

**ENGINEERING,  
CONSTRUCTION &  
MAINTENANCE**

**AUTHORISATION**

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

**PROJECT INFORMATION**

Project Number \_\_\_\_\_ MBRC BUDGET NUMBER \_\_\_\_\_

Coordinator MV MP Team Leader \_\_\_\_\_

Designer GB MS Checked \_\_\_\_\_

N.M (GMC) 15/03/2022

Surveyor \_\_\_\_\_ Survey Date / Ref. No. \_\_\_\_\_

Survey Datum \_\_\_\_\_

MGA (GDA94) ZONE 56 AHD Derived

Horizontal \_\_\_\_\_ Vertical \_\_\_\_\_

NOT TO SCALE

Scales

**ISSUE**

Revisions

**100% DETAIL DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue \_\_\_\_\_ Date: XX/XX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

**COVER SHEET  
AND LOCALITY PLAN**

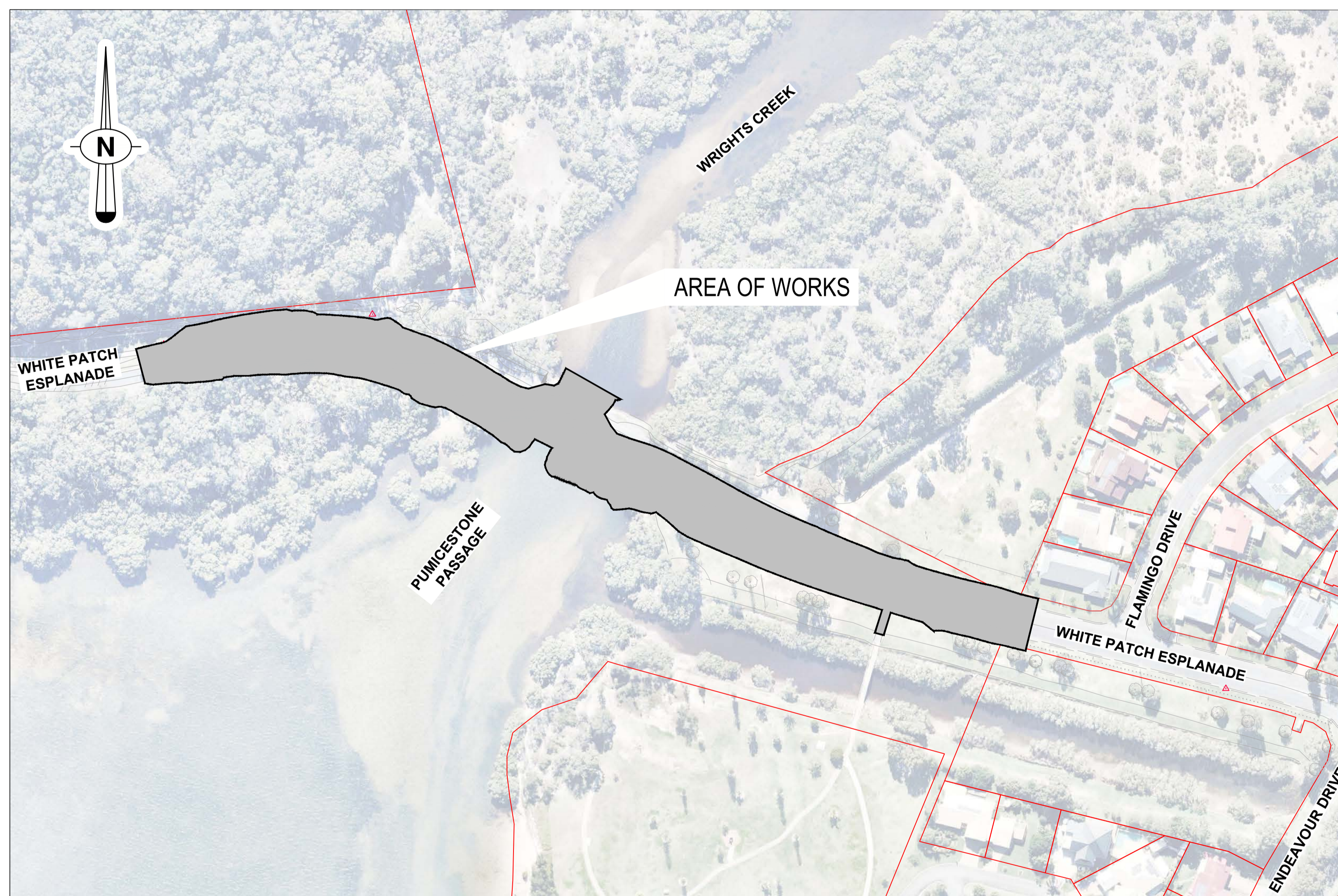
**DRAWING NUMBER**

**001** | **2**

Drawing Number \_\_\_\_\_ Rev. \_\_\_\_\_

Drawing 01 of 31 | Original Plan Size **A1**

# WHITE PATCH ESPLANADE CAUSEWAY RECONSTRUCTION BRIDGE AND ROAD CONSTRUCTION



LOCALITY PLAN  
Not To Scale

Level 4, 262 Adelaide Street, Brisbane, QLD 4000  
GPO BOX 1240, Brisbane QLD 4001  
www.redfoxadvisory.com  
Drawing Number:  
**redfox** 01016-RFA-CIAL-DRG-DI-001

Authorised For Issue:

| Revisions/Descriptions    | Drawn | Approved | Date       |
|---------------------------|-------|----------|------------|
| 2 100% DETAILED DESIGN    | VP    | MP       | 29/11/2022 |
| 1 PROGRESS                | VP    | MP       | 22/09/2022 |
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**ISSUE**

Revisions \_\_\_\_\_

**100% DETAIL DESIGN  
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Original Issue \_\_\_\_\_ Date: XXXX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

**GENERAL NOTES**

**DRAWING NUMBER**

**003** | **2**

Drawing Number \_\_\_\_\_ Rev. \_\_\_\_\_

Drawing 03 of 31 | Original Plan Size **A1**

**NOTES**

**GENERAL**

- FORE SITE CLEARANCE PLANS REFER DRG No. 'DRG-EF-001' TO 'DRG-EF-002'.
- FOR GENERAL ARRANGEMENT PLANS REFER 'DRG-GA-001' TO 'DRG-GA-002'.
- FOR SIGNS AND PAVEMENT MARKING LAYOUT PLANS REFER TO DRG No. 'DRG-SL-001' TO 'DRG-SL-002'.
- FOR PAVEMENT LAYOUT PLANS REFER TO DRG No. 'DRG-PV-001' TO 'DRG-PV-002'.
- FOR PAVEMENT DETAILS REFER DRG No. 'DRG-PD-001'.
- FOR PUBLIC UTILITY PLANS REFER TO DRG No. 'DRG-PU-001' TO 'DRG-PU-002'.
- FOR LONGITUDINAL SECTIONS REFER TO DRG No. 'DRG-LS-001' TO 'DRG-LS-003'.
- FOR ANNOTATED CROSS SECTIONS REFER TO 'DRG-XS-001' TO 'DRG-XS-007'.
- CO-ORDINATES SHOWN ARE MGA (GDA 94, ZONE 56), THE SCALE FACTOR SPECIFIED IS TO BE APPLIED FOR SETTING OUT PURPOSES.
- WHERE PERMANENT SURVEY MARKS ARE REMOVED DURING CONSTRUCTION THE BRASS MARKERS ARE TO BE RETURNED TO MORETON BAY REGIONAL COUNCIL SURVEY SERVICES.
- ALL WORK SHALL BE IN ACCORDANCE WITH MORETON BAY REGIONAL COUNCIL STANDARDS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL DESIGN AND IMPLEMENT EROSION AND SEDIMENT CONTROLS IN ACCORDANCE WITH "BEST PRACTICE EROSION AND SEDIMENT CONTROL" INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA), AUSTRALASIA CHAPTER, 2008 AND IPWEA STD DRG'S DS-040 AND DS-041, TO THE SATISFACTION OF THE SUPERINTENDENT.
- ALL DIMENSIONS ARE TO LIP OF CHANNEL, FACE OF KERB, OR BITUMEN EDGE, OR AS SPECIFIED ON THE DRAWING.
- THE NEW CONSTRUCTION SHALL BE NEATLY JOINED TO THE EXISTING FORMATION. THE EXISTING FORMATION SHALL BE SAWCUT, WHERE REQUIRED, TO A MINIMUM DEPTH OF 100mm PRIOR TO ANY EXCAVATION.
- ALL DISTURBED UNPAVED AREAS TO BE TURFED, SEEDED OR HYDROMULCHED UNLESS NOTED OTHERWISE.

**PATHWAYS**

- MAINTAIN 2.50m MINIMUM HEIGHT CLEARANCE FROM FINISHED FOOTPATH LEVEL, AND 1.0m LATERAL CLEARANCE (0.5m MINIMUM) FROM EDGE OF PATH, TO TREES AND OTHER OBSTRUCTIONS. CONTRACTOR TO ADVISE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF WORKS SHOULD THIS NOT BE THE CASE.
- PATHWAY CONTROL JOINTS TO BE SAWCUT IN ALL INSTANCES.
- TACTILE GROUND SURFACE INDICATORS (TGS) SHALL BE IN ACCORDANCE WITH AS1428.4.1 AND ALSO MEET THE FOLLOWING CRITERIA.
  - TACTILE INDICATORS SHALL BE POLYURETHANE MAT TYPE "FUTURE-TECH" OR APPROVED EQUIVALENT.
  - TACTILE MATS TO BE FASTENED TO SURFACE WITH SCREWS AND ADHESIVE IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS.
  - UV STABLE POLYURETHANE MATERIAL.
  - COLOUR: BLACK UNLESS NOTED OTHERWISE.
  - SLIP RESISTANT TESTED IN ACCORDANCE WITH AS4586.
  - WET PENDULUM TEST ASSESSMENT GROUP W OR BETTER.
  - OIL WET RAMP TEST ASSESSMENT GROUP R11 OR BETTER.

**DESIGN STANDARDS**

- THE REFERENCE DATE FOR THESE PLANS IS JUNE 2022. THIS DESIGN HAS BEEN UNDERTAKEN USING STANDARDS DEFINED ON OR PRIOR TO THIS DATE.

**DESIGN NOTES**

- DESIGN SPEED ADOPTED FOR WHITE PATCH ESPLANADE  
CARS = 70km/hr  
TRUCKS = 70km/hr
- REACTION TIME ADOPTED  
CARS = 2.5s  
TRUCKS = 2.5s
- COEFFICIENTS OF DECELERATION FOR CARS AND TRUCKS HAVE BEEN ADOPTED USING VALUES SHOWN IN TABLE 5.3 OF AUSTROADS PART 3 GUIDE TO GEOMETRIC DESIGN.  
CARS = 0.36  
Trucks = 0.29
- POSTED SPEED IS 60km/hr
- DESIGN VEHICLE ADOPTED FOR WHITE PATCH ESPLANADE 12.5m HEAVY RIGID VEHICLE

**EARTHWORKS VOLUME DISCLAIMER**

- THE EARTHWORKS (CUT AND FILL) AS SHOWN ON THE LONGITUDINAL SECTION HAVE BEEN DEVELOPED USING COMPUTER MODELLING.
- THE EARTHWORKS ONLY APPLY TO WORKS DIRECTLY RELATED TO THE ASSOCIATED CONTROL LINE.
- THE EARTHWORKS MAY NOT CONSTITUTE THE ENTIRETY OF THE EARTHWORKS RELATING TO THIS PROJECT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THEY HAVE ALLOWED FOR ALL EARTHWORKS.

|  |                         |                       |          |            |
|--|-------------------------|-----------------------|----------|------------|
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| 2  | 100% DETAILED DESIGN    | VP                    | MP       | 29/11/2022 |
| 1  | PROGRESS                | VP                    | MP       | 22/09/2022 |
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Designer GB MS Checked \_\_\_\_\_

N.M (GMC) 15/03/2022

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Survey Datum \_\_\_\_\_

MGA (GDA94) ZONE 56 AHD Derived

Horizontal \_\_\_\_\_ Vertical \_\_\_\_\_

A1 / A3 0 1000 2000mm

1:50 / 1:100

Scales

Revisions

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**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

TYPICAL CROSS SECTIONS  
SHEET 1 OF 2

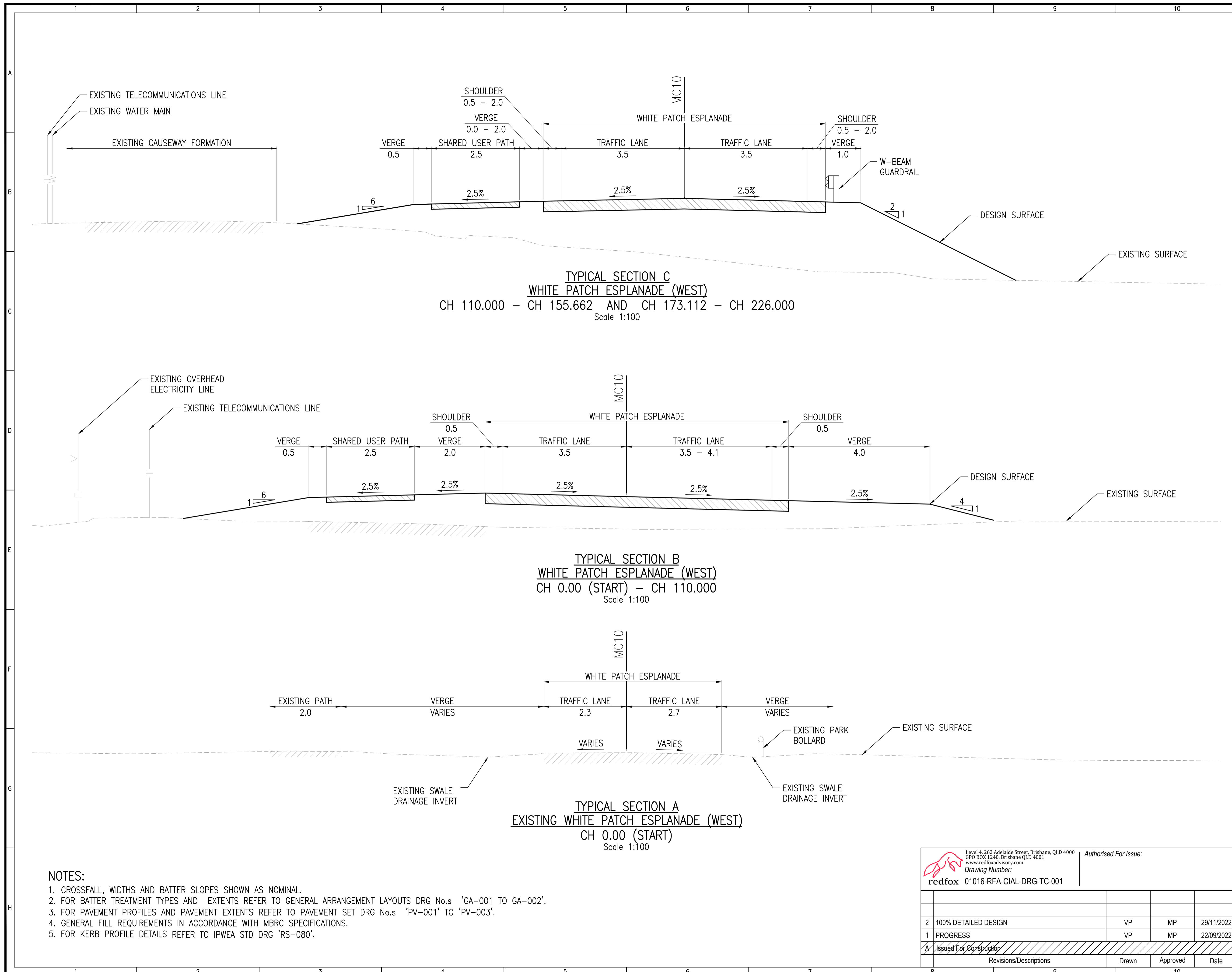
**004**

Drawing Number

**2**

Rev.

