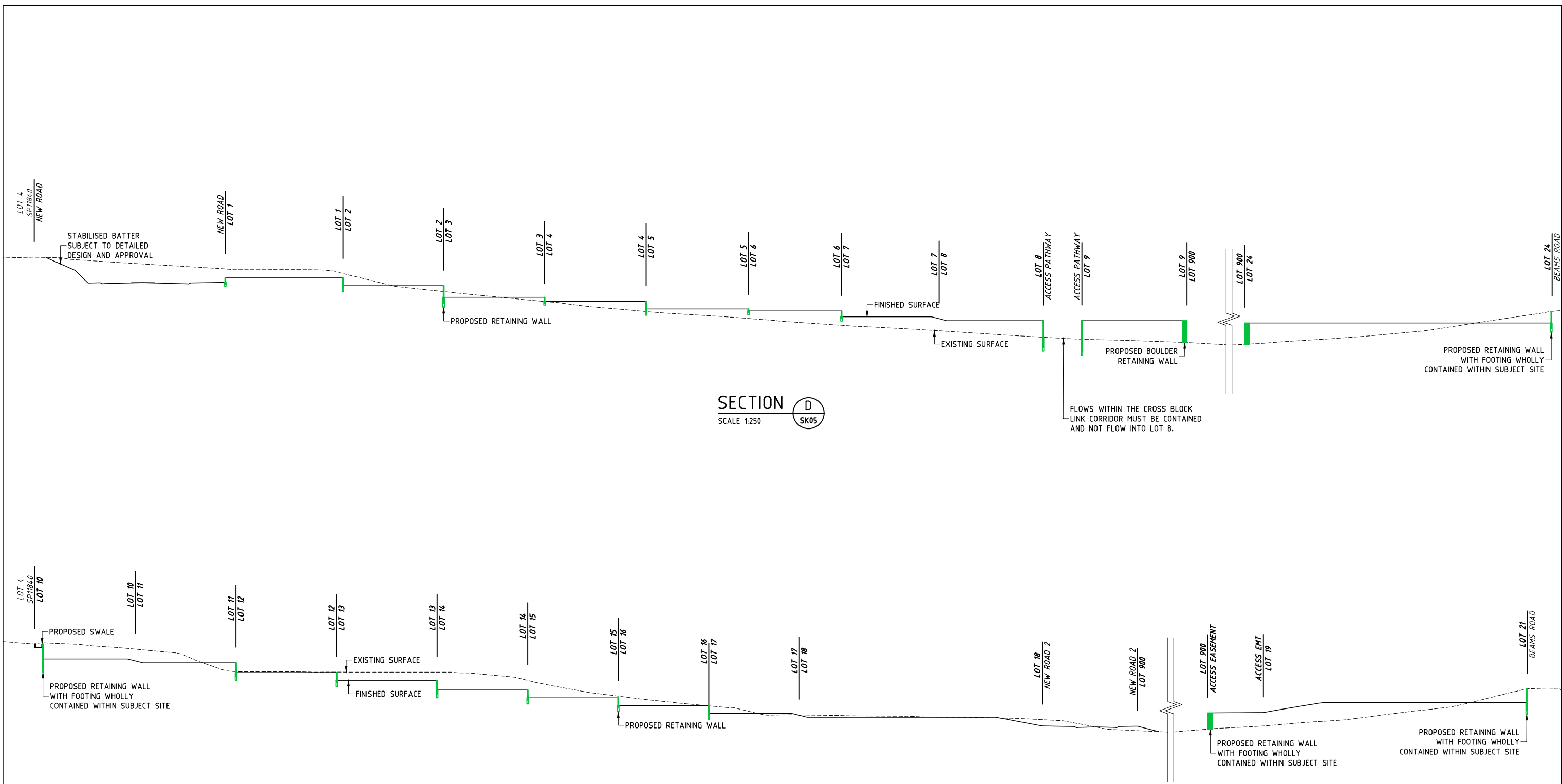
CLIENT  
PLANT TURRISI PTY LTD

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|--------------|------------|-------|----------|------|------------|
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| Approval No. | -          | Scale | AS SHOWN | Rev. | B          |
| Drawing No.  | 24283-SK26 |       |          |      |            |

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SECTION D  
SCALE 1:250

SECTION E  
SCALE 1:250

**NOTE:**  
RETAINING WALLS GREATER THAN 1.0m IN HEIGHT MUST BE DESIGNED AND CERTIFIED BY AN RPEQ. FORM 15 MUST BE PROVIDED TO CONFIRM THAT THE RETAINING WALLS ARE DESIGNED FOR ULTIMATE LOADING CONDITIONS INCLUDING BUT NOT LIMITED TO HYDROSTATIC AND HYDRODYNAMIC FORCES.

