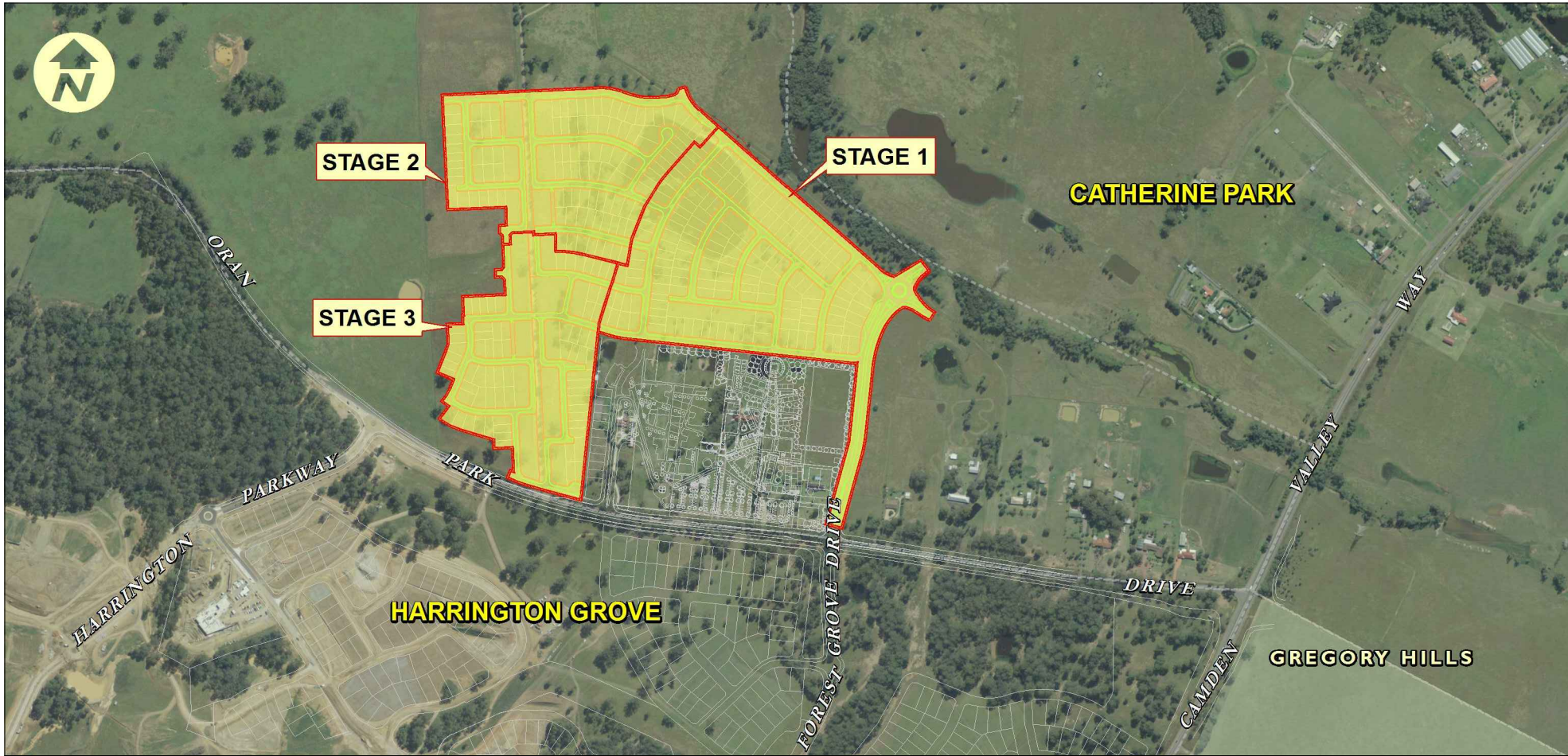


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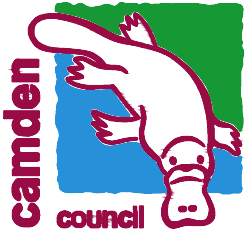
| NO. | DRAWING TITLE |
|----------------------------|---|
| GENERAL | |
| 000 | COVER SHEET |
| 001 | GENERAL LAYOUT PLAN |
| 002 | STANDARD NOTES & LEGEND |
| ROADWORKS | |
| 101 | CIVIL ENGINEERING PLAN SHEET 01 OF 07 |
| 102 | CIVIL ENGINEERING PLAN SHEET 02 OF 07 |
| 103 | CIVIL ENGINEERING PLAN SHEET 03 OF 07 |
| 104 | CIVIL ENGINEERING PLAN SHEET 04 OF 07 |
| 105 | CIVIL ENGINEERING PLAN SHEET 05 OF 07 |
| 106 | CIVIL ENGINEERING PLAN SHEET 06 OF 07 |
| 107 | CIVIL ENGINEERING PLAN SHEET 07 OF 07 |
| 108 | BASINS No.12A & 12B PLAN |
| 109 | BASIN No.3 PLAN |
| 201 | CATHERINE PARK DRIVE LONGITUDINAL SECTIONS |
| 202 | CATHERINE PARK DRIVE & ROAD No. 01 TYPICAL CROSS SECTIONS |
| 203 | ROAD No.01 LONGITUDINAL SECTIONS |
| 204 | ROAD No.02 LONGITUDINAL & TYPICAL CROSS SECTION |
| 205 | ROAD No.03 & 04 LONGITUDINAL SECTIONS |
| 206 | ROAD No.05 & 06 LONGITUDINAL & TYPICAL CROSS SECTION |
| 207 | ROAD No.07, 08 & 09 LONGITUDINAL & TYPICAL CROSS SECTION |
| 208 | ROAD No.10 LONGITUDINAL & TYPICAL CROSS SECTION |
| 209 | ROAD No.11 & 12 LONGITUDINAL SECTIONS |
| 210 | ROAD No.12, 13, 14 & 18 LONGITUDINAL SECTIONS |
| 211 | ROAD No.15 LONGITUDINAL & TYPICAL CROSS SECTIONS |
| 212 | ROAD No.16 LONGITUDINAL SECTIONS |
| 213 | ROAD No.16, 17 & No.19 LONGITUDINAL & TYPICAL CROSS SECTIONS |
| 214 | ROAD No.20 & 21 LONGITUDINAL & TYPICAL CROSS SECTIONS |
| 215 | ROAD No.21, 22 & 23 LONGITUDINAL SECTIONS |
| 216 | ROAD No.21, 22, 23 & 24 LONGITUDINAL & TYPICAL CROSS SECTIONS |
| SEDIMENT & EROSION CONTROL | |
| 701 | SEDIMENT & EROSION CONTROL PLAN |
| 702 | SEDIMENT & EROSION CONTROL NOTES & DETAILS |
| SIGNAGE & LINEMARKING | |
| 801 | SIGNAGE & LINEMARKING PLAN |
| 802 | ROUNDBOUT VEHICLE SWEEP PATH PLAN |



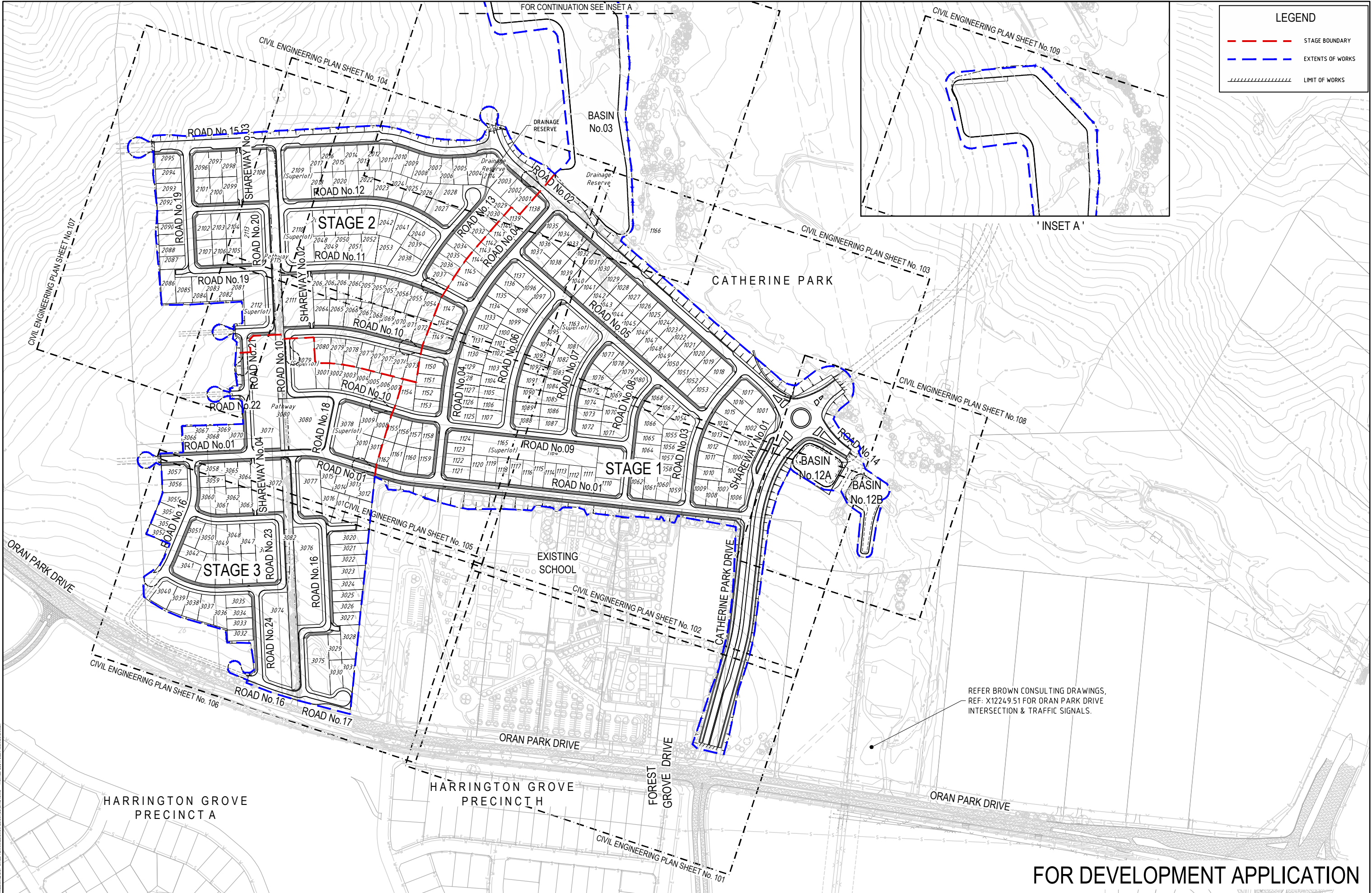
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LGA CAMDEN COUNCIL
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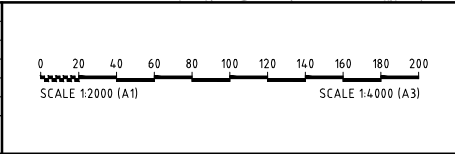
URBAN DESIGN:
DEVELOPMENT PLANNING STRATEGIES (NSW)
ROAD GEOMETRY:
TTM CONSULTING (VIC) PTY LTD



CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN



| | | | | | | |
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| Revisions | 1 | DD | | | 11/12/2013 | PRELIMINARY ISSUE |
| | 2 | AW | TW | | 13/12/2013 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 3 | JM | TW | CB | 18/12/2013 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 4 | JM | TB | GM | 26/02/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 5 | JM | DD | GM | 26/05/2014 | ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED |
| | 6 | MG | DD | GM | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
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FIE Aust. CP Eng.
Manager - Urban Development
SIGN: [Signature]
DATE: 20.6.14

Client:
HIXSON PTY. LTD.

Project:
**CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN**



| | | | | |
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| Drawing Title: GENERAL LAYOUT PLAN | | | | |
| Project No.: X12249.01 | Stage: 1 | Milestone: DA | Dwg No.: 001 | Revision: 6 |

GENERAL NOTES

- ## EARTHWORKS NOTES

- ## ROADWORKS NOTES

- STORMWATER NOTES

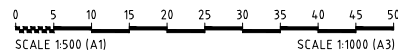
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FOR DEVELOPMENT APPLICATION

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| | 4 | JM | TB | GM | SG | 26/02/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 5 | JM | DD | GM | SG | 26/05/2014 | ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED |
| | 6 | MG | DD | GM | SG | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
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| | Client |
|--|--------|

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Project

CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

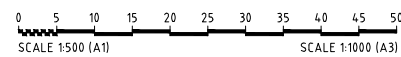


Drawing Title:
CIVIL ENGINEERING PLAN
SHEET 01 OF 07

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| X12249.01 | 1 | DA | 101 | 6 |




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| | 4 | JM | TB | GM | SG | 26/02/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 5 | JM | DD | GM | SG | 26/05/2014 | ROADS 6, 7, 8 & 9 A ROUNDABOUT LAYOUT UPDATED |
| | 6 | MG | DD | GM | SG | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| First Issue | AW | DD | CB | SG | 4/10/2013 | | |
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Manager - Urban Development
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CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN



Drawing Title:
CIVIL ENGINEERING PLAN
SHEET 02 OF 07

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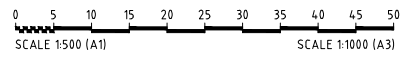
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FOR CONTINUATION REFER SHEET No. 104

FOR CONTINUATION REFER SHEET No. 102

FOR DEVELOPMENT APPLICATION

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| | 5 | JM | DD | 26/05/2014 | ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED |
| | 6 | MG | DD | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| First Issue | AW | DD | CB | SG | 4/10/2013 |
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Manager - Urban Development
SIGN: [Signature]
DATE: 20.6.14

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Project:
CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN



Drawing Title:
CIVIL ENGINEERING PLAN
SHEET 03 OF 07
Project No.: X12249.01
Stage: 1
Milestone: DA
Dwg No.: 103
Revision: 6



LEGEND

LOT

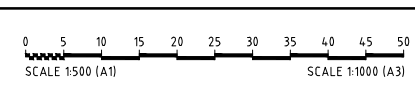
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ACCESS FOR BASIN MAINTENANCE

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FOR DEVELOPMENT APPLICATION

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| | 4 | JM | TB | GM | SG | 26/02/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 5 | JM | DD | GM | SG | 26/05/2014 | ROADS 6, 7, 8 & 9 ROUNDABOUT LAYOUT UPDATED |
| | 6 | MG | DD | GM | SG | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| First Issue | AW | DD | CB | SG | 4/10/2013 | Revision Details | |
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FIE Aust. CP Eng.
Manager - Urban Development

Signature: [Signature]
DATE: 20.6.14

Client:
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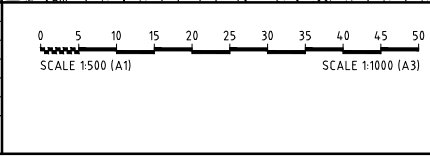
Project:
**CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN**

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| Drawing Title: | | | |
|--|-------------|------------------|-----------------|
| CIVIL ENGINEERING PLAN SHEET 04 OF 07 | | | |
| Project No.: X12249.01 | Stage: 1 | Milestone: DA | Dwg No.: 104 |
| | | Revision: 6 | |



| Revisions | | Issue | Drawn | Design | Check | Appd. | Date |
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| 1 | DD | | | | | | 11/12/2013 PRELIMINARY ISSUE |
| 2 | AW | TW | | | | | 13/12/2013 ISSUED FOR DEVELOPMENT APPLICATION |
| 3 | JM | TW | CB | SG | | | 18/12/2013 ISSUED FOR DEVELOPMENT APPLICATION |
| 4 | JM | TB | GM | SG | | | 26/02/2014 ISSUED FOR DEVELOPMENT APPLICATION |
| 5 | JM | DD | GM | SG | | | 26/05/2014 ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED |
| 6 | MG | DD | GM | SG | | | 26/08/2014 ISSUED FOR DEVELOPMENT APPLICATION |
| First Issue | AW | DD | CB | SG | | | 4/10/2013 |
| Revision Details | | | | | | | |



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BY: **STUART GREEN**
FIE Aust. CP Eng.
Manager - Urban Development

Signature: *[Signature]*
DATE: **20.6.14**

Client:
HIXSON PTY. LTD.

Project:
**CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN**


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
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SHEET 05 OF 07**


Project No.: **X12249.01** Stage: **1** Milestone: **DA** Dwg No.: **105** Revision: **6**