Drawing 04 of 31 Original Plan Size **A1**



**TYPICAL SECTION C  
WHITE PATCH ESPLANADE (WEST)**  
CH 110.000 – CH 155.662 AND CH 173.112 – CH 226.000  
Scale 1:100

**TYPICAL SECTION B  
WHITE PATCH ESPLANADE (WEST)**  
CH 0.00 (START) – CH 110.000  
Scale 1:100

**TYPICAL SECTION A  
EXISTING WHITE PATCH ESPLANADE (WEST)**  
CH 0.00 (START)  
Scale 1:100

**NOTES:**

- CROSSFALL, WIDTHS AND BATTER SLOPES SHOWN AS NOMINAL.
- FOR BATTER TREATMENT TYPES AND EXTENTS REFER TO GENERAL ARRANGEMENT LAYOUTS DRG No.s 'GA-001 TO GA-002'.
- FOR PAVEMENT PROFILES AND PAVEMENT EXTENTS REFER TO PAVEMENT SET DRG No.s 'PV-001' TO 'PV-003'.
- GENERAL FILL REQUIREMENTS IN ACCORDANCE WITH MBRC SPECIFICATIONS.
- FOR KERB PROFILE DETAILS REFER TO IPWEA STD DRG 'RS-080'.

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**redfox** 01016-RFA-CIAL-DRG-TC-001

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Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal Vertical



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**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

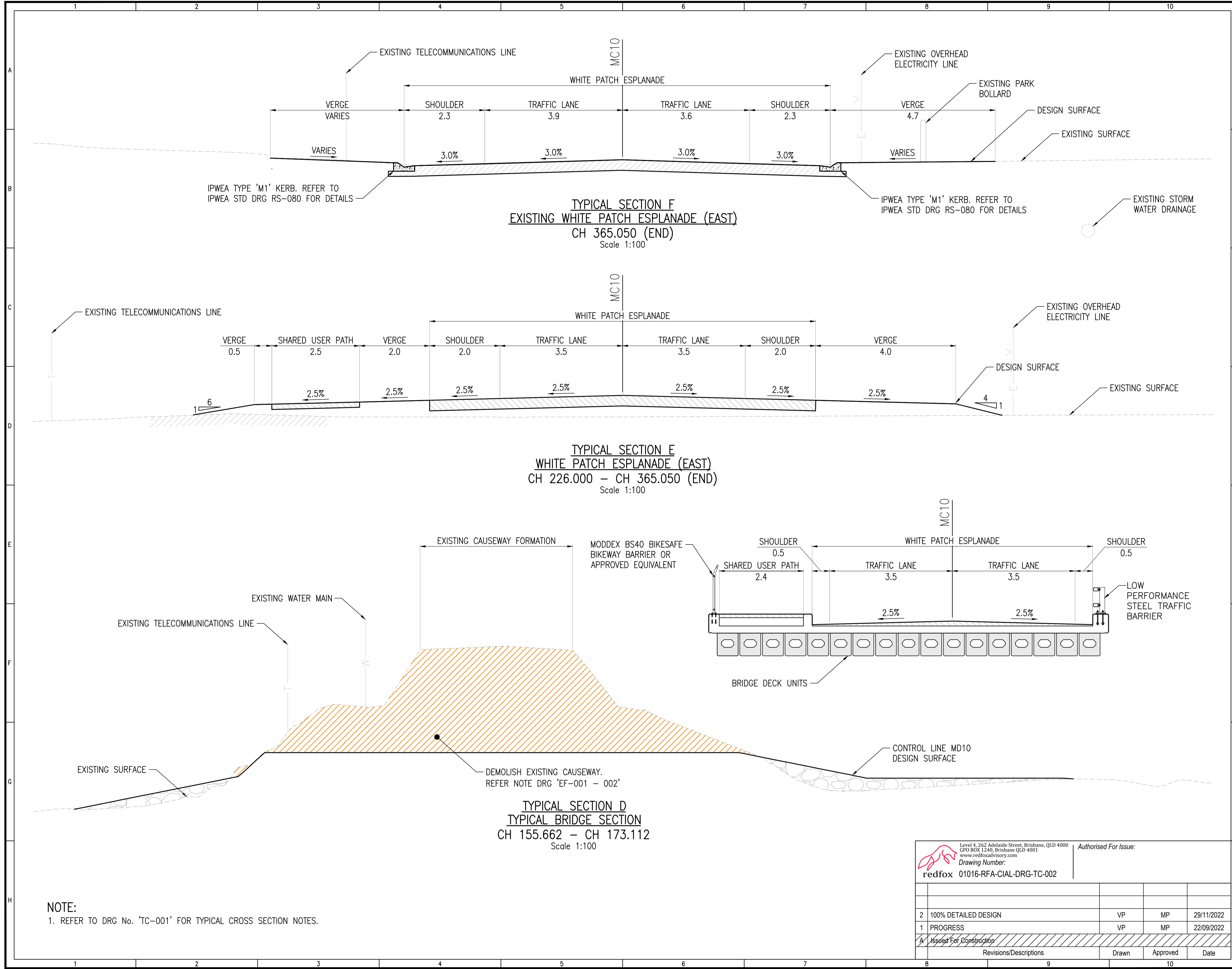
TYPICAL CROSS SECTIONS  
SHEET 2 OF 2

**DRAWING NUMBER**

**005** | 2

Drawing Number Rev.

Drawing 05 of 31 Original Plan Size A1



**NOTE:**  
1. REFER TO DRG No. 'TC-001' FOR TYPICAL CROSS SECTION NOTES.

|  |                         |                       |               |
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|  | Revisions/Descriptions  | Drawn                 | Approved Date |

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

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Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

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Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal Vertical

1:500 / 1:1000 0 5 10 15 20m

Scales

**ISSUE**

Revisions

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**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

**GENERAL ARRANGEMENT  
PLANS  
SHEET 1 OF 2**

**DRAWING NUMBER**

**006** | 2  
Drawing Number Rev.

Drawing 06 of 31 Original Plan Size A1

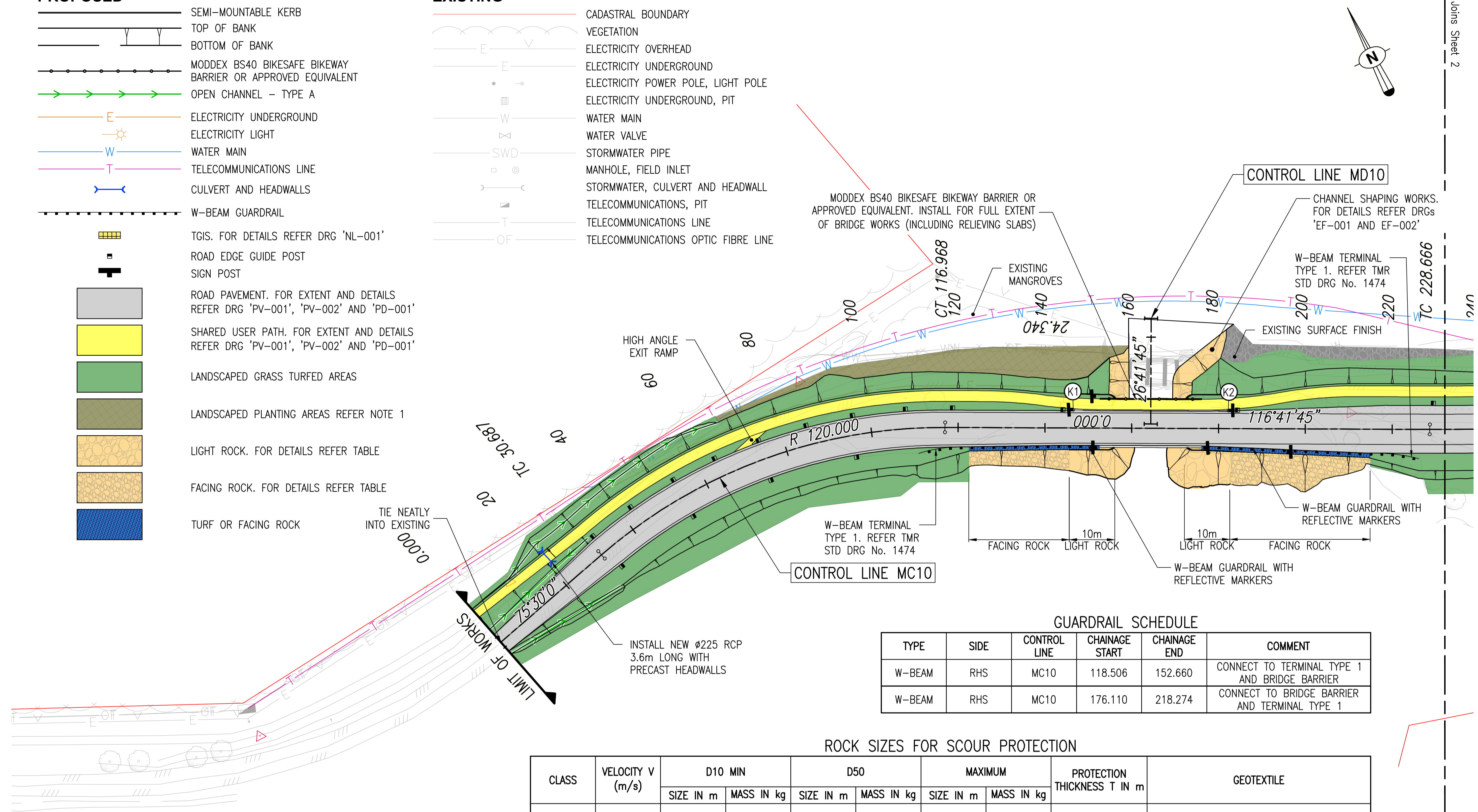
**LEGEND**

**PROPOSED**

- SEMI-MOUNTABLE KERB
- TOP OF BANK
- BOTTOM OF BANK
- MODDEX BS40 BIKESAFE BIKEWAY BARRIER OR APPROVED EQUIVALENT
- OPEN CHANNEL - TYPE A
- ELECTRICITY UNDERGROUND
- ELECTRICITY LIGHT
- WATER MAIN
- TELECOMMUNICATIONS LINE
- CULVERT AND HEADWALLS
- W-BEAM GUARDRAIL
- TGIS. FOR DETAILS REFER DRG 'NL-001'
- ROAD EDGE GUIDE POST
- SIGN POST
- ROAD PAVEMENT. FOR EXTENT AND DETAILS REFER DRG 'PV-001', 'PV-002' AND 'PD-001'
- SHARED USER PATH. FOR EXTENT AND DETAILS REFER DRG 'PV-001', 'PV-002' AND 'PD-001'
- LANDSCAPED GRASS TURFED AREAS
- LANDSCAPED PLANTING AREAS REFER NOTE 1
- LIGHT ROCK. FOR DETAILS REFER TABLE
- FACING ROCK. FOR DETAILS REFER TABLE
- TURF OR FACING ROCK

**EXISTING**

- CADASTRAL BOUNDARY
- VEGETATION
- ELECTRICITY OVERHEAD
- ELECTRICITY UNDERGROUND
- ELECTRICITY POWER POLE, LIGHT POLE
- ELECTRICITY UNDERGROUND, PIT
- WATER MAIN
- WATER VALVE
- STORMWATER PIPE
- MANHOLE, FIELD INLET
- STORMWATER, CULVERT AND HEADWALL
- TELECOMMUNICATIONS, PIT
- TELECOMMUNICATIONS LINE
- TELECOMMUNICATIONS OPTIC FIBRE LINE



**GUARDRAIL SCHEDULE**

| TYPE   | SIDE | CONTROL LINE | CHAINAGE START | CHAINAGE END | COMMENT                                       |
|--------|------|--------------|----------------|--------------|---|
| W-BEAM | RHS  | MC10         | 118.506        | 152.660      | CONNECT TO TERMINAL TYPE 1 AND BRIDGE BARRIER |
| W-BEAM | RHS  | MC10         | 176.110        | 218.274      | CONNECT TO BRIDGE BARRIER AND TERMINAL TYPE 1 |

**ROCK SIZES FOR SCOUR PROTECTION**

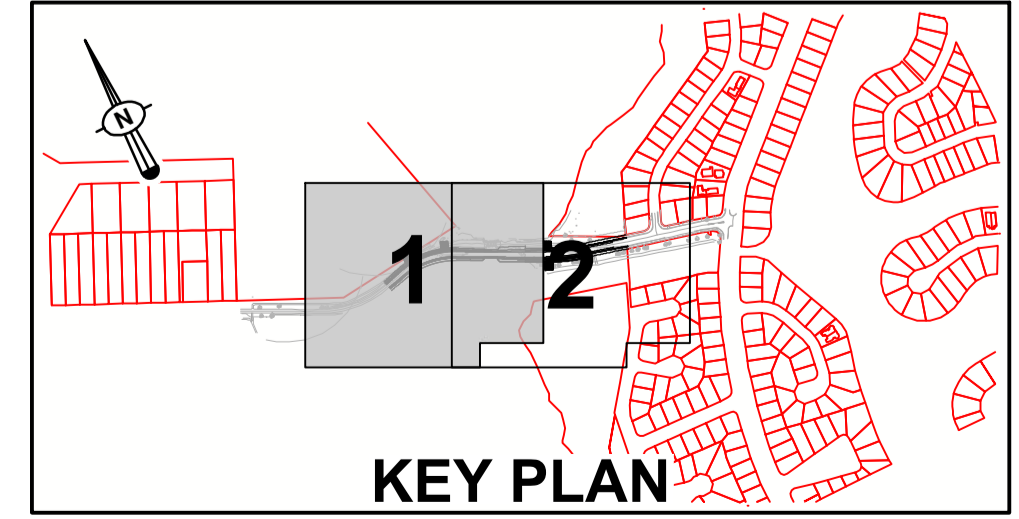
| CLASS  | VELOCITY V (m/s) | D10 MIN   |            | D50       |            | MAXIMUM   |            | PROTECTION THICKNESS T IN m | GEOTEXTILE   |
|--------|------------------|-----------|------------|-----------|------------|-----------|------------|-----------------------------|--|
|        |                  | SIZE IN m | MASS IN kg | SIZE IN m | MASS IN kg | SIZE IN m | MASS IN kg |                             |  |
| FACING | 2.0 - 2.6        | 0.15      | 2.5        | 0.3       | 35         | 0.4       | 100        | 0.50                        | GEOTEXTILE WITH FILTRATION CLASS II, STRENGTH CLASS E, TO MRTS27 AND MINIMUM 150 THICK CUSHIONING LAYER WITH MATERIAL D85 < 75mm |
| LIGHT  | 2.6 - 2.9        | 0.2       | 10         | 0.4       | 100        | 0.55      | 250        | 0.75                        |  |

**KERB SETOUT POINTS**

| POINT | EASTING    | NORTHING    |
|-------|------------|-------------|
| K1    | 513102.189 | 7009578.822 |
| K2    | 513134.139 | 7009562.760 |
| K3    | 513253.122 | 7009513.250 |
| K4    | 513256.371 | 7009511.281 |
| K5    | 513303.687 | 7009499.431 |
| K6    | 513300.889 | 7009488.234 |
| K7    | 513271.743 | 7009495.510 |
| K8    | 513265.924 | 7009496.017 |

**NOTE:**

- LANDSCAPED PLANTING AREAS SHOWN ARE INDICATIVE ONLY. AREAS TO INCLUDE SPECIES MIX OF TREES TO MATCH EXISTING VEGETATION. PLANTING SCHEDULE AND SPACING TO BE DETERMINED ON-SITE. EXISTING SPECIES INCLUDE:
  - MELALEUCA QUINQUENRVIA (BROAD LEAVED PAPERBARK)
  - CASUARINA GLAUCA (SWAMP SHE-OAK)
  - CORYMBIA INTERMEDIA (PINK BLOODWOOD)