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**HCE ENGINEERS**  
HCE Engineers Pty Ltd  
ABN 42 664 382 610  
mail@hce-engineers.com.au  
07 3829 1399



PROJECT  
899-905 BEAMS ROAD  
BRIDGEMAN DOWNS,  
QLD 4035

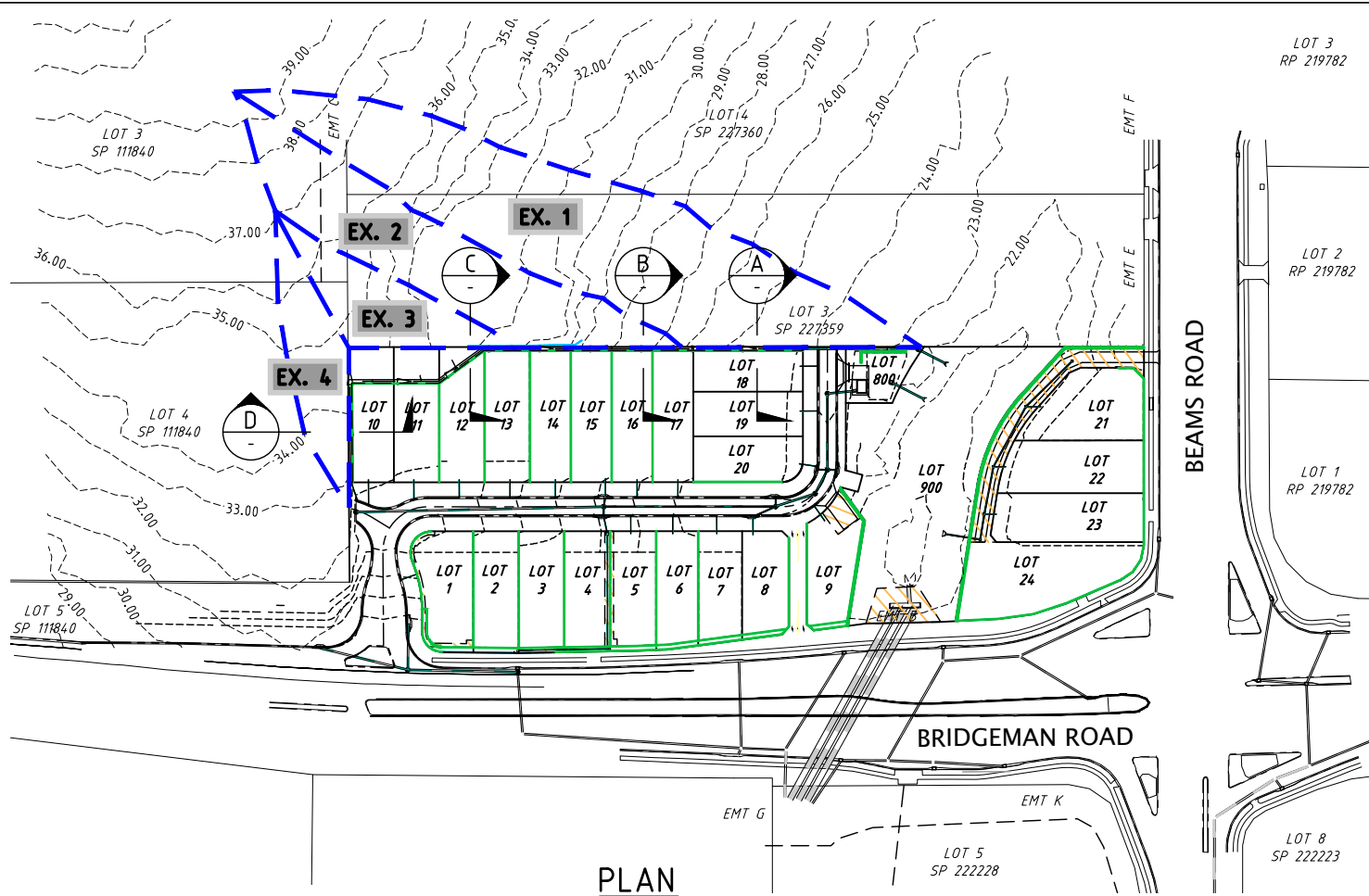
TITLE  
CONCEPT EARTHWORKS  
SECTIONS SHEET 2 OF 2

CLIENT  
PLANT TURRISI PTY LTD

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| REVISION | AMENDMENT           | DATE     |
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| Drawing No. 24283-SK27                        | Scale AS SHOWN  |
|   | Rev. B          |



- LEGEND**
- EXT.** CATCHMENT LABEL
  - EXISTING CATCHMENT BOUNDARY
  - EXISTING SURFACE CONTOURS (1.00m INTERVAL)
  - FINISHED SURFACE CONTOURS (1.00m INTERVAL)
  - EXISTING STORMWATER DRAINAGE
  - PROPOSED STORMWATER DRAINAGE
  - PROPOSED KERB AND CHANNEL
  - PROPOSED RETAINING WALL