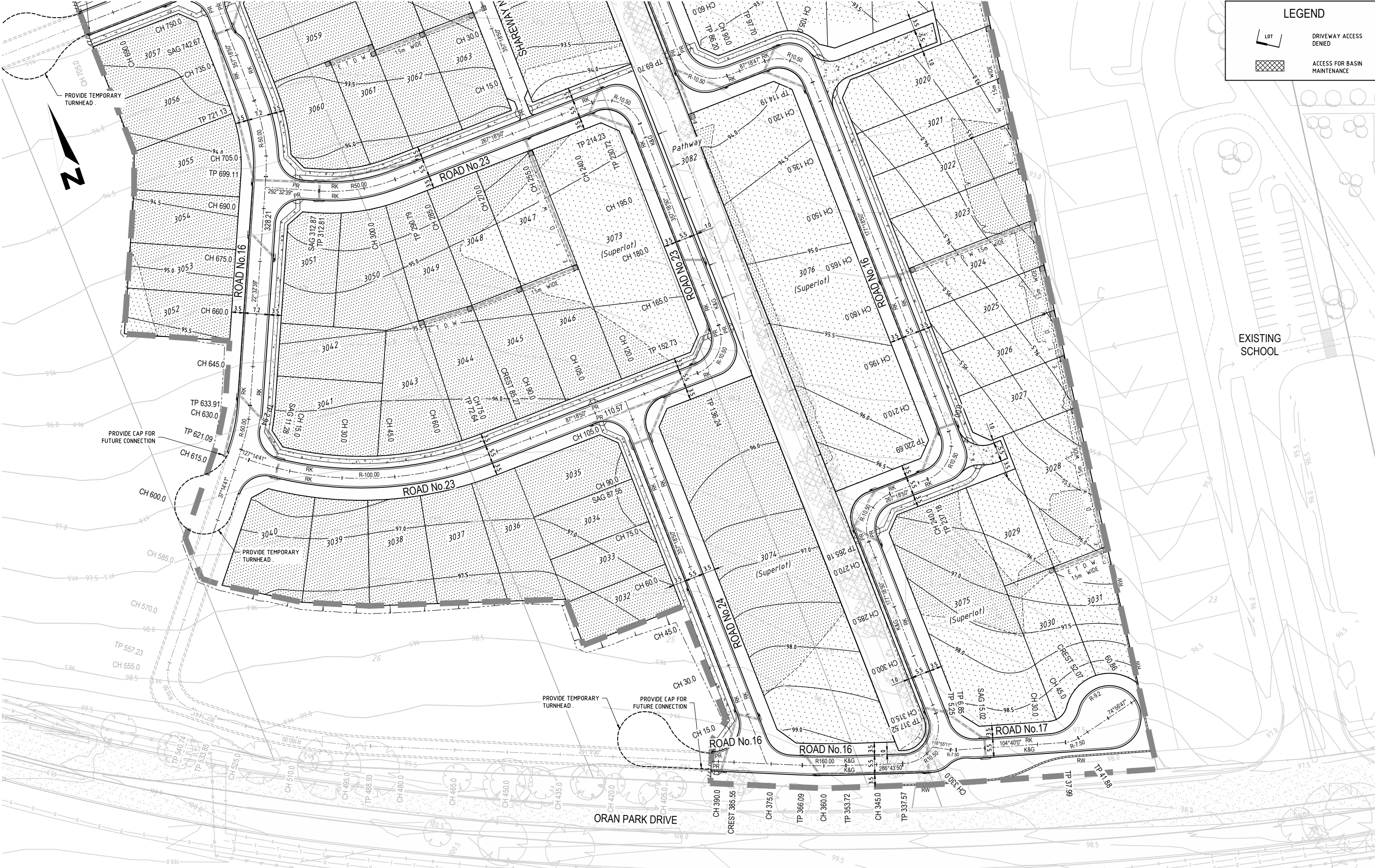
FOR CONTINUATION REFER SHEET No. 105

LEGEND

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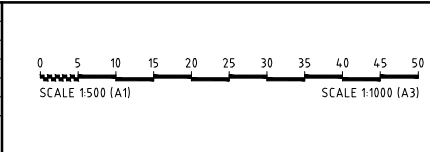
 ACCESS FOR BASIN MAINTENANCE



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FOR DEVELOPMENT APPLICATION

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| | 3 | JM | TW | CB | SG | 18/12/2013 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 4 | JM | TB | GM | | 26/02/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 5 | JM | DD | GM | | 26/05/2014 | ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED |
| | 6 | MG | DD | GM | | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| First Issue | AW | DD | CB | SG | 4/10/2013 | | |
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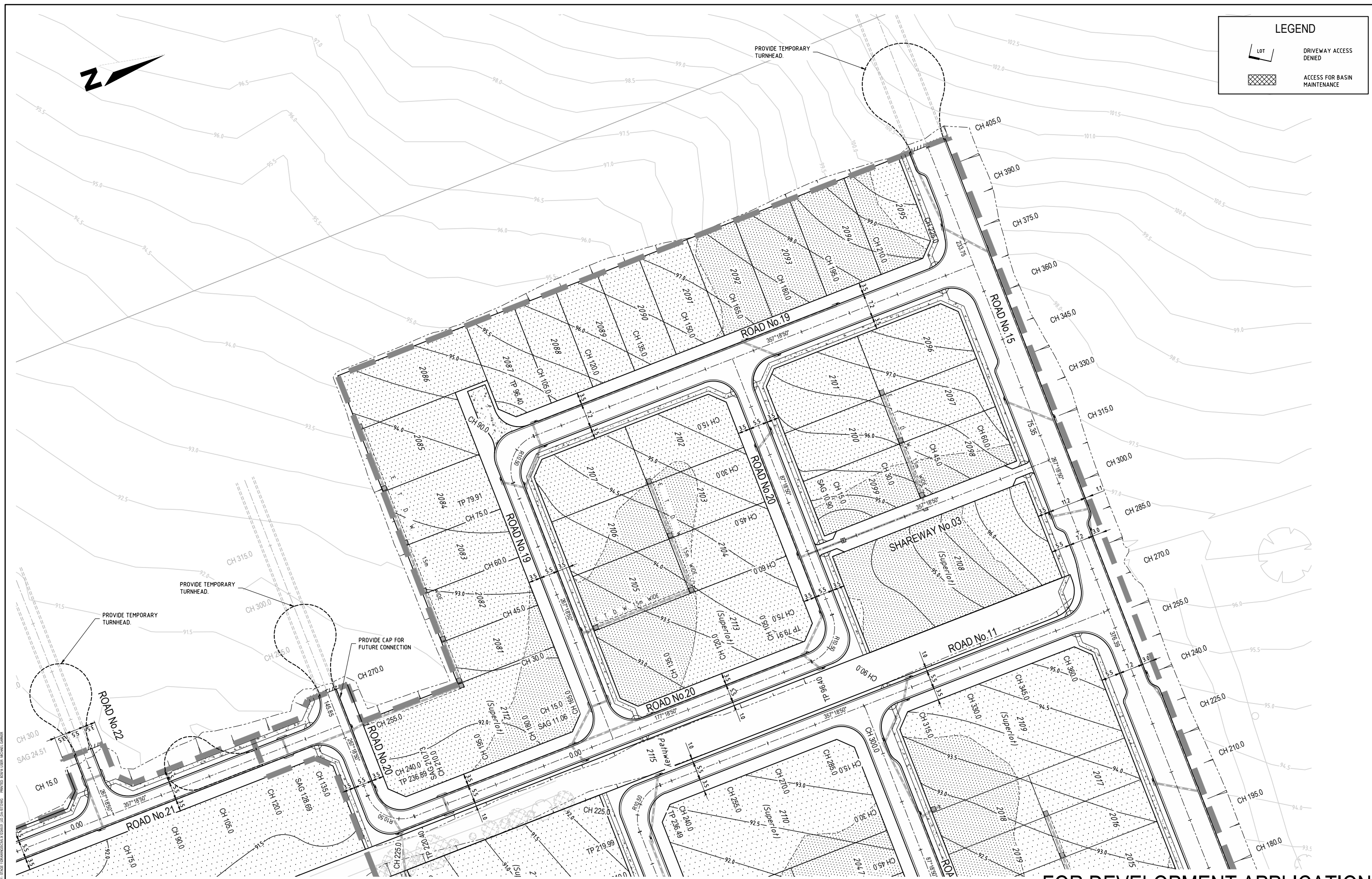
Approval:
BY: STUART GREEN
FIE Aust. CP Eng.
Manager - Urban Development
SIGN: 
DATE: 20.6.14

Client:
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Project:
CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN


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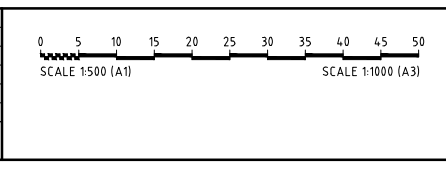
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FOR CONTINUATION REFER SHEET No.104

FOR DEVELOPMENT APPLICATION

| Revisions | | Revision Details | |
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| 4 | JM TB GM SG | 26/02/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 5 | JM DD GM SG | 26/05/2014 | ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED |
| 6 | MG DD GM SG | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
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Manager - Urban Development
SIGN: [Signature]
DATE: 20.6.14

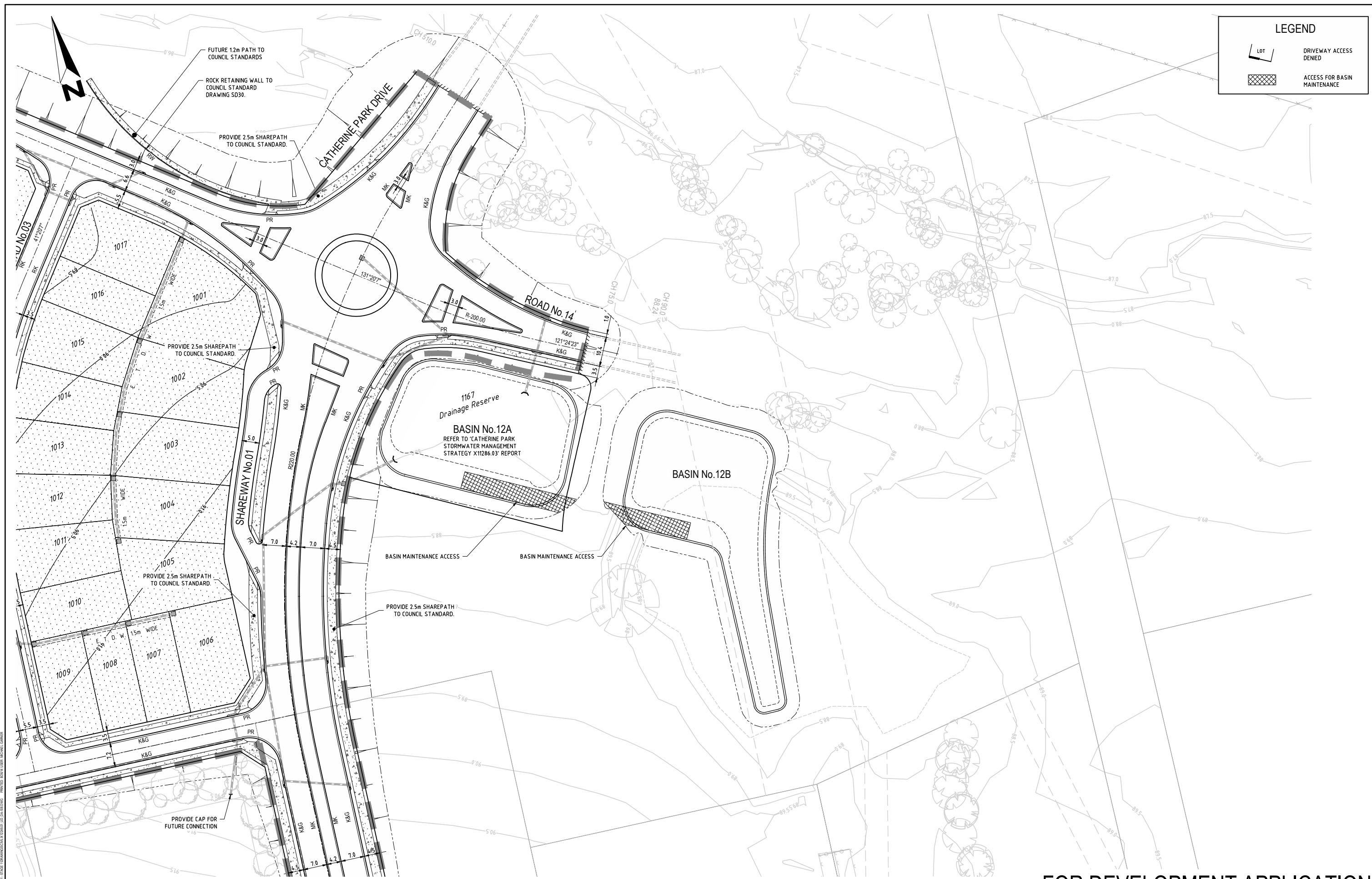
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CIVIL ENGINEERING PLAN
SHEET 07 OF 07