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Designer GB MS Checked

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Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal \_\_\_\_\_ Vertical \_\_\_\_\_

Scales  
A1 / A3 0 5 10 15 20m  
1:500 / 1:1000

Revisions

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**WHITE PATCH  
ESPLANADE**

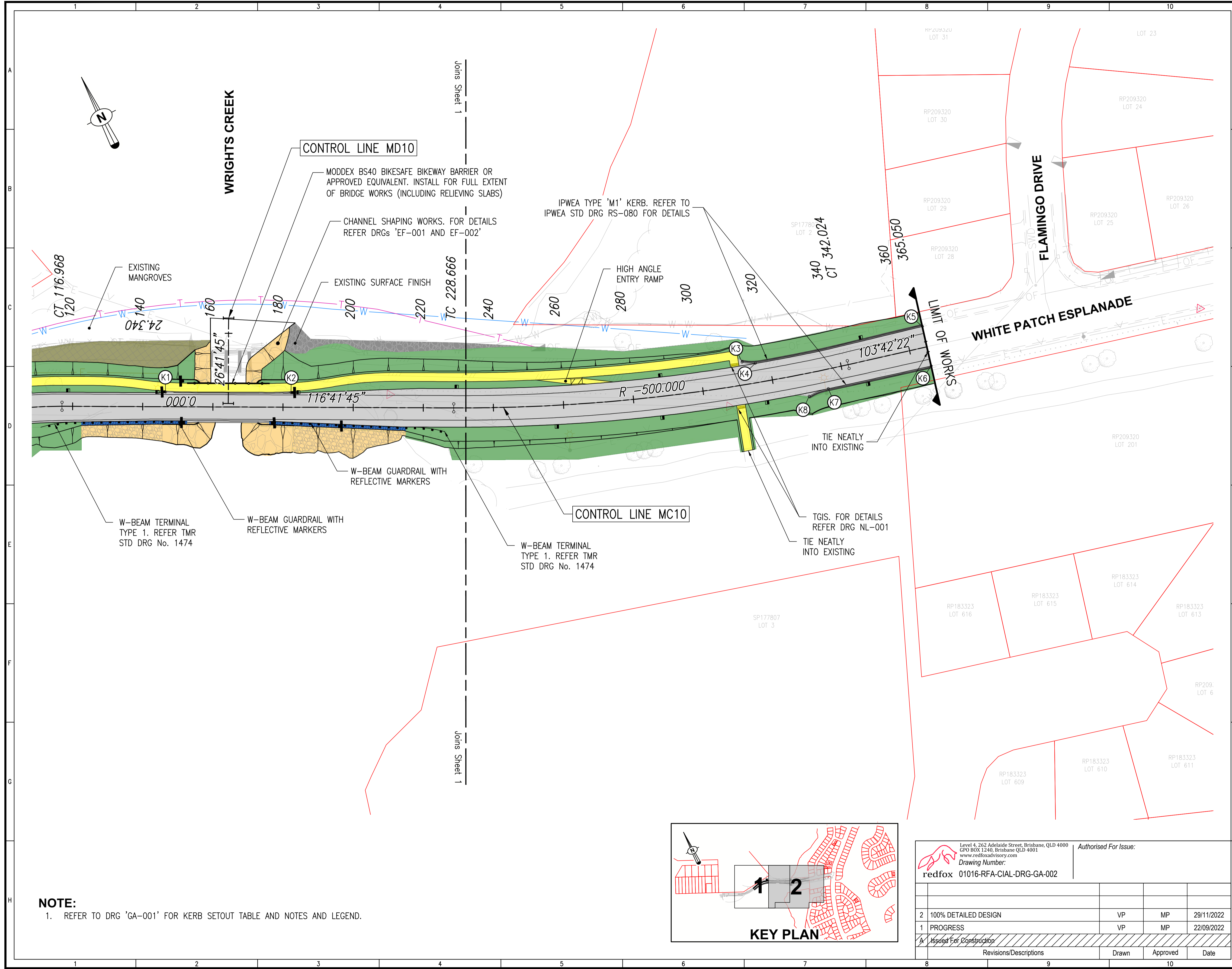
CAUSEWAY UPGRADE

SHEET 2 OF 2

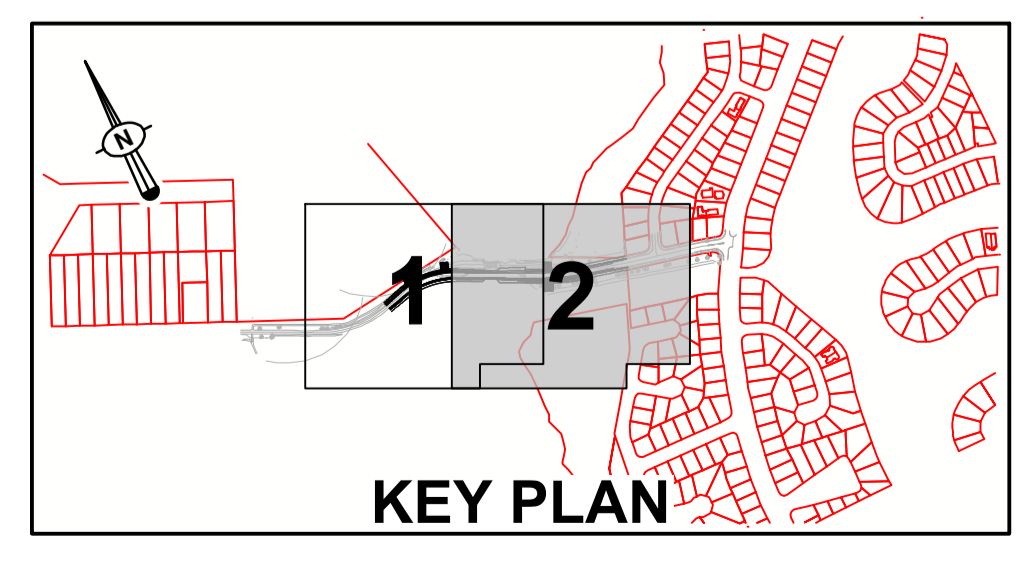
**007** | 2

Drawing Number \_\_\_\_\_ Rev. \_\_\_\_\_

Drawing 07 of 31 | Original Plan Size **A1**



**NOTE:**  
1. REFER TO DRG 'GA-001' FOR KERB SETOUT TABLE AND NOTES AND LEGEND.



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MGA (GDA94) ZONE 56 AHD Derived

Horizontal Vertical

Horizontal 1:500 0 5 10 15 20m

Vertical 1:50 0 1.0 2.0m

Scales

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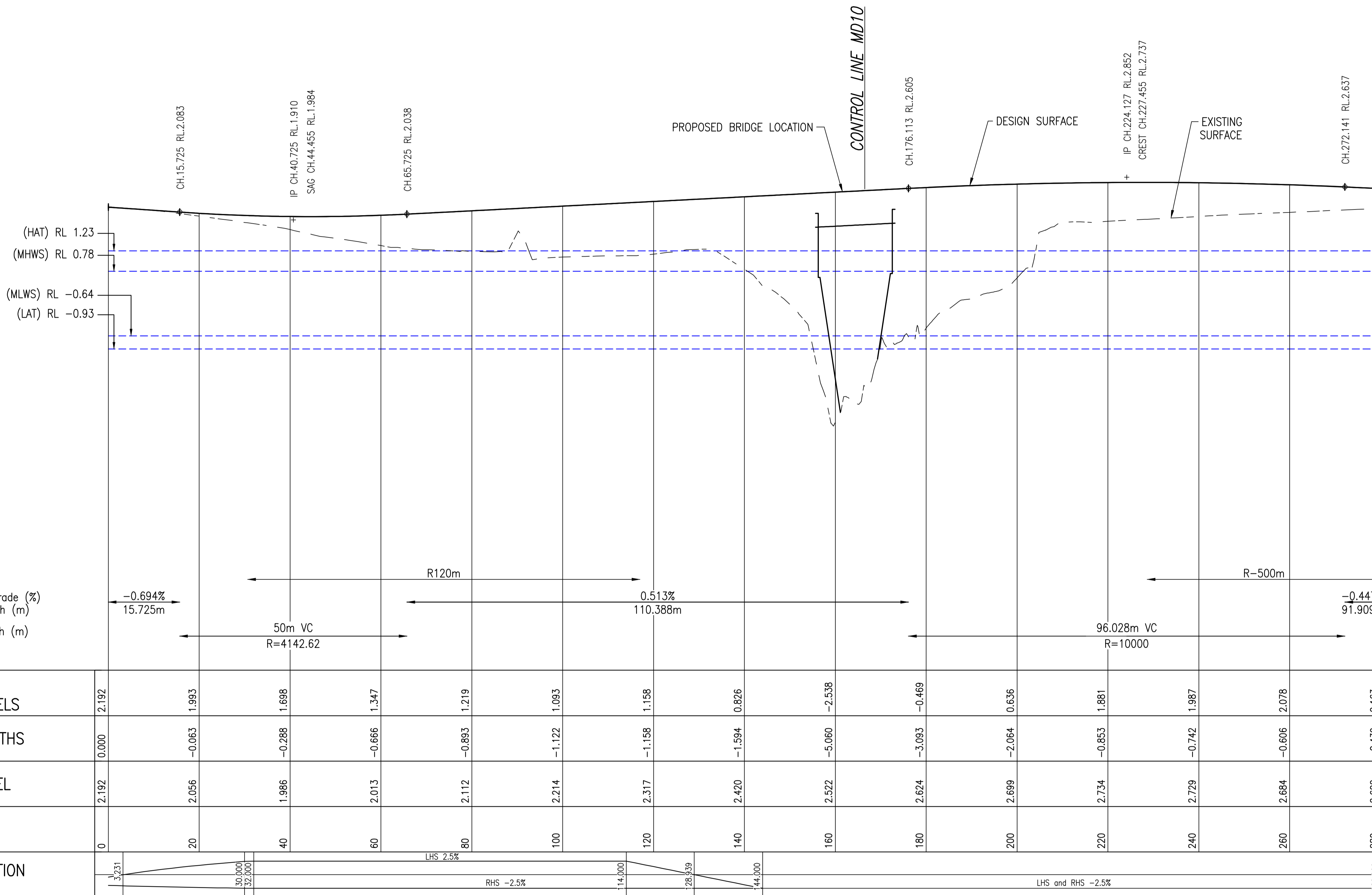
**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

**010**

Drawing Number \_\_\_\_\_ Rev. \_\_\_\_\_

Drawing 10 of 31 Original Plan Size **A1**



Horiz.Data  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Vertical Curve Length (m)  
Do not label depths  
R.L.-8.00

| Station | EX. NATURAL SURFACE LEVELS | CUT/FILL DEPTHS | FINISHED LEVEL | CHAINAGE | SUPER ELEVATION   |
|---------|----------------------------|-----------------|----------------|----------|-------------------|
| 0       | 2.192                      | 0.000           | 2.192          | 0        | 3.231             |
| 20      | 1.993                      | -0.063          | 2.056          | 20       | 32.000            |
| 40      | 1.698                      | -0.288          | 1.986          | 40       | LHS 2.5%          |
| 60      | 1.347                      | -0.666          | 2.013          | 60       | RHS -2.5%         |
| 80      | 1.219                      | -0.893          | 2.112          | 80       | LHS 2.5%          |
| 100     | 1.093                      | -1.122          | 2.214          | 100      | RHS -2.5%         |
| 120     | 1.158                      | -1.158          | 2.317          | 120      | LHS 2.5%          |
| 140     | 0.826                      | -1.594          | 2.420          | 140      | RHS -2.5%         |
| 160     | -2.538                     | -5.060          | 2.522          | 160      | LHS 2.5%          |
| 180     | -0.469                     | -3.083          | 2.624          | 180      | RHS -2.5%         |
| 200     | 0.636                      | -2.064          | 2.699          | 200      | LHS and RHS -2.5% |
| 220     | 1.881                      | -0.853          | 2.734          | 220      | LHS and RHS -2.5% |
| 240     | 1.987                      | -0.742          | 2.729          | 240      | LHS and RHS -2.5% |
| 260     | 2.078                      | -0.606          | 2.684          | 260      | LHS and RHS -2.5% |
| 280     | 2.163                      | -0.439          | 2.602          | 280      | LHS and RHS -2.5% |

SCALES: HORZ 1:500 VERT 1:50

LONGITUDINAL SECTION : CONTROL LINE MC10

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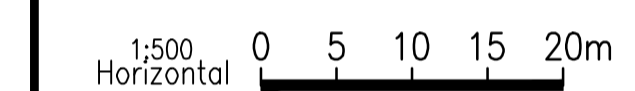
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MGA (GDA94) ZONE 56 AHD Derived

Horizontal \_\_\_\_\_ Vertical \_\_\_\_\_



Scales

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Original Issue \_\_\_\_\_ Date: XXXX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

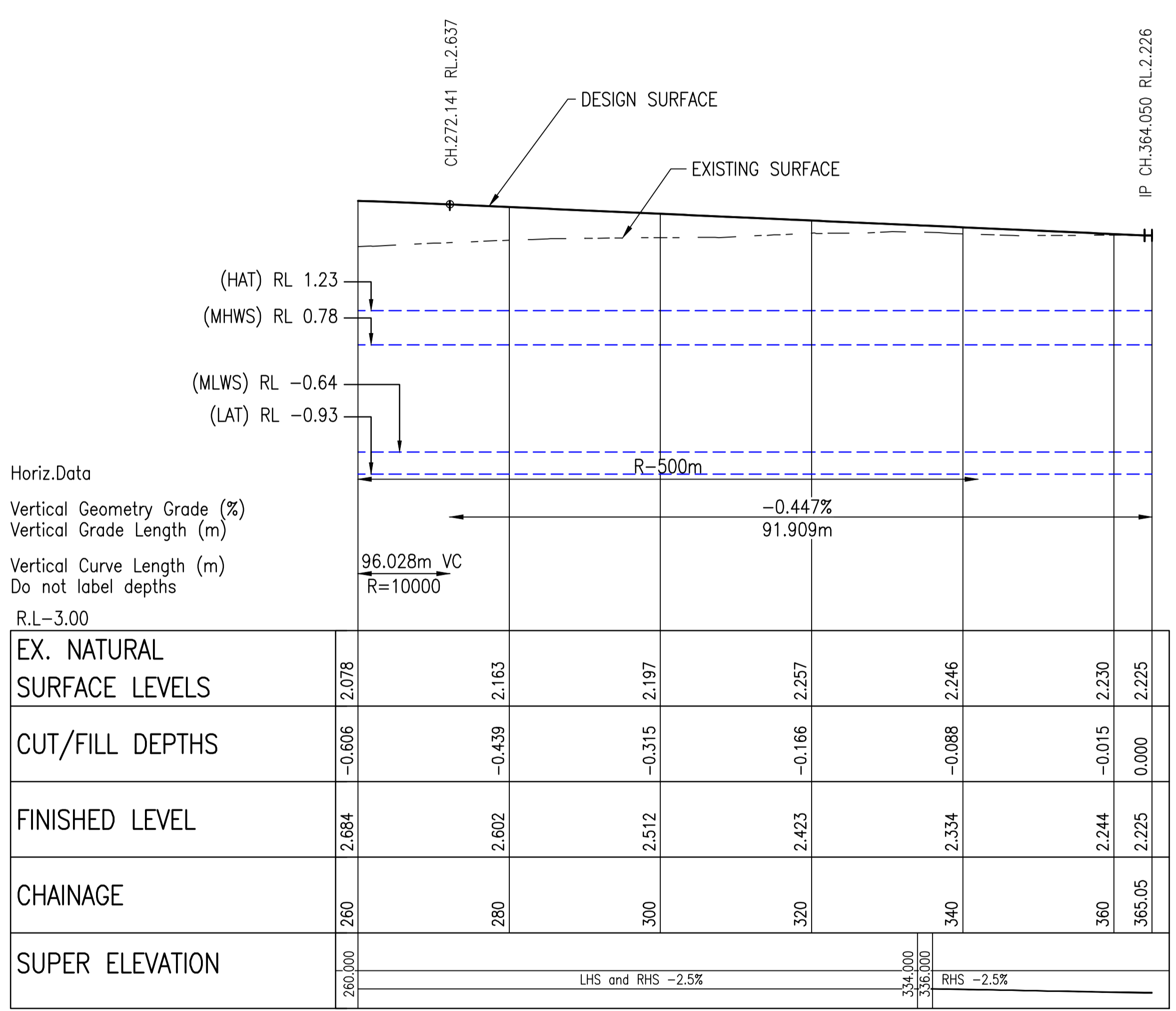
LONGITUDINAL SECTIONS  
MC10  
SHEET 2 OF 2

