

# EROSION & SEDIMENTATION PACKAGE – STAGE 1

An aerial photograph of a rural area. A large, irregularly shaped area is outlined with a thick red dashed line and filled with red diagonal hatching. This area is labeled 'PROPOSED SITE' in a white box with a black border. The area includes several buildings, some of which are red-roofed, and a large pond. To the left of the proposed site is a road labeled 'MAMRE ROAD'. Below the proposed site is another large pond. The surrounding area is a mix of green fields, trees, and some residential buildings.



|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
| 1.4   | UPDATED FOR RESUBMISSION                                   | 12-03-24 |
| 1.3   | UPDATED TO ADDRESS COMMENTS                                | 06-03-24 |
| 1.2   | UPDATED TO ADDRESS COMMENTS                                | 20-02-24 |
| 1.1   | UPDATED TO ADDRESS COMMENTS                                | 11-02-24 |
| 1     | UPDATED WITH ADDITIONAL SEDIMENT FENCE TO ADDRESS COMMENTS | 27-01-24 |
| D     | UPDATED TO ADDRESS COMMENTS                                | 16-01-24 |
| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
| B     | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |

Client

|                                                                                              |               |          |    |         |                                                          |                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------|---------------|----------|----|---------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scales                                                                                       | N/A           | Drawn    | BC | Project | <b>YIRIBANA LOGISTICS<br/>ESTATE - THE GPT<br/>GROUP</b> | <div style="font-size: 0.8em;">             PO Box 70<br/>             Kurrajong, NSW 2758<br/>             ABN 18 640 756 038<br/>             Tel: 0407782830           </div> |
|                                                                                              |               | Designed | BC |         |                                                          |                                                                                                                                                                                  |
| Grid                                                                                         | MGA94 ZONE 56 | Checked  | BC |         |                                                          |                                                                                                                                                                                  |
| Height Datum                                                                                 | AHD           | Approved |    |         |                                                          |                                                                                                                                                                                  |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY<br>BURTON CONTRACTORS ONLY |               |          |    |         |                                                          |                                                                                                                                                                                  |
|                                                                                              |               |          |    |         | Title                                                    |                                                                                                                                                                                  |
|                                                                                              |               |          |    |         | EROSION AND SEDIMENT CONTROL                             | Status                                                                                                                                                                           |
|                                                                                              |               |          |    |         | PLAN – COVER PAGE - SHEET 1                              | EARTHWORKS STAGE                                                                                                                                                                 |
|                                                                                              |               |          |    |         |                                                          | 2                                                                                                                                                                                |
|                                                                                              |               |          |    |         | Project No. – Drawing No.<br>P92_YBA_GPT_23-00001-ESC-RB | Issue                                                                                                                                                                            |
|                                                                                              |               |          |    |         |                                                          | 1                                                                                                                                                                                |







[illegible]

BEFORE COMMENCEMENT OF CLEARING, TOPSOIL STRIPPING AND EARTHWORKS FOR EACH AREA OF WORK, THE SITE IS TO BE SECURED AND THE EROSION AND SEDIMENT CONTROL MEASURES INSTALLED. STRIPPING AND EARTHWORKS NECESSARY TO INSTALL THE EROSION AND SEDIMENT CONTROLS ARE PERMITTED BUT MUST BE KEPT TO AN ABSOLUTE MINIMUM:

179. DURING THE EARTHWORKS FOR WAREHOUSE 2 THE EXISTING DAM WILL BE PROGRESSIVELY DECOMMISSIONED.
180. THE TRUNK DRAIN WILL BE CONSTRUCTED WHILE THE DECOMMISSIONING OF WAREHOUSE 2.
181. THE TRUNK DRAIN WILL BE FULLY OPERATIONAL SWALE.

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| DURING CONSTRUCTION - TEMPORARY STABILISATION<br>(DURING PERIODS OF INACTIVITY WHEN WORKS ARE ON HOLD) |                                                                                      |                                                                                                            |                                                                          |                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LANDS                                                                                                  | STABILISATION REQUIREMENT                                                            | TIMEFRAME                                                                                                  | TREATMENT METHODS - PRODUCTS                                             | REMARKS                                                                                                                                                                                                                    |
| HIGH RISK AREAS SOIL LOSS CLASS 6 OR ABOVE LANDS (WHERE APPLICABLE)                                    | C-FACTOR = 0.1<br>(60% GRASS COVER OR EQUIVALENT GROUND COVER)                       | APPLIES PRIOR TO RAINFALL AND AFTER 10 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER) | SOIL BINDER (ie: VITAL P47/STONEWALL OR EQUIVALENT)                      | -STABLISE ALL EXPOSED SOILS BY SPARYING SURFACES WITH VITAL P47/STORMWATER OR EQUIVALENT*.<br>-VITAL DILUTION RATE = 1 : 10 (VITAL MIXTURE).<br>- RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED. |
|                                                                                                        |                                                                                      |                                                                                                            | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT* | - COVER ALL EXPOSED SOILS.<br>-RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                    |
|                                                                                                        |                                                                                      |                                                                                                            | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT* | - COVER ALL EXPOSED SOILS.<br>-RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                    |
| ALL LANDS (INCLUDING WATERWAYS AND STOCKPILES)                                                         | APPLIES AFTER 20 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER) | APPLIES AFTER 20 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER)                       | SOIL BINDER (ie VITAL P47/STONEWALL OR EQUIVALENT*                       | -SPRAY ALL STOCKPILE SURFACES WITH VITALP47/STONEWALL OR EQUIVALENT* -VITAL DILUTION RATE = 1:10 (VITAL:WATER).<br>-APPLICATION RATE = 1L/m³ OF DILUTED VITAL MIXTURE                                                      |
|                                                                                                        |                                                                                      |                                                                                                            | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED)                | - COVER ALL EXPOSED SOILS.<br>- E-APPLY / MAINTAIN AS NECESSARY TO<br>- ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                             |

TABLE 2 - STABILISATION REQUIREMENTS AND TREATMENT METHODS CONTINUED

| POST CONSTRUCTION                                     |                                                                  |                                                                                                                     |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LANDS                                                 | STABILISATION REQUIREMENT                                        | TIMEFRAMES                                                                                                          | TREATMENT METHODS PRODUCTS                                                                                                                           | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| WATERWAYS, DRAINAGE LINES AND CONCENTRATED FLOW AREAS | C-FACTOR = 0.05<br>(70% GRASS COVER OR EQUIVALENT GROUND COVER*) | APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY CONCENTRATED FLOWS. | REFER TO THE DRAIN SPECIFICATIONS DETAILED ON THE PLAN FOR SPECIFIC LINING/STABILISATION REQUIREMENTS.<br>EXAMPLE TREATMENT METHODS ARE SHOWN BELOW. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                       |                                                                  |                                                                                                                     | TEMPORARY LINING - GEOTEXTILE (ie. BIDIM A24 OR EQUIVALENT*)                                                                                         | - COMPLETE ANY SUBSOIL TREATMENT BEFORE LAYING THE MATTING.<br>-INSTALL MATTING IN ACCORDANCE WITH SD 5-7<br>-RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                       |                                                                  |                                                                                                                     | JUTE MESH, SEEDING AND SOIL BINDER (ie VITAL P47/STONEWALL OR EQUIVALENT*)<br>- LOW FLOWS                                                            | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING *.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT*.<br>- WATERWAYS AND (50% GRASS COVER OR * OF INACTIVITY LEVEN THOUGH MONTHS-<br>- VITAL DILUTION RATE = 1:10 (VITAL:WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.      |
|                                                       |                                                                  |                                                                                                                     | JUTE MATTING ( 350gsm) AND SEEDING OR EQUIVALENT*<br>- LOW TO MODERATE FLOWS                                                                         | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING *.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT*.<br>- WATERWAYS AND (50% GRASS COVER OR * OF INACTIVITY LEVEN THOUGH MONTHS-<br>- VITAL DILUTION RATE = 1:10 (VITAL:WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.      |
|                                                       |                                                                  |                                                                                                                     | - TURN REINFORCEMENT MATTING (TRM) (e.g TERRAMAT OR EQUIVALENT*) (TRN) -MODERATE FLOWS                                                               | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.                                                                                                                                                                                                                                                                                                               |
|                                                       |                                                                  |                                                                                                                     | ROCK LINING<br>- HIGH FLOWS                                                                                                                          | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.                                                                                                                                                                                                                                                                                                               |
|                                                       |                                                                  | APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION                                                          | SEEDING AND SOIL BINDER (ie VITAL P47/ STONEWALL OR EQUIVALENT*)                                                                                     | - APPLY SEED TO ALL STOCKPILE SURFACES (NOTE: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT).<br>- SPRAY ALL STOCKPILE SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT*.<br>- VITAL DILUTION RATE = 1L / m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.                                                                                                                                                                                                                                                                                                                              |
|                                                       |                                                                  |                                                                                                                     | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT*                                                                             | - COVER ALL EXPOSED SOILS.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                       |                                                                  | C-FACTOR = 0.10 / 0.05<br>(60% GRASS COVER OR EQUIVALENT GROUND COVER*)                                             | TOPSOIL, SEEDING AND SOIL BINDER (ie VITAL P47/STONEWALL OR EQUIVALENT*)                                                                             | -REFER TO SD 7-1<br>-COMPLETE SUBSOIL TREATMENT (ie GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- APPLY ANY FERTILISERS REQUIRED.<br>- APPLY SEED TO ALL SURFACES (Note: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT*.<br>- VITAL DILUTION RATE = 1:10 (VITAL:WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED. |
|                                                       |                                                                  |                                                                                                                     | HYDROMLUCH OR EQUIVALENT*                                                                                                                            | -REFER TO SD 7-1<br>-COMPLETE SUBSOIL TREATMENT (ie GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- APPLY ANY FERTILISERS REQUIRED.<br>- APPLY SEED TO ALL SURFACES (Note: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT*.<br>- VITAL DILUTION RATE = 1:10 (VITAL:WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED. |

|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
| 1.4   | UPDATED FOR RESUBMISSION                                   | 12-03-24 |
| 1.3   | UPDATED TO ADDRESS COMMENTS                                | 06-03-24 |
| 1.2   | UPDATED TO ADDRESS COMMENTS                                | 20-02-24 |
| 1.1   | UPDATED TO ADDRESS COMMENTS                                | 11-02-24 |
| 1     | UPDATED WITH ADDITIONAL SEDIMENT FENCE TO ADDRESS COMMENTS | 27-01-24 |
| D     | UPDATED TO ADDRESS COMMENTS                                | 16-01-24 |
| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
| B     | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |



Client



Scales

N/A

Drawn

BC

Project

YIRIBANA LOGISTICS  
ESTATE - THE GPT  
GROUP

OCHRE ENVIRONMETAL MANAGEMENT  
 PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830

Grid

MGA94 ZONE 56

Designed

BC

Height Datum

AHD

Checked

BC

Approved

THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY

Title

EROSION AND SEDIMENT CONTROL

PLAN – NOTES - SHEET 5

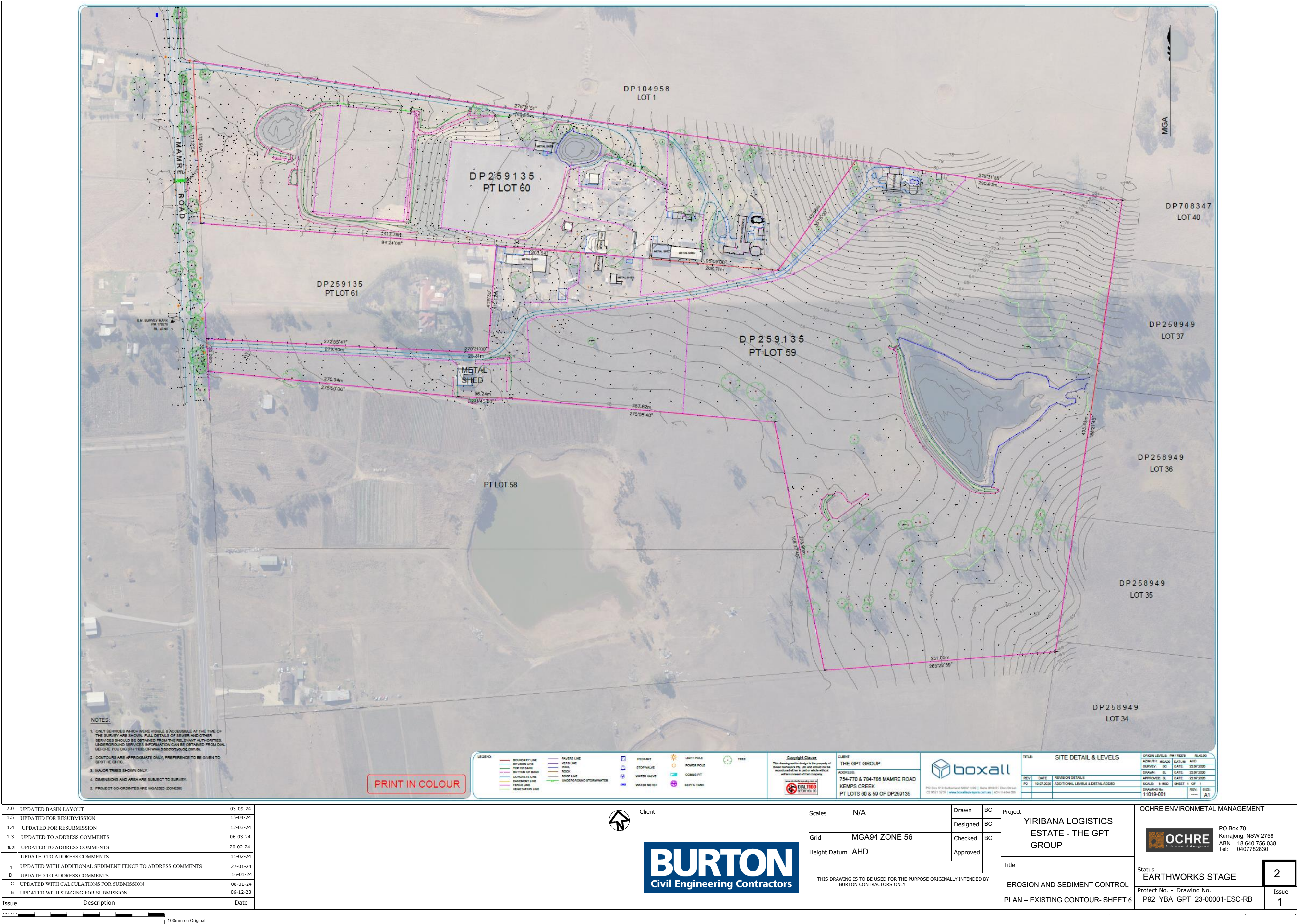
Status  
EARTHWORKS STAGE

2

Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

Issue  
1





NOTES:

1. ONLY SERVICES WHICH WERE VISIBLE & ACCESSIBLE AT THE TIME OF THE SURVEY ARE SHOWN. FULL DETAILS OF SEWER AND OTHER SERVICES SHOULD BE OBTAINED FROM THE RELEVANT AUTHORITIES. UNDERGROUND SERVICES INFORMATION CAN BE OBTAINED FROM DAL BEFORE YOU DIG (PH 1100), OR [www.stateforeyoung.com.au](http://www.stateforeyoung.com.au).

2. CONTOURS ARE APPROXIMATE ONLY, PREFERENCE TO BE GIVEN TO SPOT HEIGHTS.

3. MAJOR TREES SHOWN ONLY.

4. DIMENSIONS AND AREA ARE SUBJECT TO SURVEY.

5. PROJECT CO-ORDINATES ARE MGA2020 (ZONES56)

PRINT IN COLOUR

LEGEND:

- BOUNDARY LINE
- SETBACK LINE
- TOP OF BANK
- BOTTOM OF BANK
- CONCRETE LINE
- SEDIMENT FENCE LINE
- VEGETATION LINE
- PAVERS LINE
- KERB LINE
- POOL
- ROCK
- ROOF LINE
- UNDERGROUND STORM WATER

- HYDRANT
- STOP VALVE
- WATER VALVE
- WATER METER
- LIGHT POLE
- POWER POLE
- COMING PIT
- SEPTIC TANK
- TREE

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THE GPT GROUP

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KEMPS CREEK

PT LOTS 60 & 59 OF DP259135

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02 9221 5177 | [www.boxallenviro.com.au](http://www.boxallenviro.com.au) | 4021-11-000-000

TITLE: SITE DETAIL & LEVELS

| REV | DATE       | REVISION DETAILS                 |
|-----|------------|----------------------------------|
| PS  | 10.07.2020 | ADDITIONAL LEVELS & DETAIL ADDED |

SCALE: 1:1000 SHEET 1 OF 1

DRAWING No: 11019-001

REV: A1

ORIGIN LEVELS: PM 175278 RL43.90

ADJUSTED: MGA2020 DATUM AND

SURVEY: BC DATE: 22.07.2020

DRAWN: SL DATE: 22.07.2020

APPROVED: SL DATE: 22.07.2020

SCALE: 1:1000 SHEET 1 OF 1

DRAWING No: 11019-001

REV: A1

|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
| 1.4   | UPDATED FOR RESUBMISSION                                   | 12-03-24 |
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| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
| B     | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |

100mm on Original

Client

**BURTON**

Civil Engineering Contractors

Scales N/A

Grid MGA94 ZONE 56

Height Datum AHD

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Drawn BC

Designed BC

Checked BC

Approved

Project

YIRIBANA LOGISTICS ESTATE - THE GPT GROUP

Title

EROSION AND SEDIMENT CONTROL PLAN - EXISTING CONTOUR- SHEET 6

OCHRE ENVIRONMETAL MANAGEMENT

**OCHRE**

PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830

Status

EARTHWORKS STAGE

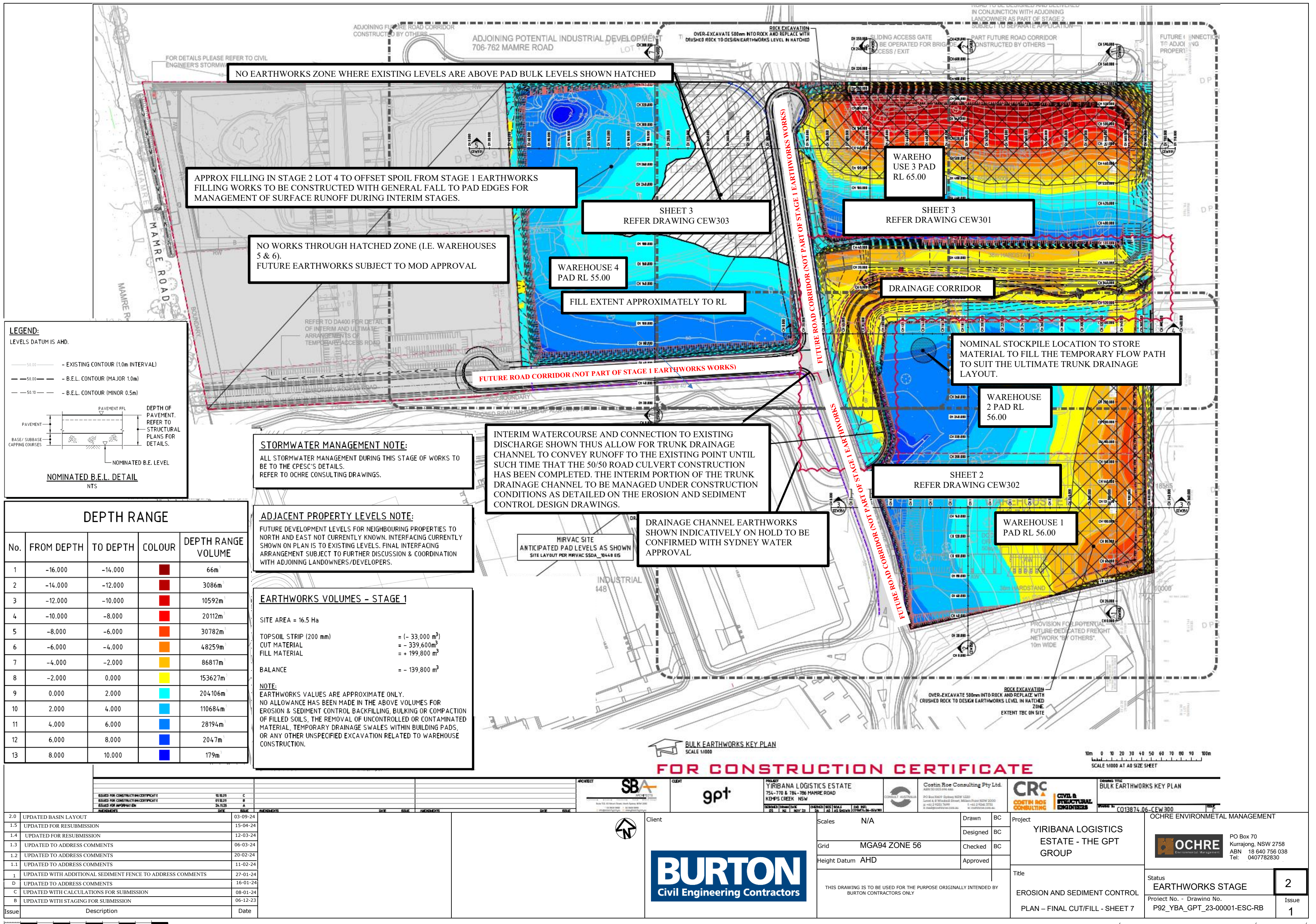
Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

Issue

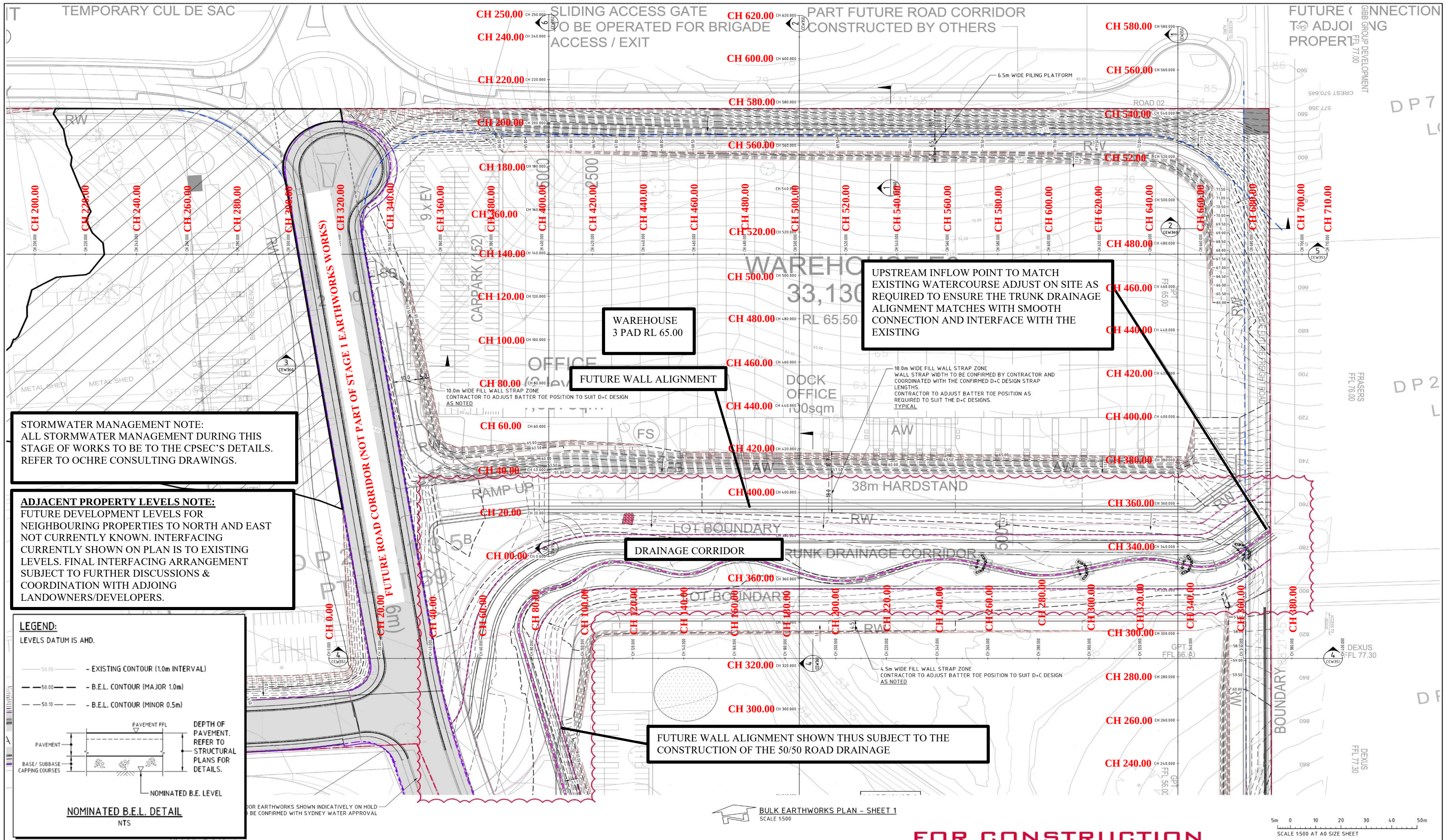
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|                                     |  |  |          |       |            |  |  |                                                                                       |       |            |        |  |      |                                                                                       |            |  |                                                                                                                                                     |      |       |                                                                                       |  |  |                                                      |       |            |                                                                                       |  |      |               |            |  |                                 |      |       |
|-------------------------------------|--|--|----------|-------|------------|--|--|---------------------------------------------------------------------------------------|-------|------------|--------|--|------|---------------------------------------------------------------------------------------|------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|---------------------------------------------------------------------------------------|--|--|------------------------------------------------------|-------|------------|---------------------------------------------------------------------------------------|--|------|---------------|------------|--|---------------------------------|------|-------|
| ISSUED FOR CONSTRUCTION             |  |  | 15.12.23 | 0     | ARCHITECT  |  |  |  |       |            | CLIENT |  |      |  |            |  | PROJECT                                                                                                                                             |      |       |  |  |  | Costin Roe Consulting Pty Ltd.<br>ABN 50 003 090 446 |       |            |  |  |      | DRAWING TITLE |            |  | BULK EARTHWORKS PLAN<br>SHEET 1 |      |       |
| ISSUED FOR CONSTRUCTION CERTIFICATE |  |  | 12.12.23 | C     |            |  |  |                                                                                       |       |            |        |  |      |                                                                                       |            |  | PO Box 9410 Sydney NSW 1520<br>Level 4, 5 & Woodmill Street, Millers Point NSW 2000<br>e -01 2 9251 7069<br>e-mail -p.construction@costinroe.com.au |      |       | e -01 2 9241 3731<br>w -costinroe.com.au                                              |  |  |                                                      |       |            |                                                                                       |  |      |               |            |  |                                 |      |       |
| ISSUED FOR CONSTRUCTION CERTIFICATE |  |  | 01.12.23 | B     |            |  |  |                                                                                       |       |            |        |  |      |                                                                                       |            |  |                                                                                                                                                     |      |       |                                                                                       |  |  |                                                      |       |            |                                                                                       |  |      |               |            |  |                                 |      |       |
| ISSUED FOR INFORMATION              |  |  | 24.11.23 | A     |            |  |  |                                                                                       |       |            |        |  |      |                                                                                       |            |  |                                                                                                                                                     |      |       |                                                                                       |  |  |                                                      |       |            |                                                                                       |  |      |               |            |  |                                 |      |       |
| AMENDMENTS                          |  |  | DATE     | ISSUE | AMENDMENTS |  |  | DATE                                                                                  | ISSUE | AMENDMENTS |        |  | DATE | ISSUE                                                                                 | AMENDMENTS |  |                                                                                                                                                     | DATE | ISSUE | AMENDMENTS                                                                            |  |  | DATE                                                 | ISSUE | AMENDMENTS |                                                                                       |  | DATE | ISSUE         | AMENDMENTS |  |                                 | DATE | ISSUE |
|                                     |  |  |          |       |            |  |  |                                                                                       |       |            |        |  |      |                                                                                       |            |  |                                                                                                                                                     |      |       |                                                                                       |  |  |                                                      |       |            |                                                                                       |  |      |               |            |  |                                 |      |       |

|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
| 1.4   | UPDATED FOR RESUBMISSION                                   | 12-03-24 |
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| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
| B     | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |