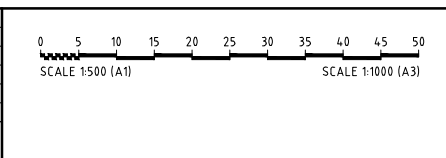
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FOR CONTINUATION REFER SHEET No.104

FOR DEVELOPMENT APPLICATION

| Revisions | | | | | |
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| 6 | MG | DD | GM | 25/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
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FIE Aust. CP Eng.
Manager - Urban Development
SIGN:
DATE: 20.6.14

Client:
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Project:
CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

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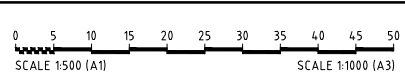
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FOR CONTINUATION REFER SHEET No.104

FOR DEVELOPMENT APPLICATION

| Revisions | | | | | |
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FIEAust. CPEng.
Manager - Urban Development
SIGN: [Signature]
DATE: 20.6.14

Client:
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Project:
CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN



| Drawing Title: | | | | |
|-----------------|--------|------------|----------|-----------|
| BASIN No.3 PLAN | | | | |
| Project No.: | Stage: | Milestone: | Dwg No.: | Revision: |
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DRAWING No.101 TO 106 FOR DETAILS

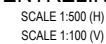
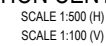


Figure 10.1 shows two graphical scales. The top scale has a total length of 50 units, with major markings every 5 units (0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50). It is labeled 'SCALE 1:500 (A1)' and 'SCALE 1:1000 (A3)'. The bottom scale has a total length of 10 units, with major markings every 1 unit (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10). It is labeled 'SCALE 1:100 (A1)' and 'SCALE 1:200 (A3)'. Both scales include a small '0' mark at the beginning and a '1' mark at the end of the first unit.

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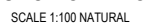
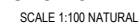
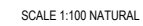
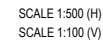


DATE _____

CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

| | | | | |
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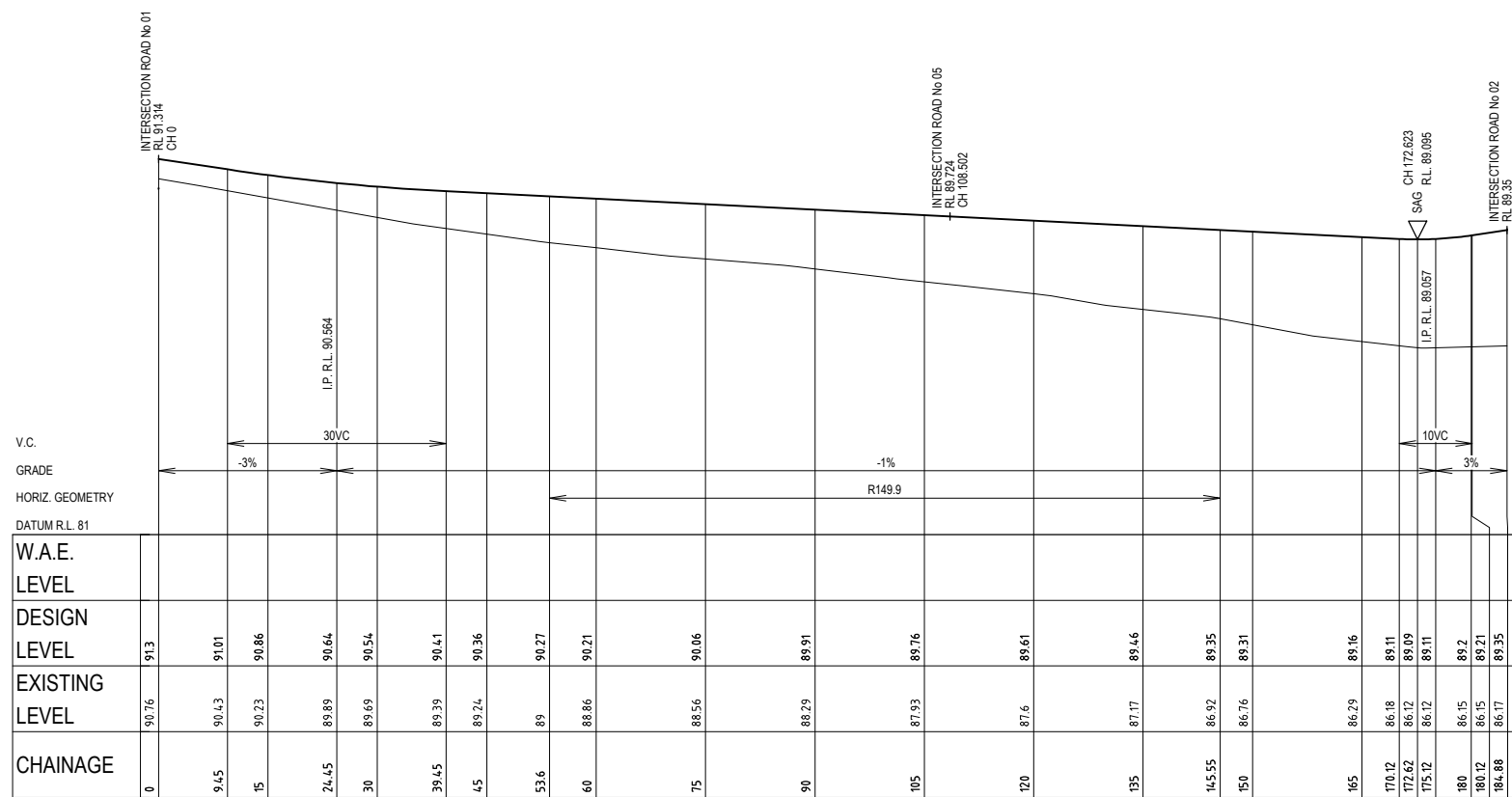
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| Project No.: | Stage: | Milestone: | Dwg No.: | Revision: |
| X12249.01 | 1 | DA | 204 | 6 |



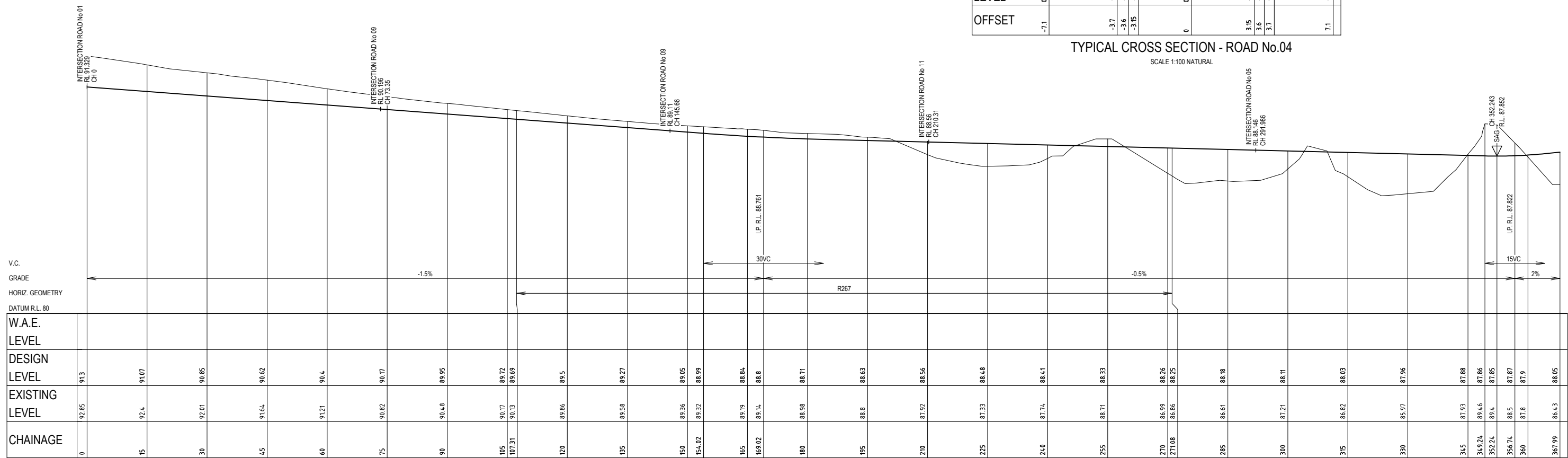
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| Client: | HIXSON PTY. LTD. |
| Project: | CATHERINE PARK - STAGE 1, 2 & 3 ROAD & DRAINAGE DESIGN |