**PLAN**  
SCALE 1:1000

**NOTE:**  
FENCING OF CHANNEL REQUIRED.  
TO BE CONFIRMED AT DETAILED DESIGN

**EX1 + EX2 + EX3 SWALE PROPERTIES (SECTION A)**

| Q (m <sup>3</sup> /s) | MANNING'S n | LONG SLOPE (m/m) | BASE WIDTH (m) | LH SIDE SLOPE (m/m) | RH SIDE SLOPE (m/m) | VELOCITY (m/s) | Q50 DEPTH (m) | FREEBOARD (mm) | VELOCITY DEPTH PRODUCT (m <sup>2</sup> /s) |
|-----------------------|-------------|------------------|----------------|---------------------|---------------------|----------------|---------------|----------------|--|
| 0.407                 | 0.020       | 0.051            | 0.600          | N/A                 | N/A                 | 2.910          | 0.232         | 0.300          | 0.675                                      |

**EX2 + EX3 SWALE PROPERTIES (SECTION B)**

| Q (m <sup>3</sup> /s) | MANNING'S n | LONG SLOPE (m/m) | BASE WIDTH (m) | LH SIDE SLOPE (m/m) | RH SIDE SLOPE (m/m) | VELOCITY (m/s) | Q50 DEPTH (m) | FREEBOARD (mm) | VELOCITY DEPTH PRODUCT (m <sup>2</sup> /s) |
|-----------------------|-------------|------------------|----------------|---------------------|---------------------|----------------|---------------|----------------|--|
| 0.169                 | 0.020       | 0.108            | 0.600          | N/A                 | N/A                 | 2.878          | 0.097         | 0.300          | 0.279                                      |

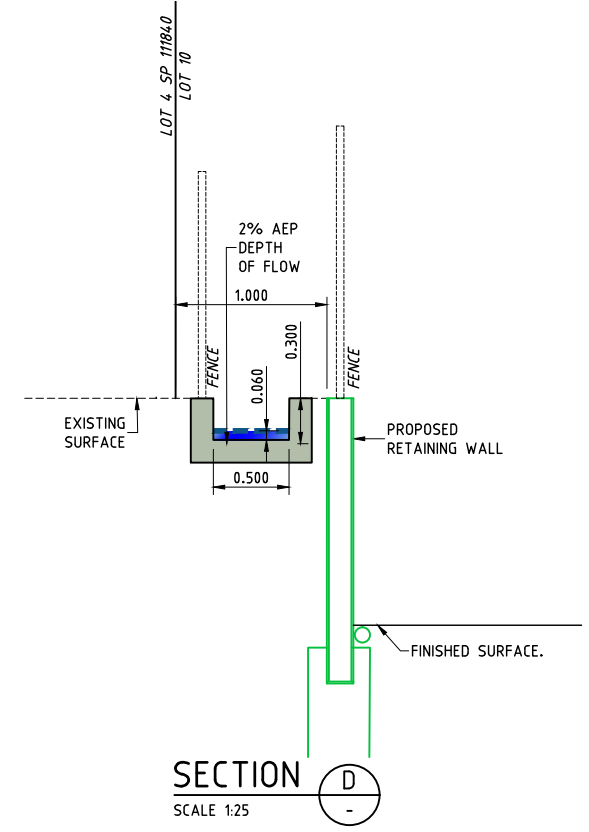
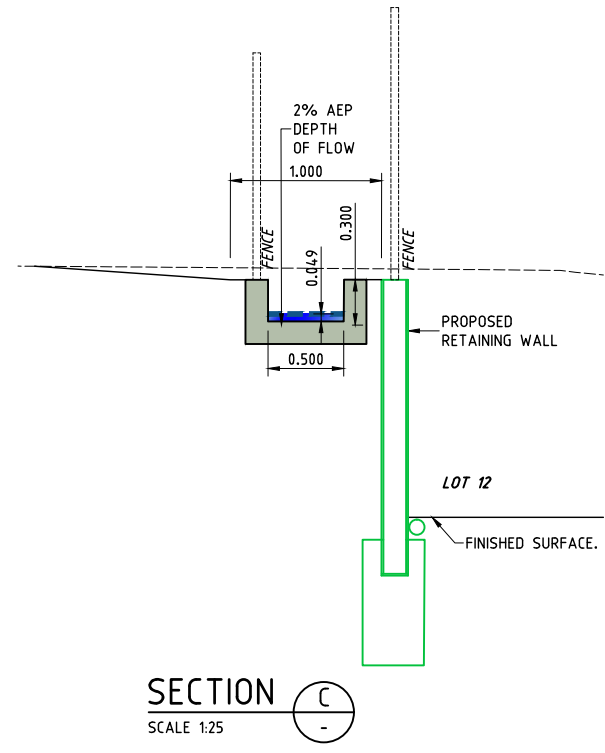
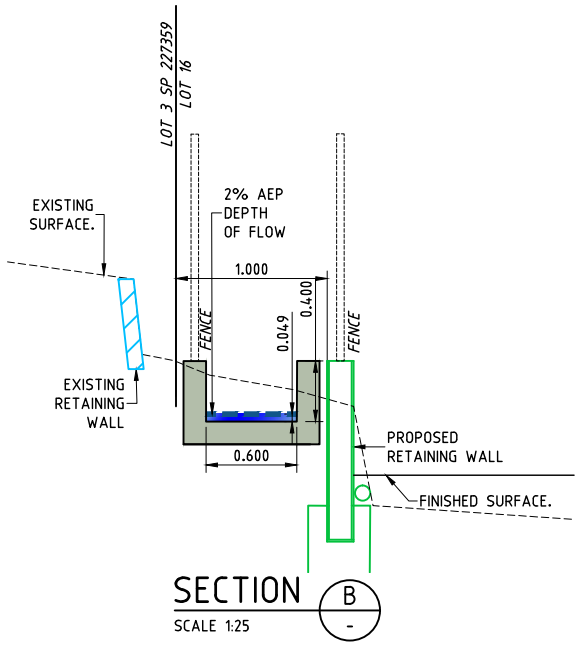
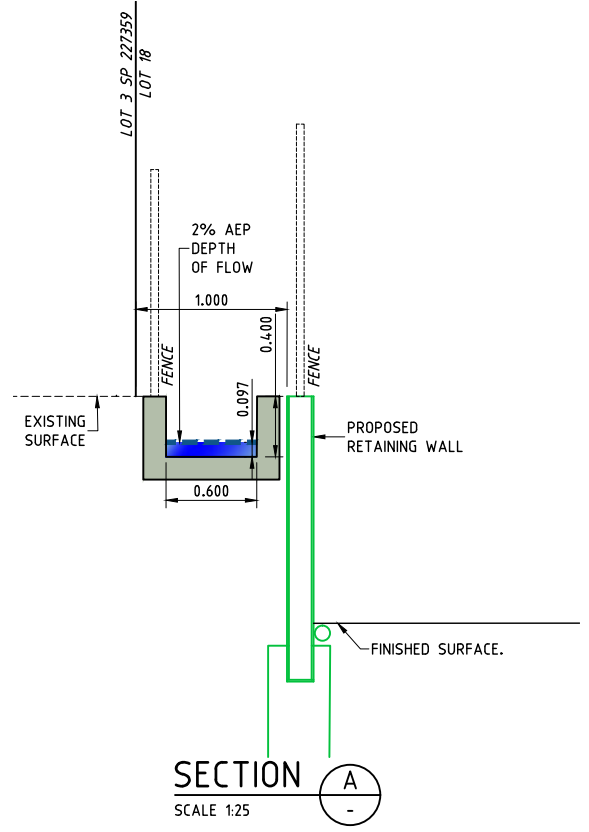
**EX3 SWALE PROPERTIES (SECTION C)**