Client

**BURTON**  
Civil Engineering Contractors

Scales N/A

Grid MGA94 ZONE 56

Height Datum AHD

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Drawn BC

Designed BC

Checked BC

Approved

Project  
YIRIBANA LOGISTICS  
ESTATE - THE GPT  
GROUP

Title  
EROSION AND SEDIMENT CONTROL  
PLAN - EARTHWORKS PLAN - SHEET 8

OCHRE ENVIRONMENTAL MANAGEMENT

**OCHRE**  
Environmental Management  
PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830

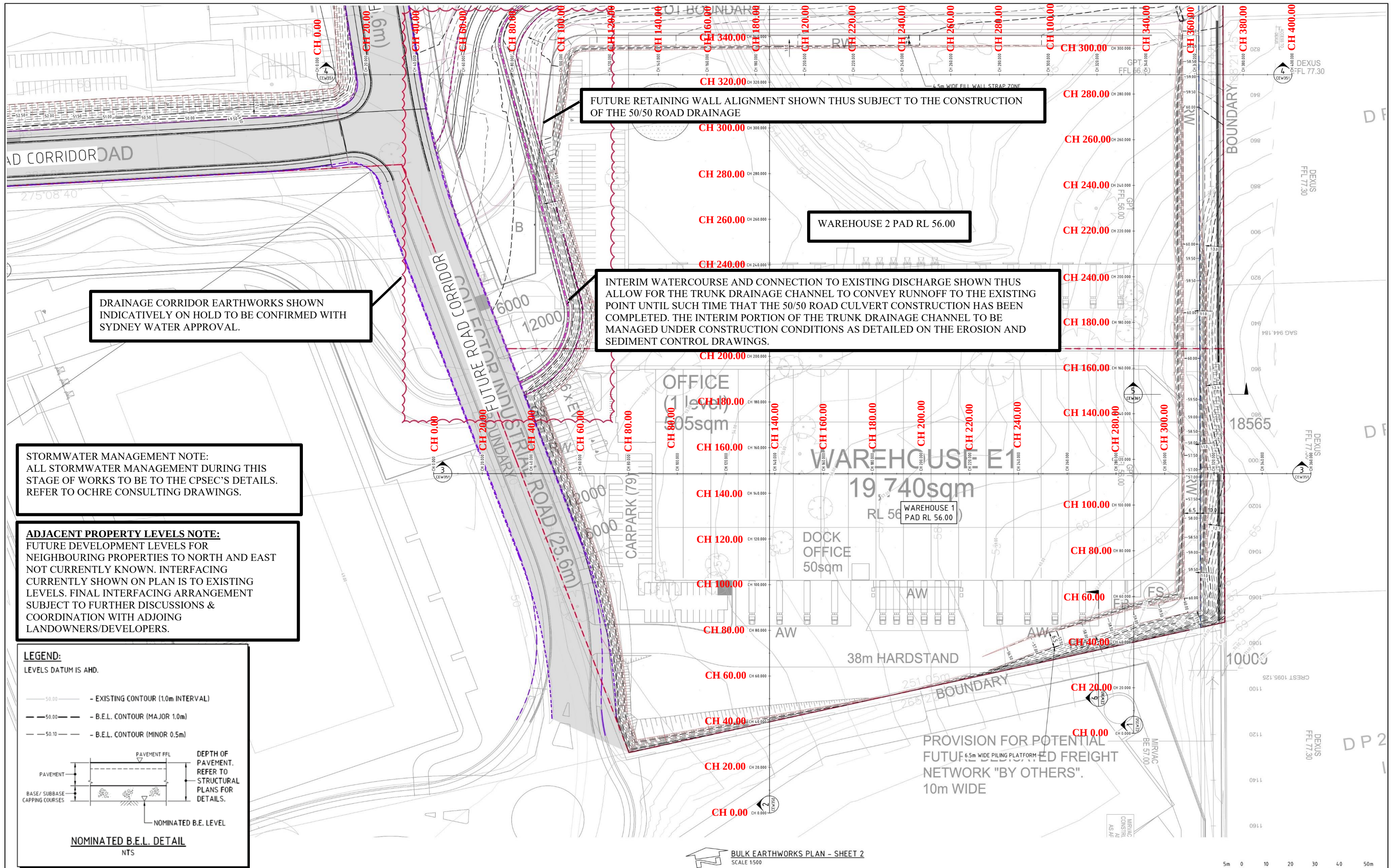
Status  
EARTHWORKS STAGE

Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

2

Issue  
1





FOR CONSTRUCTION

BULK EARTHWORKS PLAN - SHEET 2  
SCALE 1:500

|                                     |          |       |
|-------------------------------------|----------|-------|
| ISSUED FOR CONSTRUCTION             | 15.12.23 | 0     |
| ISSUED FOR CONSTRUCTION CERTIFICATE | 12.12.23 | C     |
| ISSUED FOR CONSTRUCTION CERTIFICATE | 01.12.23 | B     |
| ISSUED FOR INFORMATION              | 25.11.23 | A     |
| AMENDMENTS                          | DATE     | ISSUE |

ARCHITECT

SBA ARCHITECTS

CLIENT

gpt

PROJECT

YIRIBANA LOGISTICS ESTATE  
754-770 & 784-786 HAMRE ROAD  
KEMPS CREEK, NSW

DESIGNED

DRIVEN

DATE

CHECKED

SCALE

AS SHOWN

DATE

NOV 23

SCALE

AS SHOWN

DATE

COT13874.06-CEW302

CONSULT

AUSTRALIA

COSTIN ROE CONSULTING

PO Box 4410 Sydney NSW 1520  
Level 4 & 5 Woodville Street, Millers Point NSW 2000  
p: +61 2 9251 7099 f: +61 2 9251 3738  
e: info@costinroe.com.au w: costinroe.com.au

CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE

BULK EARTHWORKS PLAN  
SHEET 2

DRAWING No

C013874.06-CEW302

|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
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| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
| B     | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |



Client

**BURTON**  
Civil Engineering Contractors

Scales N/A

Grid MGA94 ZONE 56

Height Datum AHD

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Drawn BC

Designed BC

Checked BC

Approved

Project

YIRIBANA LOGISTICS ESTATE - THE GPT GROUP

Title

EROSION AND SEDIMENT CONTROL  
PLAN - EARTHWORKS PLAN - SHEET 9

OCHRE ENVIRONMETAL MANAGEMENT

**OCHRE**  
Environmental Management

PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830

Status

EARTHWORKS STAGE

Project No. - Drawing No.

P92\_YBA\_GPT\_23-00001-ESC-RB

Issue

2

1

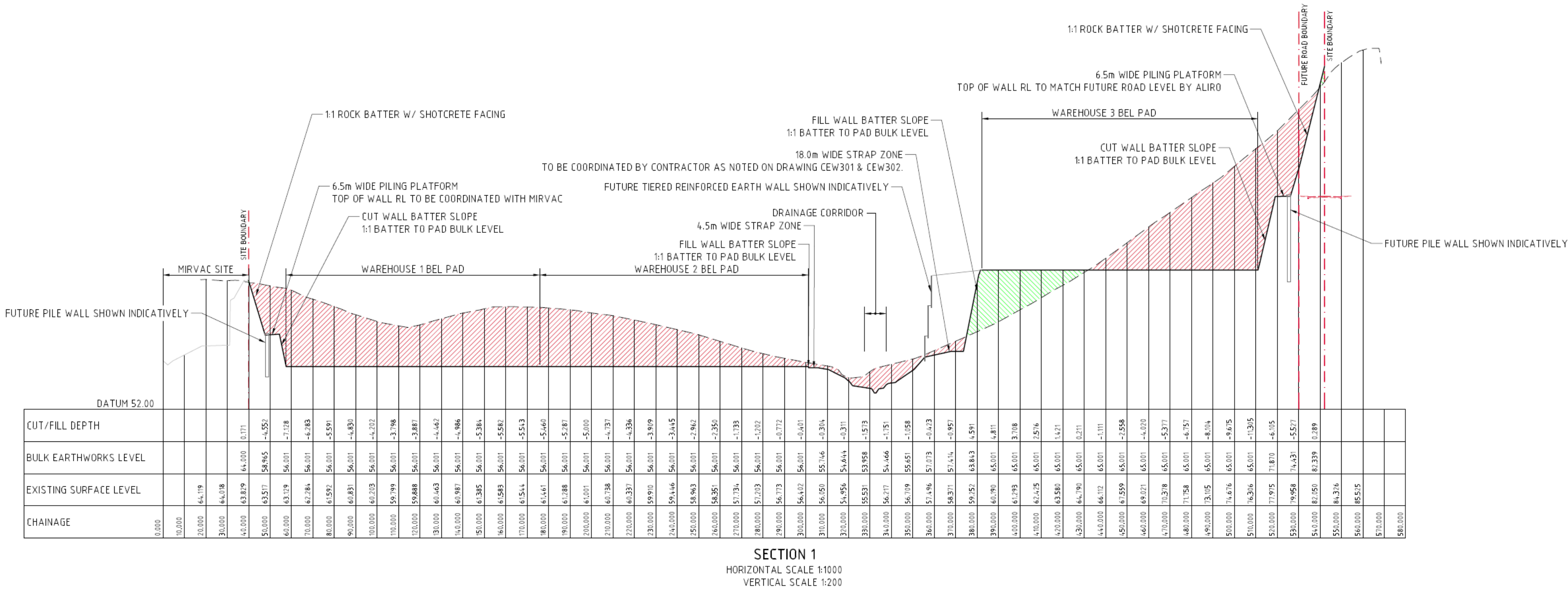






LEGEND:

- DENOTES BULK EARTHWORKS PROFILE
- DENOTES EXISTING PROFILE
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL



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|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
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| R     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
|       | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |



Client



|                                                                                           |               |          |    |
|-------------------------------------------------------------------------------------------|---------------|----------|----|
| Scales                                                                                    | N/A           | Drawn    | BC |
|                                                                                           |               | Designed | BC |
| Grid                                                                                      | MGA94 ZONE 56 | Checked  | BC |
| Height Datum                                                                              | AHD           | Approved |    |
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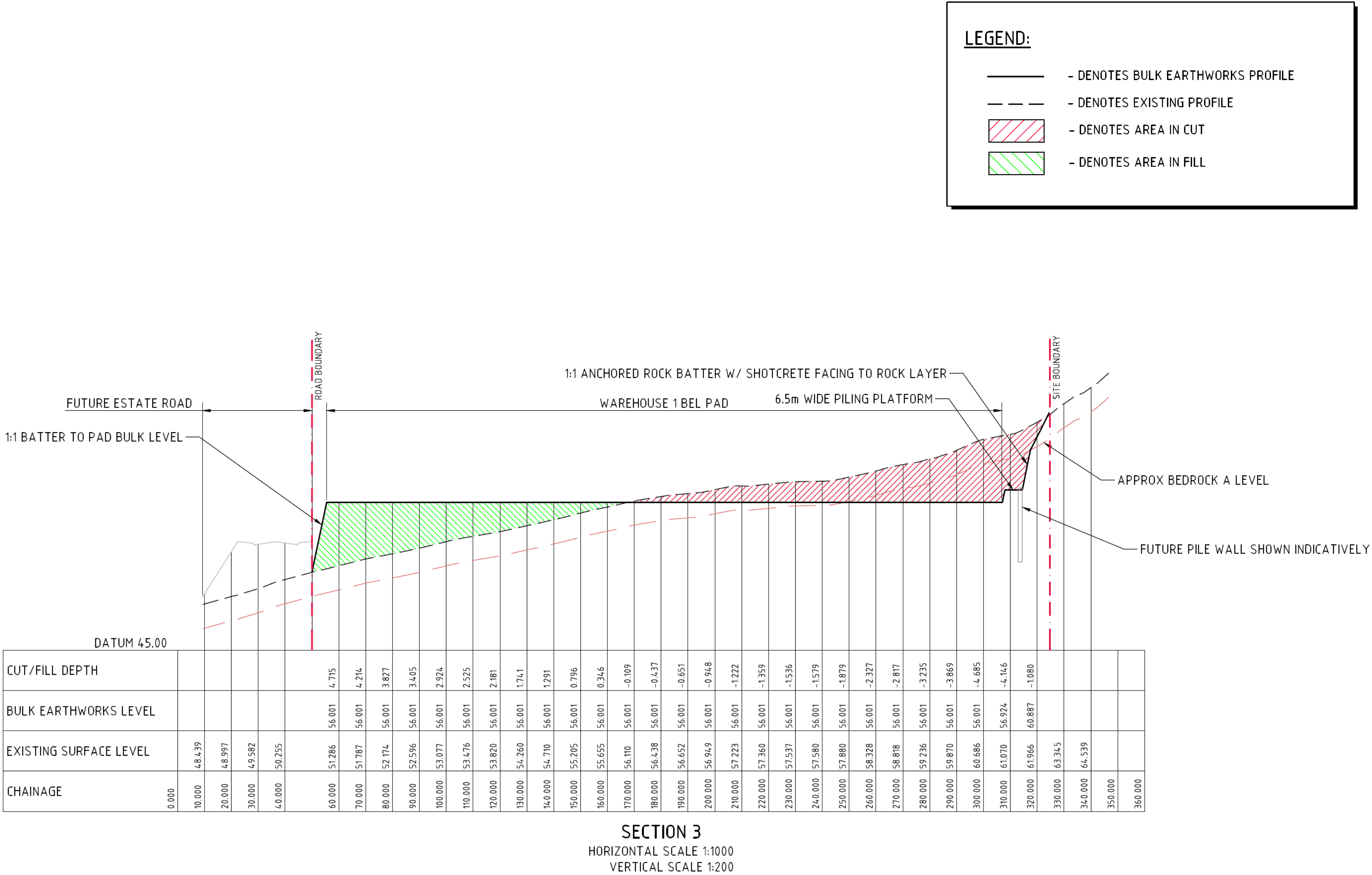
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|---------|---------------------------------------------------------------|
| Project | YIRIBANA LOGISTICS ESTATE - THE GPT GROUP                     |
| Title   | EROSION AND SEDIMENT CONTROL PLAN – CROSS-SECTIONS - SHEET 11 |

|                                                          |                                                                           |
|----------------------------------------------------------|---------------------------------------------------------------------------|
| OCHRE ENVIRONMETAL MANAGEMENT                            |                                                                           |
|                                                          | PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407762830 |
| Status<br>EARTHWORKS STAGE                               | 2                                                                         |
| Project No. - Drawing No.<br>P92_YBA_GPT_23-00001-ESC-RB | Issue<br>1                                                                |









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|-------|------------------------------------------------------------|----------|
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| Issue | Description                                                | Date     |



Client



Scales

N/A

Drawn

BC

Designed

BC

Grid

MGA94 ZONE 56

Checked

BC

Height Datum

AHD

Approved

Project

YIRIBANA LOGISTICS  
ESTATE - THE GPT  
GROUP

Title

EROSION AND SEDIMENT CONTROL  
PLAN – CROSS-SECTIONS - SHEET 13

OCHRE ENVIRONMETAL MANAGEMENT



PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407762830

Status

EARTHWORKS STAGE

Project No. - Drawing No.

P92\_YBA\_GPT\_23-00001-ESC-RB

2

Issue

1







 - DENOTES BULK EARTHWORKS PROFILE  
 - DENOTES EXISTING PROFILE  
 - DENOTES AREA IN CUT  
 - DENOTES AREA IN FILL



|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
| 1.4   | UPDATED FOR RESUBMISSION                                   | 12-03-24 |
| 1.3   | UPDATED TO ADDRESS COMMENTS                                | 06-03-24 |
| 1.2   | UPDATED TO ADDRESS COMMENTS                                | 20-02-24 |
| 1.1   | UPDATED TO ADDRESS COMMENTS                                | 11-02-24 |
| 1     | UPDATED WITH ADDITIONAL SEDIMENT FENCE TO ADDRESS COMMENTS | 27-01-24 |
| D     | UPDATED TO ADDRESS COMMENTS                                | 16-01-24 |
| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
| B     | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |

Client

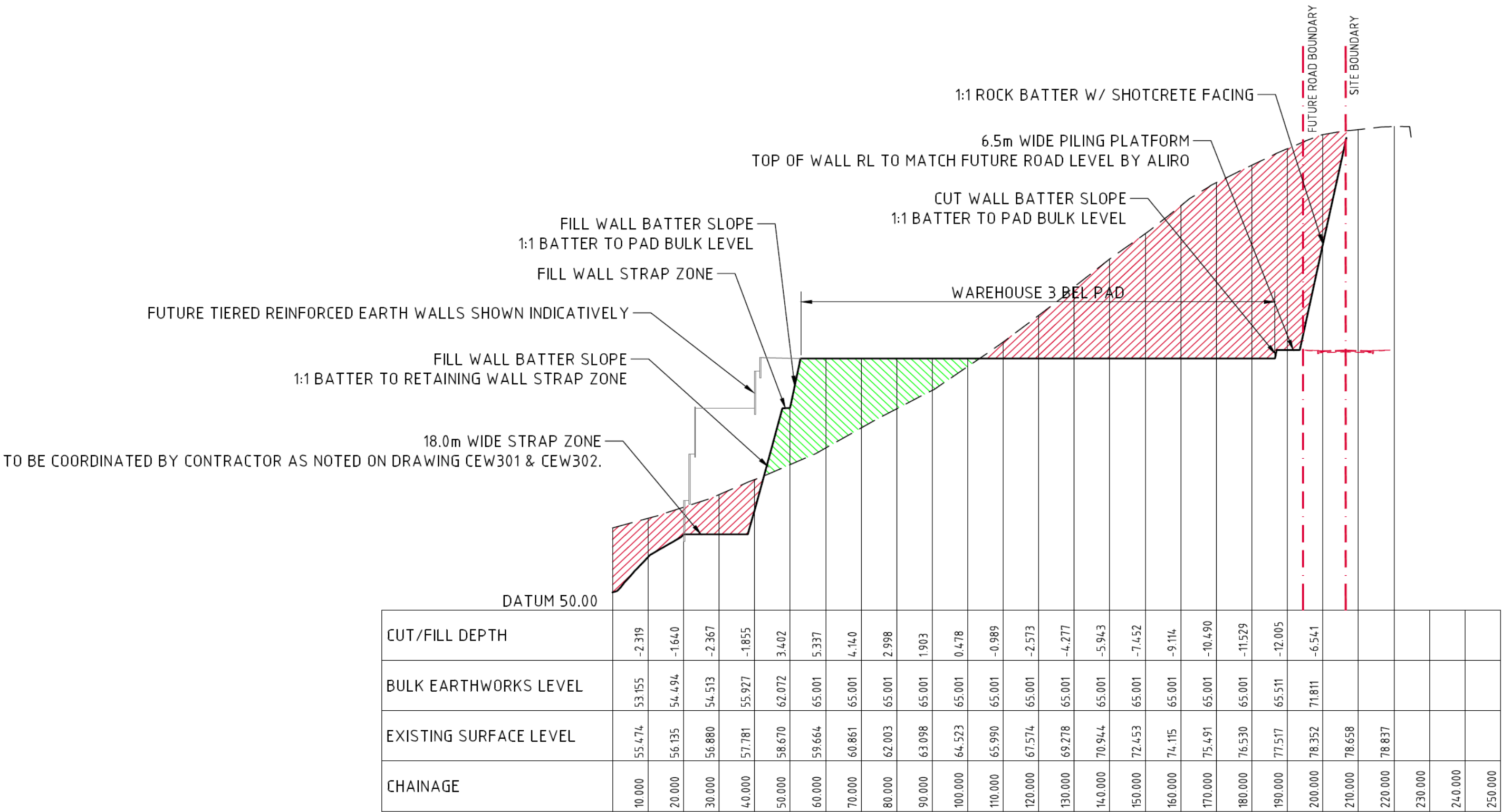
|                                                                                              |              |          |    |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------|--------------|----------|----|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scales                                                                                       | N/A          | Drawn    | BC | Project<br><b>YIRIBANA LOGISTICS<br/>ESTATE - THE GPT<br/>GROUP</b>               | <div style="text-align: center;"> <p>PO Box 70<br/>Kurrajong, NSW 2758<br/>ABN 18 640 756 038<br/>Tel: 0407782830</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Status<br/><b>EARTHWORKS STAGE</b> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Project No. - Drawing No.<br/><b>P92_YBA_GPT_23-00001-ESC-RB</b> </div> |
| Grid                                                                                         | MG94 ZONE 56 | Designed | BC |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                              |
| Height Datum                                                                                 | AHD          | Checked  | BC |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                              |              | Approved |    | Title<br><b>EROSION AND SEDIMENT CONTROL<br/>PLAN - CROSS-SECTIONS - SHEET 15</b> |                                                                                                                                                                                                                                                                                                                                                                                              |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY<br>BURTON CONTRACTORS ONLY |              |          |    |                                                                                   | <div style="border: 2px solid black; width: 30px; height: 30px; line-height: 30px; margin: 0 auto;">2</div>                                                                                                                                                                                                                                                                                  |
|                                                                                              |              |          |    |                                                                                   | <div style="border: 1px solid black; width: 30px; height: 30px; line-height: 30px; margin: 0 auto;">1</div>                                                                                                                                                                                                                                                                                  |

100mm on Original



LEGEND:

- DENOTES BULK EARTHWORKS PROFILE
- DENOTES EXISTING PROFILE
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL



SECTION 6  
HORIZONTAL SCALE 1:1000  
VERTICAL SCALE 1:200

|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
| 1.4   | UPDATED FOR RESUBMISSION                                   | 12-03-24 |
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| 1.2   | UPDATED TO ADDRESS COMMENTS                                | 20-02-24 |
| 1.1   | UPDATED TO ADDRESS COMMENTS                                | 11-02-24 |
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| D     | UPDATED TO ADDRESS COMMENTS                                | 16-01-24 |
| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
| B     | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |