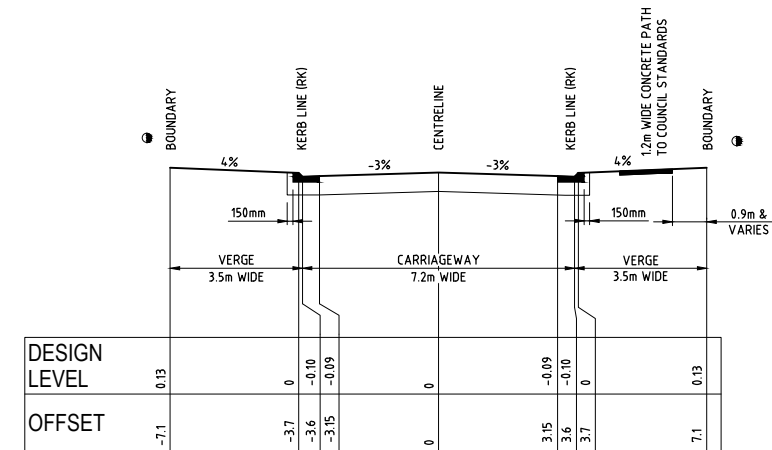
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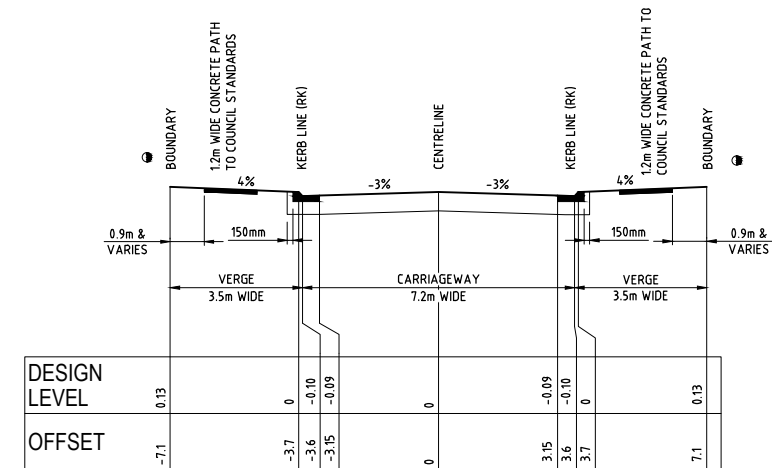
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SCALE 1:500 (H)
SCALE 1:100 (V)



LONGITUDINAL SECTION CENTRELINE - ROAD No.04
SCALE 1:500 (H)
SCALE 1:100 (V)



TYPICAL CROSS SECTION - ROAD No.03
SCALE 1:100 NATURAL



TYPICAL CROSS SECTION - ROAD No.04
SCALE 1:100 NATURAL

FOR DEVELOPMENT APPLICATION

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| | 5 | JM | DD | GM | SG | 26/05/2014 ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED |
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| First Issue | AW | DD | CB | SG | 4/10/2013 | |
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SCALE 1:500 (A1)

SCALE 1:1000 (A3)

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SCALE 1:100 (A1)

SCALE 1:200 (A3)

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FileAust. CPEng.
Manager - Urban Development
SIGN: *[Signature]*

Client: **HIXSON PTY. LTD.**

Project: **CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN**

DATE: *20.6.14*

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Drawing Title:
**ROAD No.03 & 04 LONGITUDINAL
SECTIONS**

Project No.:
X12249.01

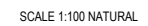
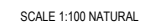
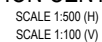
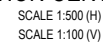
Stage:
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Milestone:
DA

Dwg No.:
205

Revision:
6

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Figure 10.1 shows two graphical scales. The top scale is for 1:500 (A1) and 1:1000 (A3), with markings from 0 to 50. The bottom scale is for 1:100 (A1) and 1:200 (A3), with markings from 0 to 10.

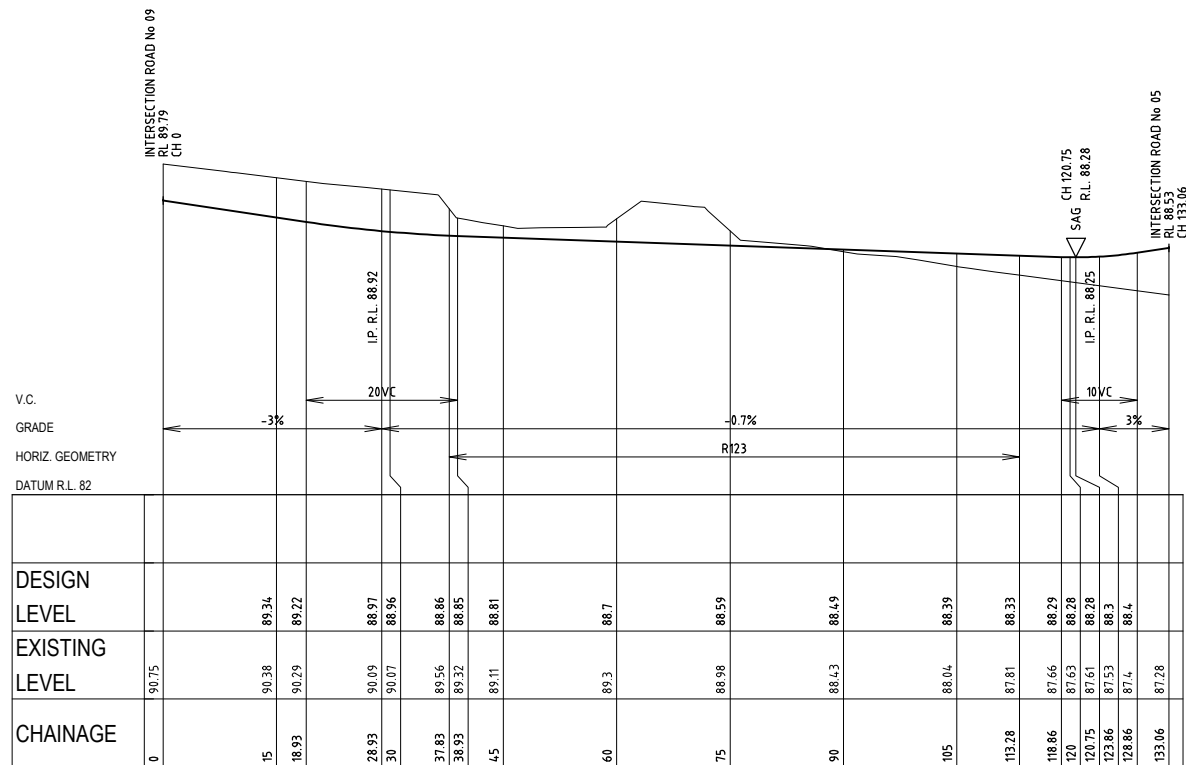
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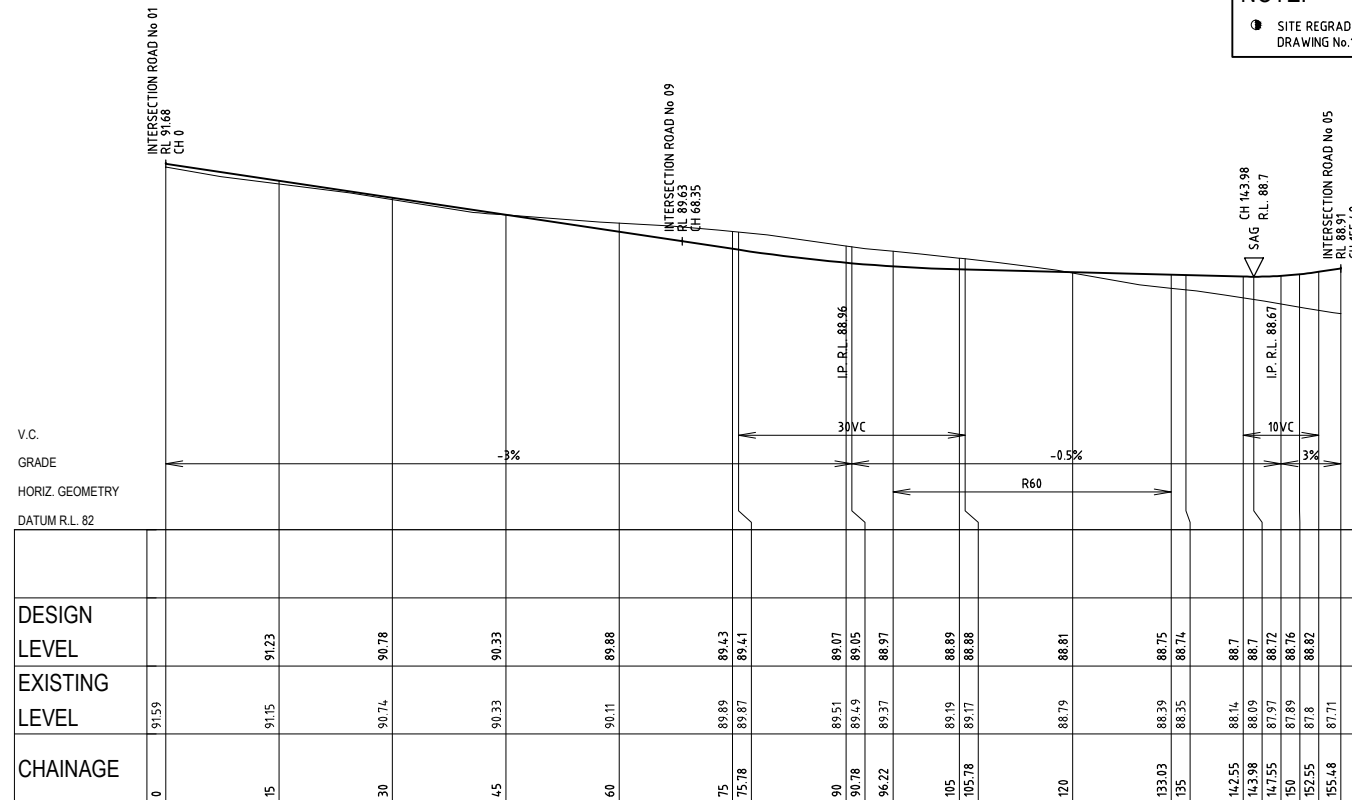
Project: CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