**DRAWING NUMBER**

**011** | **2**

Drawing Number \_\_\_\_\_ Rev. \_\_\_\_\_

Drawing 11 of 31 | Original Plan Size **A1**



SCALES: HORIZ 1:500 VERT 1:50  
**LONGITUDINAL SECTION : CONTROL LINE MC10**

|  |                         |                              |          |            |
|--|-------------------------|------------------------------|----------|------------|
| <p>Level 4, 262 Adelaide Street, Brisbane, QLD 4000<br/>GPO BOX 1240, Brisbane QLD 4001<br/>www.redfoxadvisory.com<br/>Drawing Number: 01016-RFA-CIAL-DRG-LS-002</p> |                         | <p>Authorised For Issue:</p> |          |            |
| 2  | 100% DETAILED DESIGN    | VP                           | MP       | 29/11/2022 |
| 1  | PROGRESS                | VP                           | MP       | 22/09/2022 |
| A  | Issued For Construction |                              |          |            |
|  | Revisions/Descriptions  | Drawn                        | Approved | Date       |



**ENGINEERING,  
CONSTRUCTION &  
MAINTENANCE**

**AUTHORISATION**

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

**PROJECT INFORMATION**

Project Number \_\_\_\_\_ MBRC BUDGET NUMBER \_\_\_\_\_

Coordinator MV MP Team Leader \_\_\_\_\_

Designer GB MS Checked \_\_\_\_\_

N.M (GMC) 15/03/2022

Surveyor \_\_\_\_\_ Survey Date / Ref. No. \_\_\_\_\_

Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal \_\_\_\_\_ Vertical \_\_\_\_\_

1:500 Horizontal 0 5 10 15 20m

1:50 Vertical 0 1.0 2.0m

Scales

**ISSUE**

Revisions \_\_\_\_\_

**100% DETAIL DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue \_\_\_\_\_ Date: XXXX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

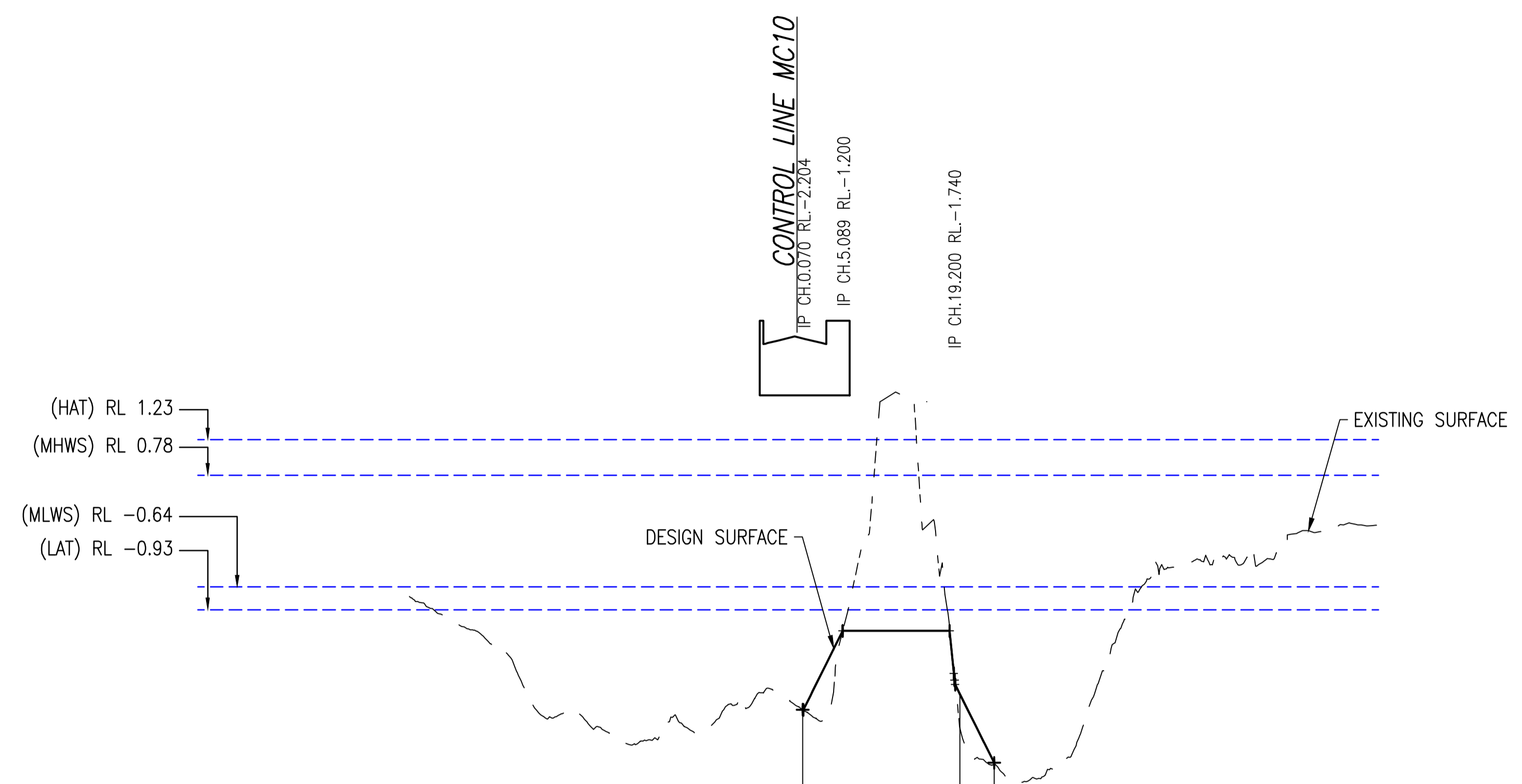
LONGITUDINAL SECTIONS  
MD10  
SHEET 1 OF 1

**DRAWING NUMBER**

**012** | 2

Drawing Number \_\_\_\_\_ Rev. \_\_\_\_\_

Drawing 12 of 31 | Original Plan Size **A1**



Horiz.Data  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Vertical Curve Length (m)  
Do not label depths  
R.L.=9.00

|                            |        |        |        |
|----------------------------|--------|--------|--------|
| EX. NATURAL SURFACE LEVELS | -2.199 | -2.436 | -2.896 |
| CUT/FILL DEPTHS            | 0.000  | -0.428 | -0.020 |
| FINISHED LEVEL             | -2.199 | -2.008 | -2.876 |
| CHAINAGE                   | 0      | 20     | 24.34  |
| SUPER ELEVATION            |        |        |        |

SCALES: HORZ 1:500 VERT 1:50  
**LONGITUDINAL SECTION : CONTROL LINE MD10**

Level 4, 262 Adelaide Street, Brisbane, QLD 4000  
GPO BOX 1240, Brisbane QLD 4001  
www.redfoxadvisory.com  
Drawing Number: 01016-RFA-CIAL-DRG-LS-003

Authorised For Issue:

|   |                         |       |          |            |
|---|-------------------------|-------|----------|------------|
| 2 | 100% DETAILED DESIGN    | VP    | MP       | 29/11/2022 |
| 1 | PROGRESS                | VP    | MP       | 22/09/2022 |
| A | Issued For Construction |       |          |            |
|   | Revisions/Descriptions  | Drawn | Approved | Date       |

**ENGINEERING,  
CONSTRUCTION &  
MAINTENANCE**

**AUTHORISATION**

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

**PROJECT INFORMATION**

Project Number MBRC BUDGET NUMBER

Coordinator MV MP Team Leader

Designer GB MS Checked

N.M (GMC) 15/03/2022

Surveyor \_\_\_\_\_ Survey Date / Ref. No.

Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal Vertical

A1 / A3 0 5 10 15 20m  
1:500 / 1:1000

A1 / A3 0 2 4 6 8m  
1:200 / 1:400

Scales

**ISSUE**

Revisions

**100% DETAIL DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue \_\_\_\_\_ Date: XX/XX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

**SITE CLEARANCE PLANS  
SHEET 1 OF 2**




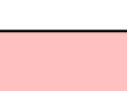


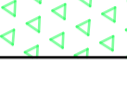

**DRAWING NUMBER**

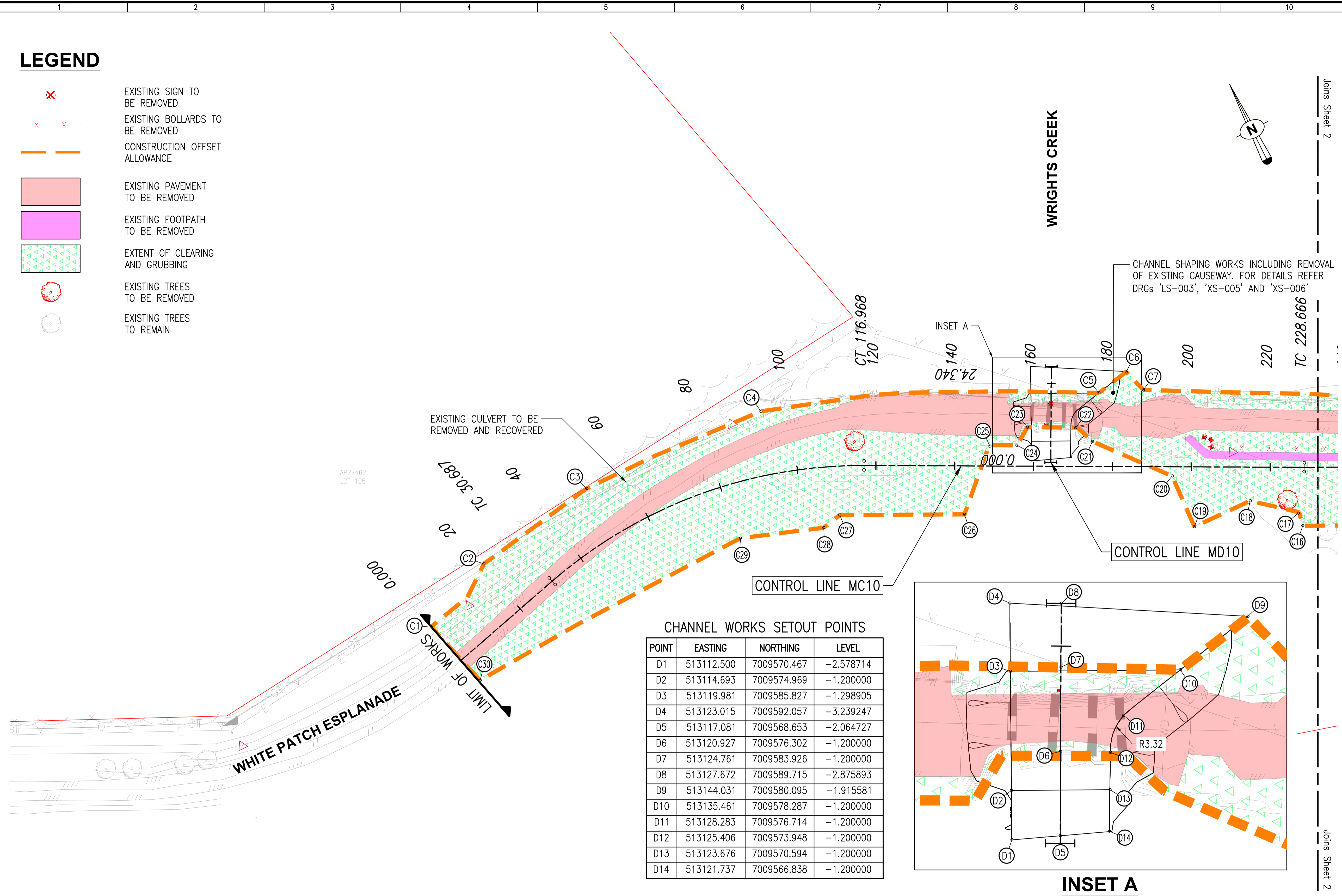
**013** | 2

Drawing Number \_\_\_\_\_ Rev. \_\_\_\_\_

Drawing 13 of 31 | Original Plan Size **A1**

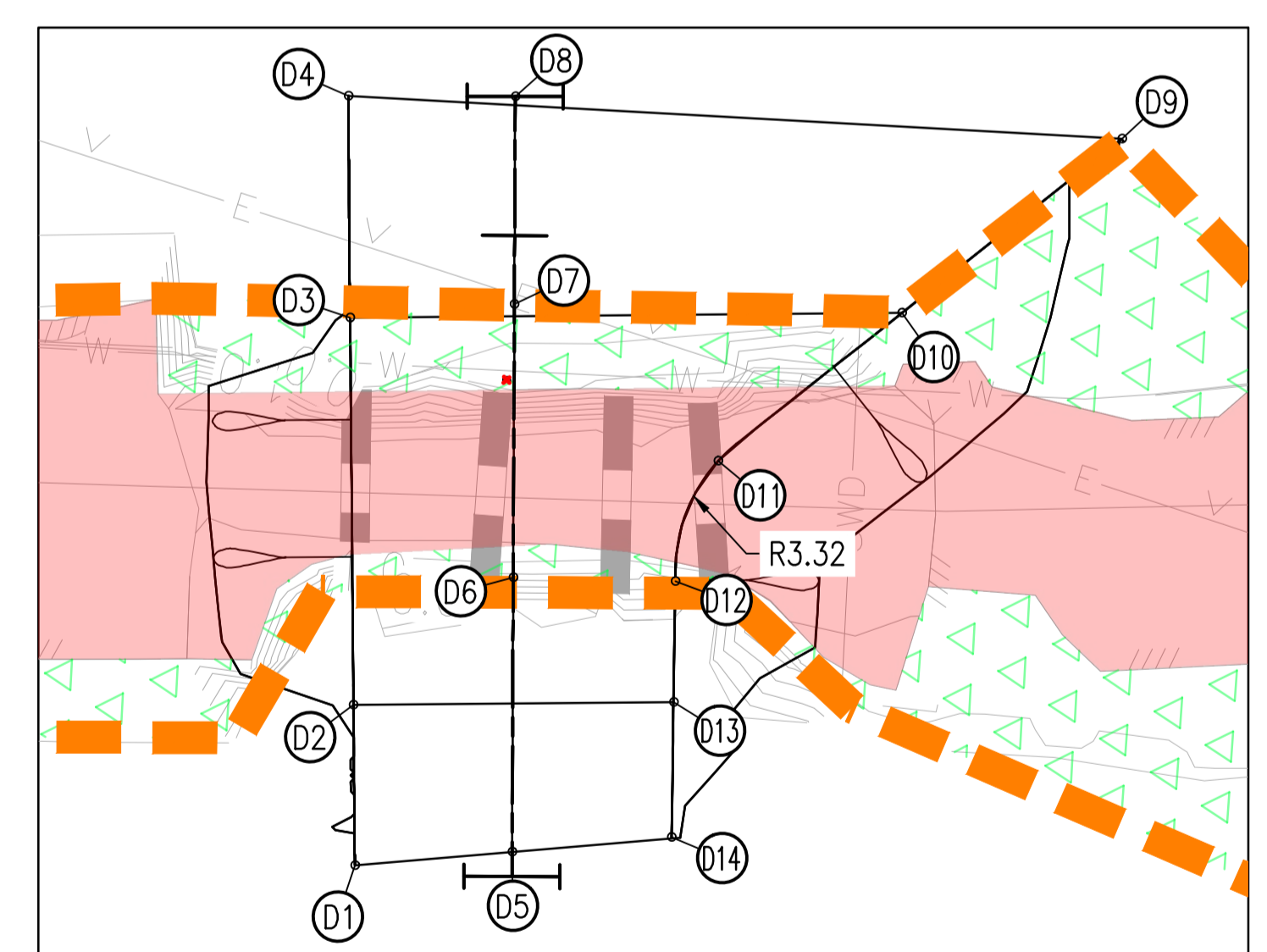
**LEGEND**

-  EXISTING SIGN TO BE REMOVED
-  EXISTING BOLLARDS TO BE REMOVED
-  CONSTRUCTION OFFSET ALLOWANCE
-  EXISTING PAVEMENT TO BE REMOVED
-  EXISTING FOOTPATH TO BE REMOVED
-  EXTENT OF CLEARING AND GRUBBING
-  EXISTING TREES TO BE REMOVED
-  EXISTING TREES TO REMAIN