Client

Scales N/A

Grid MGA94 ZONE 56

Height Datum AHD

Drawn BC

Designed BC

Checked BC

Approved

Project  
YIRIBANA LOGISTICS  
ESTATE - THE GPT  
GROUP

Title  
EROSION AND SEDIMENT CONTROL  
PLAN – CROSS-SECTIONS - SHEET 16

OCHRE ENVIRONMETAL MANAGEMENT



PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830

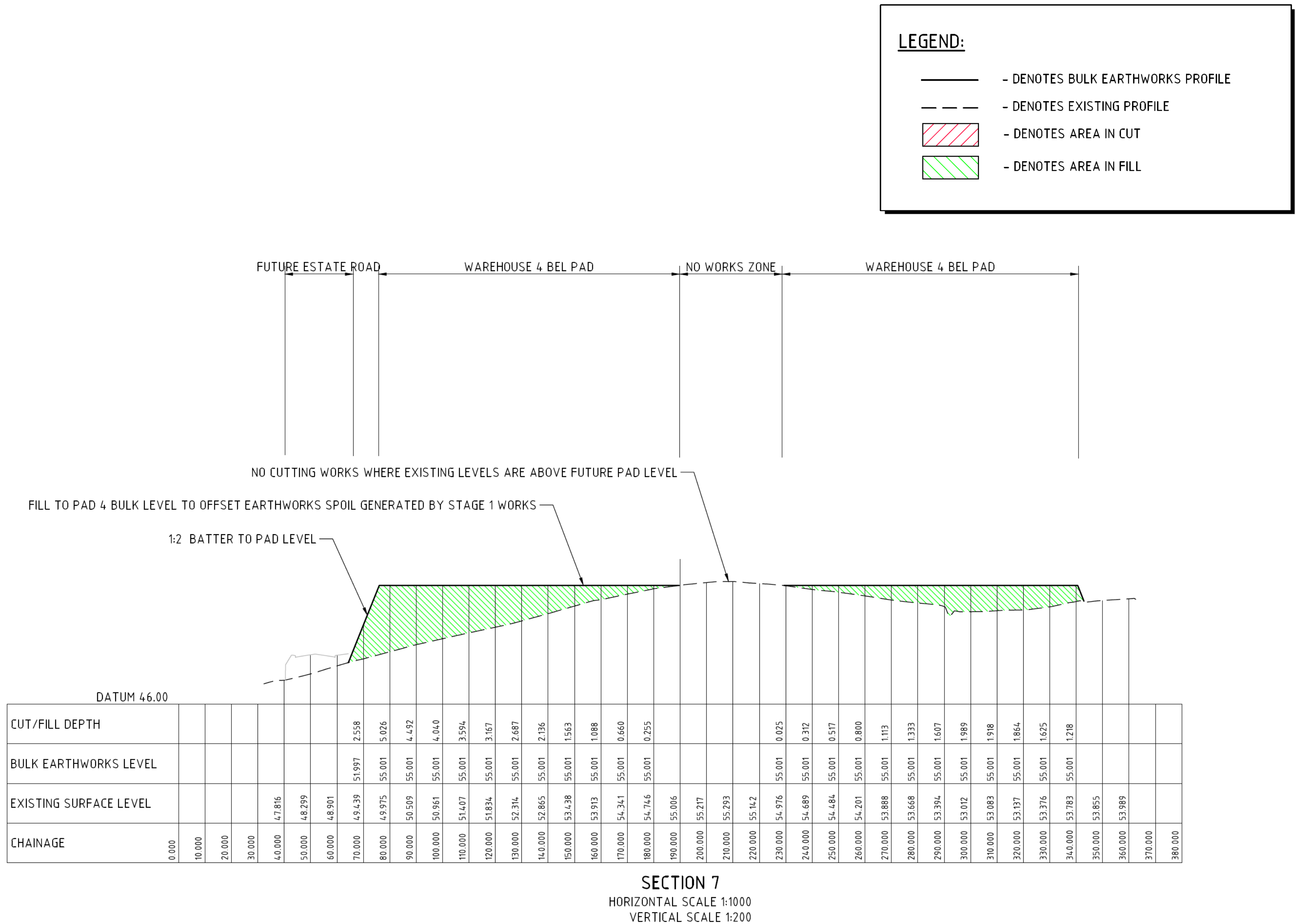
Status  
EARTHWORKS STAGE

Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

2

Issue  
1





|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
| 1.4   | UPDATED FOR RESUBMISSION                                   | 12-03-24 |
| 1.3   | UPDATED TO ADDRESS COMMENTS                                | 06-03-24 |
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| 1.1   | UPDATED TO ADDRESS COMMENTS                                | 11-02-24 |
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| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
| B     | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |




Client

Scales

N/A

Grid

MGA94 ZONE 56

Height Datum

AHD

Drawn

BC

Designed

BC

Checked

BC

Approved

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Project

YIRIBANA LOGISTICS ESTATE - THE GPT GROUP

Title

EROSION AND SEDIMENT CONTROL PLAN – CROSS-SECTIONS - SHEET 17

OCHRE ENVIRONMENTAL MANAGEMENT



PO Box 70

Kurrajong, NSW 2758

ABN 18 640 756 038

Tel: 0407782830

Status

EARTHWORKS STAGE

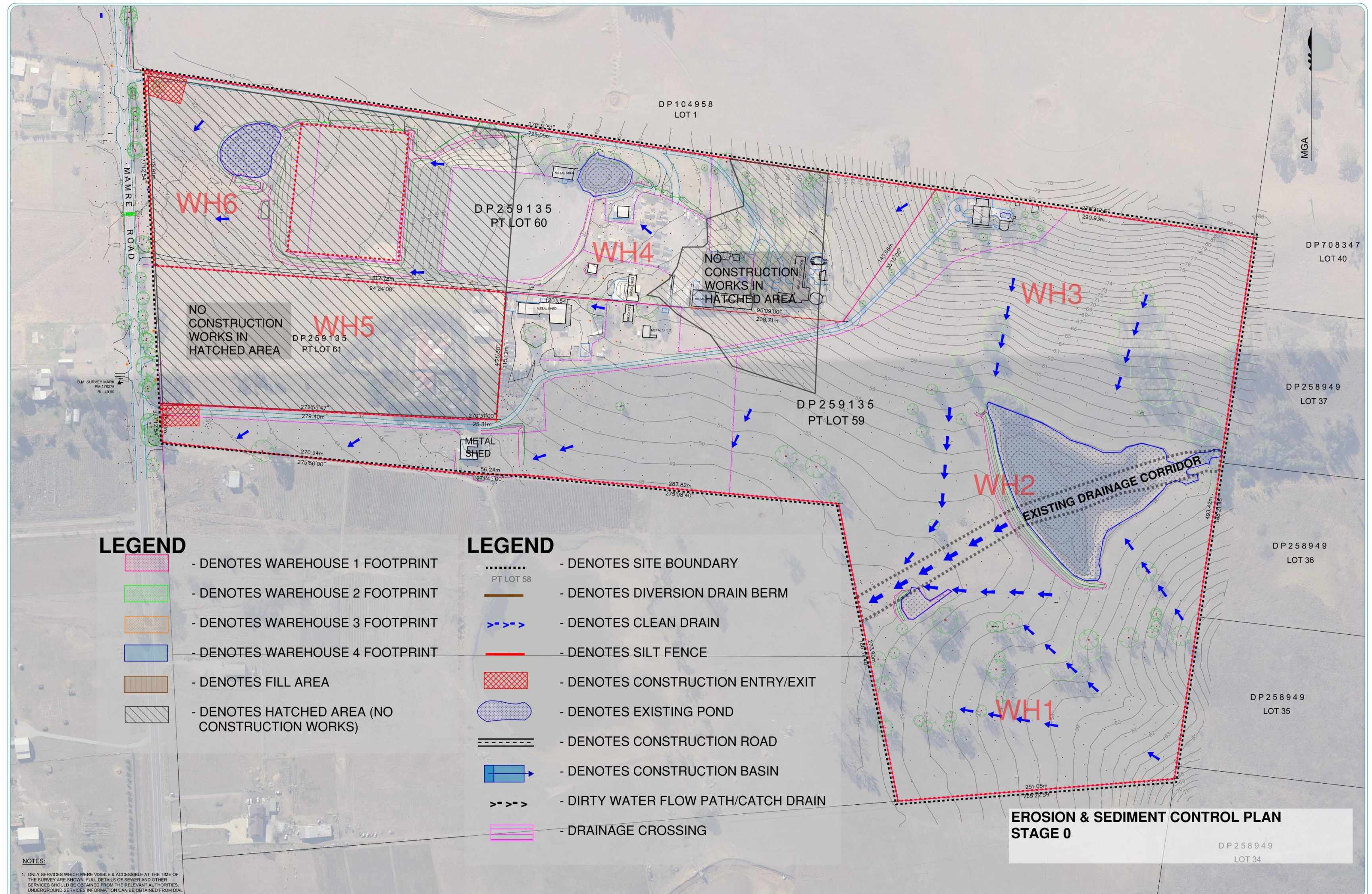
Project No. - Drawing No.

P92\_YBA\_GPT\_23-00001-ESC-RB

Issue

1





|       |                                                            |          |
|-------|------------------------------------------------------------|----------|
| 2.0   | UPDATED BASIN LAYOUT                                       | 03-09-24 |
| 1.5   | UPDATED FOR RESUBMISSION                                   | 15-04-24 |
| 1.4   | UPDATED FOR RESUBMISSION                                   | 12-03-24 |
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| 1.1   | UPDATED TO ADDRESS COMMENTS                                | 11-02-24 |
| 1     | UPDATED WITH ADDITIONAL SEDIMENT FENCE TO ADDRESS COMMENTS | 27-01-24 |
| D     | UPDATED TO ADDRESS COMMENTS                                | 16-01-24 |
| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                   | 08-01-24 |
| B     | UPDATED WITH STAGING FOR SUBMISSION                        | 06-12-23 |
| Issue | Description                                                | Date     |

100mm on Original



Client

**BURTON**  
Civil Engineering Contractors

Scales N/A

Grid MGA94 ZONE 56

Height Datum AHD

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Drawn BC

Designed BC

Checked BC

Approved

Project  
YIRIBANA LOGISTICS  
ESTATE - THE GPT  
GROUP

Title  
EROSION AND SEDIMENT CONTROL  
PLAN -- EXISTING DRAINAGE SHEET 18

OCHRE ENVIRONMETAL MANAGEMENT

**OCHRE**  
Environmental Management  
PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830

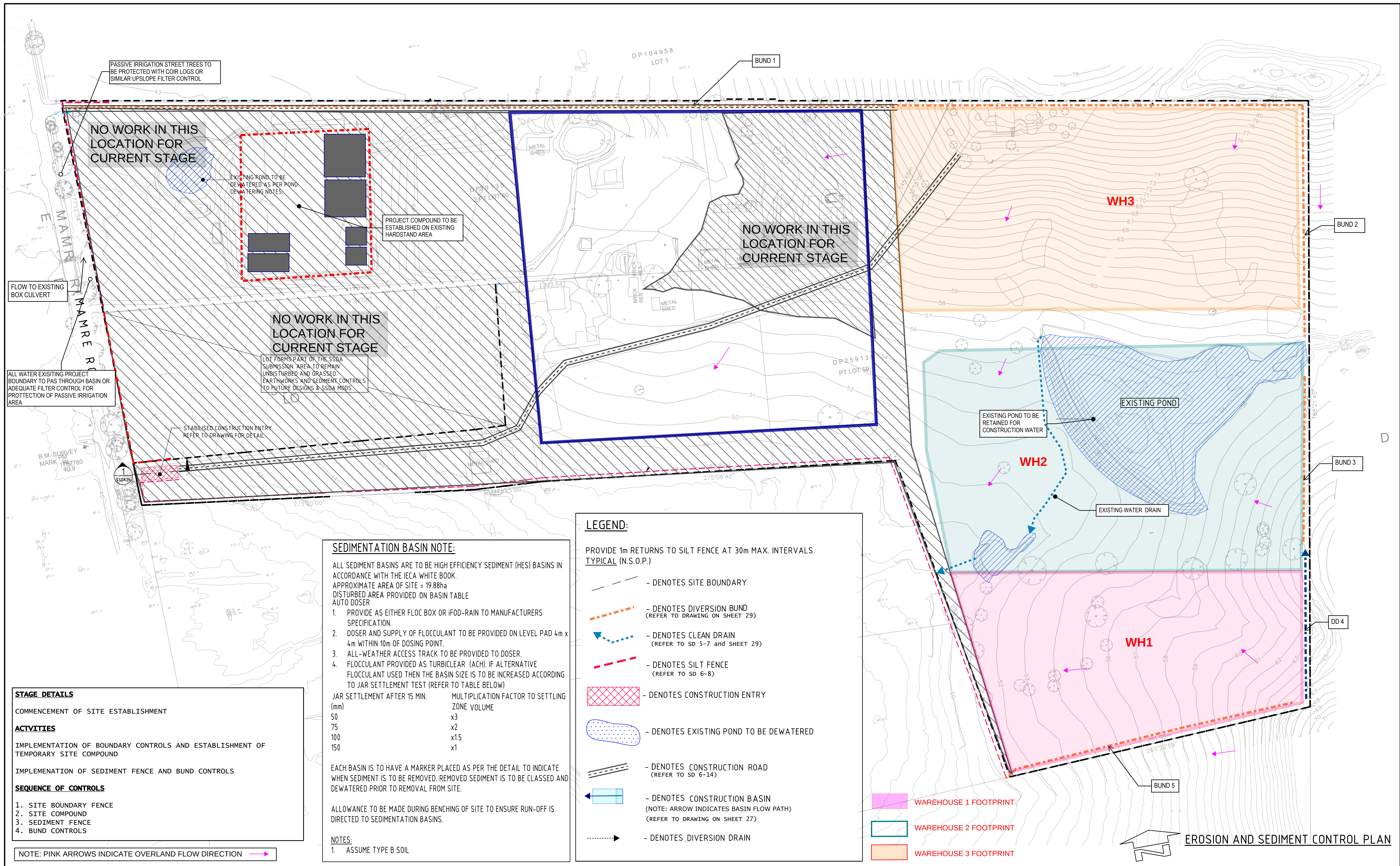
Status  
EARTHWORKS STAGE

Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

2

Issue  
1





|                                                                      |             |          |
|----------------------------------------------------------------------|-------------|----------|
| 2.0 UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY |             | 03-09-24 |
| 1.5 UPDATED FOR RESUBMISSION                                         |             | 15-04-24 |
| 1.4 UPDATED FOR RESUBMISSION                                         |             | 12-03-24 |
| 1.3 UPDATED TO ADDRESS COMMENTS                                      |             | 06-03-24 |
| 1.2 UPDATED TO ADDRESS COMMENTS                                      |             | 20-02-24 |
| 1.1 UPDATED TO ADDRESS COMMENTS                                      |             | 11-02-24 |
| 1 UPDATED WITH ADDITIONAL SEDIMENT FENCE TO ADDRESS COMMENTS         |             | 27-01-24 |
| 0 UPDATED TO ADDRESS COMMENTS                                        |             | 16-01-24 |
| C UPDATED WITH CALCULATIONS FOR SUBMISSION                           |             | 08-01-24 |
| B UPDATED WITH STAGING FOR SUBMISSION                                |             | 06-12-23 |
| A INITIAL SUBMISSION                                                 |             | 16-10-23 |
| Issue                                                                | Description | Date     |

Bar Scales  
Approx

050100150

Key Plan





Client

Scales

N.T.S

Grid MGA94 ZONE 56

Height  
Datum

AHD

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INTENDED BY BURTON CONTRACTORS ONLY

Drawn

BC

Designed

BC

Checked

BC

Approved

Project

YIRIBANA LOGISTICS  
ESTATE - THE GPT  
GROUP

Title

EROSION AND SEDIMENT CONTROL  
PLAN -- ESTABLISHMENT - SHEET 19

OCHRE ENVIRONMENTAL MANAGEMENT

OCHRE  
Environmental Management

PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830  
www.ochreenvironmental.com.au

Status

EARTHWORKS

2

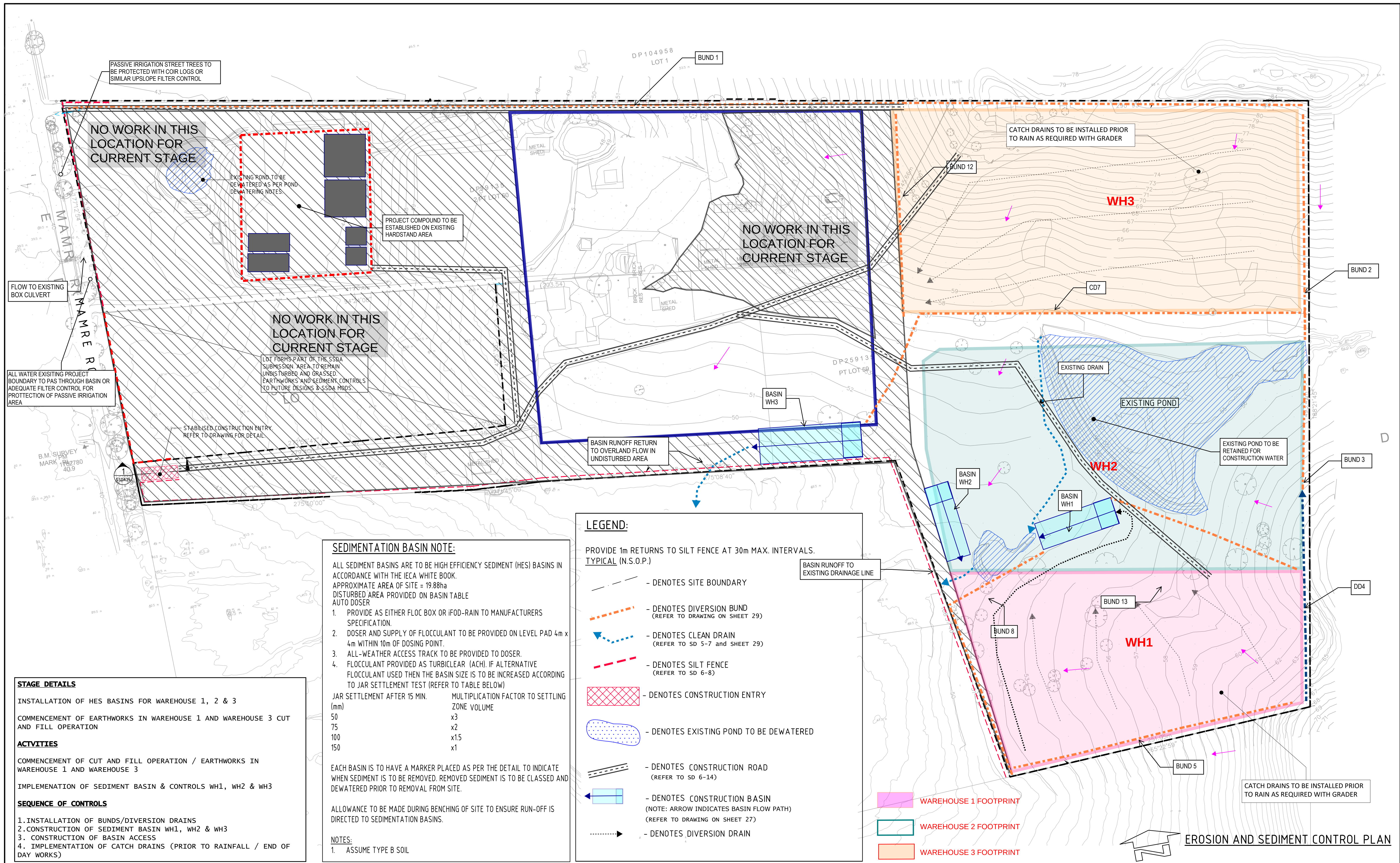
Project No. - Drawing No.

P92\_YBA\_GPT\_23-00001-ESC-RB

Issue

1



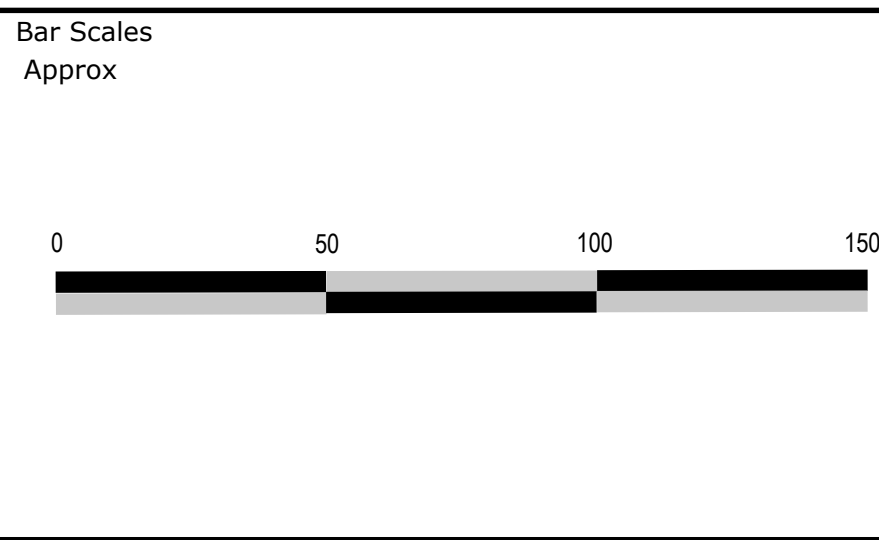


| STAGE DETAILS                                                                      |  |
|------------------------------------------------------------------------------------|--|
| INSTALLATION OF HES BASINS FOR WAREHOUSE 1, 2 & 3                                  |  |
| COMMENCEMENT OF EARTHWORKS IN WAREHOUSE 1 AND WAREHOUSE 3 CUT AND FILL OPERATION   |  |
| ACTIVITIES                                                                         |  |
| COMMENCEMENT OF CUT AND FILL OPERATION / EARTHWORKS IN WAREHOUSE 1 AND WAREHOUSE 3 |  |
| IMPLEMENTATION OF SEDIMENT BASIN & CONTROLS WH1, WH2 & WH3                         |  |
| SEQUENCE OF CONTROLS                                                               |  |
| 1. INSTALLATION OF BUNDS/DIVERSION DRAINS                                          |  |
| 2. CONSTRUCTION OF SEDIMENT BASIN WH1, WH2 & WH3                                   |  |
| 3. CONSTRUCTION OF BASIN ACCESS                                                    |  |
| 4. IMPLEMENTATION OF CATCH DRAINS (PRIOR TO RAINFALL / END OF DAY WORKS)           |  |

| SEDIMENTATION BASIN NOTE:                                                                                                                                                                         |                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| ALL SEDIMENT BASINS ARE TO BE HIGH EFFICIENCY SEDIMENT (HES) BASINS IN ACCORDANCE WITH THE IECA WHITE BOOK. APPROXIMATE AREA OF SITE = 19.88ha. DISTURBED AREA PROVIDED ON BASIN TABLE AUTO DOSER |                                               |
| 1. PROVIDE AS EITHER FLOC BOX OR IFOD-RAIN TO MANUFACTURERS SPECIFICATION.                                                                                                                        |                                               |
| 2. DOSER AND SUPPLY OF FLOCCULANT TO BE PROVIDED ON LEVEL PAD 4m x 4m WITHIN 10m OF DOSING POINT.                                                                                                 |                                               |
| 3. ALL-WEATHER ACCESS TRACK TO BE PROVIDED TO DOSER.                                                                                                                                              |                                               |
| 4. FLOCCULANT PROVIDED AS TURBICLEAR (ACH). IF ALTERNATIVE FLOCCULANT USED THEN THE BASIN SIZE IS TO BE INCREASED ACCORDING TO JAR SETTLEMENT TEST (REFER TO TABLE BELOW)                         |                                               |
| JAR SETTLEMENT AFTER 15 MIN. (mm)                                                                                                                                                                 | MULTIPLICATION FACTOR TO SETTLING ZONE VOLUME |
| 50                                                                                                                                                                                                | x3                                            |
| 75                                                                                                                                                                                                | x2                                            |
| 100                                                                                                                                                                                               | x1.5                                          |
| 150                                                                                                                                                                                               | x1                                            |
| EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.                   |                                               |
| ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.                                                                                               |                                               |
| NOTES:                                                                                                                                                                                            |                                               |
| 1. ASSUME TYPE B SOIL                                                                                                                                                                             |                                               |

| LEGEND:                                                                    |                                                                                                     |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.) |                                                                                                     |
|                                                                            | - DENOTES SITE BOUNDARY                                                                             |
|                                                                            | - DENOTES DIVERSION BUND (REFER TO DRAWING ON SHEET 29)                                             |
|                                                                            | - DENOTES CLEAN DRAIN (REFER TO SD 5-7 and SHEET 29)                                                |
|                                                                            | - DENOTES SILT FENCE (REFER TO SD 6-8)                                                              |
|                                                                            | - DENOTES CONSTRUCTION ENTRY                                                                        |
|                                                                            | - DENOTES EXISTING POND TO BE DEWATERED                                                             |
|                                                                            | - DENOTES CONSTRUCTION ROAD (REFER TO SD 6-14)                                                      |
|                                                                            | - DENOTES CONSTRUCTION BASIN (NOTE: ARROW INDICATES BASIN FLOW PATH) (REFER TO DRAWING ON SHEET 27) |
|                                                                            | - DENOTES DIVERSION DRAIN                                                                           |

| Issue | Description                                                      | Date       |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 09-09-2024 |
| 1.5   | UPDATED FOR RESUBMISSION                                         | 15-04-24   |
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| 0     | UPDATED TO ADDRESS COMMENTS                                      | 16-01-24   |
| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                         | 08-01-24   |
| B     | UPDATED WITH STAGING FOR SUBMISSION                              | 06-12-23   |
| A     | INITIAL SUBMISSION                                               | 16-10-23   |



Key Plan

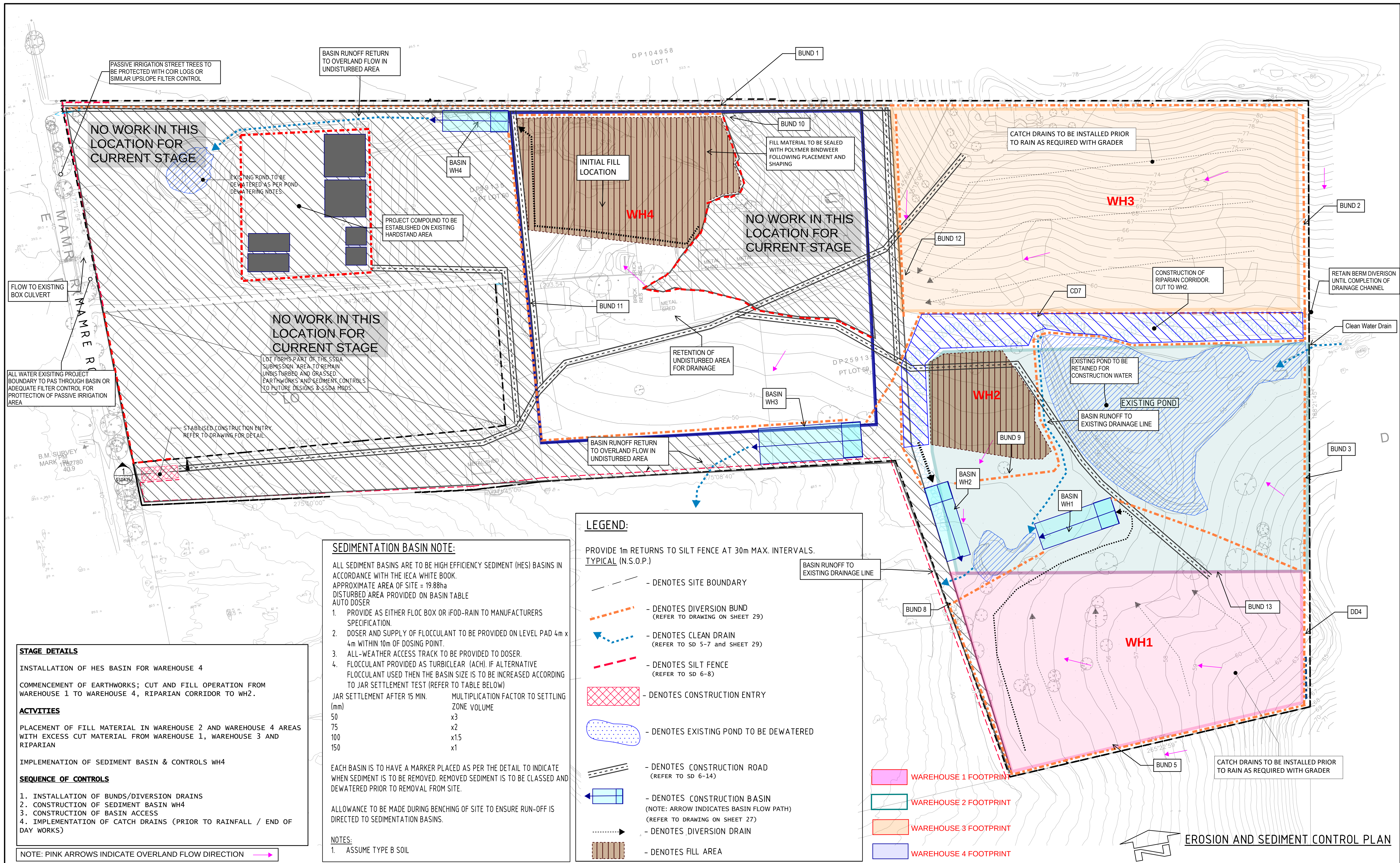
Client

|                                                                                           |               |          |    |
|-------------------------------------------------------------------------------------------|---------------|----------|----|
| Scales                                                                                    | N.T.S         | Drawn    | BC |
| Grid                                                                                      | MGA94 ZONE 56 | Designed | BC |
| Height Datum                                                                              | AHD           | Checked  | BC |
|                                                                                           |               | Approved |    |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |               |          |    |