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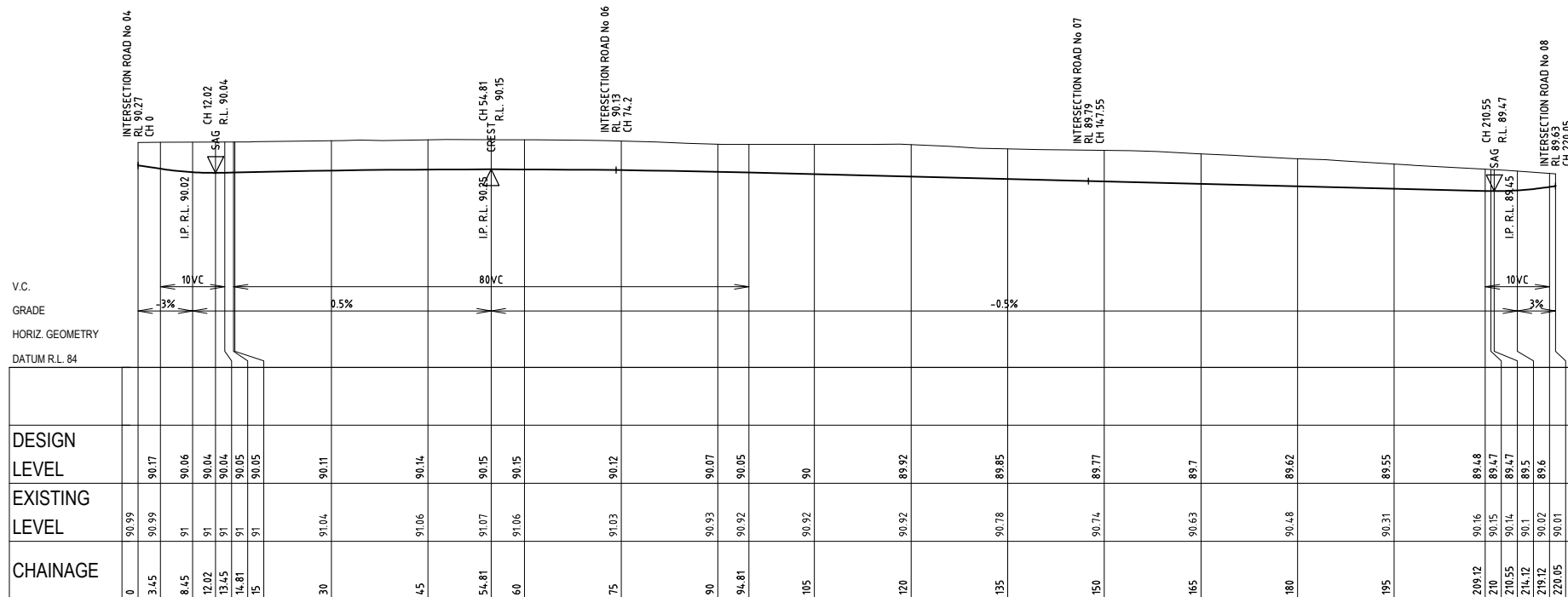
LONGITUDINAL SECTION CENTRELINE - ROAD No 07

SCALE 1:500 (H)
SCALE 1:100 (V)



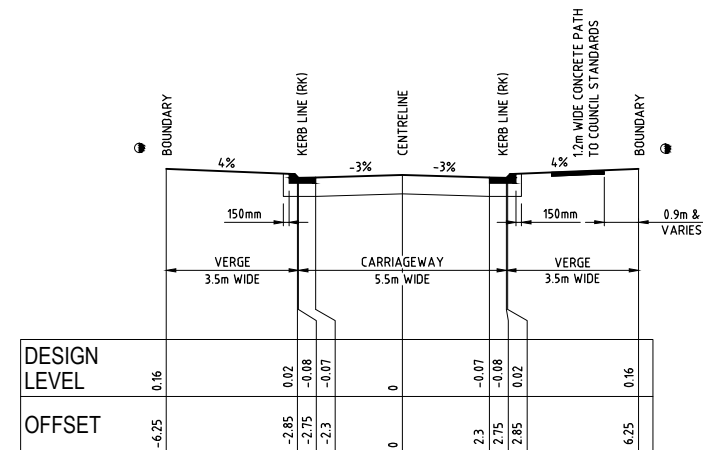
LONGITUDINAL SECTION CENTRELINE - ROAD No 08

SCALE 1:500 (H)
SCALE 1:100 (V)



LONGITUDINAL SECTION CENTRELINE - ROAD No 09

SCALE 1:500 (H)
SCALE 1:100 (V)



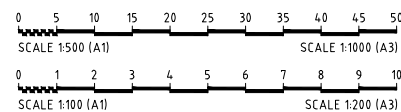
TYPICAL CROSS SECTION - ROAD No.07, 08 & 09

SCALE 1:100 NATURAL

FOR DEVELOPMENT APPLICATION

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Approval:
BY: STUART GREEN
FIEAust. CPEng.
Manager - Urban Development
SIGN:
DATE: 20.6.14

Client:

HIXSON PTY. LTD.

Project:

CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

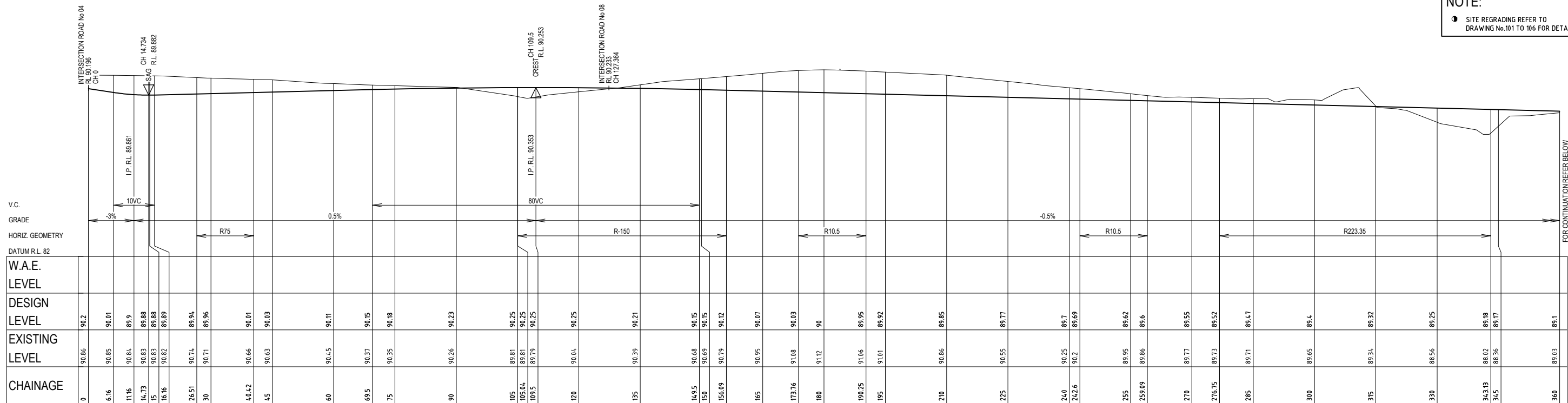


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Drawn Title:
ROAD No.07, 08 & 09 LONGITUDINAL &
TYPICAL CROSS SECTION