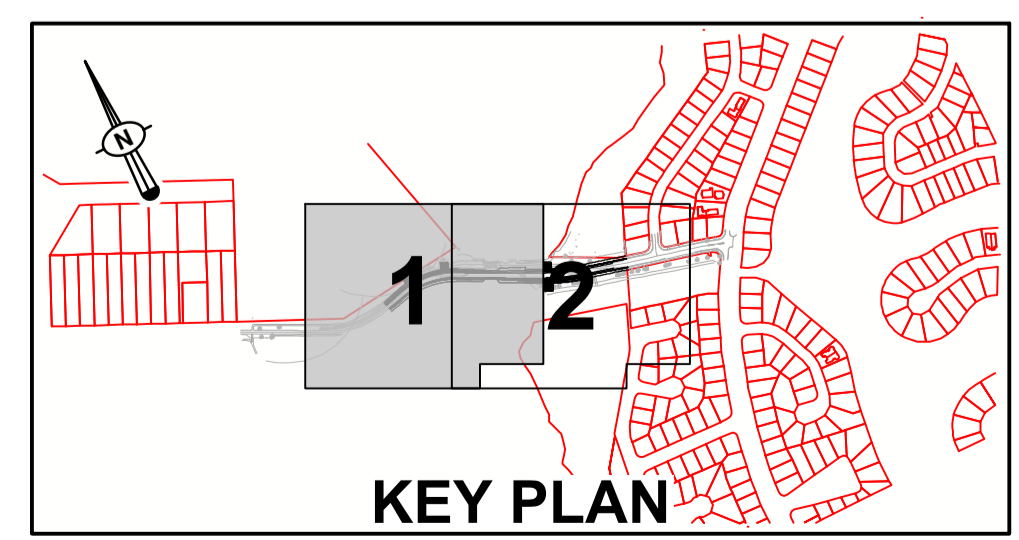


**CHANNEL WORKS SETOUT POINTS**

| POINT | EASTING    | NORTHING    | LEVEL     |
|-------|------------|-------------|-----------|
| D1    | 513112.500 | 7009570.467 | -2.578714 |
| D2    | 513114.693 | 7009574.969 | -1.200000 |
| D3    | 513119.981 | 7009585.827 | -1.298905 |
| D4    | 513123.015 | 7009592.057 | -3.239247 |
| D5    | 513117.081 | 7009568.653 | -2.064727 |
| D6    | 513120.927 | 7009576.302 | -1.200000 |
| D7    | 513124.761 | 7009583.926 | -1.200000 |
| D8    | 513127.672 | 7009589.715 | -2.875893 |
| D9    | 513144.031 | 7009580.095 | -1.915581 |
| D10   | 513135.461 | 7009578.287 | -1.200000 |
| D11   | 513128.283 | 7009576.714 | -1.200000 |
| D12   | 513125.406 | 7009573.948 | -1.200000 |
| D13   | 513123.676 | 7009570.594 | -1.200000 |
| D14   | 513121.737 | 7009566.838 | -1.200000 |



**INSET A**  
SCALE 1:200



**KEY PLAN**

|   |                         |                       |               |
|---|-------------------------|-----------------------|---------------|
| Level 4, 262 Adelaide Street, Brisbane, QLD 4000<br>GPO BOX 1240, Brisbane QLD 4001<br>www.redfoxadvisory.com |                         | Authorised For Issue: |               |
| Drawing Number:<br><b>redfox 01016-RFA-CIAL-DRG-EF-001</b>  |                         |                       |               |
| 2   | 100% DETAILED DESIGN    | VP                    | MP 29/11/2022 |
| 1   | PROGRESS                | VP                    | MP 22/09/2022 |
| A   | Issued For Construction |                       |               |
|   | Revisions/Descriptions  | Drawn                 | Approved Date |

**NOTE:**  
1. FOR SITE CLEARANCE SETOUT POINTS REFER TO DRG 'EF-002'.

**ENGINEERING,  
CONSTRUCTION &  
MAINTENANCE**

**AUTHORISATION**

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

**PROJECT INFORMATION**

Project Number MBRC BUDGET NUMBER

Coordinator MV MP Team Leader

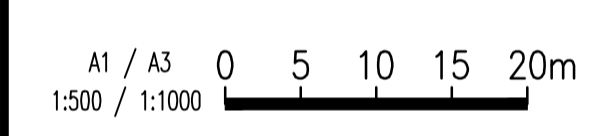
Designer GB MS Checked

N.M (GMC) 15/03/2022  
Surveyor Survey Date / Ref. No.

Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal Vertical



**ISSUE**

Revisions

**100% DETAIL DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue Date: XX/XX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

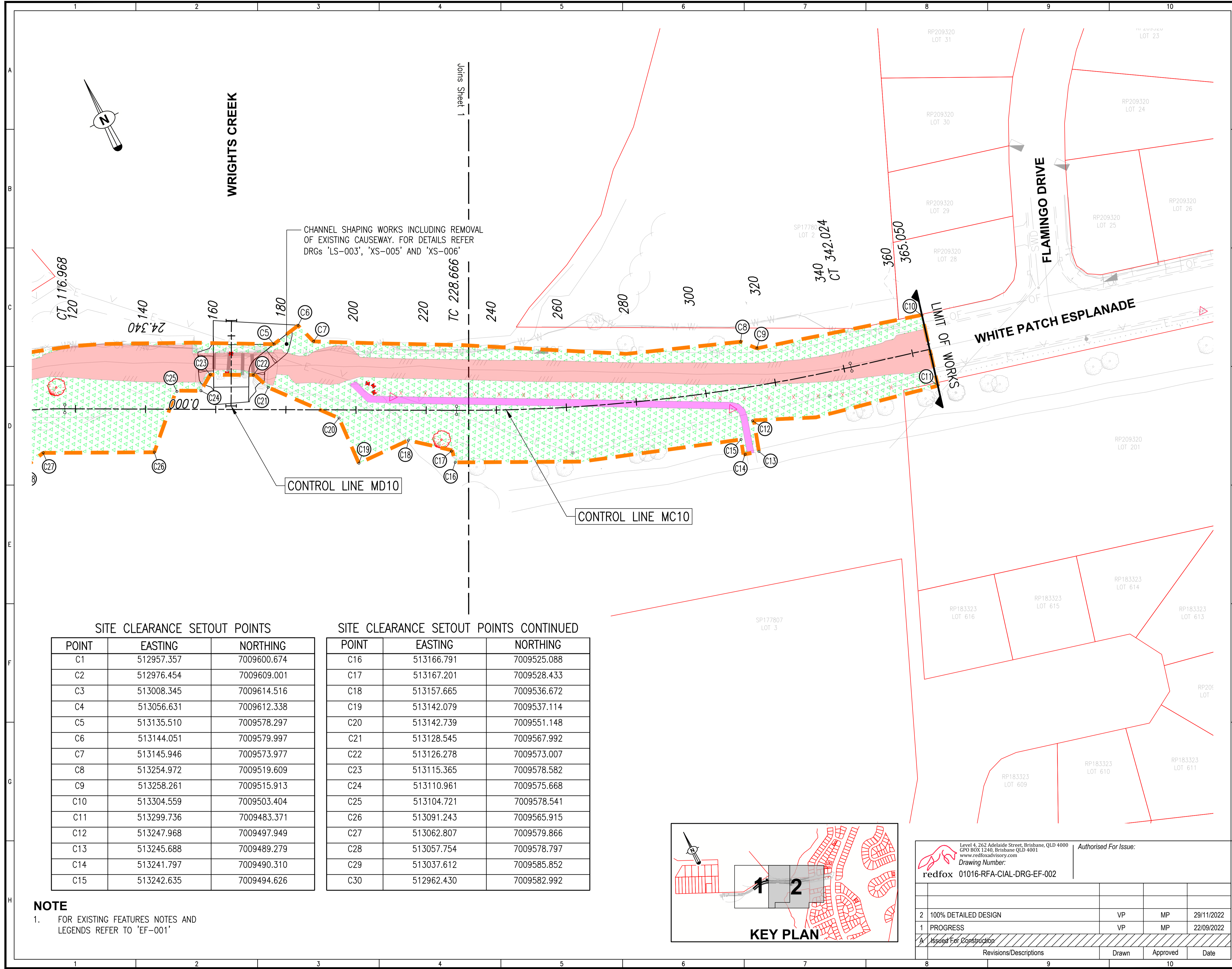
**CAUSEWAY UPGRADE**

**SITE CLEARANCE PLANS  
SHEET 2 OF 2**

**DRAWING NUMBER**

**014** | 2  
Drawing Number Rev.

Drawing 14 of 31 Original Plan Size A1



CHANNEL SHAPING WORKS INCLUDING REMOVAL OF EXISTING CAUSEWAY. FOR DETAILS REFER DRGs 'LS-003', 'XS-005' AND 'XS-006'

CONTROL LINE MD10

CONTROL LINE MC10

LIMIT OF WORKS

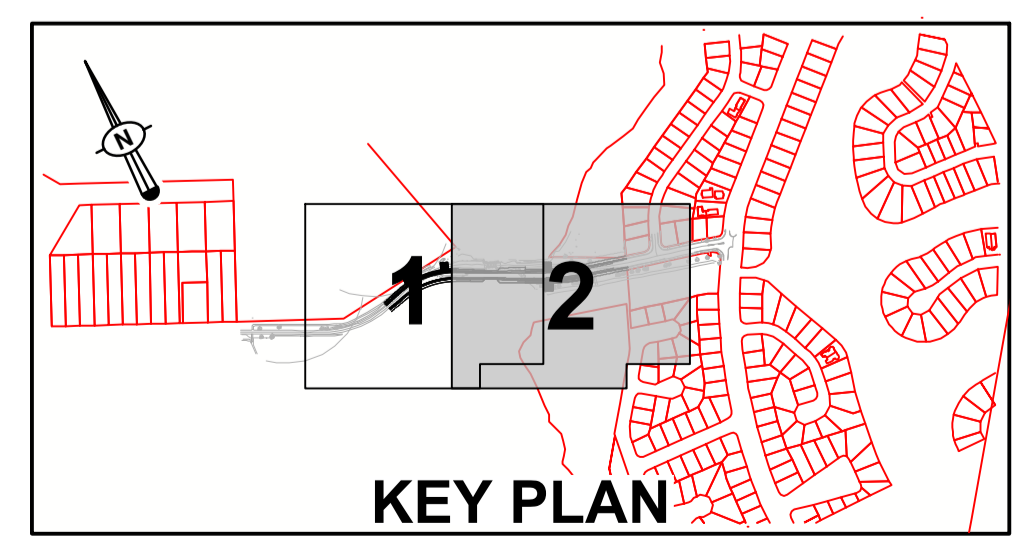
**SITE CLEARANCE SETOUT POINTS**

| POINT | EASTING    | NORTHING    |
|-------|------------|-------------|
| C1    | 512957.357 | 7009600.674 |
| C2    | 512976.454 | 7009609.001 |
| C3    | 513008.345 | 7009614.516 |
| C4    | 513056.631 | 7009612.338 |
| C5    | 513135.510 | 7009578.297 |
| C6    | 513144.051 | 7009579.997 |
| C7    | 513145.946 | 7009573.977 |
| C8    | 513254.972 | 7009519.609 |
| C9    | 513258.261 | 7009515.913 |
| C10   | 513304.559 | 7009503.404 |
| C11   | 513299.736 | 7009483.371 |
| C12   | 513247.968 | 7009497.949 |
| C13   | 513245.688 | 7009489.279 |
| C14   | 513241.797 | 7009490.310 |
| C15   | 513242.635 | 7009494.626 |

**SITE CLEARANCE SETOUT POINTS CONTINUED**

| POINT | EASTING    | NORTHING    |
|-------|------------|-------------|
| C16   | 513166.791 | 7009525.088 |
| C17   | 513167.201 | 7009528.433 |
| C18   | 513157.665 | 7009536.672 |
| C19   | 513142.079 | 7009537.114 |
| C20   | 513142.739 | 7009551.148 |
| C21   | 513128.545 | 7009567.992 |
| C22   | 513126.278 | 7009573.007 |
| C23   | 513115.365 | 7009578.582 |
| C24   | 513110.961 | 7009575.668 |
| C25   | 513104.721 | 7009578.541 |
| C26   | 513091.243 | 7009565.915 |
| C27   | 513062.807 | 7009579.866 |
| C28   | 513057.754 | 7009578.797 |
| C29   | 513037.612 | 7009585.852 |
| C30   | 512962.430 | 7009582.992 |

**NOTE**  
1. FOR EXISTING FEATURES NOTES AND LEGENDS REFER TO 'EF-001'



|   |                         |                       |               |
|---|-------------------------|-----------------------|---------------|
| Level 4, 262 Adelaide Street, Brisbane, QLD 4000<br>GPO BOX 1240, Brisbane QLD 4001<br>www.redfoxadvisory.com |                         | Authorised For Issue: |               |
| Drawing Number:<br><b>redfox 01016-RFA-CIAL-DRG-EF-002</b>  |                         |                       |               |
| 2   | 100% DETAILED DESIGN    | VP                    | MP 29/11/2022 |
| 1   | PROGRESS                | VP                    | MP 22/09/2022 |
| A   | Issued For Construction |                       |               |
| Revisions/Descriptions  |                         | Drawn                 | Approved      |
|   |                         |                       | Date          |

**ENGINEERING,  
CONSTRUCTION &  
MAINTENANCE**

**AUTHORISATION**

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

**PROJECT INFORMATION**

Project Number MBRC BUDGET NUMBER

Coordinator MV MP Team Leader

Designer GB MS Checked

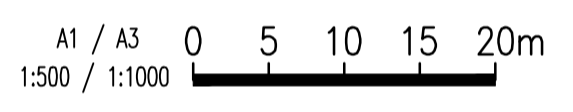
N.M (GMC) 15/03/2022

Surveyor \_\_\_\_\_ Survey Date / Ref. No.

Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal \_\_\_\_\_ Vertical \_\_\_\_\_



**ISSUE**

Revisions

**100% DETAIL DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue \_\_\_\_\_ Date: XXXX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

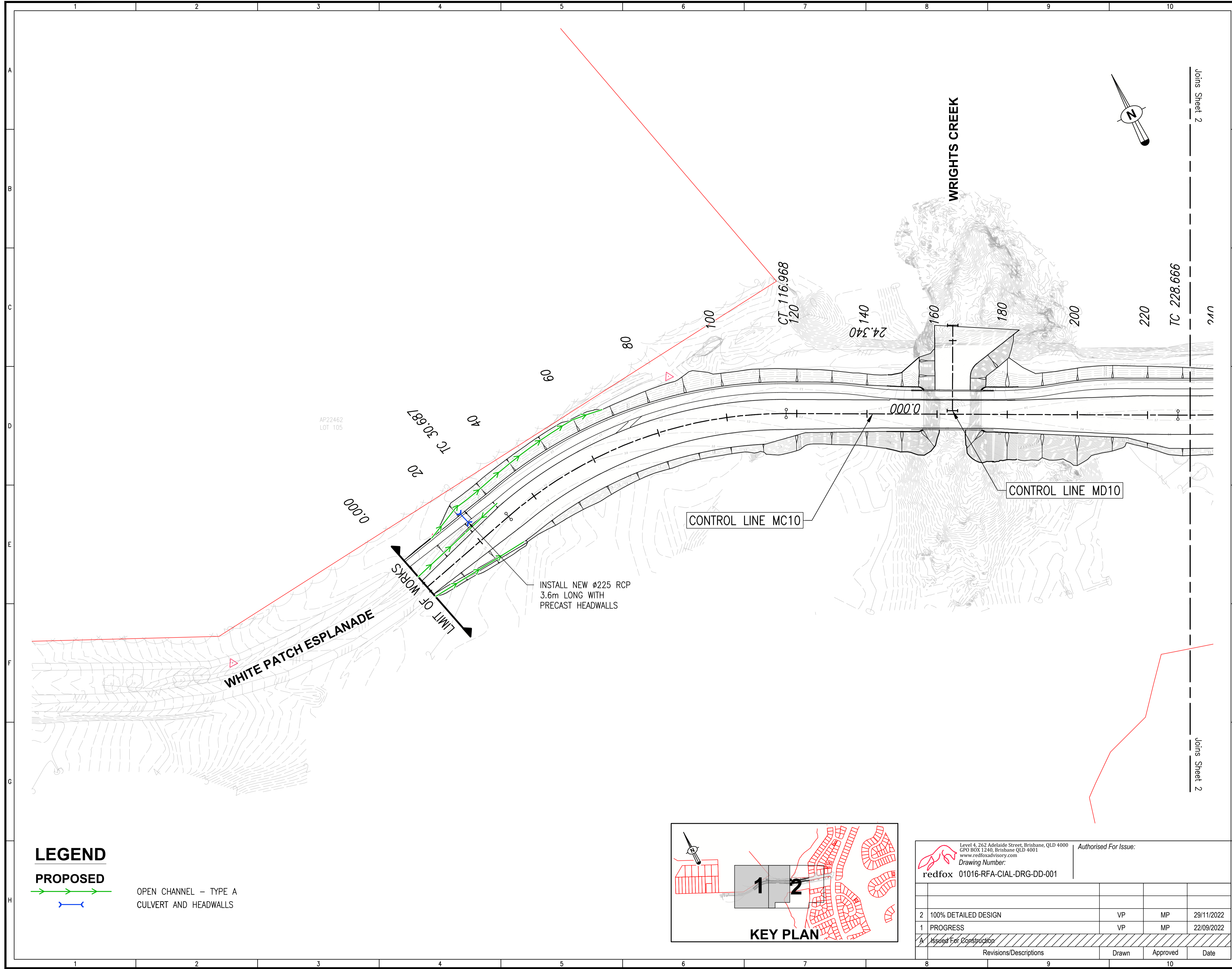
**DRAINAGE LAYOUT  
PLANS  
SHEET 1 OF 2**

**DRAWING NUMBER**

**015** | 2

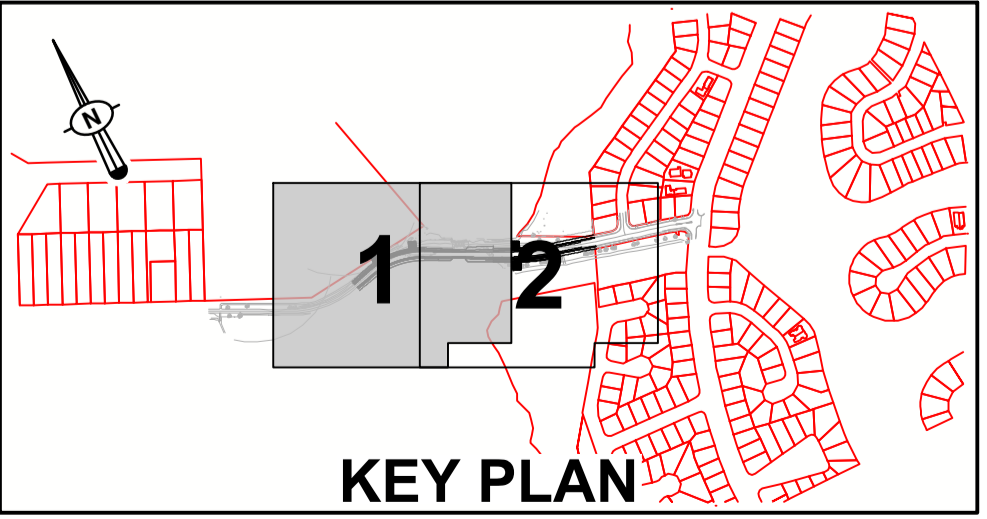
Drawing Number \_\_\_\_\_ Rev. \_\_\_\_\_

Drawing 15 of 31 | Original Plan Size **A1**



**LEGEND**

**PROPOSED**  
 OPEN CHANNEL - TYPE A  
 CULVERT AND HEADWALLS



|   |                         |                       |               |
|---|-------------------------|-----------------------|---------------|
| Level 4, 262 Adelaide Street, Brisbane, QLD 4000<br>GPO BOX 1240, Brisbane QLD 4001<br>www.redfoxadvisory.com |                         | Authorised For Issue: |               |
| Drawing Number:<br><b>redfox 01016-RFA-CIAL-DRG-DD-001</b>  |                         |                       |               |
| 2   | 100% DETAILED DESIGN    | VP                    | MP 29/11/2022 |
| 1   | PROGRESS                | VP                    | MP 22/09/2022 |
| A   | Issued For Construction |                       |               |
|   | Revisions/Descriptions  | Drawn                 | Approved Date |

**ENGINEERING,  
CONSTRUCTION &  
MAINTENANCE**

**AUTHORISATION**

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

**PROJECT INFORMATION**

Project Number MBRC BUDGET NUMBER

Coordinator MV MP Team Leader

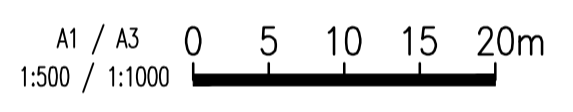
Designer GB MS Checked

N.M (GMC) 15/03/2022  
Surveyor Survey Date / Ref. No.

Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal Vertical



**ISSUE**

Revisions

**100% DETAIL DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue Date: XX/XX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

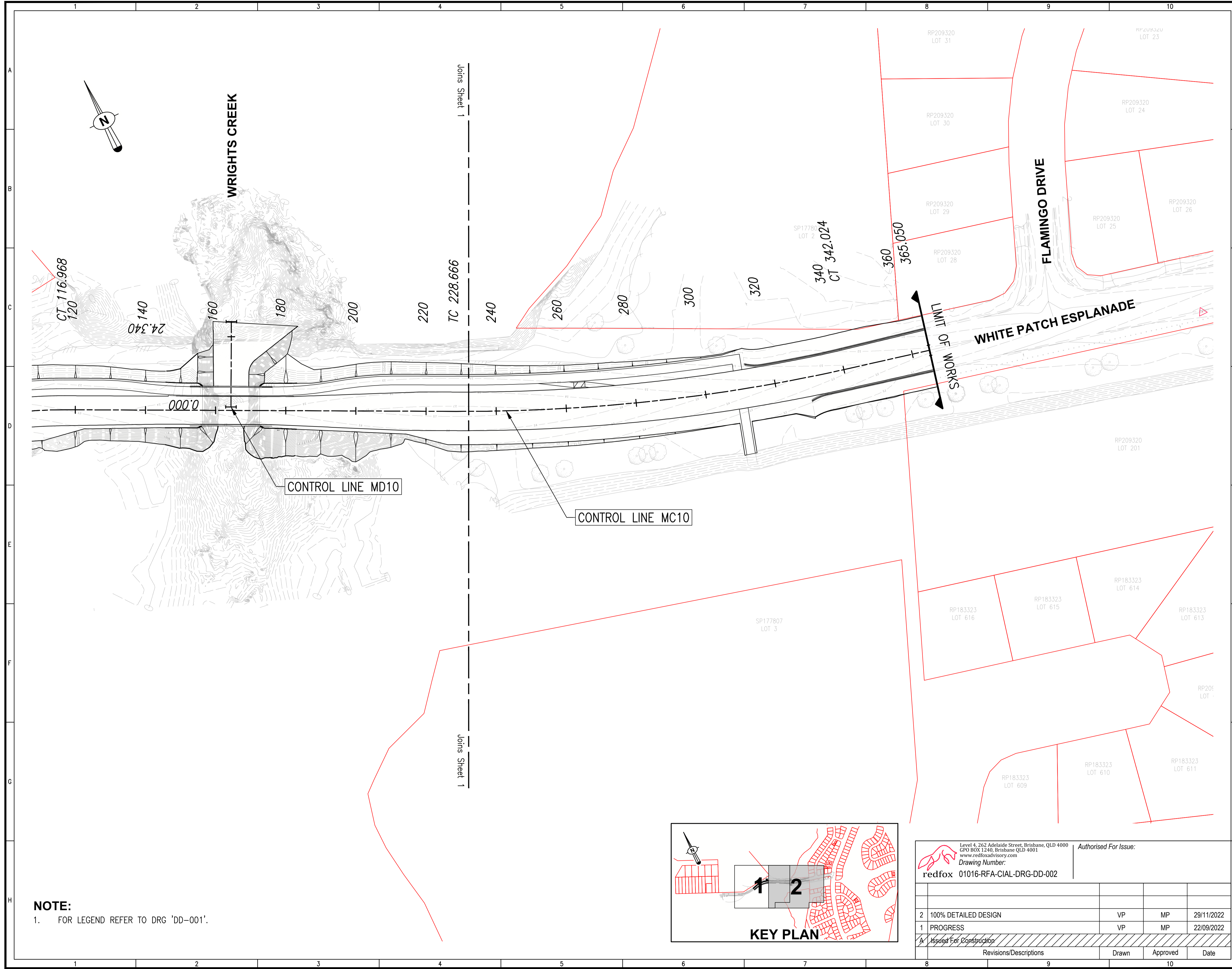
**DRAINAGE LAYOUT  
PLANS  
SHEET 2 OF 2**

**DRAWING NUMBER**

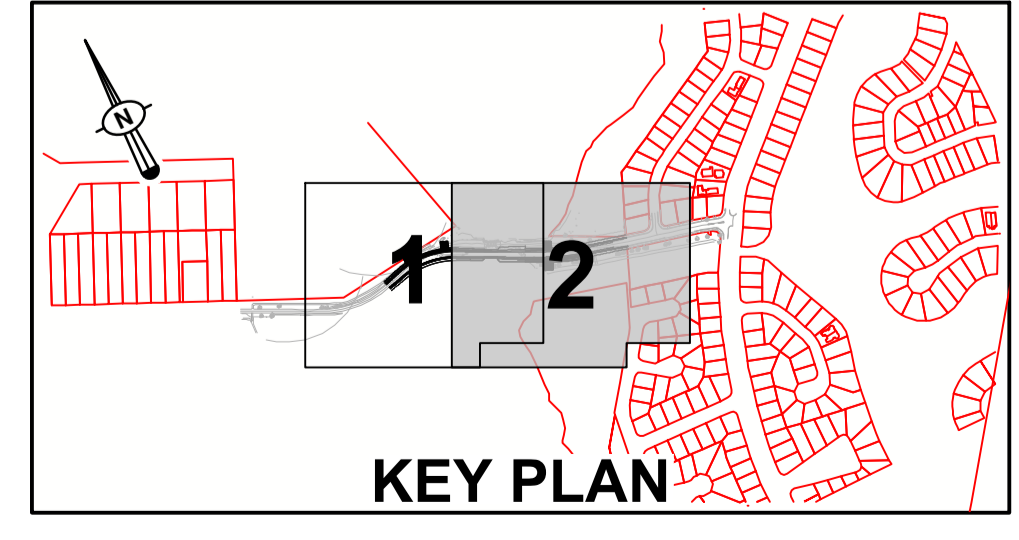
**016** | 2

Drawing Number Rev.

Drawing 16 of 31 Original Plan Size A1



**NOTE:**  
1. FOR LEGEND REFER TO DRG 'DD-001'.



Level 4, 262 Adelaide Street, Brisbane, QLD 4000  
GPO BOX 1240, Brisbane QLD 4001  
www.redfoxadvisory.com  
Drawing Number:  
**redfox 01016-RFA-CIAL-DRG-DD-002**

| Revisions/Descriptions    | Drawn | Approved | Date       |
|---------------------------|-------|----------|------------|
| 2 100% DETAILED DESIGN    | VP    | MP       | 29/11/2022 |
| 1 PROGRESS                | VP    | MP       | 22/09/2022 |
| A Issued For Construction |       |          |            |

**ENGINEERING,  
CONSTRUCTION &  
MAINTENANCE**

**AUTHORISATION**

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

**PROJECT INFORMATION**

Project Number \_\_\_\_\_ MBRC BUDGET NUMBER \_\_\_\_\_

Coordinator MP Team Leader \_\_\_\_\_

Designer GB MP Checked \_\_\_\_\_

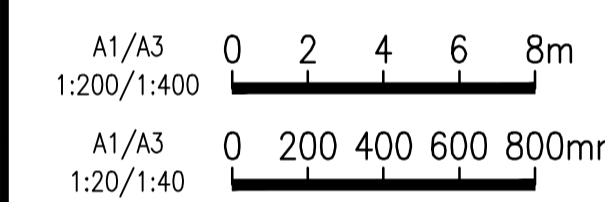
N.M (GMC) 15/03/2022

Surveyor \_\_\_\_\_ Survey Date / Ref. No. \_\_\_\_\_

Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal \_\_\_\_\_ Vertical \_\_\_\_\_