| Q (m <sup>3</sup> /s) | MANNING'S n | LONG SLOPE (m/m) | BASE WIDTH (m) | LH SIDE SLOPE (m/m) | RH SIDE SLOPE (m/m) | VELOCITY (m/s) | Q50 DEPTH (m) | FREEBOARD (mm) | VELOCITY DEPTH PRODUCT (m <sup>2</sup> /s) |
|-----------------------|-------------|------------------|----------------|---------------------|---------------------|----------------|---------------|----------------|--|
| 0.047                 | 0.020       | 0.068            | 0.600          | N/A                 | N/A                 | 1.578          | 0.049         | 0.300          | 0.077                                      |

**EX4 SWALE PROPERTIES (SECTION D)**

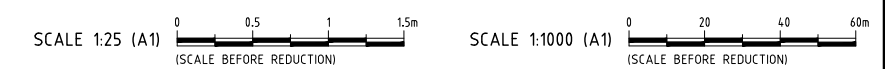
| Q (m <sup>3</sup> /s) | MANNING'S n | LONG SLOPE (m/m) | BASE WIDTH (m) | LH SIDE SLOPE (m/m) | RH SIDE SLOPE (m/m) | VELOCITY (m/s) | Q50 DEPTH (m) | FREEBOARD (mm) | VELOCITY DEPTH PRODUCT (m <sup>2</sup> /s) |
|-----------------------|-------------|------------------|----------------|---------------------|---------------------|----------------|---------------|----------------|--|
| 0.045                 | 0.020       | 0.049            | 0.500          | N/A                 | N/A                 | 1.470          | 0.060         | 0.300          | 0.088                                      |

| EX. 1  | EX. 2  | EX. 3  | EX. 4  |
|--|--|--|--|
| <b>CALCULATIONS</b><br>A = 0.475 ha<br>tc = 12 min<br>C <sub>50</sub> = 0.85<br>I <sub>50</sub> = 212mm/hr<br>Q <sub>50</sub> = 0.238m <sup>3</sup> /s | <b>CALCULATIONS</b><br>A = 0.244 ha<br>tc = 12 min<br>C <sub>50</sub> = 0.85<br>I <sub>50</sub> = 212mm/hr<br>Q <sub>50</sub> = 0.122m <sup>3</sup> /s | <b>CALCULATIONS</b><br>A = 0.093 ha<br>tc = 12 min<br>C <sub>50</sub> = 0.85<br>I <sub>50</sub> = 212mm/hr<br>Q <sub>50</sub> = 0.047m <sup>3</sup> /s | <b>CALCULATIONS</b><br>A = 0.088 ha<br>tc = 12 min<br>C <sub>50</sub> = 0.85<br>I <sub>50</sub> = 212mm/hr<br>Q <sub>50</sub> = 0.045m <sup>3</sup> /s |