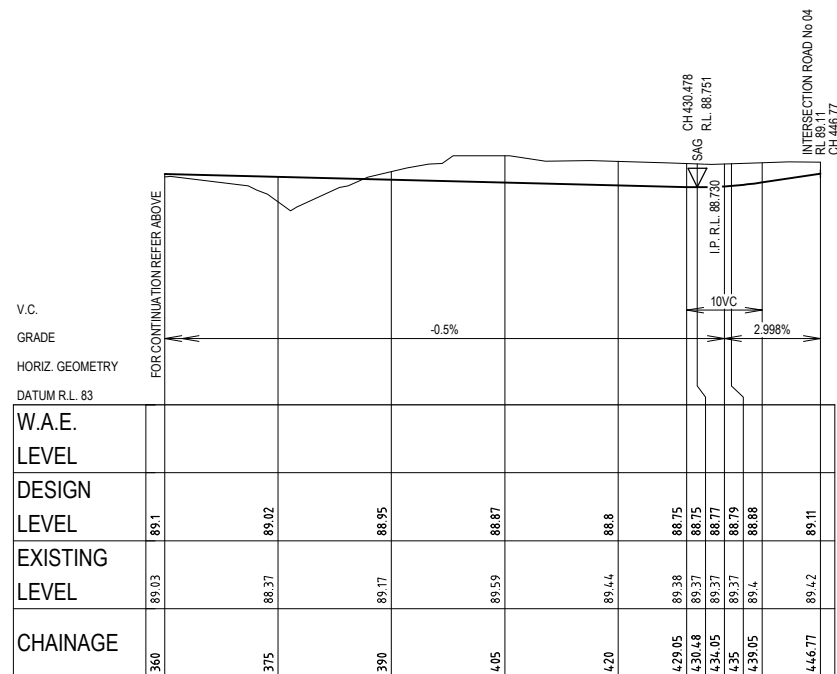
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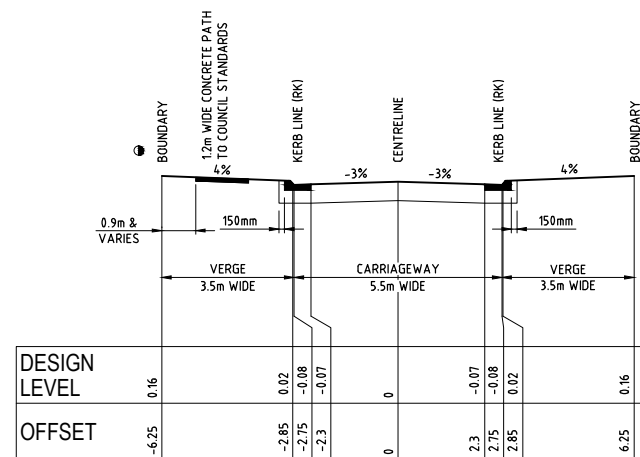
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SCALE 1:500 (H)
SCALE 1:100 (V)



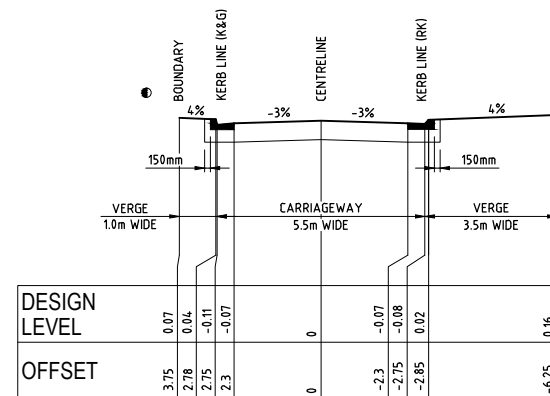
LONGITUDINAL SECTION CENTRELINE - ROAD No.10 CONTINUED

SCALE 1:500 (H)
SCALE 1:100 (V)



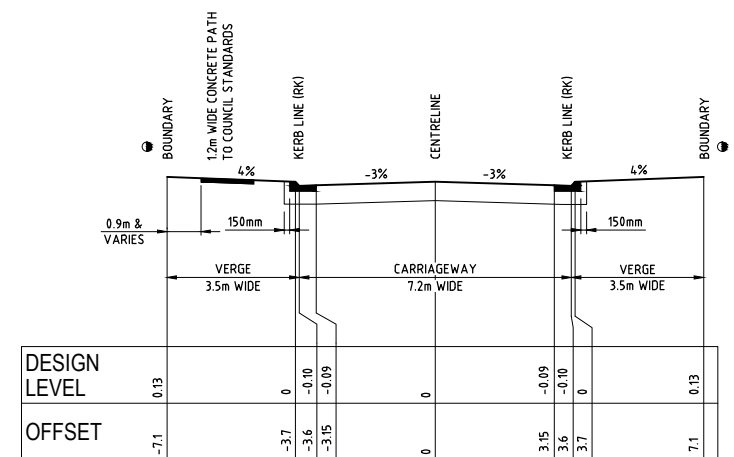
TYPICAL CROSS SECTION - ROAD No.10 (1 of 3)

SCALE 1:100 NATURAL



TYPICAL CROSS SECTION - ROAD No.10 (2 of 3)

SCALE 1:100 NATURAL



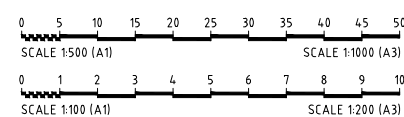
TYPICAL CROSS SECTION - ROAD No.10 (3 of 3)

SCALE 1:100 NATURAL

FOR DEVELOPMENT APPLICATION

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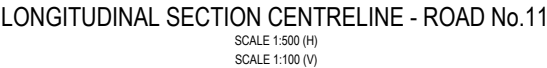
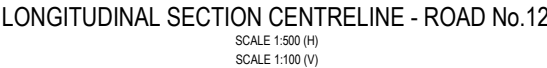


Approval:
BY: STUART GREEN
FIE Aust. CP Eng.
Manager - Urban Development
SIGN:
DATE: 20.6.14

Client:
HIXSON PTY. LTD.
Project:
CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

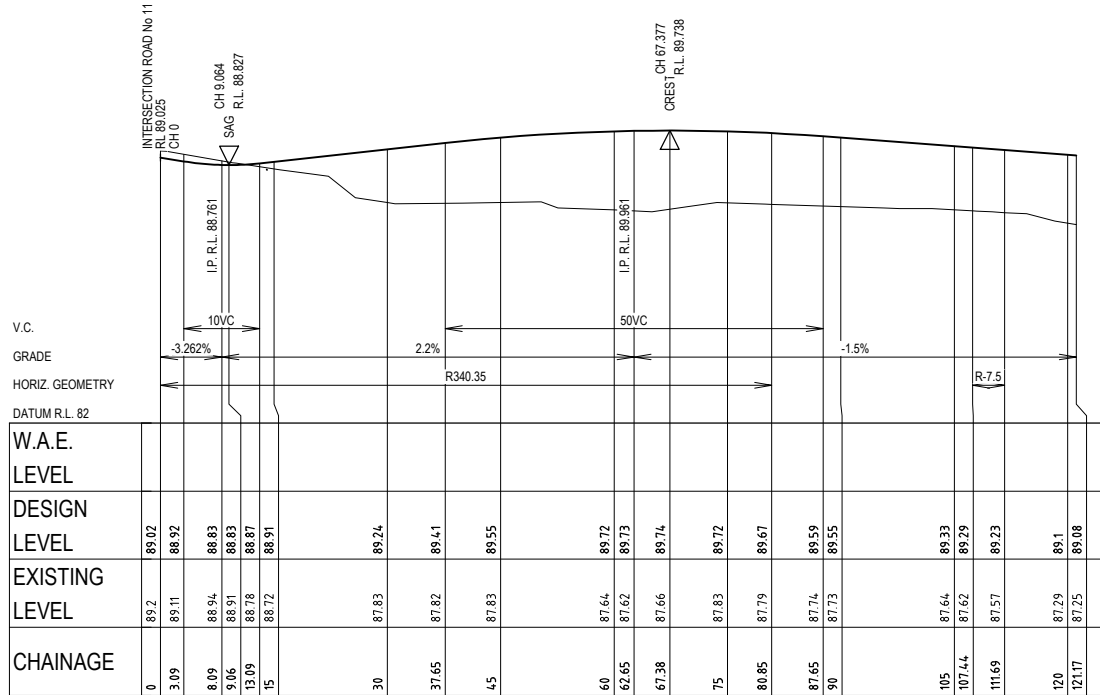


Drawn Title:
ROAD No.10 LONGITUDINAL &
TYPICAL CROSS SECTION
Project No.: X12249.01
Stage: 1
Milestone: DA
Dwg No.: 208
Revision: 6