Scales

**ISSUE**

Revisions \_\_\_\_\_

**PRELIMINARY DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue \_\_\_\_\_ Date: 09/09/22

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

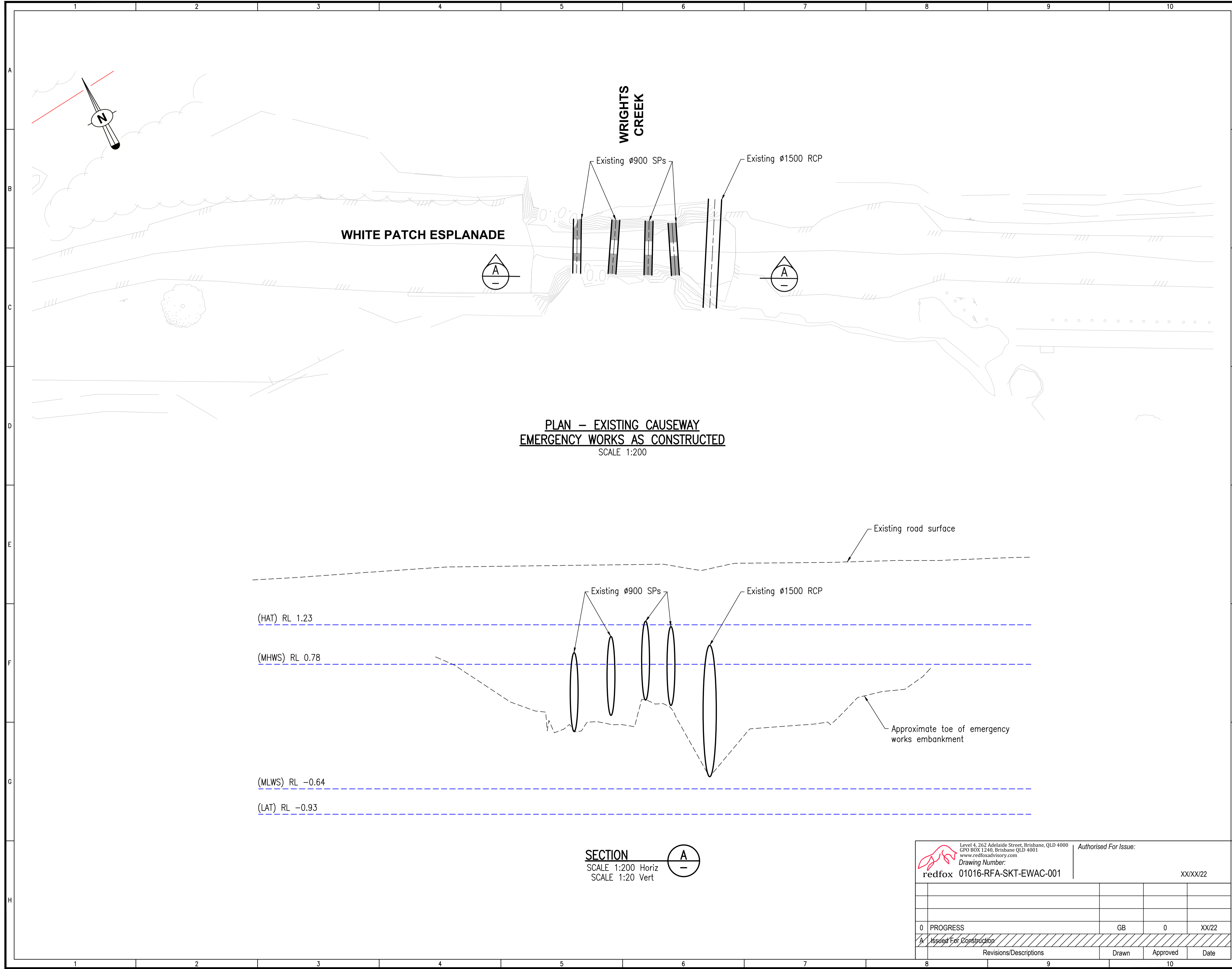
EXISTING CAUSEWAY  
PLAN AND SECTION

**DRAWING NUMBER**

**EWAC01** 0

Drawing Number \_\_\_\_\_ Rev. \_\_\_\_\_

Drawing 1 of 1 Original Plan Size **A1**



|   |                         |  |          |       |
|---|-------------------------|--|----------|-------|
| Level 4, 262 Adelaide Street, Brisbane, QLD 4000<br>GPO BOX 1240, Brisbane QLD 4001<br>www.redfoxadvisory.com<br>Drawing Number: 01016-RFA-SKT-EWAC-001<br>redfox |                         | Authorised For Issue:<br>_____<br>XX/XX/22 |          |       |
| 0   | PROGRESS                | GB   | 0        | XX/22 |
| A   | Issued For Construction |  |          |       |
|   | Revisions/Descriptions  | Drawn                                      | Approved | Date  |

Date: Sep 29, 2022 - 4:16pm  
File name: C:\Users\g.blundstone\AppData\Local\Bentley\ProjectWise\pwservname\_data\source\name\pws19805\01016-RFA-SKT-EW-001.dwg

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

Project Number MBRC BUDGET NUMBER

Coordinator MP Team Leader \_\_\_\_\_

Designer GB MP Checked \_\_\_\_\_

N.M (GMC) 15/03/2022

Surveyor Survey Date / Ref. No.

Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal Vertical

Horizontal 1:50 0 5 10 15 20m

Vertical 1:50 0 1.0 2.0m

Scales

Revisions

**100% DETAIL DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue Date: 09/09/22

**WHITE PATCH  
ESPLANADE**

CAUSEWAY UPGRADE

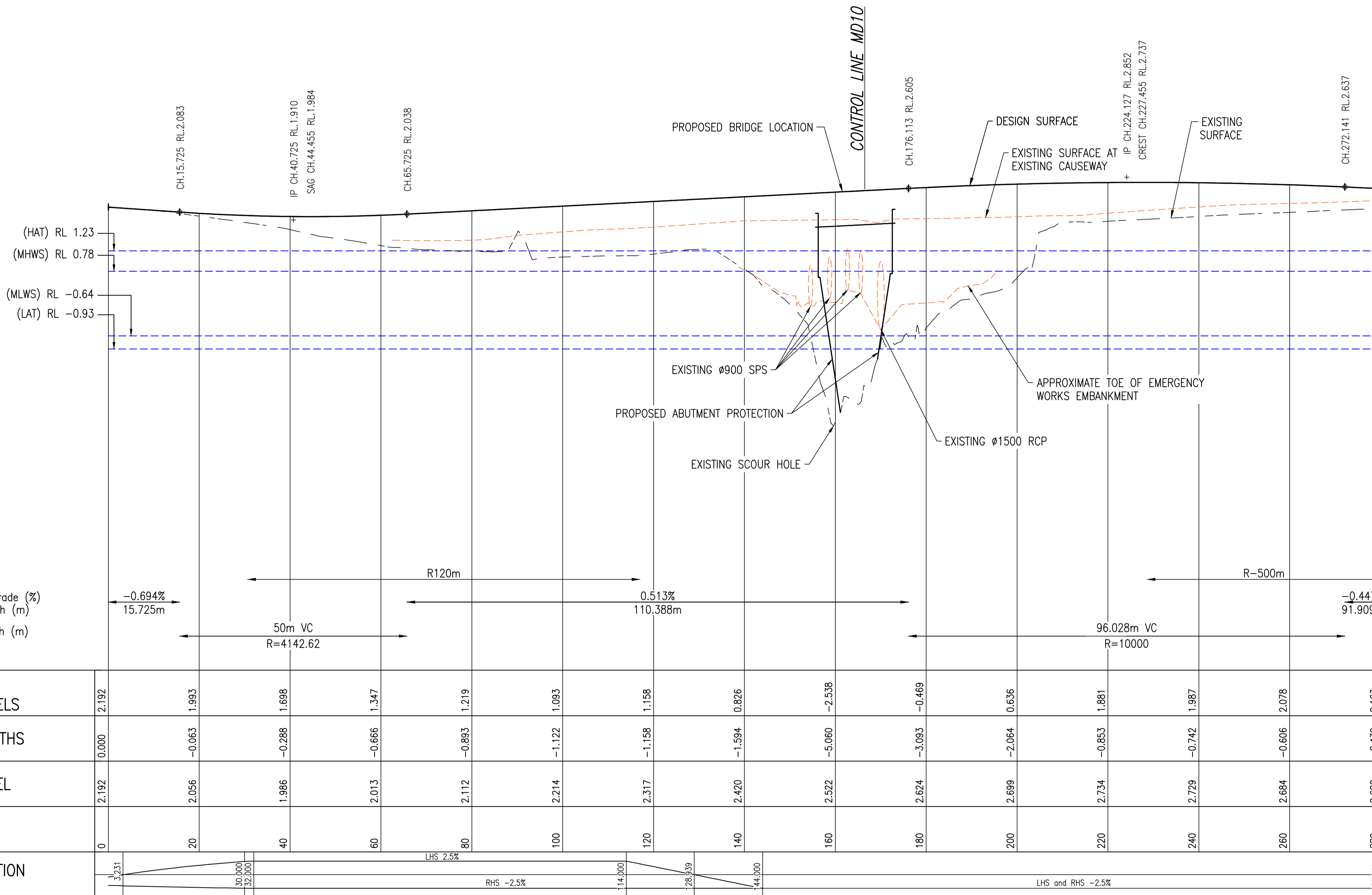
**PROPOSED CAUSEWAY  
LONG SECTION**

**EWAC02**

0

Drawing Number Rev.

Drawing 1 of 1 Original Plan Size A1



Horiz.Data  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Vertical Curve Length (m)  
Do not label depths  
R.L.-8.00

| Station | EX. NATURAL SURFACE LEVELS | CUT/FILL DEPTHS | FINISHED LEVEL | CHAINAGE | SUPER ELEVATION   |
|---------|----------------------------|-----------------|----------------|----------|-------------------|
| 0       | 2.192                      | 0.000           | 2.192          | 0        | 3.231             |
| 20      | 1.993                      | -0.063          | 2.056          | 20       | 30.000            |
| 40      | 1.698                      | -0.288          | 1.986          | 40       | 32.000            |
| 60      | 1.347                      | -0.666          | 2.013          | 60       | LHS 2.5%          |
| 80      | 1.219                      | -0.893          | 2.112          | 80       | RHS -2.5%         |
| 100     | 1.093                      | -1.122          | 2.214          | 100      | 114.000           |
| 120     | 1.158                      | -1.158          | 2.317          | 120      | 26.939            |
| 140     | 0.826                      | -1.594          | 2.420          | 140      | 144.000           |
| 160     | -2.538                     | -5.060          | 2.522          | 160      | LHS and RHS -2.5% |
| 180     | -0.469                     | -3.093          | 2.624          | 180      |                   |
| 200     | 0.636                      | -2.064          | 2.699          | 200      |                   |
| 220     | 1.881                      | -0.853          | 2.734          | 220      |                   |
| 240     | 1.987                      | -0.742          | 2.729          | 240      |                   |
| 260     | 2.078                      | -0.606          | 2.684          | 260      |                   |
| 280     | 2.163                      | -0.439          | 2.602          | 280      | 280.000           |

SCALES: HORZ 1:500 VERT 1:50

**LONGITUDINAL SECTION : CONTROL LINE MC10**

|   |                         |                                   |          |
|---|-------------------------|-----------------------------------|----------|
| Level 4, 262 Adelaide Street, Brisbane, QLD 4000<br>GPO BOX 1240, Brisbane QLD 4001<br>www.redfoxadvisory.com<br>Drawing Number: 01016-RFA-SKT-EWAC-001 |                         | Authorised For Issue:<br>XX/XX/22 |          |
| 0   | PROGRESS                | GB                                | 0        |
| A   | Issued For Construction |                                   | XX/22    |
|   | Revisions/Descriptions  | Drawn                             | Approved |
|   |                         |                                   | Date     |

Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

**PROJECT INFORMATION**

Project Number MBRC BUDGET NUMBER

Coordinator MP MP Team Leader

Designer LCC MS Checked

N.M (GMC) 15/03/2022 Survey Date / Ref. No.

Surveyor \_\_\_\_\_ Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal Vertical

0 1 2 3 4m

Scales

**ISSUE**

Revisions

**100% DETAIL DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue \_\_\_\_\_ Date: XXXX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

**BRIDGE AND ROAD  
CONSTRUCTION**

**GENERAL ARRANGEMENT  
PLAN AND ELEVATION**

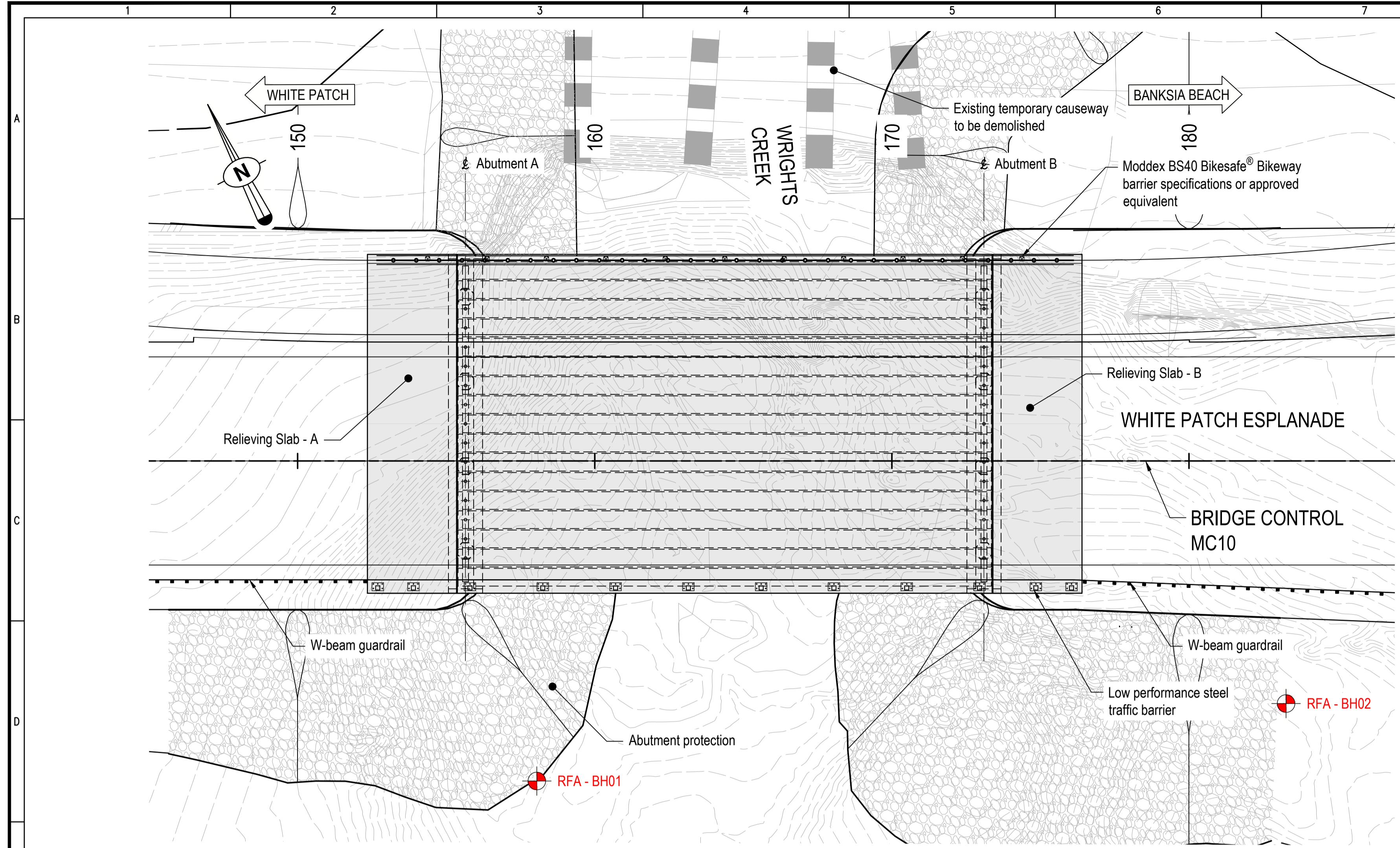
**DRAWING NUMBER**

2

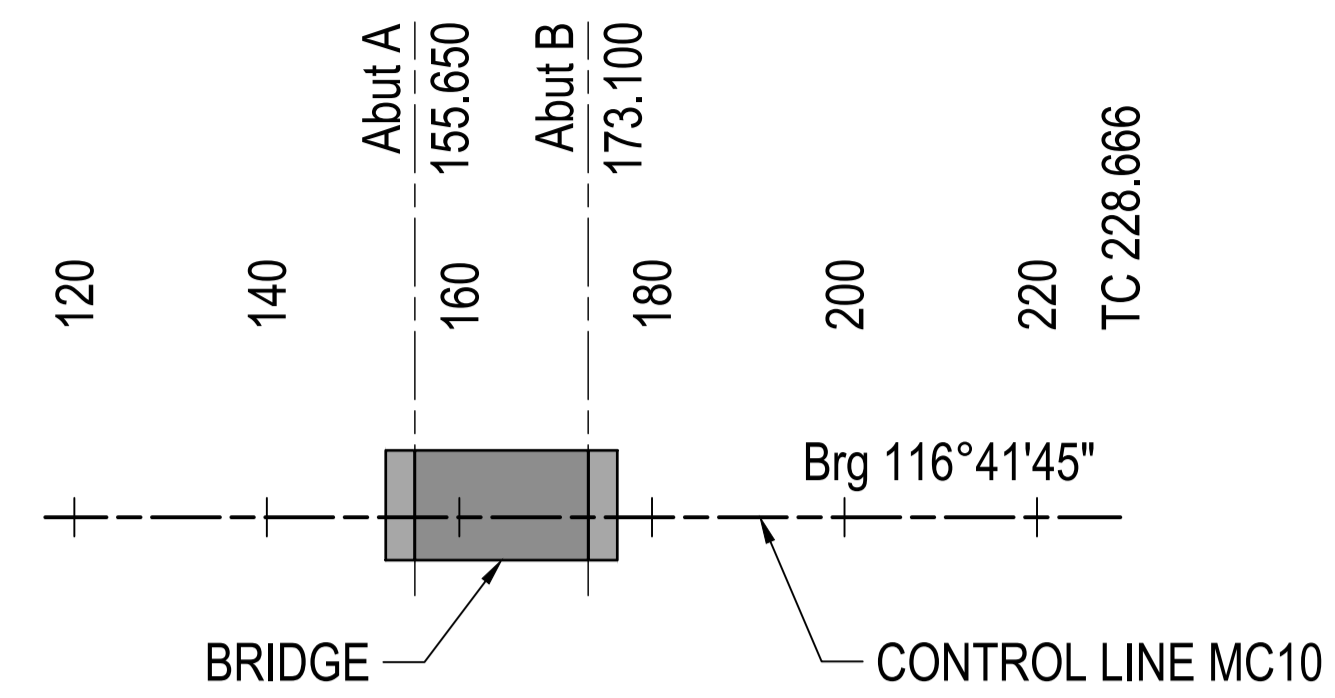
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Drawing 4 of 31 Original Plan Size **A1**