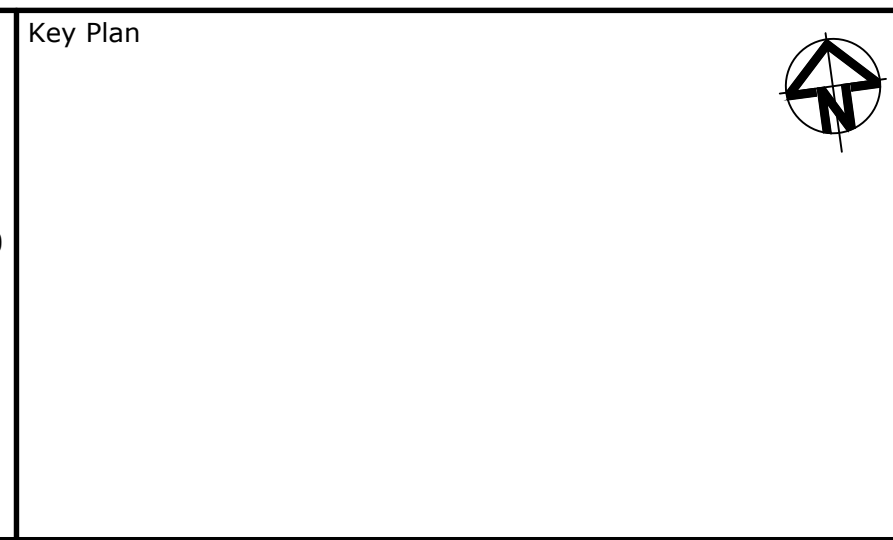
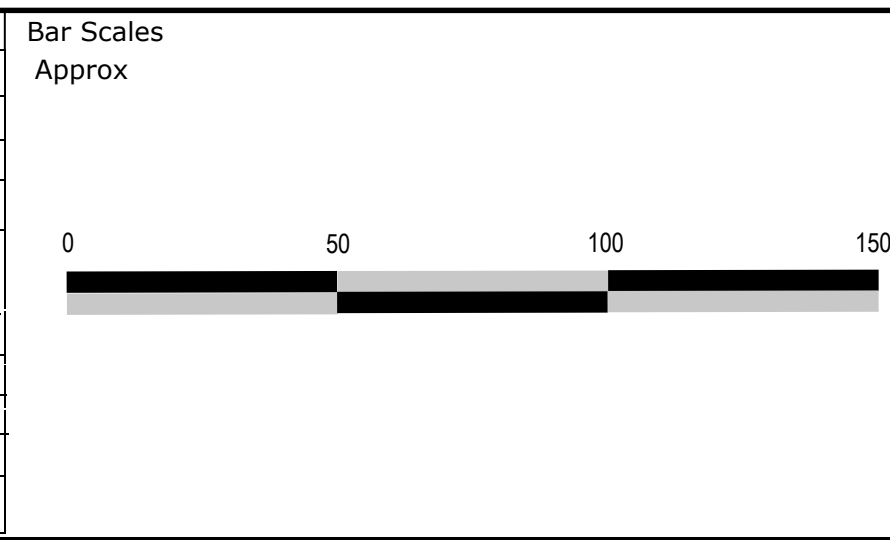
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|---------|------------------------------------------------------------|
| Project | YIRIBANA LOGISTICS ESTATE - THE GPT GROUP                  |
| Title   | EROSION AND SEDIMENT CONTROL PLAN -- EARTHWORKS - SHEET 20 |

|                                                                                                            |                             |
|------------------------------------------------------------------------------------------------------------|-----------------------------|
| OCHRE ENVIRONMENTAL MANAGEMENT                                                                             |                             |
| PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407782830<br>www.ochreenvironmental.com.au |                             |
| Status                                                                                                     | EARTHWORKS                  |
| Project No. - Drawing No.                                                                                  | P92_YBA_GPT_23-00001-ESC-RB |
| Issue                                                                                                      | 1                           |





|       |                                                                  |            |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 09-09-2024 |
| 1.5   | UPDATED FOR RESUBMISSION                                         | 15-04-24   |
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| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                         | 08-01-24   |
| B     | UPDATED WITH STAGING FOR SUBMISSION                              | 06-12-23   |
| A     | INITIAL SUBMISSION                                               | 16-10-23   |
| Issue | Description                                                      | Date       |

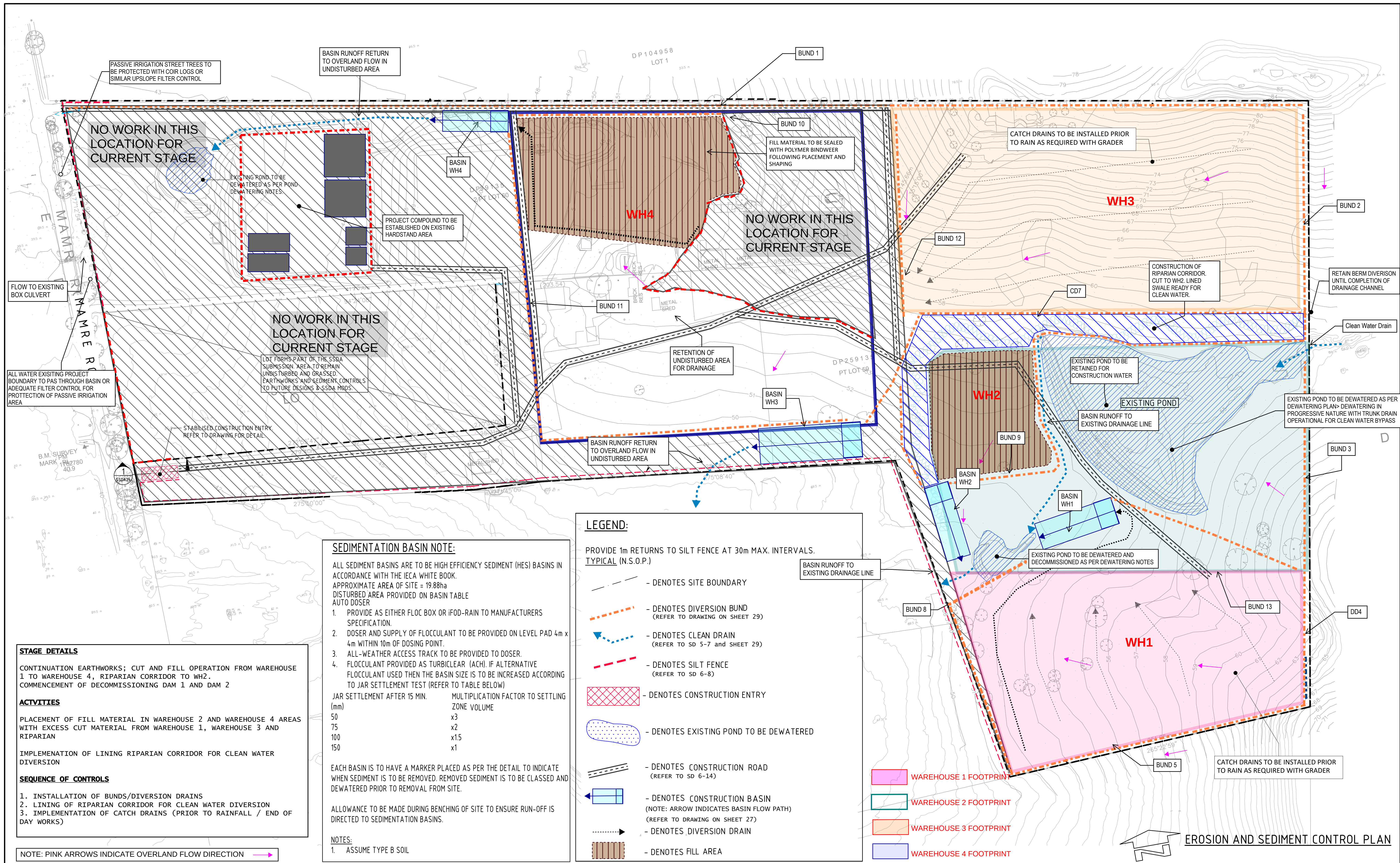


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|-------------------------------------------------------------------------------------------|---------------|----------|----|
| Scales                                                                                    | N.T.S         | Drawn    | BC |
| Grid                                                                                      | MGA94 ZONE 56 | Designed | BC |
| Height Datum                                                                              | AHD           | Checked  | BC |
|                                                                                           |               | Approved |    |
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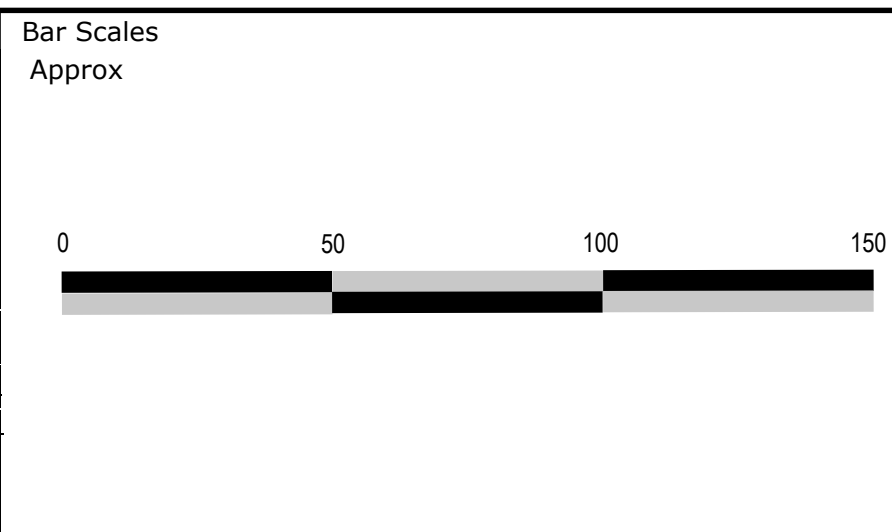
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|---------|------------------------------------------------------------|
| Project | YIRIBANA LOGISTICS ESTATE - THE GPT GROUP                  |
| Title   | EROSION AND SEDIMENT CONTROL PLAN -- EARTHWORKS - SHEET 21 |

|                                                                                                            |                             |
|------------------------------------------------------------------------------------------------------------|-----------------------------|
| OCHRE ENVIRONMENTAL MANAGEMENT                                                                             |                             |
|                                                                                                            |                             |
| PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407782830<br>www.ochreenvironmental.com.au |                             |
| Status                                                                                                     | EARTHWORKS                  |
| Project No. - Drawing No.                                                                                  | P92_YBA_GPT_23-00001-ESC-RB |
| Issue                                                                                                      | 2                           |





|       |                                                                  |            |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 09-09-2024 |
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| B     | UPDATED WITH STAGING FOR SUBMISSION                              | 06-12-23   |
| A     | INITIAL SUBMISSION                                               | 16-10-23   |
| Issue | Description                                                      | Date       |

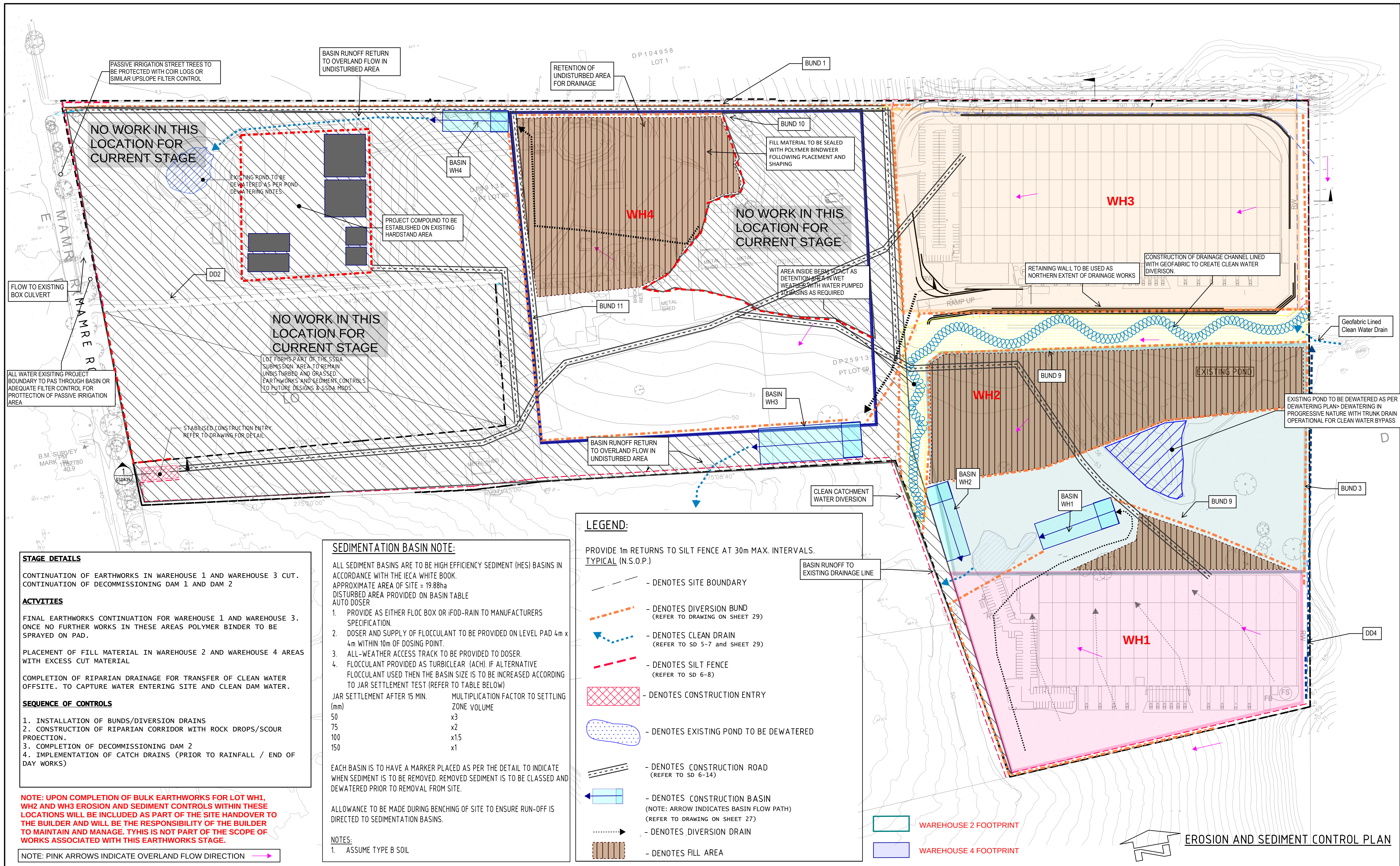


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|-------------------------------------------------------------------------------------------|---------------|----------|----|
| Scales                                                                                    | N.T.S         | Drawn    | BC |
| Grid                                                                                      | MGA94 ZONE 56 | Designed | BC |
| Height Datum                                                                              | AHD           | Checked  | BC |
|                                                                                           |               | Approved |    |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |               |          |    |

|         |                                                            |
|---------|------------------------------------------------------------|
| Project | YIRIBANA LOGISTICS ESTATE - THE GPT GROUP                  |
| Title   | EROSION AND SEDIMENT CONTROL PLAN -- EARTHWORKS - SHEET 22 |

|                                                                                                            |                             |
|------------------------------------------------------------------------------------------------------------|-----------------------------|
| OCHRE ENVIRONMENTAL MANAGEMENT                                                                             |                             |
| PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407782830<br>www.ochreenvironmental.com.au |                             |
| Status                                                                                                     | EARTHWORKS                  |
| Project No. - Drawing No.                                                                                  | P92_YBA_GPT_23-00001-ESC-RB |
| Issue                                                                                                      | 1                           |





|                                                                      |             |            |
|----------------------------------------------------------------------|-------------|------------|
| 2.0 UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY |             | 03-09-2024 |
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| B UPDATED WITH STAGING FOR SUBMISSION                                |             | 06-12-23   |
| A INITIAL SUBMISSION                                                 |             | 16-10-23   |
| Issue                                                                | Description | Date       |

Bar Scales

Approx

0

50

100

150

Key Plan





Client

Scales

N.T.S

Grid MGA94 ZONE 56

Height Datum

AHD

THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY

Drawn

BC

Designed

BC

Checked

BC

Approved

Project

YIRIBANA LOGISTICS ESTATE - THE GPT GROUP

Title

EROSION AND SEDIMENT CONTROL PLAN -- EARTHWORKS - SHEET 23

OCHRE ENVIRONMENTAL MANAGEMENT



PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
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www.ochreenvironmental.com.au

Status

EARTHWORKS

2

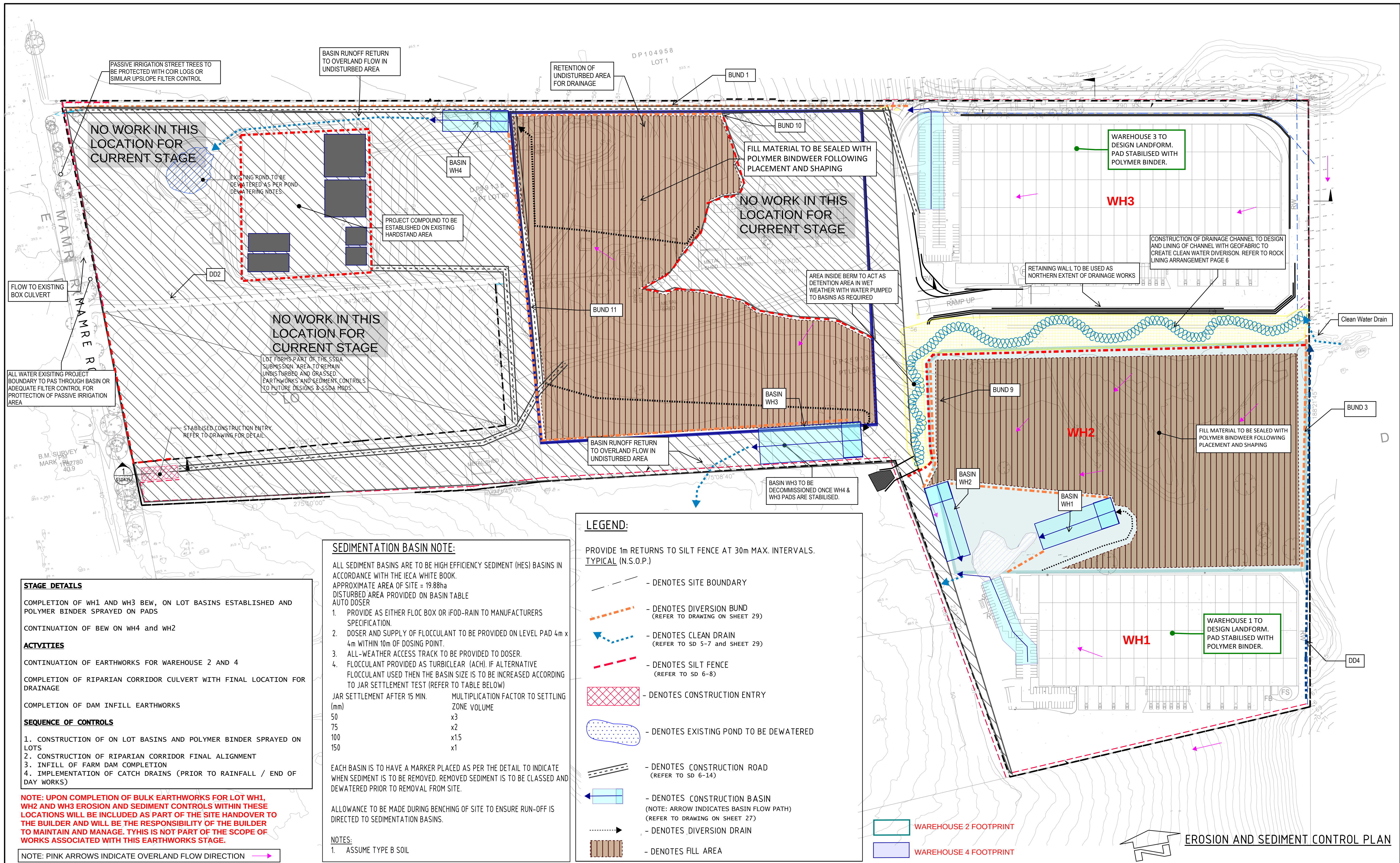
Project No. - Drawing No.

P92\_YBA\_GPT\_23-00001-ESC-RB

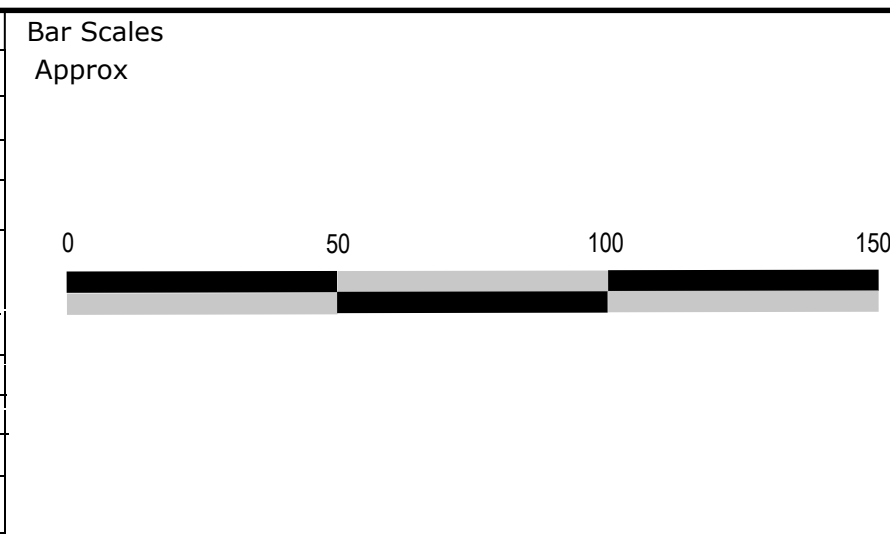
Issue

1





|       |                                                                  |            |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 09-09-2024 |
| 1.5   | UPDATED FOR RESUBMISSION                                         | 15-04-24   |
| 1.4   | UPDATED FOR RESUBMISSION                                         | 12-03-24   |
| 1.3   | UPDATED TO ADDRESS COMMENTS                                      | 06-03-24   |
| 1.2   | UPDATED TO ADDRESS COMMENTS                                      | 20-02-24   |
| 1.1   | UPDATED TO ADDRESS COMMENTS                                      | 11-02-24   |
| 1     | UPDATED WITH ADDITIONAL SEDIMENT FENCE TO ADDRESS COMMENTS       | 27-01-24   |
| 0     | UPDATED TO ADDRESS COMMENTS                                      | 16-01-24   |
| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                         | 08-01-24   |
| B     | UPDATED WITH STAGING FOR SUBMISSION                              | 06-12-23   |
| A     | INITIAL SUBMISSION                                               | 16-10-23   |
| Issue | Description                                                      | Date       |



Client

**BURTON**  
Civil Engineering Contractors

|                                                                                           |               |          |    |
|-------------------------------------------------------------------------------------------|---------------|----------|----|
| Scales                                                                                    | N.T.S         | Drawn    | BC |
| Grid                                                                                      | MGA94 ZONE 56 | Designed | BC |
| Height Datum                                                                              | AHD           | Checked  | BC |
|                                                                                           |               | Approved |    |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |               |          |    |

Project

**YIRIBANA LOGISTICS ESTATE - THE GPT GROUP**

Title

**EROSION AND SEDIMENT CONTROL PLAN -- EARTHWORKS - SHEET 24**

OCHRE ENVIRONMENTAL MANAGEMENT

**OCHRE**  
Environmental Management

PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830  
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Status