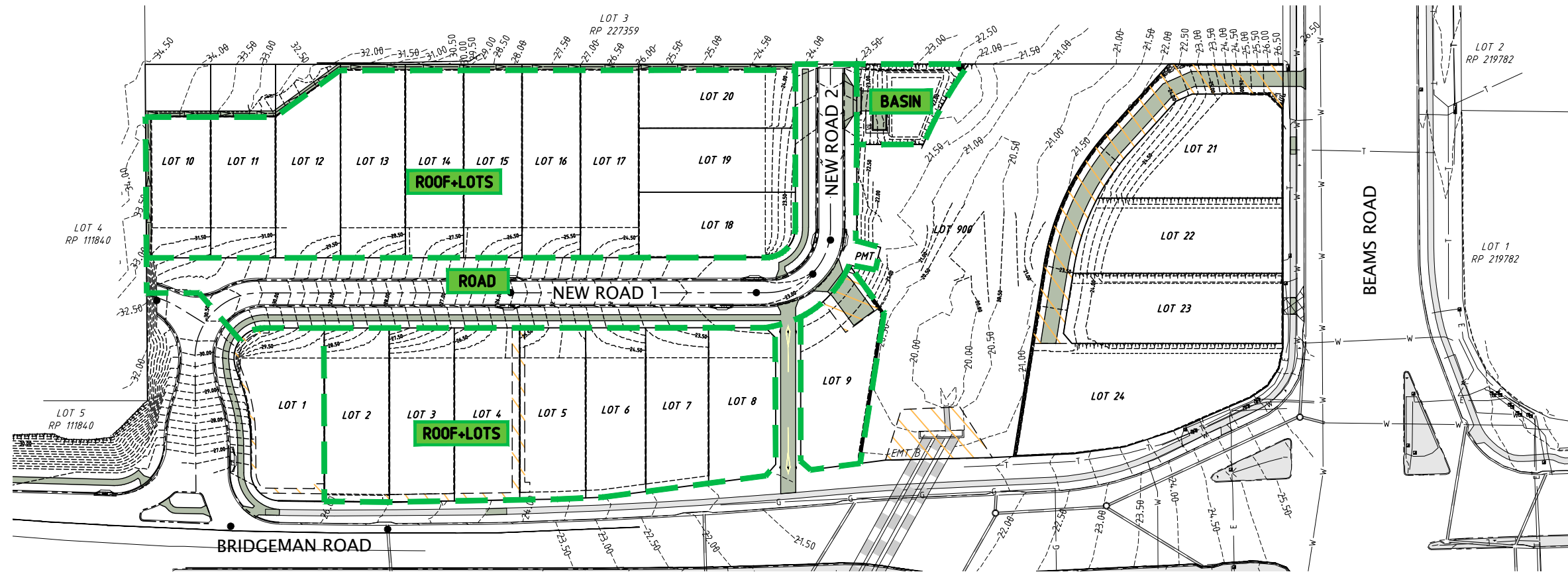


THIS DESIGN HAS BEEN PREPARED BASED ON SERVICE AUTHORITY AS CONSTRUCTED INFORMATION. NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN.

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 A007032858



|  |  |  |  |   |                       |  |          |                     |            |   |                |
|--|--|--|--|---|-----------------------|--|----------|---------------------|------------|---|----------------|
|  | HCE Engineers Pty Ltd<br>ABN 42 664 382 610<br>mail@hce-engineers.com.au<br>07 3829 1399 |  | PROJECT                                      | TITLE                                       | CLIENT                | NOT FOR CONSTRUCTION.<br>CONCEPT ONLY. | REVISION | AMENDMENT           | DATE       | DO NOT SCALE. CONFIRM ALL DIMENSIONS ON SITE. |                |
|  |  |  | 899-905 BEAMS ROAD BRIDGEMAN DOWNS, QLD 4035 | CONCEPT EXTERNAL CATCHMENT PLAN AND DETAILS | PLANT TURRISI PTY LTD |  | A        | REPORT ISSUE        | 22/05/26   |   | Designed MB    |
|  |  |  |  |   |                       |  | B        | ISSUED FOR APPROVAL | 02/07/26   | Approval No.                                  | Scale AS SHOWN |
|  |  |  |  |   |                       |  |          |                     | 24283-SK28 | Rev. B  |                |