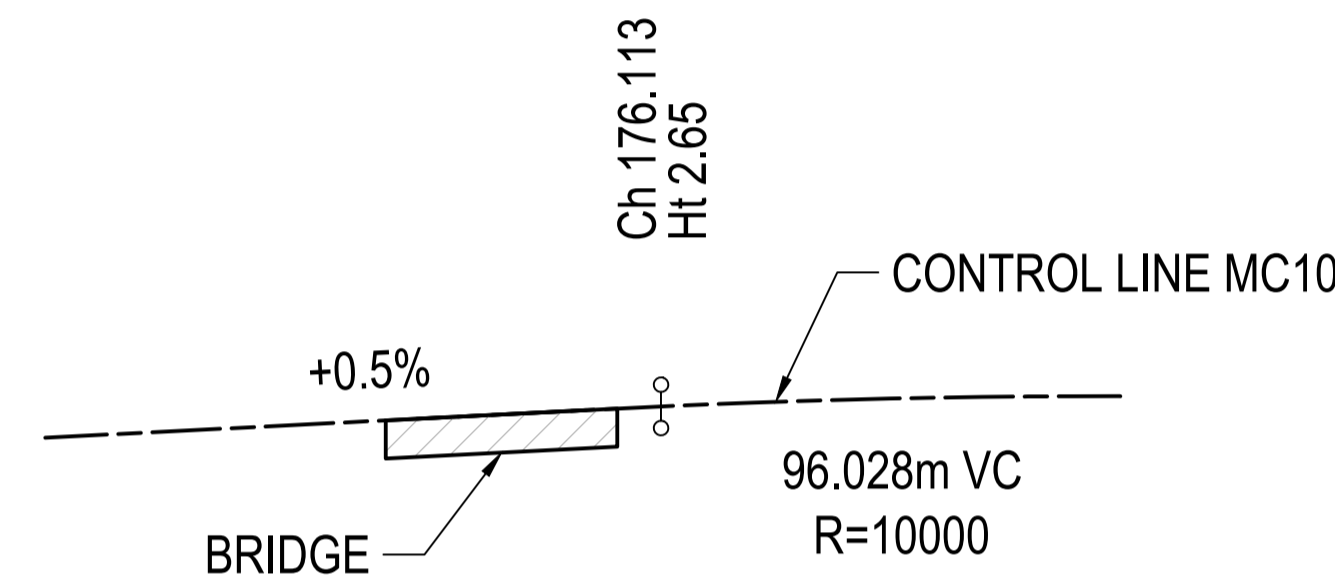
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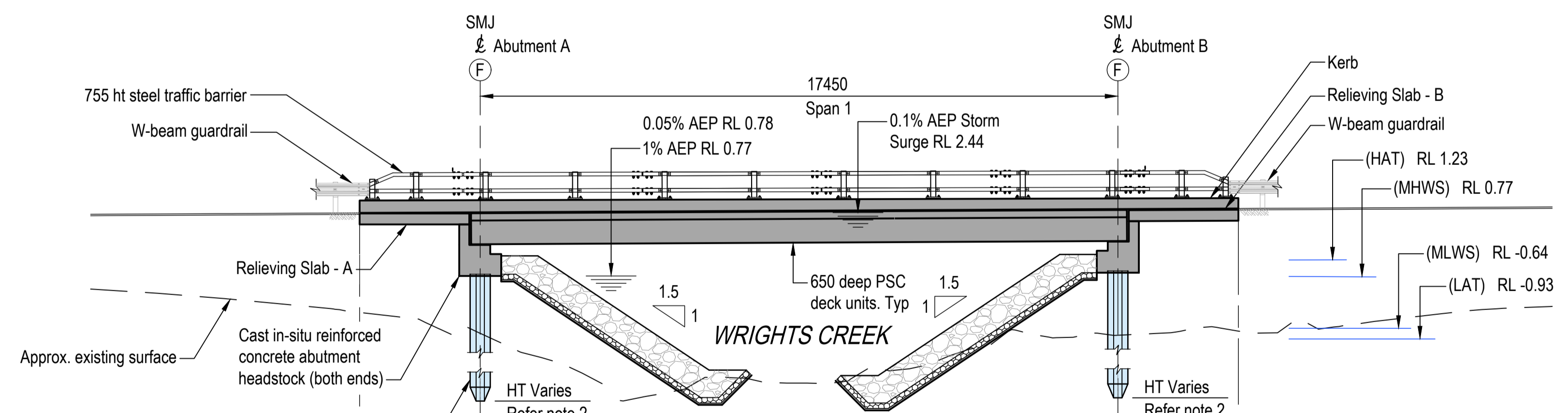
PLAN  
Scale A



HORIZONTAL ALIGNMENT SETOUT  
NTS



VERTICAL ALIGNMENT SETOUT  
NTS



LONGITUDINAL SECTION ALONG CONTROL LINE MC10  
Scale A

| Vert. Data Datum -7.00 |  |         |                |                |         |
|------------------------|--|---------|----------------|----------------|---------|
| Design Height          |  | 2.485   | 2.500          | 2.589          | 2.604   |
| Natural Surface        |  | -0.248  | -0.733         | -0.810         | -0.7483 |
| Chainage MC10          |  | 152.350 | 155.650 ABUT A | 173.100 ABUT B | 176.400 |

**LEGEND**

- (F) Denotes Fixed End of span
- SMJ Denotes Small Movement Joint
- RFA - BH01 Denotes Completed Geotechnical Borehole Investigation Location

**NOTES**

1. For General Notes, refer Series No. NL-001 & NL-002.
2. Estimated pile toe levels shown on bridge elevation, refer Series No. PL-001, PL-002 and PL-003 for pile information and details.
3. For Moddex BS40 Bikesafe bikeway barrier, all steelwork to meet AS 4312 corrosive category C3 (50 year design life nominal).

Level 4, 262 Adelaide Street, Brisbane, QLD 4000  
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www.redfoxadvisory.com  
Drawing Number:  
**redfox** 01016-RFA-BR01-DRG-GA-001

Authorised For Issue:

| Revisions/Descriptions       | Drawn | Approved | Date |
|------------------------------|-------|----------|------|
| 2 100% Detailed Design Issue |       | BS       |      |
| 1 Preliminary Design Issue   |       | BS       |      |
| A Issued For Construction    |       |          |      |



Delivery Manager \_\_\_\_\_ Date \_\_\_\_\_

Project Owner / Manager \_\_\_\_\_ Date \_\_\_\_\_

Program Responsible Officer \_\_\_\_\_ Date \_\_\_\_\_

**PROJECT INFORMATION**

Project Number MBRC BUDGET NUMBER

Coordinator MP MP Team Leader

Designer LCC MS Checked

N.M (GMC) 15/03/2022

Surveyor \_\_\_\_\_ Survey Date / Ref. No. \_\_\_\_\_

Survey Datum

MGA (GDA94) ZONE 56 AHD Derived

Horizontal Vertical

0 1 2 3 4m

Scales

**ISSUE**

Revisions

**100% DETAIL DESIGN  
NOT FOR  
CONSTRUCTION**

Original Issue Date: XX/XX/23

**PROJECT DESCRIPTION**

**WHITE PATCH  
ESPLANADE**

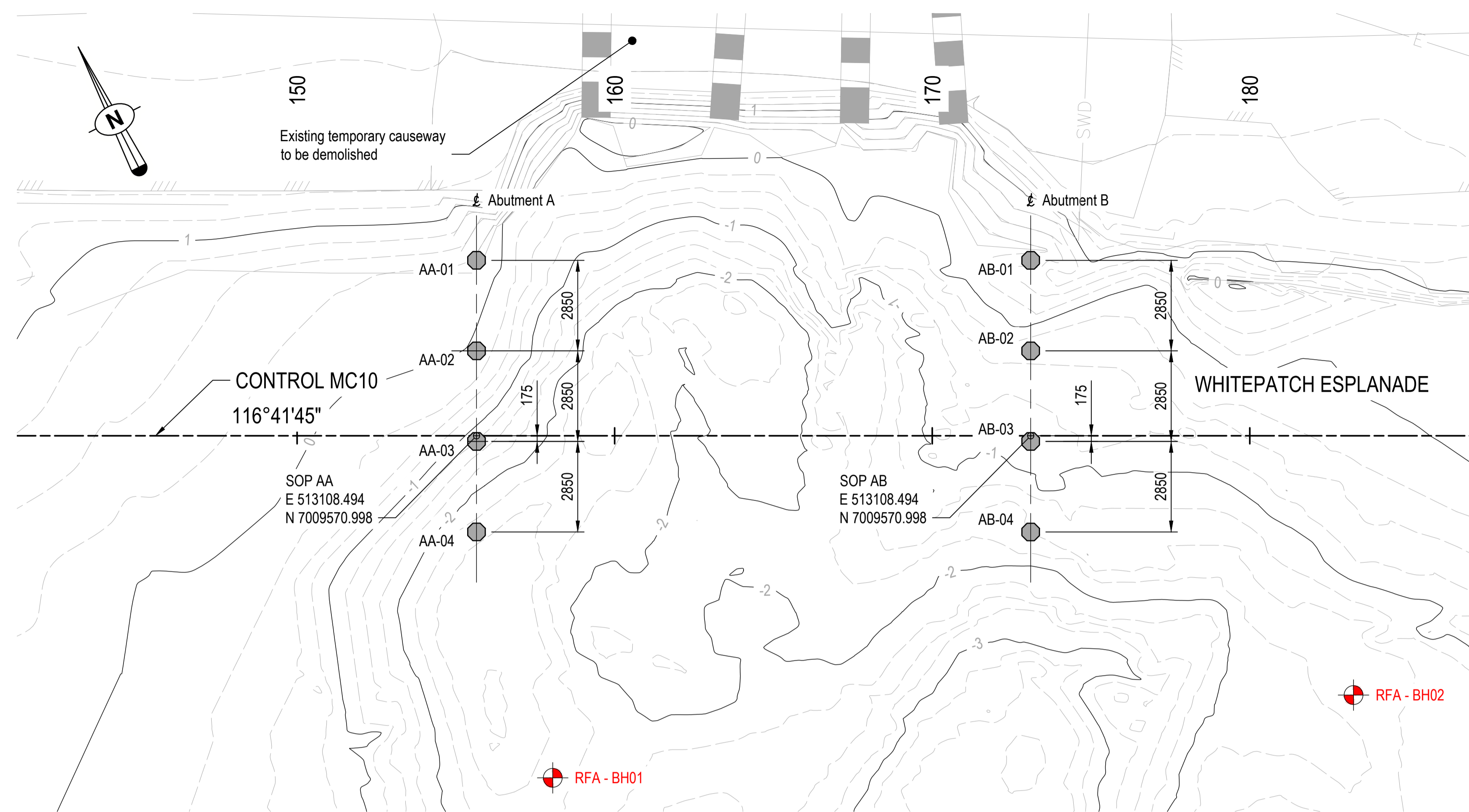
**BRIDGE AND ROAD  
CONSTRUCTION**

**PILING SETOUT  
PLAN AND SCHEDULE**

**DRAWING NUMBER**

Drawing Number **2** Rev.

Drawing 9 of 31 Original Plan Size **A1**



**PILE SETOUT PLAN**  
Scale A

**PSC PILE SCHEDULE**

| Location   | Pile ID | Pile Size (mm) | Top of Pile (m AHD) | Estimated Toe of Pile 'A' (m AHD) | Overall Pile length 'L' (m) | Expected Founding Material | Borehole reference | Headbars - Type 1 |         |            | Headbars - Type 2 |         |            | Mass of 1 pile (tonne) | Overdrive Allowance (m) | Underdrive Allowance (m) |
|------------|---------|----------------|---------------------|-----------------------------------|-----------------------------|----------------------------|--------------------|-------------------|---------|------------|-------------------|---------|------------|------------------------|-------------------------|--------------------------|
|            |         |                |                     |                                   |                             |                            |                    | Diameter (mm)     | No. off | Length (m) | Diameter (mm)     | No. off | Length (m) |                        |                         |                          |
| Abutment A | AA-01   | 550 Octagonal  | 0.695               | -7.305                            | 9.2                         | Very Dense SAND            | BH01               | 28                | 4       | 5          | 28                | 4       | 6.1        | 5.89                   | 2                       | 1                        |
|            | AA-02   | 550 Octagonal  | 0.695               | -7.305                            | 9.2                         | Very Dense SAND            | BH01               | 28                | 4       | 5          | 28                | 4       | 6.1        | 5.89                   | 2                       | 1                        |
|            | AA-03   | 550 Octagonal  | 0.695               | -7.305                            | 9.2                         | Very Dense SAND            | BH01               | 28                | 4       | 5          | 28                | 4       | 6.1        | 5.89                   | 2                       | 1                        |
|            | AA-04   | 550 Octagonal  | 0.695               | -7.305                            | 9.2                         | Very Dense SAND            | BH01               | 28                | 4       | 5          | 28                | 4       | 6.1        | 5.89                   | 2                       | 1                        |
| Abutment B | AB-01   | 550 Octagonal  | 0.784               | -7.216                            | 9.2                         | Very Dense SAND            | BH02               | 28                | 4       | 5          | 28                | 4       | 6.1        | 5.89                   | 2                       | 1                        |
|            | AB-02   | 550 Octagonal  | 0.784               | -7.216                            | 9.2                         | Very Dense SAND            | BH02               | 28                | 4       | 5          | 28                | 4       | 6.1        | 5.89                   | 2                       | 1                        |
|            | AB-03   | 550 Octagonal  | 0.784               | -7.216                            | 9.2                         | Very Dense SAND            | BH02               | 28                | 4       | 5          | 28                | 4       | 6.1        | 5.89                   | 2                       | 1                        |
|            | AB-04   | 550 Octagonal  | 0.784               | -7.216                            | 9.2                         | Very Dense SAND            | BH02               | 28                | 4       | 5          | 28                | 4       | 6.1        | 5.89                   | 2                       | 1                        |

\* Stripping length of 1.2m is included in the overall pile length 'L'

**BOREHOLE LEGEND**

RFA - BH01 Denotes Completed Geotechnical Borehole Investigation Location

**NOTES**

- For General Notes, refer Series No. NL-001 & NL-002.
- The estimated Toe of Pile 'A' has been derived based on the available geotechnical investigation information as referenced in the factual geotechnical report reference TBC.
- The Contractor is to review the factual geotechnical investigation information and develop an installation methodology to achieve the estimated toe of pile and founding into Very Dense SAND.

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www.redfoxadvisory.com  
Drawing Number:  
**redfox 01016-RFA-BR01-DRG-PL-002** Authorised For Issue:

| Revisions/Descriptions       | Drawn | Approved | Date |
|------------------------------|-------|----------|------|
| 2 100% Detailed Design Issue |       | BS       |      |
| 1 Preliminary Design Issue   |       | BS       |      |
| A Issued For Construction    |       |          |      |