**EARTHWORKS**

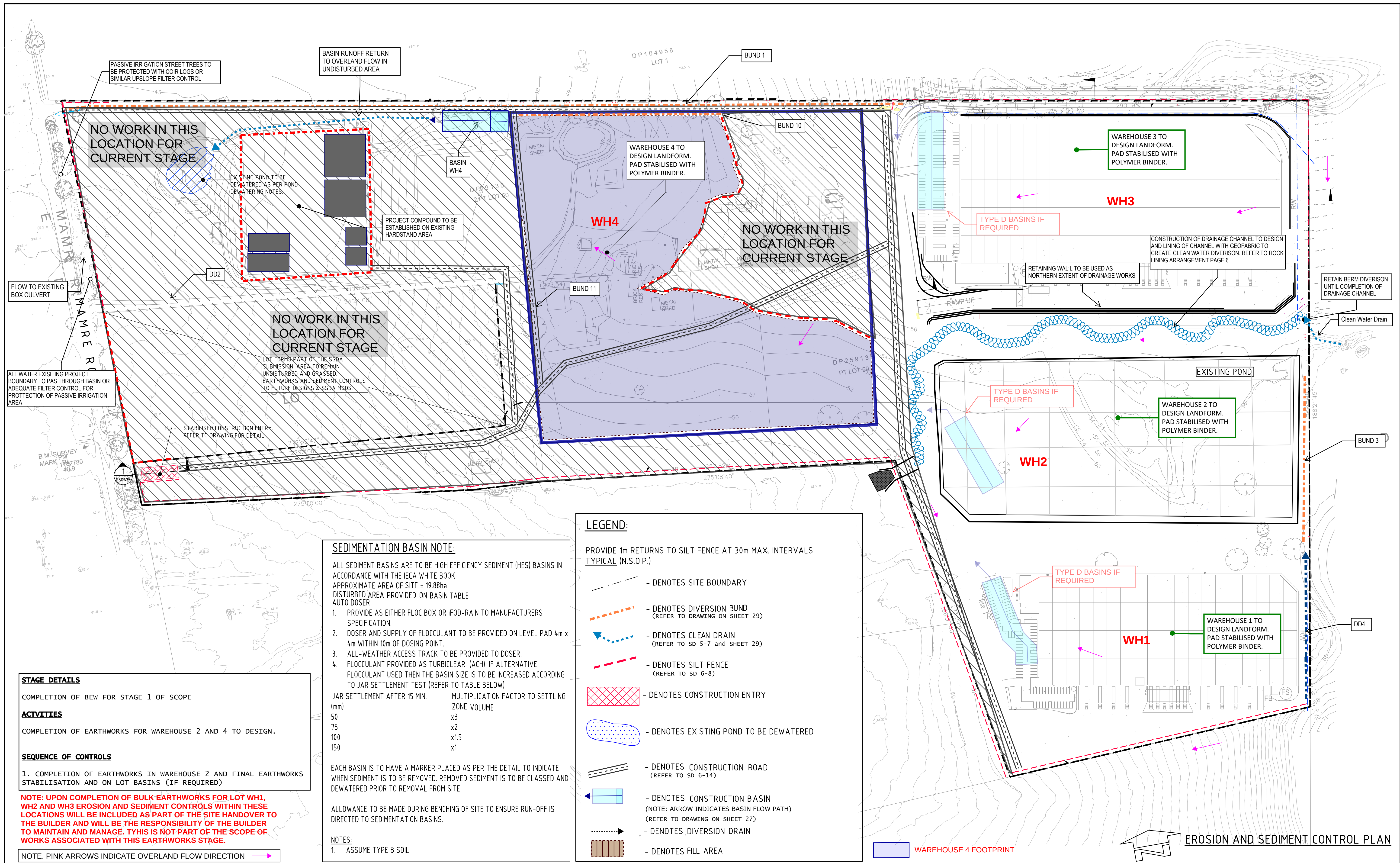
Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

Issue

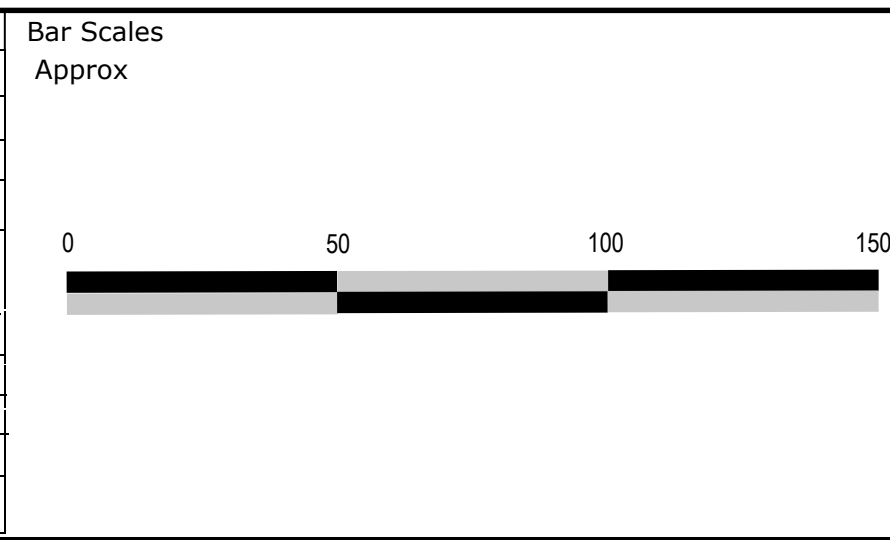
**2**

1





|       |                                                                  |            |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 09-09-2024 |
| 1.5   | UPDATED FOR RESUBMISSION                                         | 15-04-24   |
| 1.4   | UPDATED FOR RESUBMISSION                                         | 12-03-24   |
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| B     | UPDATED WITH STAGING FOR SUBMISSION                              | 06-12-23   |
| A     | INITIAL SUBMISSION                                               | 16-10-23   |
| Issue | Description                                                      | Date       |



Key Plan

Client

**BURTON**  
Civil Engineering Contractors

|                                                                                           |               |          |    |
|-------------------------------------------------------------------------------------------|---------------|----------|----|
| Scales                                                                                    | N.T.S         | Drawn    | BC |
| Grid                                                                                      | MGA94 ZONE 56 | Designed | BC |
| Height Datum                                                                              | AHD           | Checked  | BC |
|                                                                                           |               | Approved |    |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |               |          |    |

|         |                                                            |
|---------|------------------------------------------------------------|
| Project | YIRIBANA LOGISTICS ESTATE - THE GPT GROUP                  |
| Title   | EROSION AND SEDIMENT CONTROL PLAN -- EARTHWORKS - SHEET 25 |

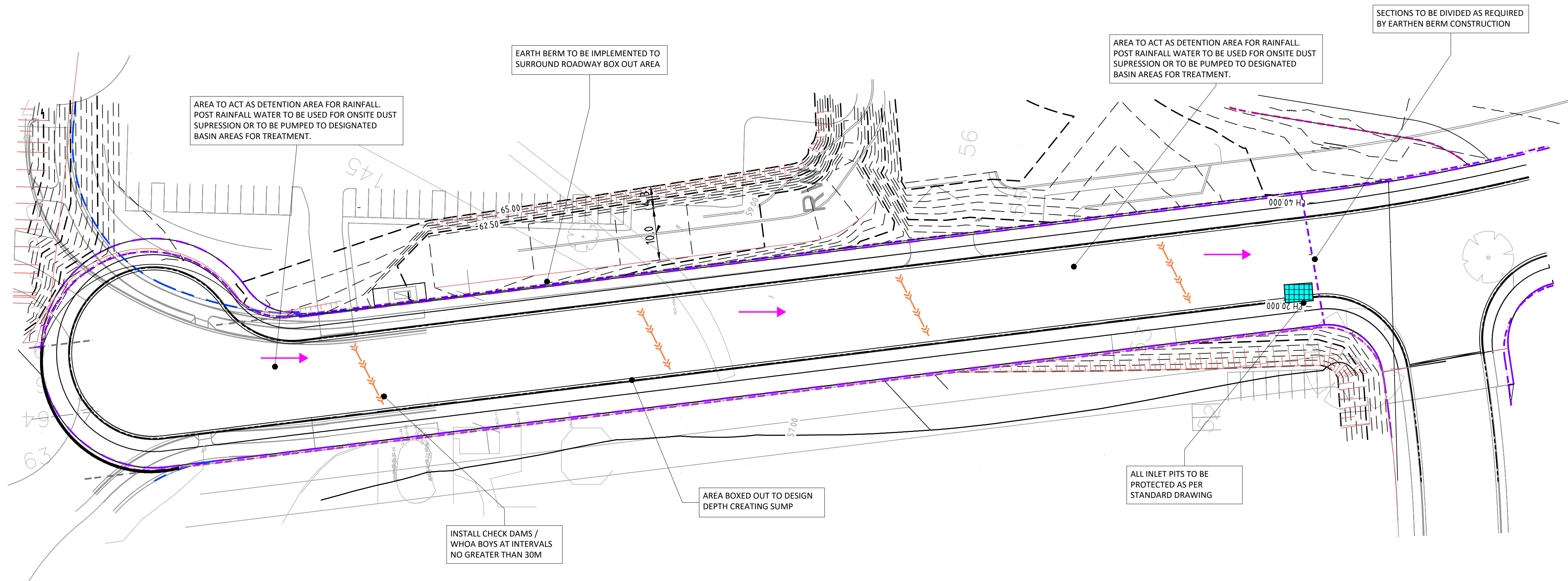
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|---------------------------|-----------------------------|---------|
| Status                    | EARTHWORKS                  | 2       |
| Project No. - Drawing No. | P92_YBA_GPT_23-00001-ESC-RB | Issue 1 |

OCHRE ENVIRONMENTAL MANAGEMENT

**OCHRE**  
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LEGEND

CHECK DAM / WHOA BOY

EARTH BERM CONTROL

INLET PIT PROTECTION

DIRECTION OF SURFACE FLOW

STAGE DETAILS

COMMENCEMENT OF ROADWORKS

ACTIVITIES

UNDERTAKING BOX OUT AND ROADWORKS MATERIAL PLACEMENT TO DESIGN

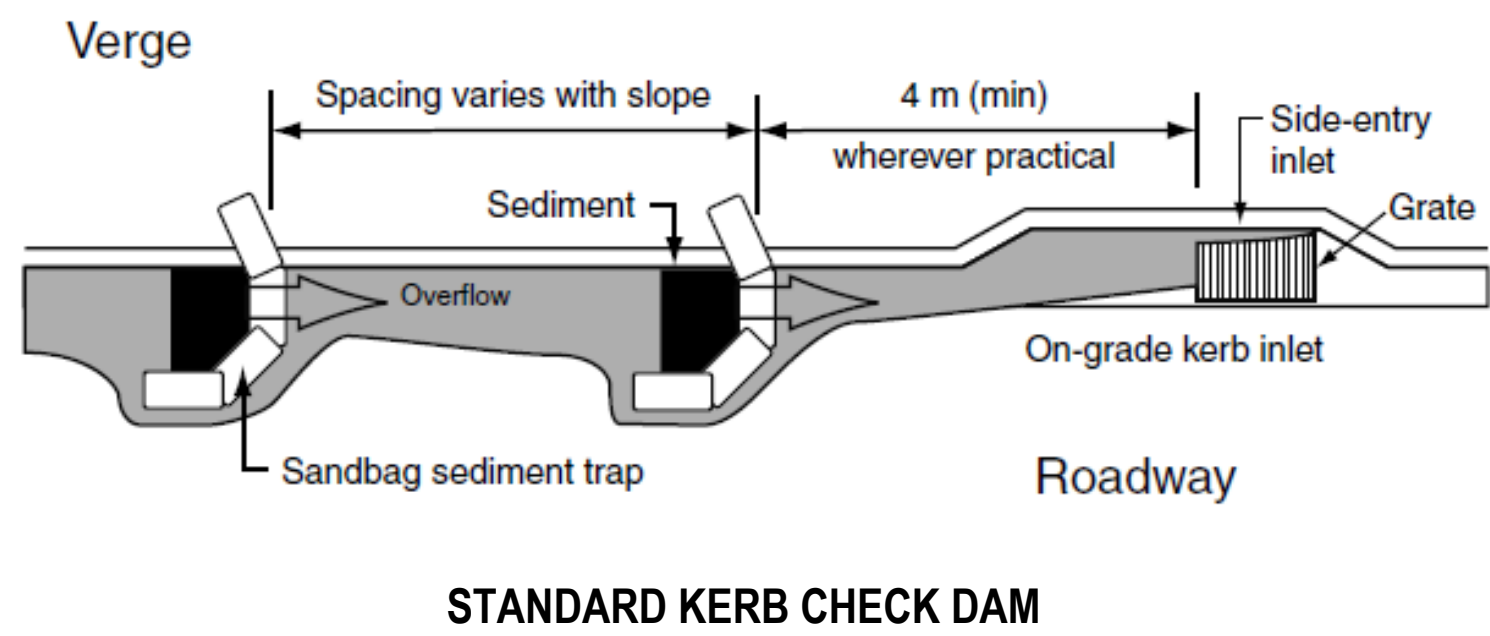
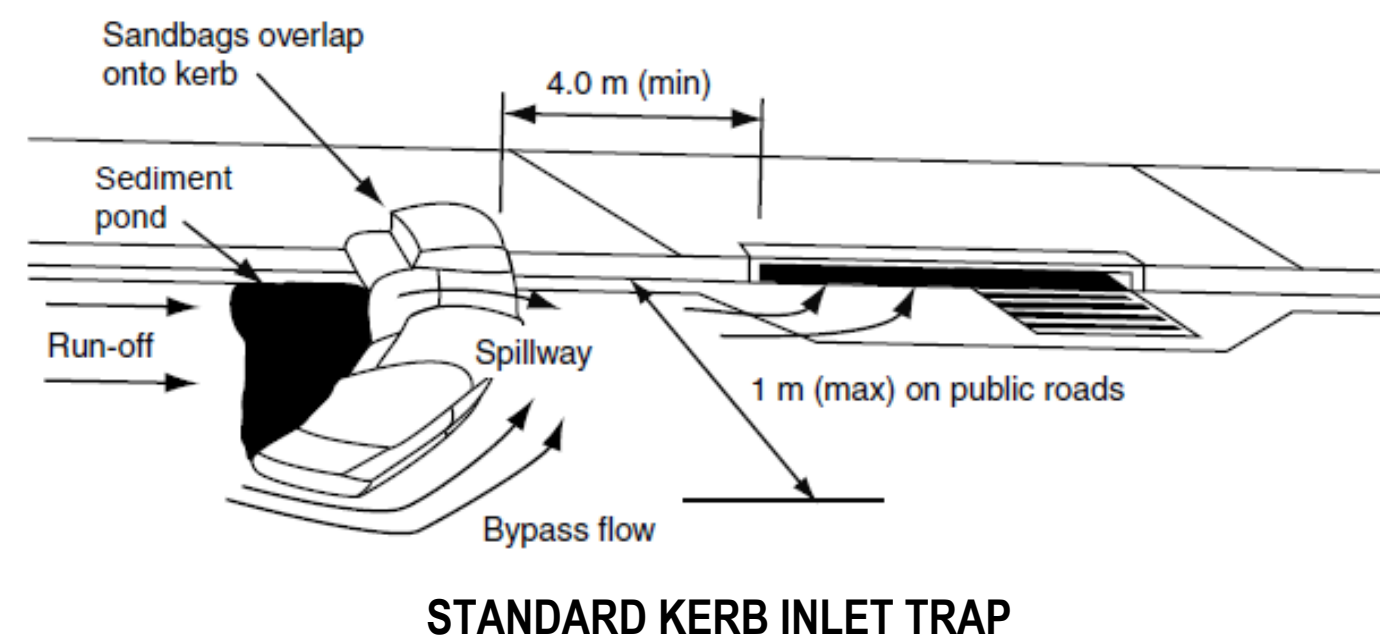
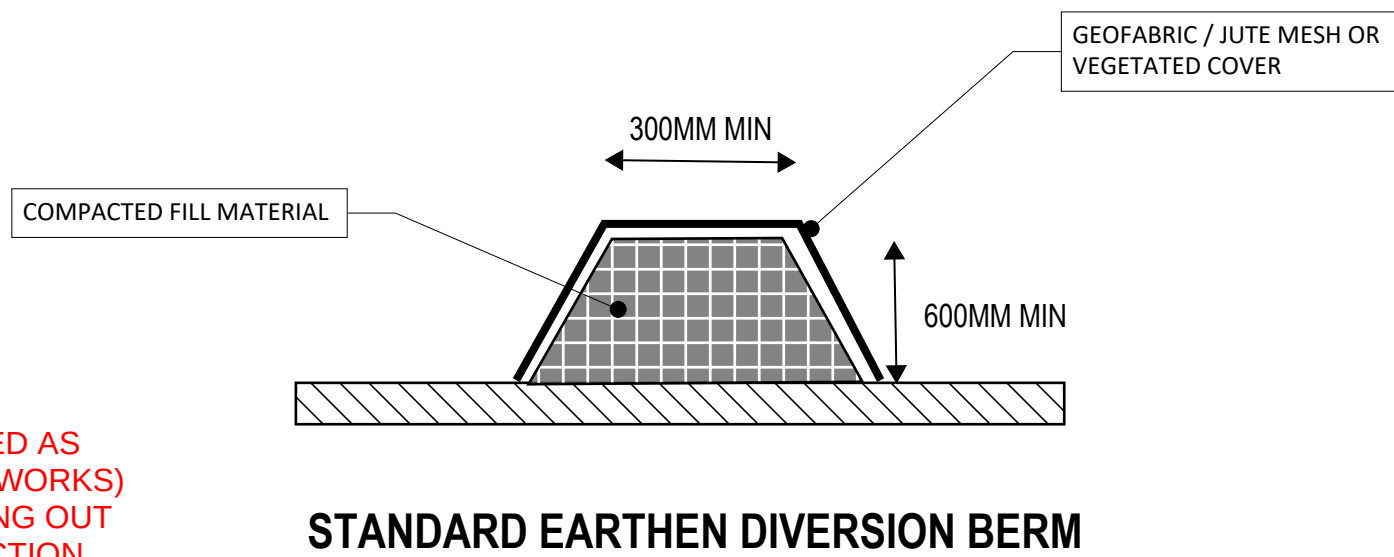
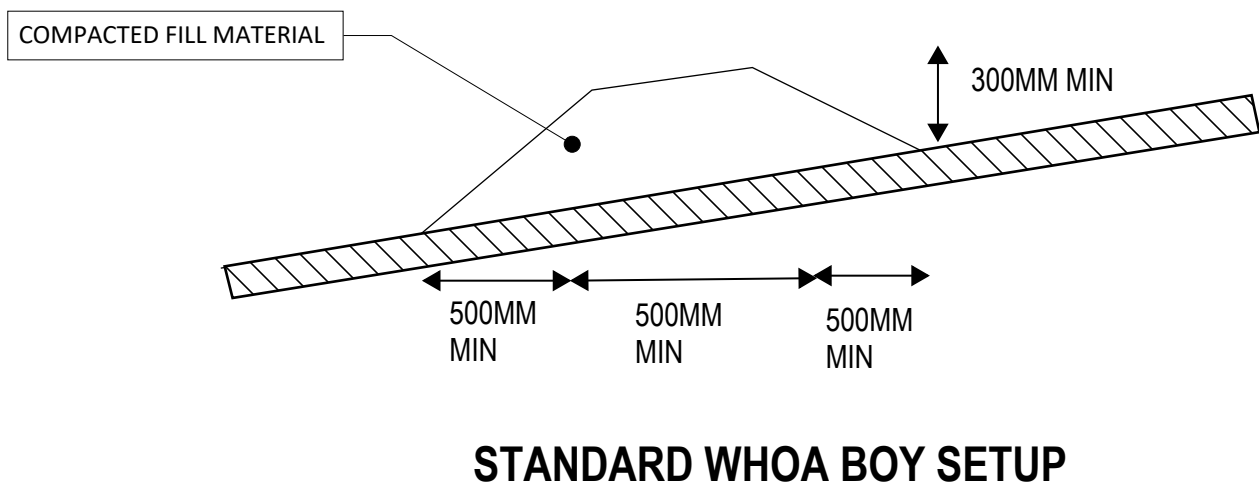
SEQUENCE OF CONTROLS

1. UNDERTAKE EXCAVATION OF ROADWORKS AREA TO SUITABLE LEVELS AS PER SOIL SPECIFICATION TESTING AND DESIGN

2. UNDERTAKE PLACEMENT OF ROAD BASE MATERIAL

3. IMPLEMENT EORSION AND SEDIMENT CONTROLS IDENTIFIED AS REQUIRED(I.E. END OF EACH DAY AND PRIOR TO RAINFALL )

THE STORMWATER INFRASTRUCTURE WILL NOT BE CONSTRUCTED AS PART OF THE PROJECT EARTHWORKS STAGING (THIS SCOPE OF WORKS) , HOWEVER THE INITIAL EARTHWORKS WILL REQUIRED THE BOXING OUT OF THE ROADWAY FOR FOUNDATIONS AND ROADWAY CONSTRUCTION TO ACHIEVE COMPLIANCE WITH COUNCIL AND ROAD AUTHORITY SPECIFICATIONS. AT THIS STAGE NO DRAINAGE WILL BE IN THE ROAD ALIGNMENT AND THEREFORE THE RETENTION OF WATER IN THE BOXED OUT AREA IS STANDARD PRACTICE.



|       |                                                                  |            |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 03-09-2024 |
| 1.5   | UPDATED FOR RESUBMISSION                                         | 15-04-24   |
| 1.4   | UPDATED FOR RESUBMISSION                                         | 12-03-24   |
| 1.3   | UPDATED TO ADDRESS COMMENTS                                      | 06-03-24   |
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| 1.1   | UPDATED TO ADDRESS COMMENTS                                      | 11-02-24   |
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| 0     | UPDATED TO ADDRESS COMMENTS                                      | 16-01-24   |
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| A     | INITIAL SUBMISSION                                               | 16-10-23   |
| Issue | Description                                                      | Date       |

|            |          |
|------------|----------|
| Bar Scales | Key Plan |
| Approx     |          |

Client

Scales

N.T.S

Grid MGA94 ZONE 56

Height Datum AHD

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|          |    |
|----------|----|
| Drawn    | BC |
| Designed | BC |
| Checked  | BC |
| Approved |    |

Project

YIRIBANA LOGISTICS ESTATE - THE GPT GROUP

Title

EROSION AND SEDIMENT CONTROL PLAN -- ROADWORKS - SHEET 26

OCHRE ENVIRONMETAL MANAGEMENT

PO Box 70  
Kurrajong, NSW 2758  
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www.ochreenvironmental.com.au

Status

EARTHWORKS

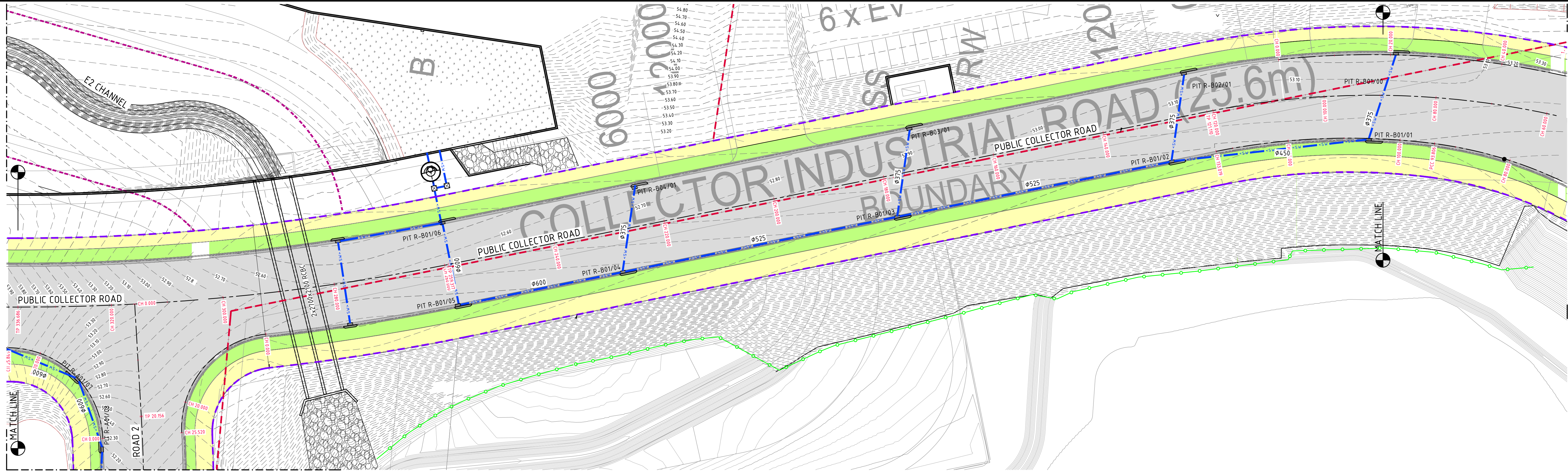
2

Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

Issue

1





LEGEND

SEDIMENT FENCE

EARTH BERM CONTROL

DIRECTION OF SURFACE FLOW

STAGE DETAILS

MIRVAC BOUNDARY WORKS

ACTIVITIES

UNDERTAKING OF CONTROLS ALONG THE SOUTHERN (MIRVAC) BOUNDARY

SEQUENCE OF CONTROLS

1. IMPLEMENT SEDIMENT FENCE CONTROLS AS SHOWN ON ESCP

2. IMPLEMENT BERM CONTROLS AS SHOWN ON ESCP

|       |                                                                  |            |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 05-09-2024 |
| 1.5   | UPDATED FOR RESUBMISSION                                         | 15-04-24   |
| 1.4   | UPDATED FOR RESUBMISSION                                         | 12-03-24   |
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| B     | UPDATED WITH STAGING FOR SUBMISSION                              | 06-12-23   |
| A     | INITIAL SUBMISSION                                               | 16-10-23   |
| Issue | Description                                                      | Date       |

|            |          |
|------------|----------|
| Bar Scales | Key Plan |
| Approx     |          |

Client

Scales

N.T.S

Grid MGA94 ZONE 56

Height Datum AHD

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|          |    |
|----------|----|
| Drawn    | BC |
| Designed | BC |
| Checked  | BC |
| Approved |    |

Project

YIRIBANA LOGISTICS ESTATE - THE GPT GROUP

Title

EROSION AND SEDIMENT CONTROL PLAN -- MIRVAC BOUNDARY - SHEET 27

OCHRE ENVIRONMETAL MANAGEMENT

PO Box 70  
Kurrajong, NSW 2758  
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www.ochreenvironmental.com.au