**PROPOSED CATCHMENT PLAN**  
SCALE 1:500

- LEGEND**
- 10.0--- EXISTING SURFACE CONTOURS (0.25m INTERVAL)
  - 10.0--- FINISHED SURFACE CONTOURS (0.50m INTERVAL)
  - - - - - PROPOSED ROAD CENTRELINE
  - PROPOSED CATCHMENT BOUNDARY
  - EXISTING KERB AND CHANNEL
  - PROPOSED KERB AND CHANNEL
  - PROPOSED SWALE DRAIN
  - EXISTING WATER RETICULATION
  - EXISTING UNDERGROUND ELECTRICAL
  - OH --- EXISTING OVERHEAD ELECTRICAL
  - T --- EXISTING TELECOMMUNICATIONS
  - G --- EXISTING GAS
  - PROPOSED FOOTPATH/CONCRETE
  - EXISTING FOOTPATH/CONCRETE
  - WM □ EXISTING WATER METER
  - EP ○ EXISTING ELECTRICAL POLE
  - EXISTING ELECTRICAL PILLAR

**PROPOSED STORMWATER CATCHMENT AREAS**

| CATCHMENT        | AREA (ha)          |
|------------------|--------------------|
| ROADS            | 2320m <sup>2</sup> |
| ROOF             | 4250m <sup>2</sup> |
| GROUND AND BASIN | 4110m <sup>2</sup> |

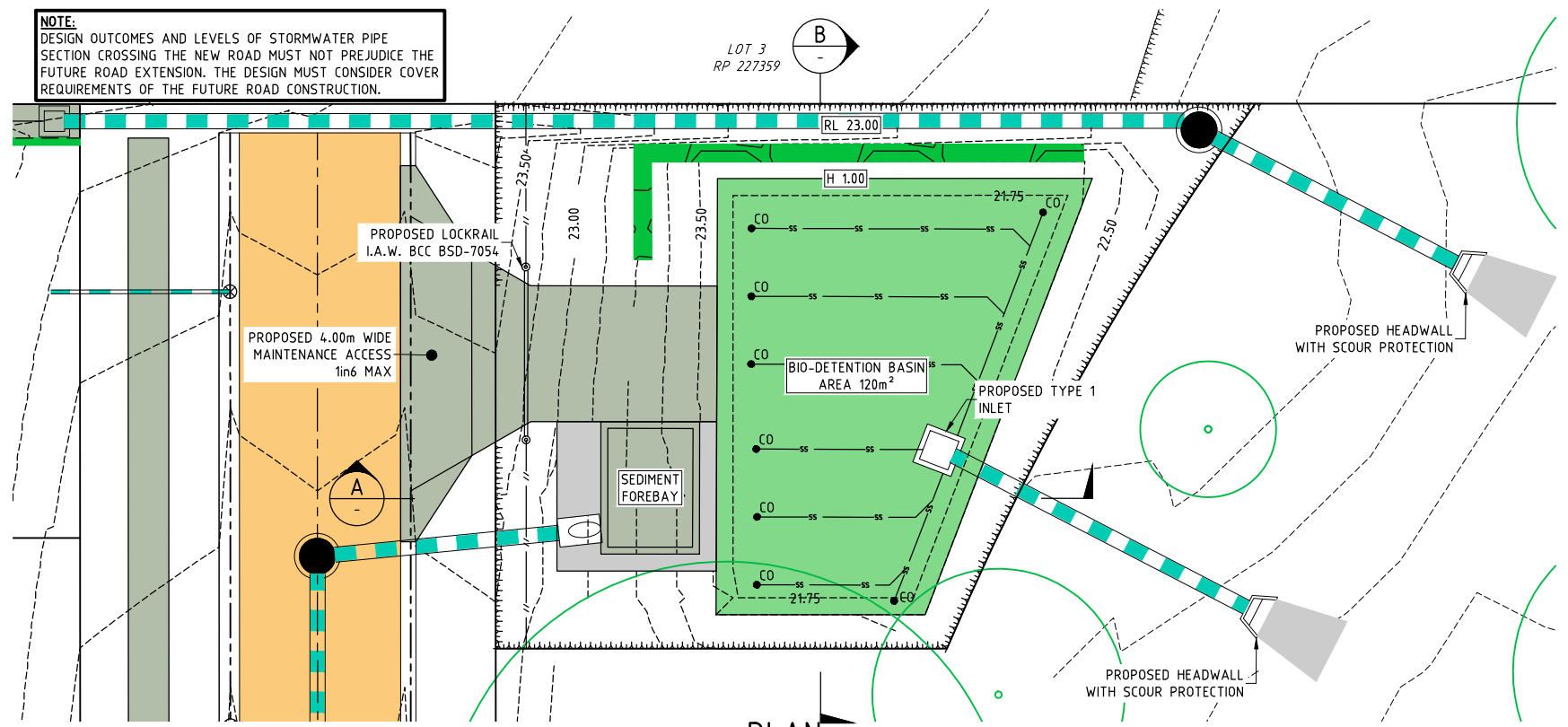
THIS DESIGN HAS BEEN PREPARED BASED ON SERVICE AUTHORITY AS CONSTRUCTED INFORMATION. NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN.