Status

EARTHWORKS

2

Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

Issue

1



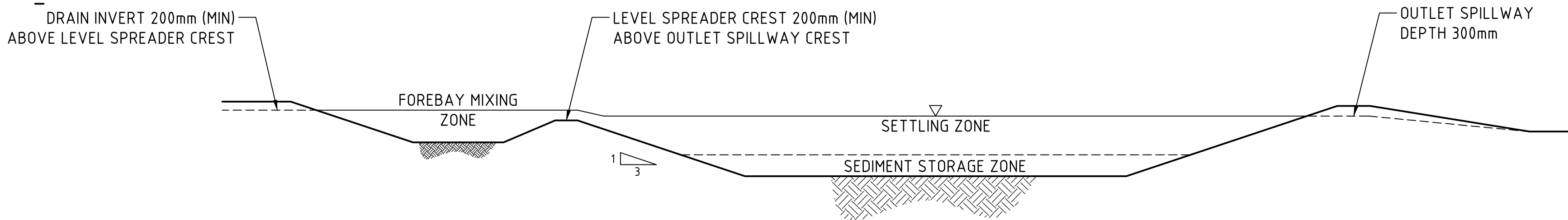
DISCHARGE CRITERIA:

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PARAMETER                          | TARGET (REDUCTION IN MEAN ANNUAL LOAD FROM UNMITIGATED DEVELOPMENT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TOTALSUSPENDE SOLIDS (TSS) AND PH  | ALL EXPOSED AREAS GREATER THAN 2,500 M <sup>2</sup> ARE TO BE PROVIDED WITH SEDIMENT CONTROLS THAT ARE DESIGNED, IMPLEMENTED AND MAINTAINED TO A STANDARD THAT WOULD ACHIEVE TREATMENT OF AT LEAST 80% OF THE AVERAGE ANNUAL RUNOFF VOLUME OF THE CONTRIBUTING CATCHMENT (I.E. 80% HYDROLOGICAL EFFECTIVENESS) TO 50 mg/L TSS OR LESS, AND pH IN RANGE (6.5-8.5).<br>NO RELEASE OF COARSE SEDIMENT IS PERMITTED FOR ANY CONSTRUCTION OR BUILDING SITE. SITES LESS THAN 2,500M <sup>2</sup> ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE BLUE BOOK. |
| OIL, LITTER AND WASTE CONTAMINANTS | NO RELEASE OF OIL, LITTER OR WASTE CONTAMINANTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| STABILISATION                      | PRIOR TO COMPLETION OF WORKS FOR THE DEVELOPMENT, AND PRIOR TO REMOVAL OF SEDIMENT CONTROLS, ALL SITE SURFACES ARE TO BE EFFECTIVELY STABILISED SURFACE IS DEFINED AS ONE THAT DOES NOT OR IS NOT LIKELY TO RESULT IN VISIBLE EVIDENCE OF SOIL LOSS CAUSED BY SHEET, RILL OR GULLY EROSION OR LEAD TO SEDIMENTATION AND WATER CONTAMINATION.                                                                                                                                                                                                              |

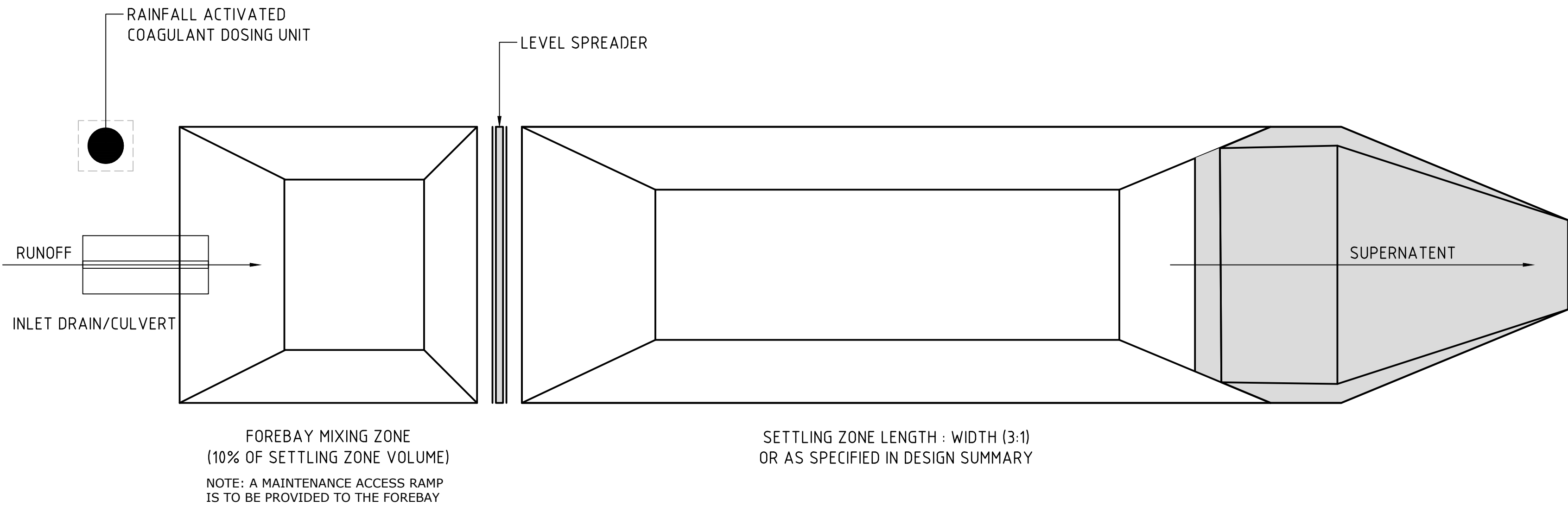
STAGED CONSTRUCTION NOTE:

STAGE 1 – INITIAL SITE ESTABLISHMENT AND INSTALLATION OF SEDIMENT & EROSION CONTROL MEASURES AS NOTED ON PLAN.

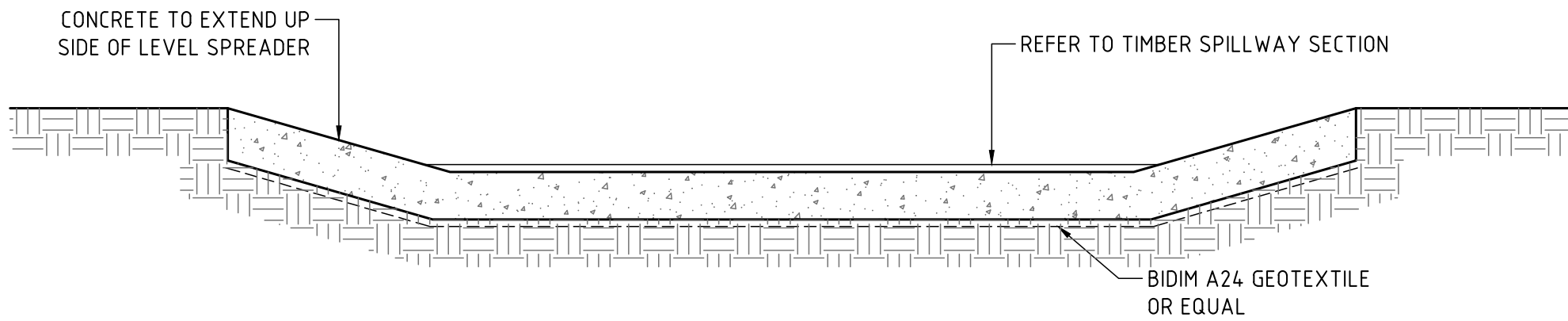
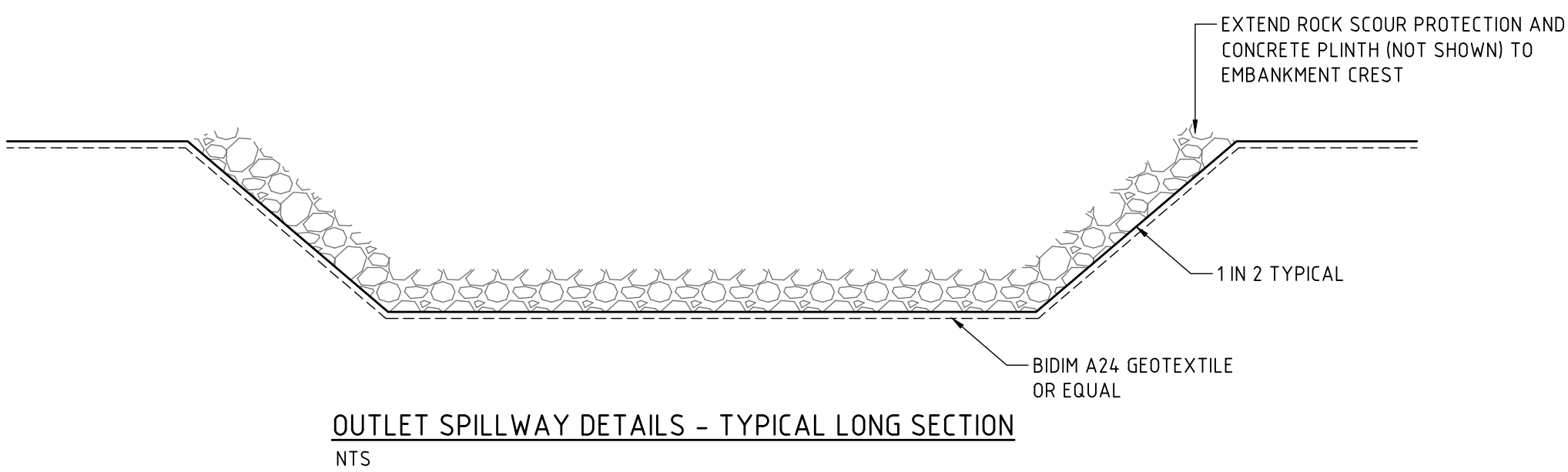
STAGE 2 – MAJORITY OF STORMWATER INFRASTRUCTURE COMPLETED, PADS BENCHED & RETAINING WALLS CONSTRUCTED. STORMWATER FROM DEVELOPED LOTS DIVERTED TO RETENTION BASIN. STORMWATER FROM UNDEVELOPED PADS DIVERTED TO SEDIMENT BASINS.



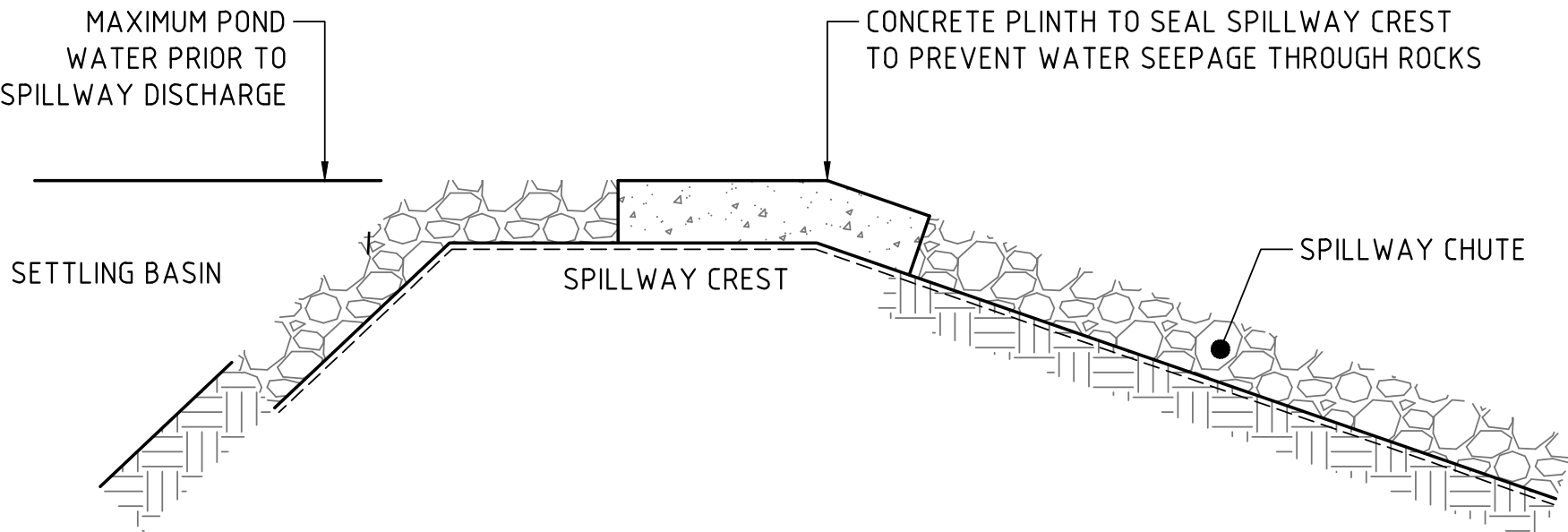
TYPE B - HIGH EFFICIENCY SEDIMENT LONG SECTION  
NTS



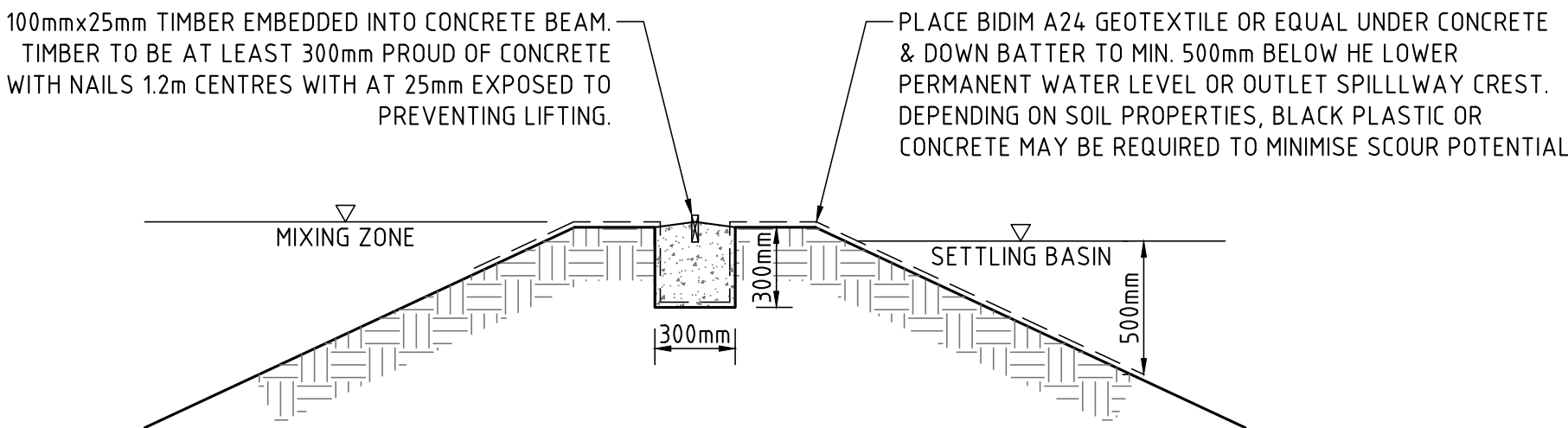
TYPE B - HIGH EFFICIENCY SEDIMENT BASIN PLAN VIEW  
NTS



LEVEL SPREADER DETAILS - TYPICAL LONG SECTION  
NTS



OUTLET SPILLWAY DETAILS - TYPICAL CROSS SECTION  
NTS



LEVEL SPREADER DETAILS - TYPICAL CROSS SECTION  
NTS

|       |                                                                  |            |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 05-09-2024 |
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| A     | INITIAL SUBMISSION                                               | 16-10-23   |
| Issue | Description                                                      | Date       |

Key Plan



Client



Scales  
N/A

Grid MGA94 ZONE 56

Height Datum  
AHD

Drawn  
BC

Designed  
BC

Checked  
BC

Approved

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Project  
**YIRIBANA LOGISTICS ESTATE - THE GPT GROUP**

Title  
**EROSION AND SEDIMENT CONTROL PLAN -- BASIN DESIGN - SHEET 28**

OCHRE ENVIRONMETAL MANAGEMENT



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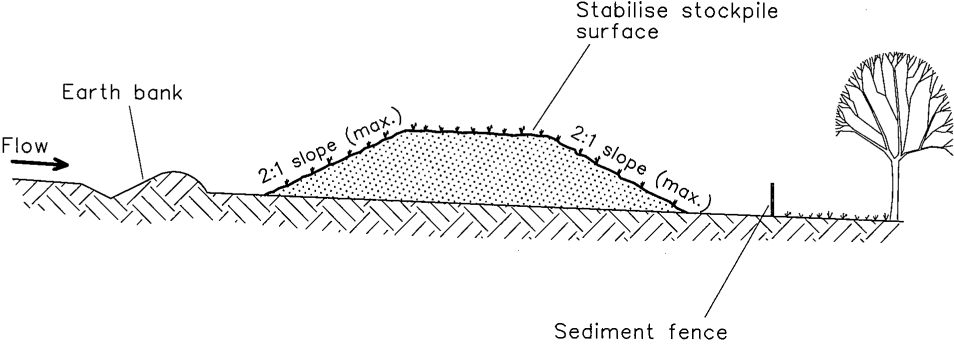
Status  
**EARTHWORKS**

Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

Issue  
1

2

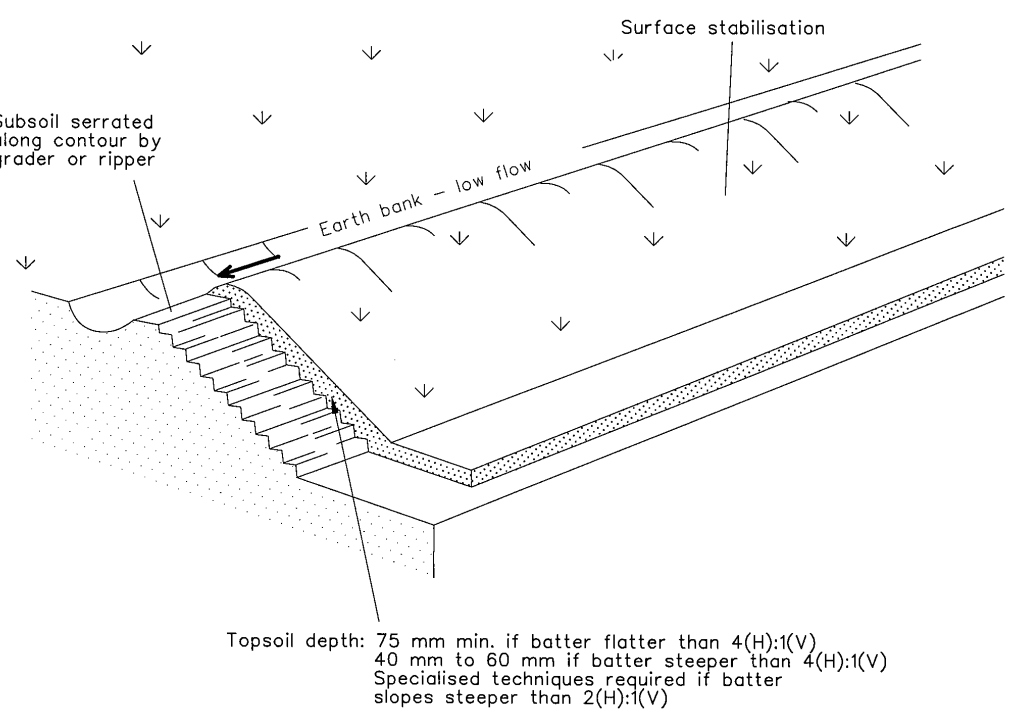




**Construction Notes**

- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- Construct on the contour as low, flat, elongated mounds.
- Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

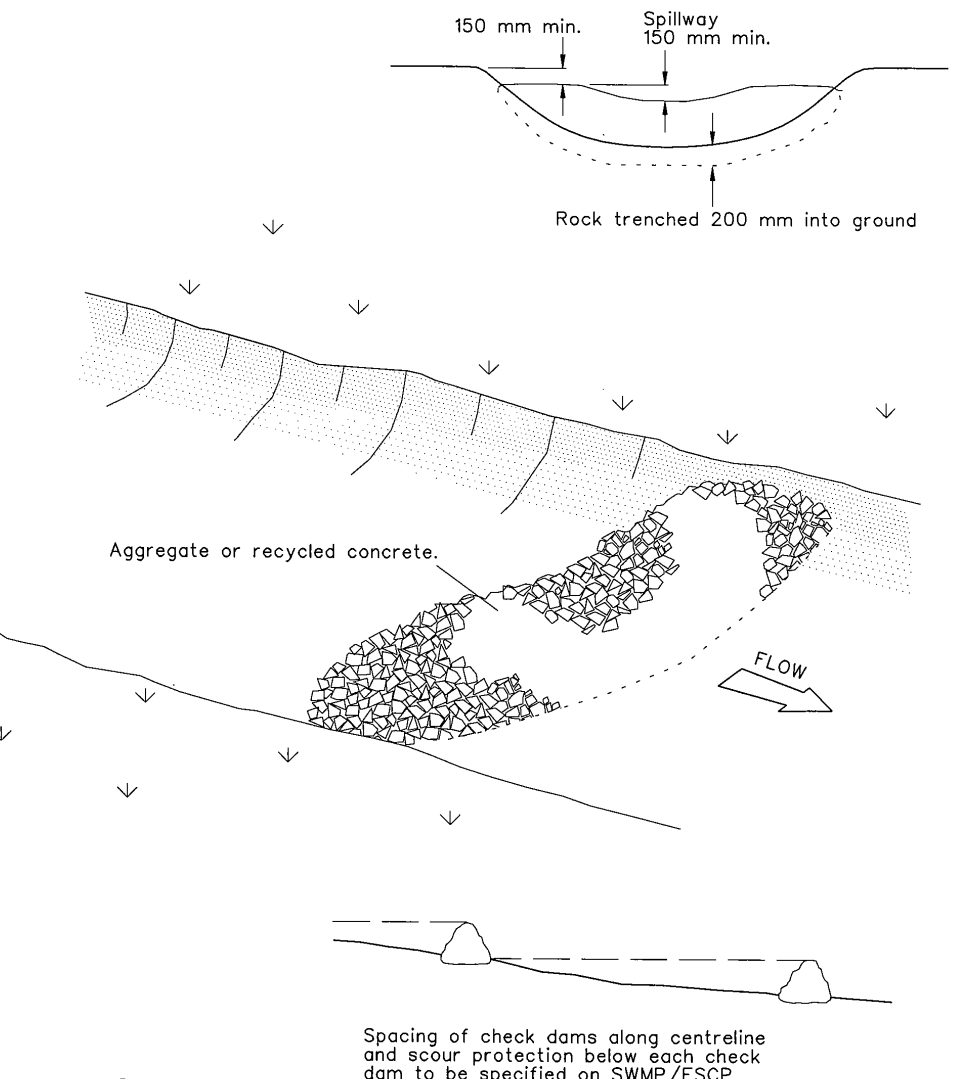
STOCKPILESSD 4-1



**Construction Notes**

- Scarify the ground surface along the line of the contour to a depth of 50 mm to 100 mm to break up any hardsetting surfaces and to provide a good bond between the respread material and subsoil.
- Add soil ameliorants as required by the ESCP or SWMP.
- Rip to a depth of 300 mm if compacted layers occur.
- Where possible, replace topsoil to a depth of 40 to 60 mm on lands where the slope exceeds 4(H):1(V) and to at least 75 mm on lower gradients.

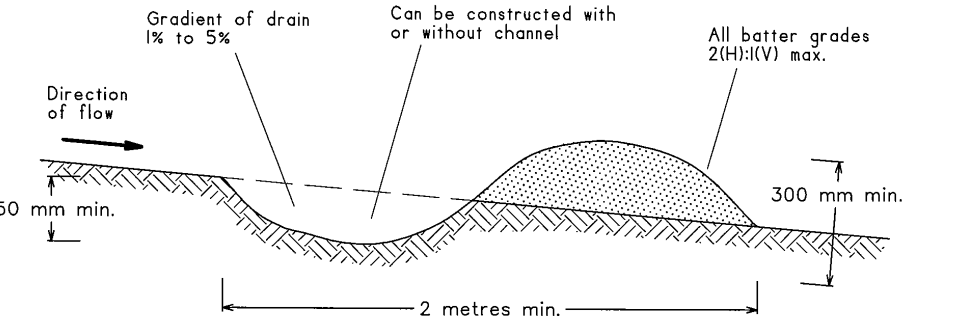
REPLACING TOPSOILSD 4-2



**Construction Notes**

- Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months.
- Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting.
- Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should act as a spillway, being at least 150 mm lower than the outer edges.
- Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.

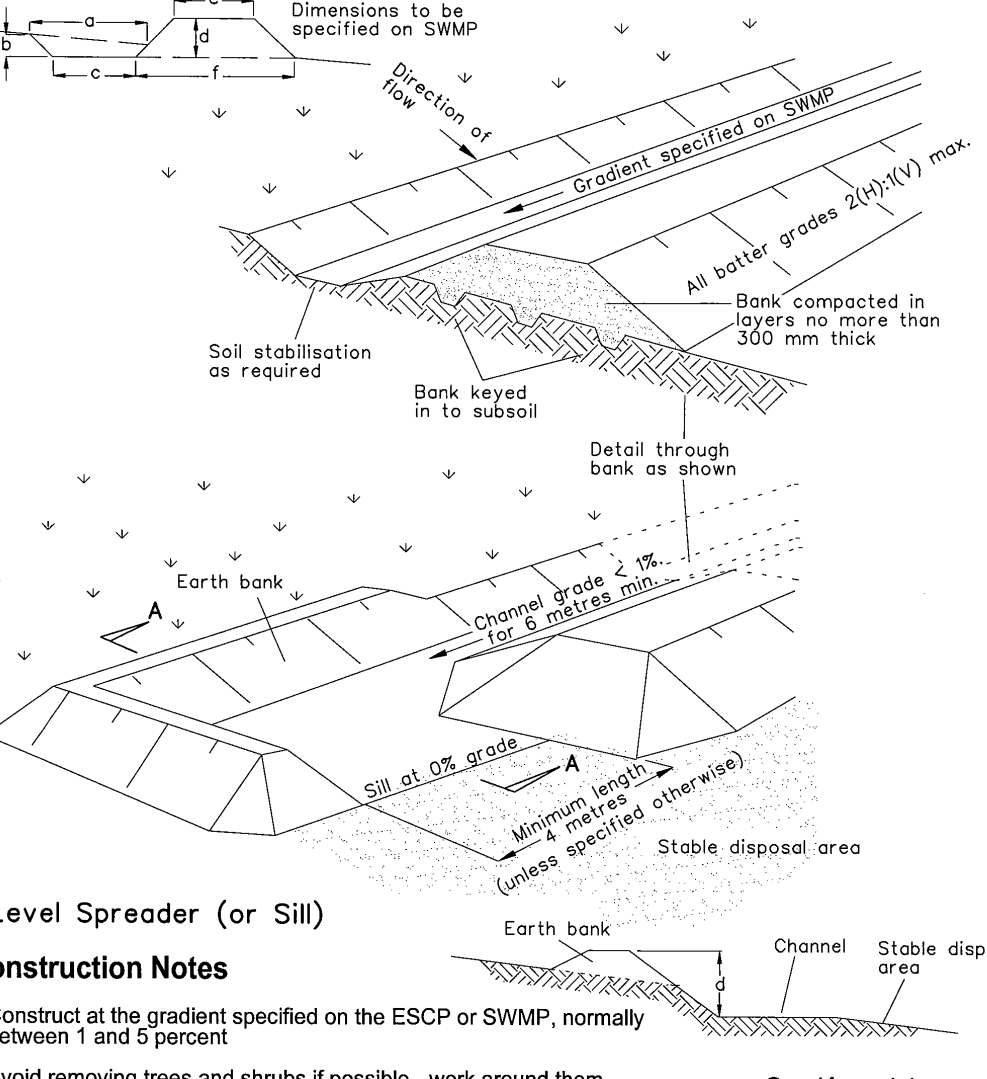
ROCK CHECK DAMSD 5-4



**Construction Notes**

- Build with gradients between 1 percent and 5 percent.
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction.

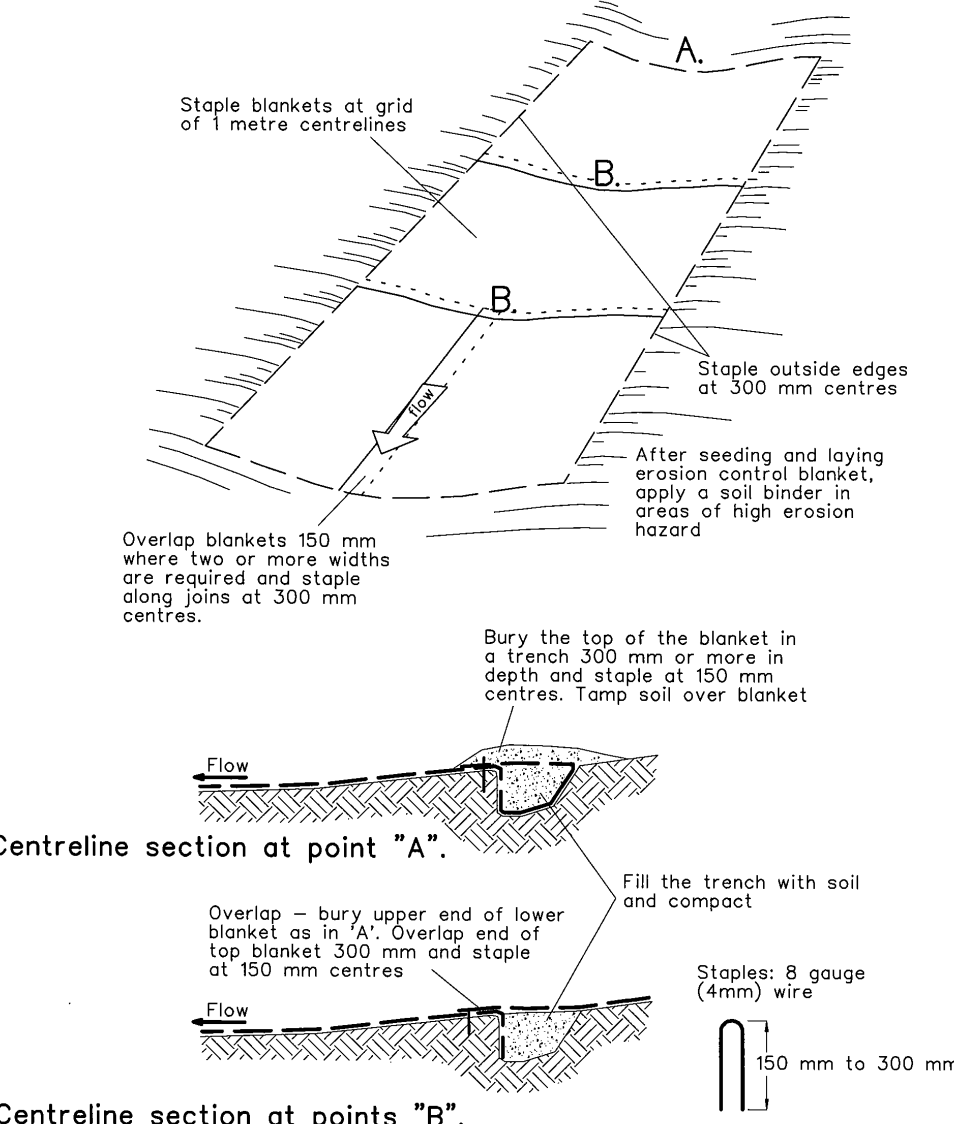
EARTH BANK (LOW FLOW)SD 5-5



**Construction Notes**

- Construct at the gradient specified on the ESCP or SWMP, normally between 1 and 5 percent
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V-shaped, at the dimensions shown on the SWMP.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction following Table 5.2 in Landcom (2004).
- Where discharging to erodible lands, ensure they outlet through a properly constructed level spreader.
- Construct the level spreader at the gradient specified on the ESCP or SWMP, normally less than 1 percent or level.
- Where possible, ensure they discharge waters onto either stabilised or undisturbed disposal sites within the same subcatchment area from which the water originated. Approval might be required to discharge into other subcatchments.

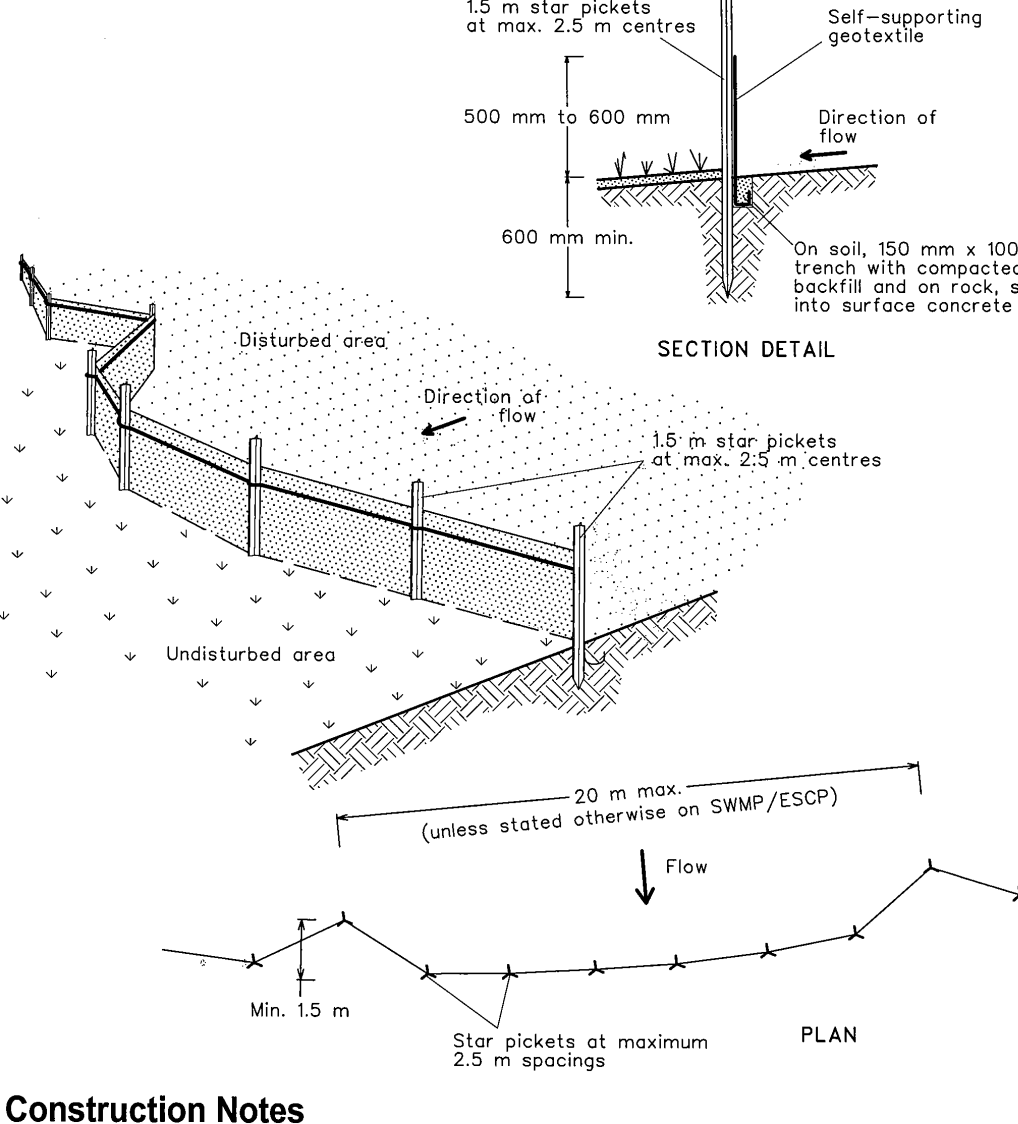
EARTH BANK (HIGH FLOWS)SD 5-6



**Construction Notes**

- Remove any rocks, clods, sticks or grass from the surface before laying matting
- Ensure that topsoil is at least 75 mm deep.
- Complete fertilising and seeding before laying the matting.
- Ensure fabric will be continuously in contact with the soil by grading the surface carefully first.
- Lay the fabric in "shingle-fashion", with the end of each upstream roll overlapping those downstream. Ensure each roll is anchored properly at its upslope end (Standard Drawing 5-7b).
- Ensure that the full width of flow in the channel is covered by the matting up to the design storm event, usually in the 10-year ARI time of concentration storm event.
- Divert water from the structure until vegetation is stabilised properly.

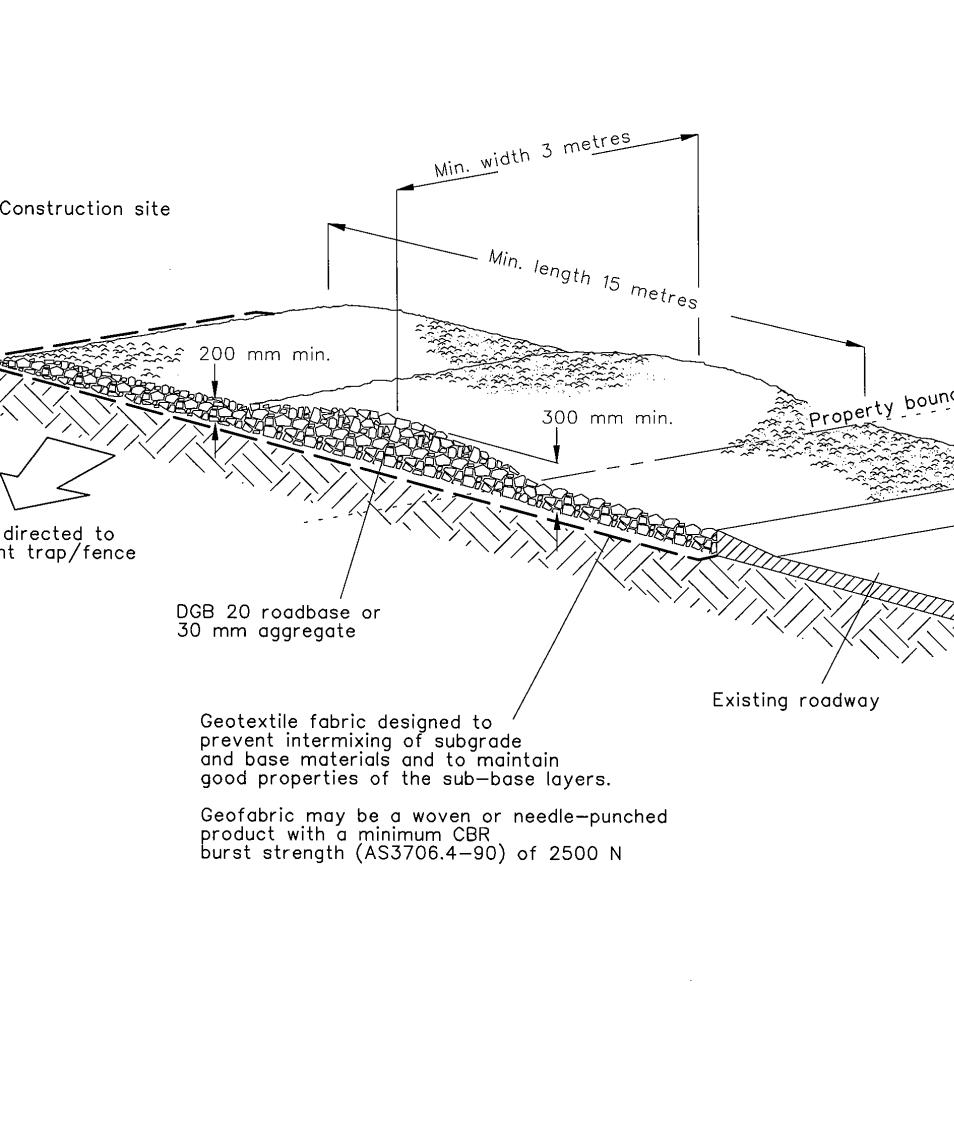
RECIP : CONCENTRATED FLOWSD 5-7



**Construction Notes**

- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
- Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
- Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
- Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
- Join sections of fabric at a support post with a 150-mm overlap.
- Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

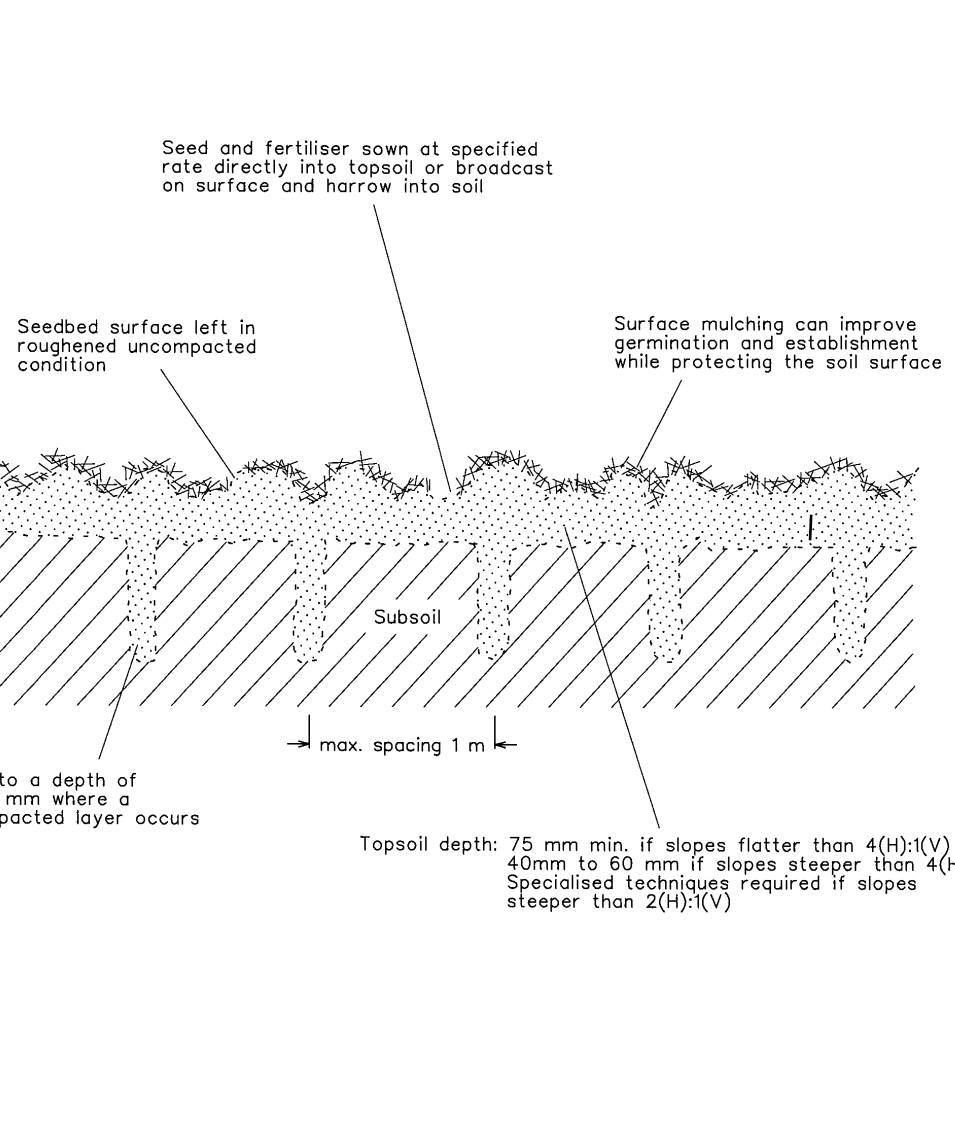
SEDIMENT FENCESD 6-8



**Construction Notes**

- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

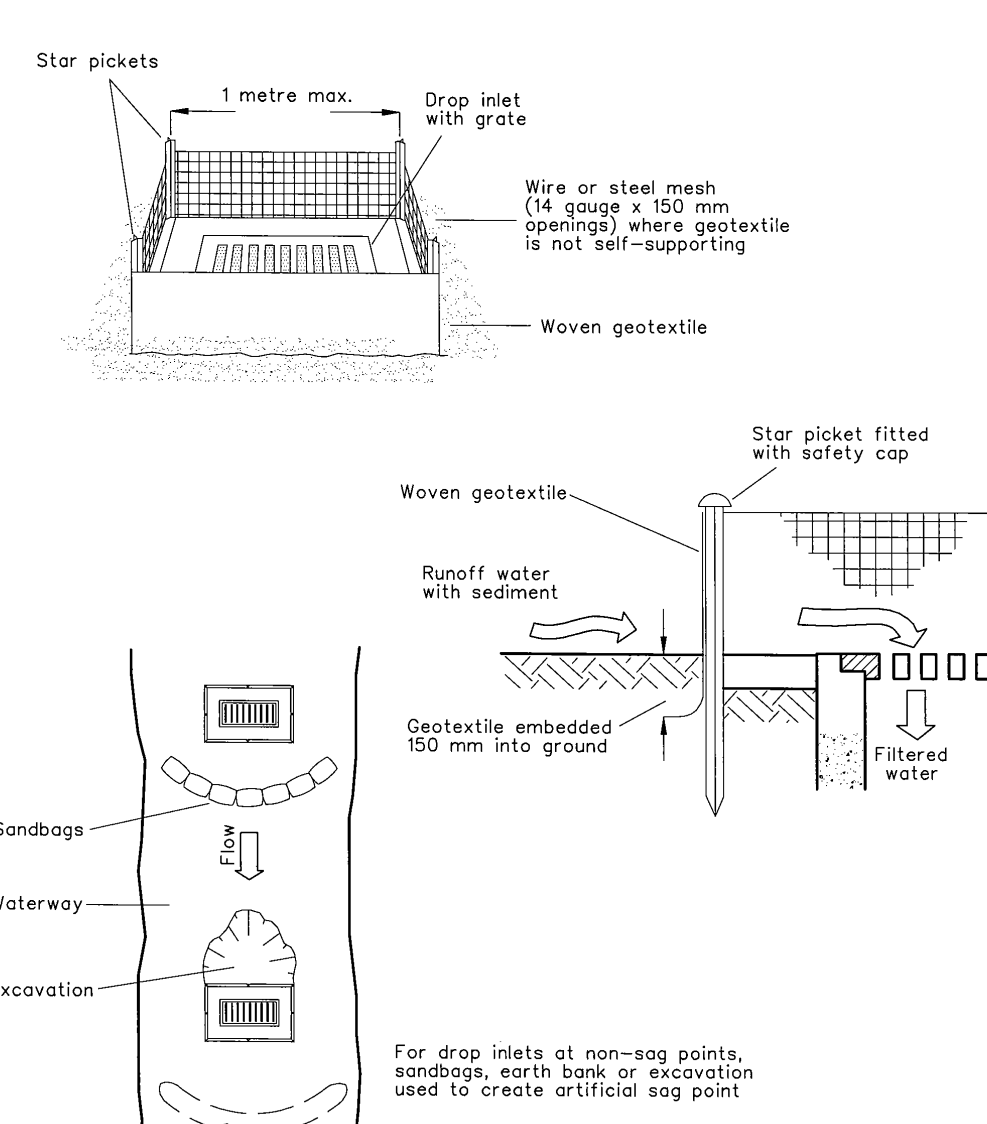
STABILISED SITE ACCESSSD 6-14



**Construction Notes**

- Loosen compacted soil before sowing any seed. If necessary, rip the soil to a depth of 300 mm. Avoid rotary hoe cultivation.
- Work the ground only as much as necessary to achieve the desired tilth and prepare a good seedbed.
- Avoid cultivation in very wet or very dry conditions.
- Cultivate on or close to the contour where possible, not up and down the slope.

SEEDBED PREPARATIONSD 7-1



**Construction Notes**

- Fabricate a sediment barrier made from geotextile or straw bales.
- Follow Standard Drawing 5-7 and Standard Drawing 5-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
- In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
- Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTERSD 6-12

|       |                                                                  |            |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 03-09-2004 |
| 1.5   | UPDATED FOR RESUBMISSION                                         | 15-04-24   |
| 1.4   | UPDATED FOR RESUBMISSION                                         | 12-03-24   |
| 1.3   | UPDATED TO ADDRESS COMMENTS                                      | 06-03-24   |
| 1.2   | UPDATED TO ADDRESS COMMENTS                                      | 20-02-24   |
| 1.1   | UPDATED TO ADDRESS COMMENTS                                      | 11-02-24   |
| 1     | UPDATED WITH ADDITIONAL SEDIMENT FENCE TO ADDRESS COMMENTS       | 27-01-24   |
| 0     | UPDATED TO ADDRESS COMMENTS                                      | 16-01-24   |
| C     | UPDATED WITH CALCULATIONS FOR SUBMISSION                         | 08-01-24   |
| B     | UPDATED WITH STAGING FOR SUBMISSION                              | 06-12-23   |
| A     | INITIAL SUBMISSION                                               | 16-10-23   |
| Issue | Description                                                      | Date       |

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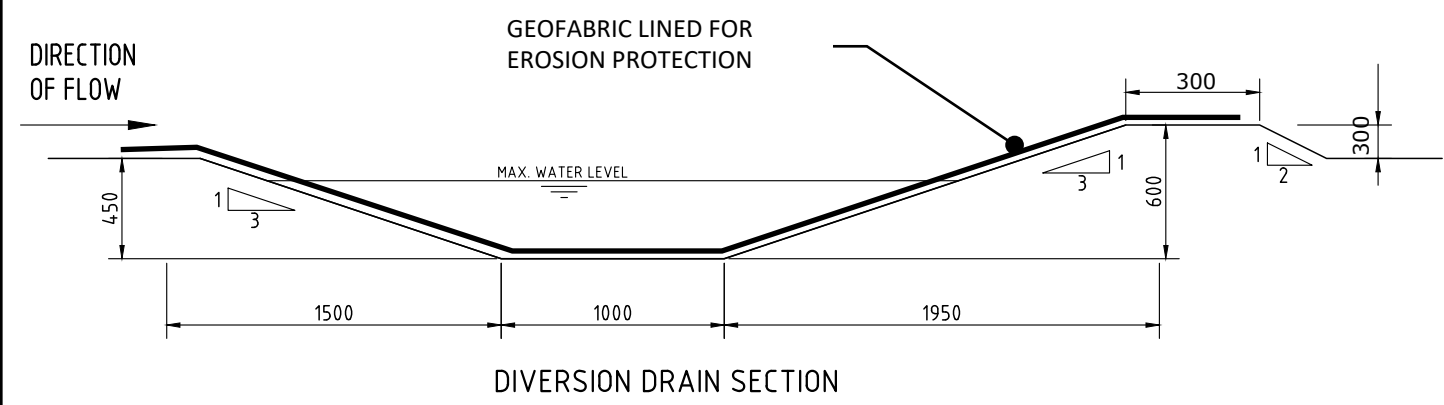
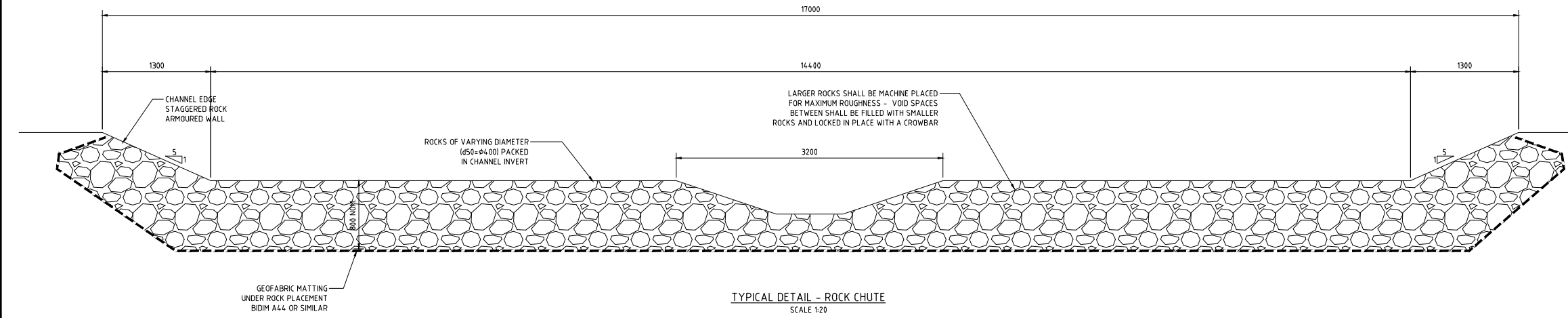
|                                                                                           |               |          |    |
|-------------------------------------------------------------------------------------------|---------------|----------|----|
| Scales                                                                                    | N/A           | Drawn    | BC |
| Grid                                                                                      | MGA94 ZONE 56 | Designed | BC |
| Height                                                                                    | AHD           | Checked  | BC |
| Datum                                                                                     |               | Approved |    |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |               |          |    |

|         |                                                                  |
|---------|------------------------------------------------------------------|
| Project | YIRIBANA LOGISTICS ESTATE - THE GPT GROUP                        |
| Title   | EROSION AND SEDIMENT CONTROL PLAN -- STANDRAD DRAWINS - SHEET 29 |

|                                                                                                                                                                                                  |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| OCHRE ENVIRONMETAL MANAGEMENT                                                                                                                                                                    |                             |
|  PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407782830<br>www.ochreenvironmental.com.au |                             |
| Status                                                                                                                                                                                           | EARTHWORKS                  |
| Project No. - Drawing No.                                                                                                                                                                        | P92_YBA_GPT_23-00001-ESC-RB |
| Issue                                                                                                                                                                                            | 1                           |