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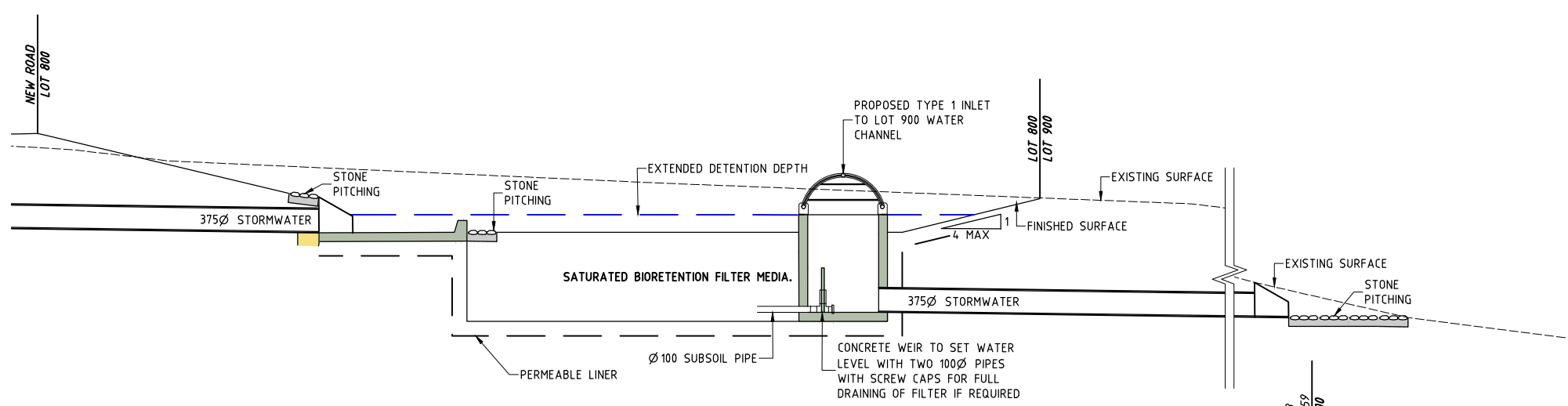
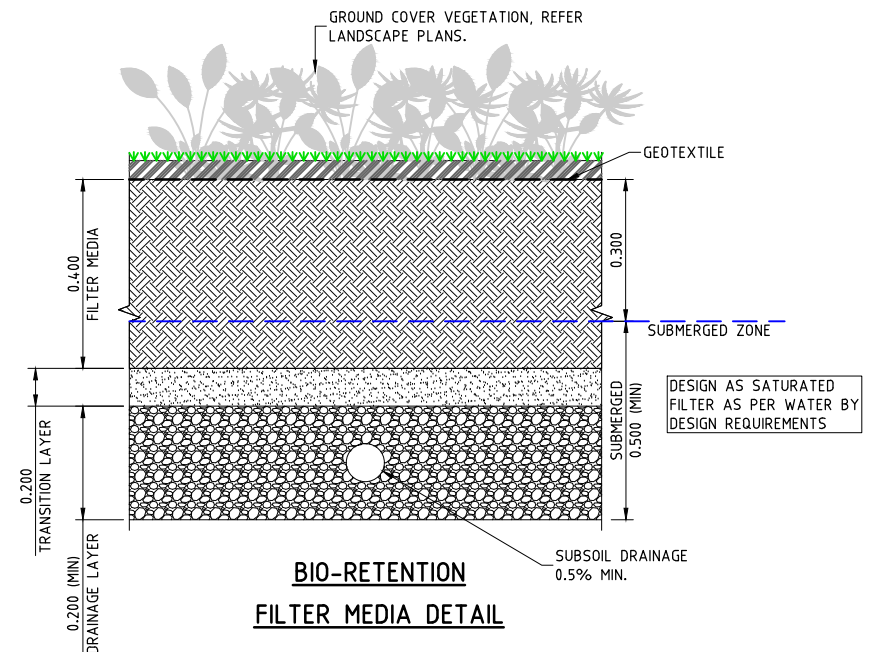
SCALE 1:500 (A1)  
(SCALE BEFORE REDUCTION)

|  |  |  |   |  |  |  |                  |  |  |
|--|--|--|---|--|--|--|------------------|--|--|
|  | <p><b>HCE ENGINEERS</b></p> <p>HCE Engineers Pty Ltd<br/>ABN 42 664 382 610<br/>mail@hce-engineers.com.au<br/>07 3829 1399</p> | <p>PROJECT</p> <p>899-905 BEAMS ROAD<br/>BRIDGEMAN DOWNS,<br/>QLD 4035</p> | <p>TITLE</p> <p>CONCEPT STORMWATER<br/>QUALITY CATCHMENT PLAN</p> | <p>CLIENT</p> <p>PLANT TURRISI PTY LTD</p> | <p>NOT FOR<br/>CONSTRUCTION.<br/>CONCEPT ONLY.</p> | <p>REVISION</p> <p>A REPORT ISSUE</p> <p>B ISSUED FOR APPROVAL</p> | <p>AMENDMENT</p> | <p>DATE</p> <p>22/05/26<br/>02/07/26</p> | <p>DO NOT SCALE.<br/>CONFIRM ALL DIMENSIONS ON SITE.</p> <p>Designed MB Drawn AD Date 20/05/2026</p> <p>Approval No. - Scale AS SHOWN</p> <p>Drawing No. 24283-SK29 Rev. B</p> |
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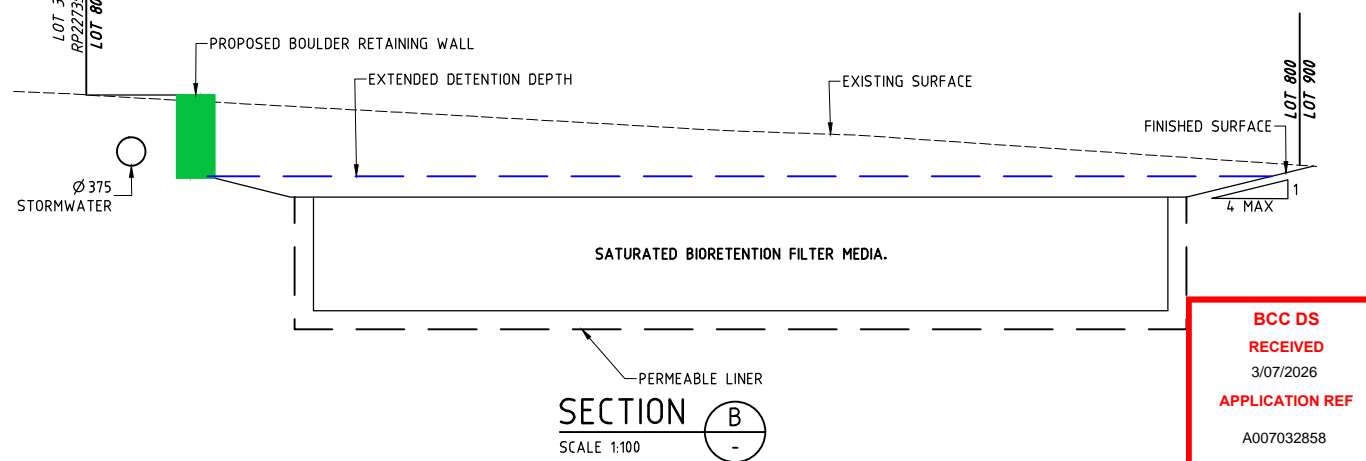
**NOTE:**  
DESIGN OUTCOMES AND LEVELS OF STORMWATER PIPE SECTION CROSSING THE NEW ROAD MUST NOT PREJUDICE THE FUTURE ROAD EXTENSION. THE DESIGN MUST CONSIDER COVER REQUIREMENTS OF THE FUTURE ROAD CONSTRUCTION.



- LEGEND**
- 10.0--- EXISTING SURFACE CONTOURS (0.50m INTERVAL)
  - 10.0--- FINISHED SURFACE CONTOURS (0.25m INTERVAL)
  - PROPOSED STORMWATER DRAINAGE
  - PROPOSED KERB AND CHANNEL
  - PROPOSED BOULDER RETAINING WALL
  - PROPOSED PAVEMENT
  - PROPOSED CONCRETE
  - STONE PITCHING



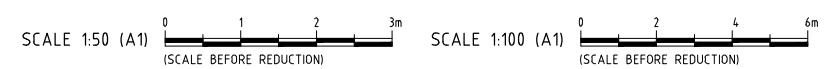
**NOTE:**  
THE DESIGN OF THE STORMWATER BASIN IS TO COMPLY WITH THE REQUIREMENTS OF THE WATERBYDESIGN BIORETENTION TECHNICAL DESIGN GUIDELINES.



**NOTE:**  
STORMWATER OUTLETS ARE TO BE DESIGNED IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY SECTION 7.8 AND QUDM SECTIONS 8.0 AND 9.9.

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|  |  |  |  |                       |   |          |                     |             |   |      |       |          |
|--|--|--|--|-----------------------|---|----------|---------------------|-------------|---|------|-------|----------|
| <p>HCE Engineers Pty Ltd<br/>ABN 42 664 382 610<br/>mail@hce-engineers.com.au<br/>07 3829 1399</p> | <p>COMPASS ASSURANCE SERVICES<br/>ISO 9001</p> | PROJECT                                      | TITLE  | CLIENT                | <p><b>NOT FOR CONSTRUCTION. CONCEPT ONLY.</b></p> | REVISION | AMENDMENT           | DATE        | DO NOT SCALE. CONFIRM ALL DIMENSIONS ON SITE. |      |       |          |
|  |  | 899-905 BEAMS ROAD BRIDGEMAN DOWNS, QLD 4035 | CONCEPT BIO-DETENTION BASIN PLAN, DETAILS AND SECTIONS | PLANT TURRISI PTY LTD |   | A        | REPORT ISSUE        | 22/05/26    | Designed                                      | MB   | AD    | Date     |
|  |  |  |  |                       |   | B        | ISSUED FOR APPROVAL | 02/07/26    | Approval No.                                  | -    | Scale | AS SHOWN |
|  |  |  |  |                       |   |          |                     | Drawing No. | 24283-SK30                                    | Rev. | B     |          |