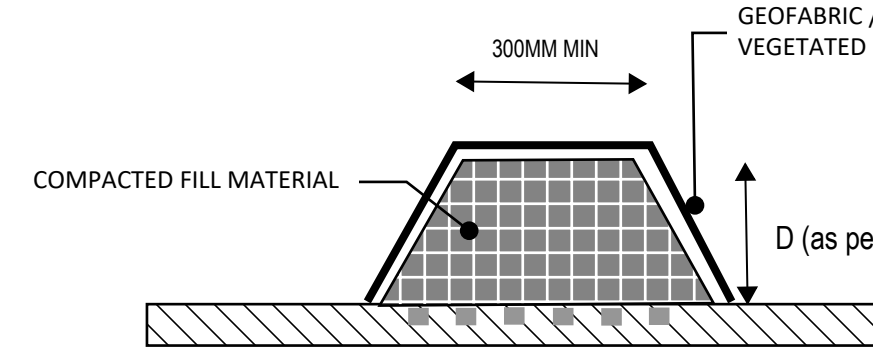


|                                                                                                                                                                                                                                                                                                                                                         |                | Type B             | Type B             | Type B             | Type A             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|--------------------|--------------------|--------------------|
| Basin Specifications                                                                                                                                                                                                                                                                                                                                    |                | Yiribana Basin WH1 | Yiribana Basin WH2 | Yiribana Basin WH3 | Yiribana Basin WH4 |
| Item                                                                                                                                                                                                                                                                                                                                                    | Unit           |                    |                    |                    |                    |
| Design volume requirement                                                                                                                                                                                                                                                                                                                               | m <sup>3</sup> | 1061               | 1178               | 1966.3             | 1519.47            |
| Design surface area requirement                                                                                                                                                                                                                                                                                                                         | m <sup>2</sup> | 1200               | 1332               | 2224               | 544                |
| Length                                                                                                                                                                                                                                                                                                                                                  | m              | 60                 | 63                 | 81.9               | 75                 |
| Width                                                                                                                                                                                                                                                                                                                                                   | m              | 20                 | 21                 | 27.2               | 16.9               |
| Surface area                                                                                                                                                                                                                                                                                                                                            | m <sup>2</sup> | 1200               | 1327.2             | 2227.68            | 1267.5             |
| Length to width ratio                                                                                                                                                                                                                                                                                                                                   | ratio          | 3:1                | 3.00952380952381:1 | 3.01102941176471:1 | 4.43786982248521:1 |
| Depth                                                                                                                                                                                                                                                                                                                                                   | m              | 1.2                | 1                  | 1.2                | 1.2                |
| Basin wall batter slope                                                                                                                                                                                                                                                                                                                                 | ratio          | 2:1                | 2:1                | 2:1                | 2:1                |
| X-section area                                                                                                                                                                                                                                                                                                                                          | m <sup>2</sup> | 21.12              | 22                 | 29.76              | 17.4               |
| Basin volume                                                                                                                                                                                                                                                                                                                                            | m <sup>3</sup> | 1267.2             | 1411               | 2437.344           | 1305               |
| Forebay (10% of volume)                                                                                                                                                                                                                                                                                                                                 | m <sup>3</sup> | 126.72             | 141                | 243.7344           | 130.5              |
| Forebay length                                                                                                                                                                                                                                                                                                                                          | m              | 8                  | 8                  | 7                  | 8                  |
| Forebay width                                                                                                                                                                                                                                                                                                                                           | m              | 20                 | 21                 | 20.1               | 16.9               |
| Forebay depth                                                                                                                                                                                                                                                                                                                                           | m              | 1.0                | 1.00               | 1.0                | 1.2                |
| Forebay spillway basin slope                                                                                                                                                                                                                                                                                                                            | ratio          | 3:1                | 3:1                | 3:1                | 3:1                |
| X-section area                                                                                                                                                                                                                                                                                                                                          | m <sup>2</sup> | 18                 | 19                 | 18.1               | 17.4               |
| Forebay volume                                                                                                                                                                                                                                                                                                                                          | m <sup>3</sup> | 144                | 152                | 126.7              | 139.2              |
| Spillway crest below basin wall                                                                                                                                                                                                                                                                                                                         | m              | 0.45               | 0.45               | 0.45               | 0.45               |
| Spillway width                                                                                                                                                                                                                                                                                                                                          | m              | 20                 | 21                 | 27.2               | 16.9               |
| Spillway freeboard                                                                                                                                                                                                                                                                                                                                      | m              | 0.3                | 0.3                | 0.3                | 0.3                |
| Basin lining                                                                                                                                                                                                                                                                                                                                            | ea             | A29 bidim          | A29 bidim          | A29 bidim          | A29 bidim          |
| Spillway lining                                                                                                                                                                                                                                                                                                                                         | ea             | rip rap            | rip rap            | rip rap            | rip rap            |
| Outlet, concrete culvert                                                                                                                                                                                                                                                                                                                                | dia            | >450               | >450               | >450               | >450               |
| AS PER IECA SEDIMENT BASIN DESIGN GUIDELINES FGOR SEDIMENT BASIN DESIGN STEP 5B IDENTIFIES THAT THE BASIN SPILLWAY SHOULD BE THE MAXIMUM PRACTICAL WIDTH TO PREVENT RESUSPENSION OF SETTLED SEDIMENT (I.E. JUST LESS THAN THE TOP WIDTH OF THE SETTLING ZONE) WITH A FREEBOARD / CREST OF 300MM. BASINS ARE DESIGNED IN ACCORDANCE WITH THIS GUIDELINE. |                |                    |                    |                    |                    |



## DIVERSION DRAIN AND BUND SIZING

| DRAIN / BUND SIZING                                                                                                                                      |                                                                                                         | REFER TO 'TYPICAL DETAIL' ABOVE |       |       |     |       |       |     |       |       |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------|-------|-------|-----|-------|-------|-----|-------|-------|---------------|
| STRUCTURE NAME                                                                                                                                           | CHANNEL DETAILS                                                                                         | BUND1                           | BUND2 | BUND3 | DD4 | BUND5 | BUND6 | CD7 | BUND8 | BUND9 | BUND10 BUND11 |
| CHANNEL DEPTH / BUND HEIGHT, D (m)                                                                                                                       |                                                                                                         | 1.2                             | 1.2   | 1.2   | 1.0 | 1.2   | 1.2   | 0.6 | 0.8   | 0.8   | 1.2           |
| BASE WIDTH, B (m) CHANNEL / BUND                                                                                                                         |                                                                                                         | 1.2                             | 1.2   | 1.2   | 1.2 | 1.2   | 1.2   | 1.0 | 1.2   | 1.2   | 1.5           |
| SLOPE (H:V) CHANNEL / TOP WIDTH, (m)                                                                                                                     |                                                                                                         | 0.3                             | 0.3   | 0.3   | 3   | 0.3   | 0.3   | 3   | 0.3   | 0.3   | 0.3           |
| BUND TOP WIDTH                                                                                                                                           | TOP OF BUND TO BE MIN. 0.3m WIDE.                                                                       |                                 |       |       |     |       |       |     |       |       |               |
| DRAIN SLOPE (%)                                                                                                                                          | DRAIN SLOPES TO BE RELATIVE TO THE SITE TOPOGRAPHY. HOWEVER, THE ABSOLUTE MINIMUM DRAIN SLOPE TO BE 1%. |                                 |       |       |     |       |       |     |       |       |               |
| IN LOCATIONS WHERE PERMANENT DRAINS ARE USED TO AS DIVERSION DRAINS FOR EROSION AND SEDIMENT CONTROL, CONSTRUCT DRAINS TO PERMANENT SIZING REQUIREMENTS. |                                                                                                         |                                 |       |       |     |       |       |     |       |       |               |



## STANDARD EARTHEN BUND

| 3. Sediment Basin Spillway Design |       |       |       |       |     |     |  |  |  |  |                                                                                              |
|-----------------------------------|-------|-------|-------|-------|-----|-----|--|--|--|--|----------------------------------------------------------------------------------------------|
| Structure Details                 |       |       |       |       |     |     |  |  |  |  |                                                                                              |
| Structure Name                    | WH1   | WH2   | WH3   | WH4   |     |     |  |  |  |  | Auto-filled from Worksheet 1                                                                 |
| Catchment Area (ha)               | 4     | 4.01  | 6.7   | 7.55  |     |     |  |  |  |  | Auto-filled from Worksheet 1                                                                 |
| Time of concentration (h)         | 7     | 7     | 8     | 9     |     |     |  |  |  |  | Auto-calculated assuming 15 min                                                              |
| Rainfall Intensities (IFD Values) |       |       |       |       |     |     |  |  |  |  |                                                                                              |
| 1 year, 1h                        | 52.7  | 58.3  | 58.3  | 51    |     |     |  |  |  |  | Enter the relevant rainfall intensities (in mm/h) for each of the nominated rainfall events. |
| 2 year, 1h                        | 60.5  | 67    | 67    | 58.6  |     |     |  |  |  |  |                                                                                              |
| 5 year, 1h                        | 85.3  | 94.4  | 94.4  | 82.6  |     |     |  |  |  |  |                                                                                              |
| 10 year, 1h                       | 102   | 113   | 113   | 99.2  |     |     |  |  |  |  |                                                                                              |
| 20 year, 1h                       | 119   | 132   | 132   | 116   |     |     |  |  |  |  |                                                                                              |
| 50 year, 1h                       | 142   | 157   | 157   | 138   |     |     |  |  |  |  |                                                                                              |
| 100 year, 1h                      | 160   | 177   | 177   | 155   |     |     |  |  |  |  |                                                                                              |
| C <sub>s</sub> runoff coefficient | 0.64  | 0.64  | 0.64  | 0.64  |     |     |  |  |  |  | Use ARAR or Table F.3, pg F-6                                                                |
| Design ARI event (selected)       | 20    | 20    | 20    | 20    | 100 | 100 |  |  |  |  | Select design ARI (years) from dropdown                                                      |
| Frequency Factor                  | 1.05  | 1.05  | 1.05  | 1.05  | 1.2 | 1.2 |  |  |  |  | Auto-filled based on selected ARI                                                            |
| Flow Calculation                  | 0.889 | 0.989 | 1.652 | 1.636 |     |     |  |  |  |  | Auto-calculated based on selected ARI                                                        |

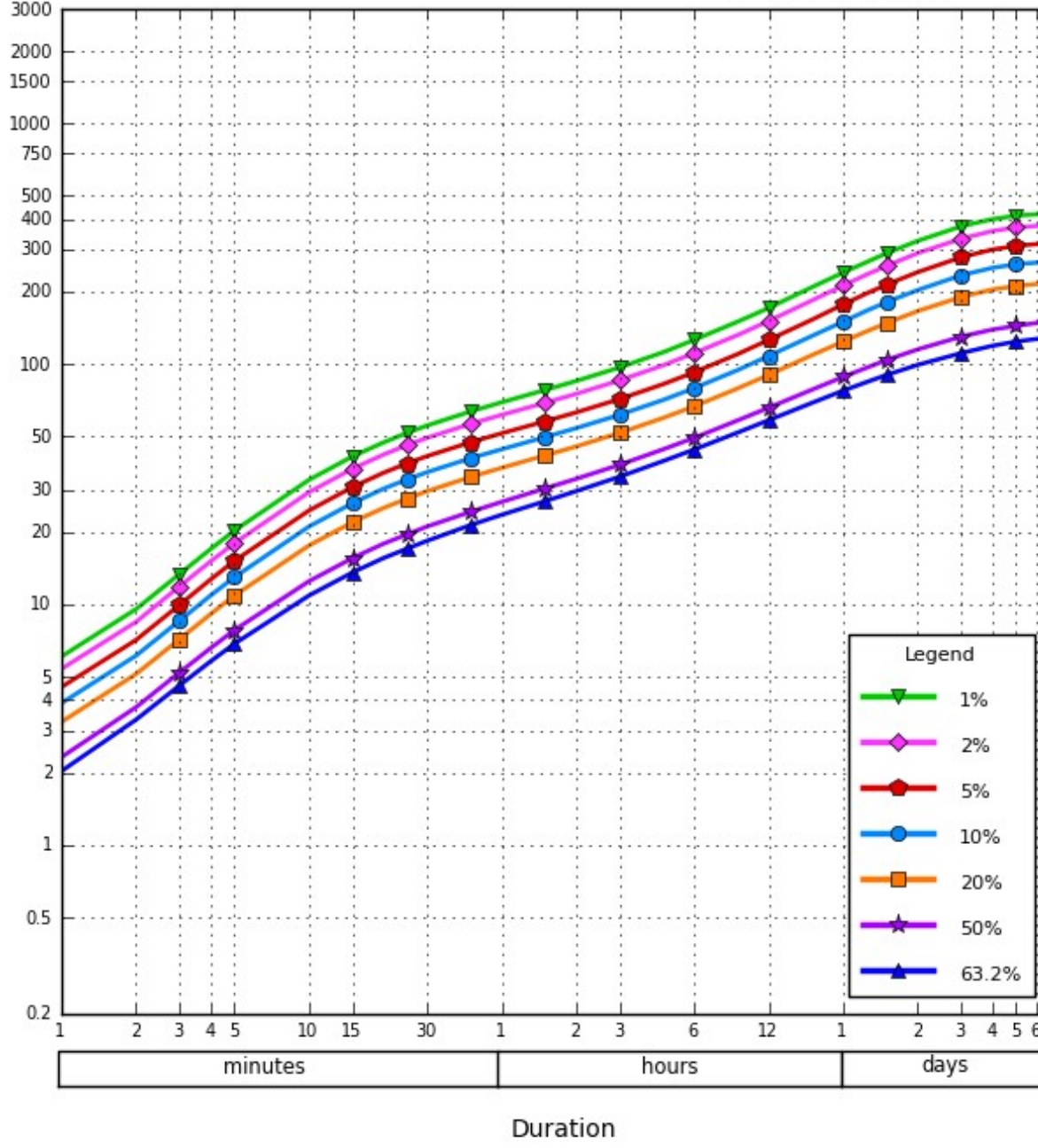
|                                                    | Sub-catchment or Name of Structure                                                                                          |           |                        |                        | Notes                                                                                                                    |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Basin Name                                         | WH1                                                                                                                         | WH2       | WH3                    | WH4                    | Must be same as site area on Worksheet 1                                                                                 |
| Catchment Area (ha)                                | 4                                                                                                                           | 4.01      | 6.7                    | 7.55                   | Total catchment area - autofilled from Worksheet 1                                                                       |
| Peak Flow Calculation                              | Q = C x I x A / 360                                                                                                         |           |                        |                        |                                                                                                                          |
| Peak 1 year flow - Q1 (m <sup>3</sup> /s)          | 0.300                                                                                                                       | 0.333     | 0.556                  | 0.548                  | Peak Q1 flow                                                                                                             |
| 0.5 x Q1 flow (m <sup>3</sup> /s)                  | 0.150                                                                                                                       | 0.167     | 0.278                  | 0.274                  | Half Q1 flow                                                                                                             |
| Settling Zone Dimensions                           |                                                                                                                             |           |                        |                        |                                                                                                                          |
| Length to width ratio X: 1                         | 3                                                                                                                           | 3         | 3                      | 3                      | 3:1 recommended                                                                                                          |
| Batter slope (1 in X)                              | 2                                                                                                                           | 2         | 2                      | 2                      | < 1V:5H                                                                                                                  |
| Option 1B                                          | Calculates minimum settling pond surface area (As) and depth (Ds)                                                           |           |                        |                        |                                                                                                                          |
| (mm)                                               | 150                                                                                                                         | 150       | 150                    | 150                    | (IECA, 2018)                                                                                                             |
| (s/m)                                              | 8000                                                                                                                        | 8000      | 8000                   | 8000                   | Refer Table B17, page B.26 (IECA, 2018)                                                                                  |
| Minimum surface area - As (m <sup>2</sup> )        | 1200.0                                                                                                                      | 1332.0    | 2224.0                 | 2132.0                 | Eqn B19                                                                                                                  |
| Minimum settling depth - Ds (m)                    | 0.68                                                                                                                        | 0.68      | 0.68                   | 0.68                   | Refer to Table B17, page B.26 (IECA, 2018)                                                                               |
| Critical settling zone length - L <sub>c</sub> (m) | 81                                                                                                                          | 81        | 81                     | 81                     | Refer to Table B17, page B.26 (IECA, 2018)                                                                               |
| Approx. width of basin - Ws (m)                    | 20.0                                                                                                                        | 21.1      | 27.2                   | 27.0                   | software                                                                                                                 |
| Approx. length of basin (m)                        | 60.0                                                                                                                        | 63.2      | 81.7                   | 81.1                   | software                                                                                                                 |
| Check Ls is less than critical                     | OK                                                                                                                          | OK        | Basin Use method below | Basin Use method below | Basin design if length > Ls                                                                                              |
| Large Basin Design - 1B                            | Large basins require a different sizing based on reducing supernatant velocity. If above method does not satisfy Ls require |           |                        |                        |                                                                                                                          |
| Large basin - Ds (m)                               |                                                                                                                             |           | 1.2                    | 0.7                    | The depth Ds or width Ws must be increased to limit the supernatant velocity for large basins. Refer Equation B22 (IECA) |
| Large basin width - Ws (m)                         |                                                                                                                             |           | 15.45                  | 26.11                  | Assumes 3:1 length to width ratio                                                                                        |
| Large basin length (m)                             |                                                                                                                             |           | 46.36                  | 78.32                  |                                                                                                                          |
| Sediment Storage Zone (SS)                         |                                                                                                                             |           |                        |                        |                                                                                                                          |
| Soil loss (t/ha/yr)                                | 268.8                                                                                                                       | 85.3      | 85.3                   | 85.3                   | Calculated on worksheet 1                                                                                                |
| Sediment density (t / m <sup>3</sup> )             | 1.3                                                                                                                         | 1.3       | 1.3                    | 1.3                    | m3                                                                                                                       |
| Soil loss (m <sup>3</sup> /ha/yr)                  | 206.8                                                                                                                       | 65.6      | 65.6                   | 65.6                   | Based on sediment density above                                                                                          |
| Put an X here for 30% of water zone                | x                                                                                                                           | x         | x                      | x                      | Fill in one or the other - either an X or nominate the number of months. Refer to Page B.40 (IECA, 2018)                 |
| Storage (soil) zone design (months)                |                                                                                                                             |           |                        |                        |                                                                                                                          |
| Basin storage (soil) volume (m <sup>3</sup> )      | 245.0                                                                                                                       | 272.0     | 258.0                  | 429.0                  | Refer to Page B.40 (IECA, 2018)                                                                                          |
| level (m <sup>3</sup> )                            | 1061.0                                                                                                                      | 1177.8    | 1117.6                 | 1860.4                 | 30% of V <sub>ss</sub> or x months storage. See pg B.40                                                                  |
| Summary of Type B Basin Dimensions                 |                                                                                                                             |           |                        |                        |                                                                                                                          |
| Basin Name                                         | WH1                                                                                                                         | WH2       | WH3                    | WH4                    |                                                                                                                          |
| Adopted basin type                                 | Option 1B                                                                                                                   | Option 1B | Option 1B - Large      | Option 1B - Large      |                                                                                                                          |
| Settling zone surface area - As (m <sup>2</sup> )  | 1200.0                                                                                                                      | 1332.0    | 716.3                  | 2044.9                 |                                                                                                                          |
| Depth of settling zone - Ds (m)                    | 0.7                                                                                                                         | 0.7       | 1.20                   | 0.70                   |                                                                                                                          |
| Settling zone volume - Vs (m <sup>3</sup> )        | 816.0                                                                                                                       | 905.8     | 859.6                  | 1431.4                 |                                                                                                                          |
| Basin storage (soil) volume (m <sup>3</sup> )      | 245.0                                                                                                                       | 272.0     | 258.0                  | 429.0                  |                                                                                                                          |
| level (m <sup>3</sup> )                            | 1061.0                                                                                                                      | 1177.8    | 1117.6                 | 1860.4                 |                                                                                                                          |
| Version 5.2                                        |                                                                                                                             |           |                        |                        |                                                                                                                          |

B

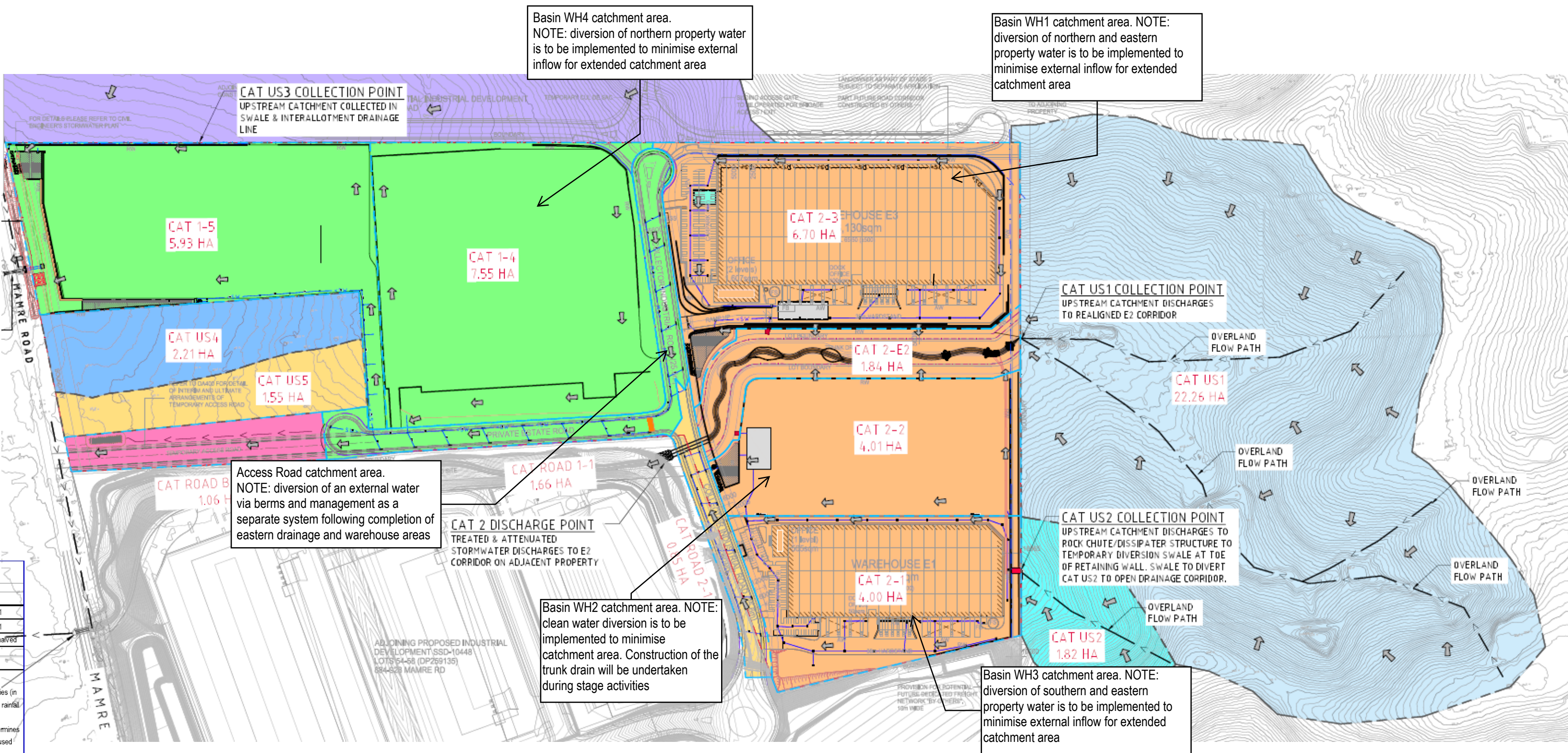
Requested coordinate Latitude: -33.8400 Longitude: 150.7887  
Nearest grid cell Latitude: 33.8375 (S) Longitude: 150.7875 (E)

## IFD Design Rainfall Depth (mm)

Issued: 13 December 2023  
Rainfall depth in millimetres for Durations, Exceedance per Year (EY), and Annual Exceedance Probabilities (AEP).  
Depth (mm)  
\*AEP - Annual Exceedance Probability  
\*\*EY - Exceedance per Year



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|       |                                                                  |            |
|-------|------------------------------------------------------------------|------------|
| 2.0   | UPDATED FOR RESUBMISSION - STAGING ADJUSTED FOR CONSTRUCTABILITY | 03-09-2024 |
| 1.5   | UPDATED FOR RESUBMISSION                                         | 15-04-24   |
| 1.4   | UPDATED FOR RESUBMISSION                                         | 12-03-24   |
| 1.3   | UPDATED TO ADDRESS COMMENTS                                      | 06-03-24   |
| 1.2   | UPDATED TO ADDRESS COMMENTS                                      | 20-02-24   |
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| B     | UPDATED WITH STAGING FOR SUBMISSION                              | 06-12-23   |
| A     | INITIAL SUBMISSION                                               | 16-10-23   |
| Issue | Description                                                      | Date       |

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Client

**BURTON**  
Civil Engineering Contractors

Scales  
N/A

Grid MGA94 ZONE 56

Height Datum  
AHD

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Drawn  
BC

Designed  
BC

Checked  
BC

Approved

Project  
**YIRIBANA LOGISTICS  
ESTATE - THE GPT  
GROUP**

Title  
**EROSION AND SEDIMENT CONTROL  
PLAN -- DESIGN DEATAIL - SHEET 30**

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Status  
**EARTHWORKS**

Project No. - Drawing No.  
P92\_YBA\_GPT\_23-00001-ESC-RB

2

Issue  
1