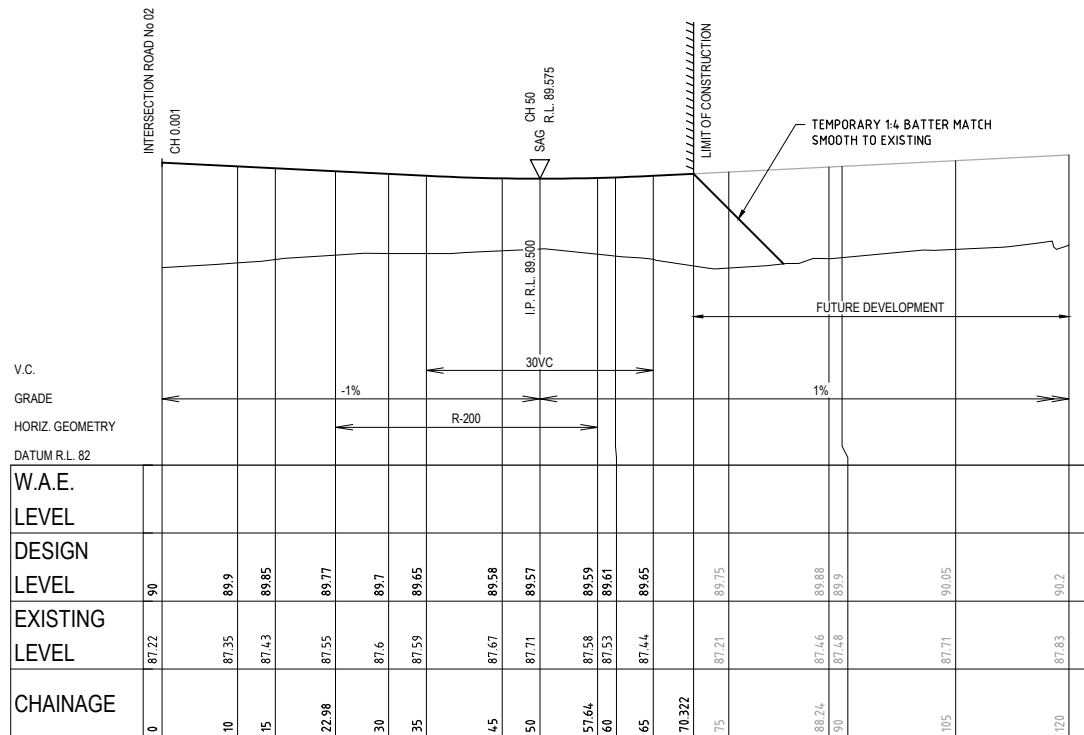
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| Project No.: | Stage: | Milestone: | Dwg No.: | Revision: |
| X12249.01 | 1 | DA | 209 | 6 |



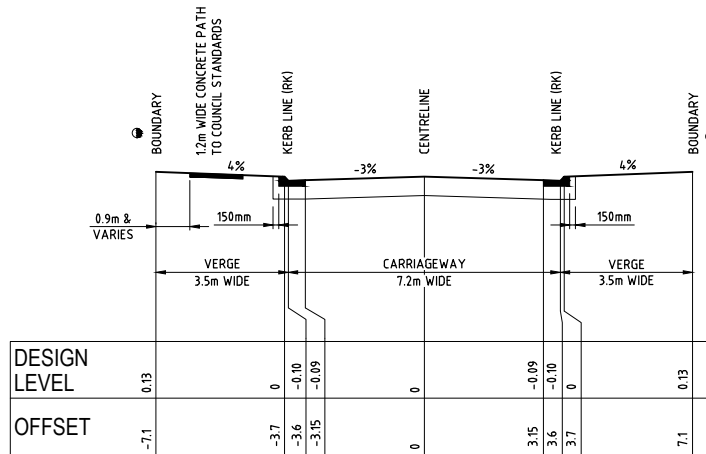
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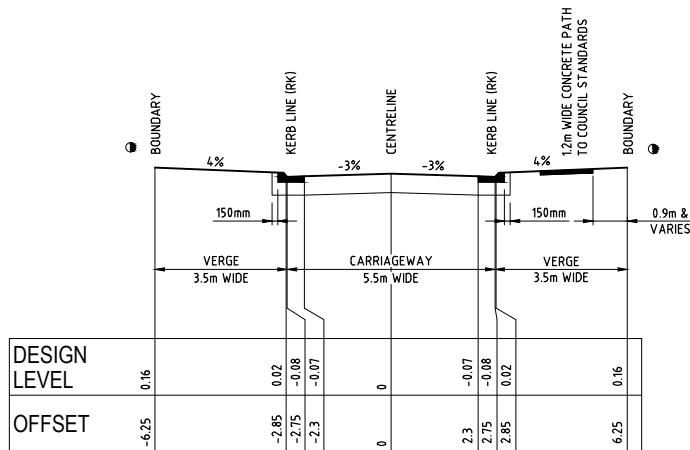
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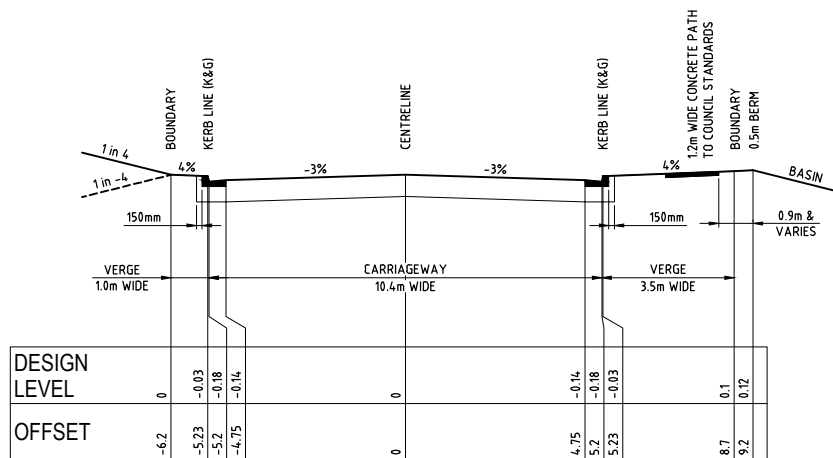
TYPICAL CROSS SECTION - ROAD No.12

SCALE 1:100 NATURAL



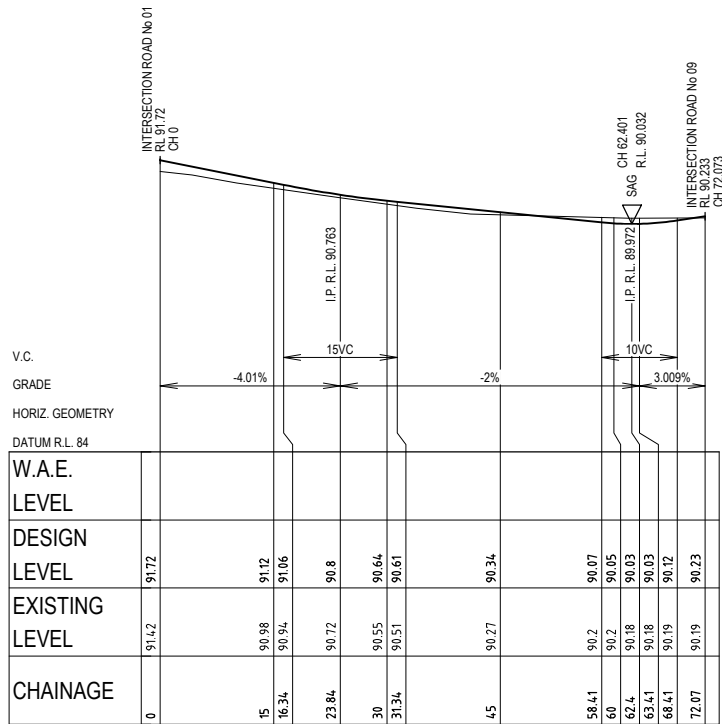
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SCALE 1:100 NATURAL



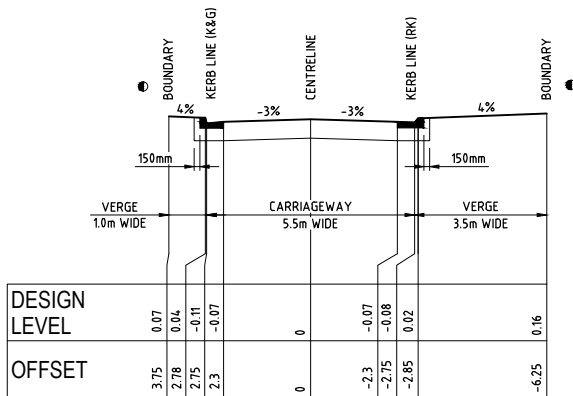
TYPICAL CROSS SECTION - ROAD No.14

SCALE 1:100 NATURAL



LONGITUDINAL SECTION CENTRELINE - ROAD No.18

SCALE 1:500 (H)
SCALE 1:100 (V)



TYPICAL CROSS SECTION - ROAD No.18

SCALE 1:100 NATURAL

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Manager - Urban Development

SIGN:

DATE:

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Project:

CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN



Drawing Title:

ROAD No.12, 13, 14 & 18
LONGITUDINAL SECTIONS

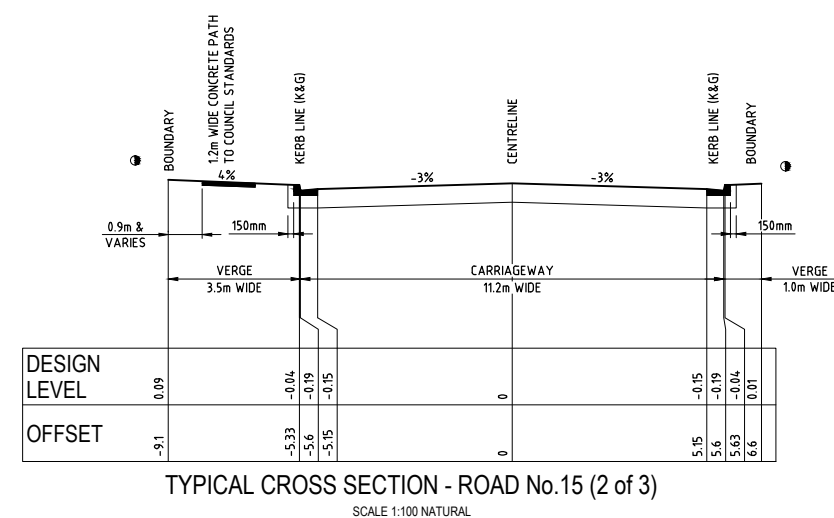
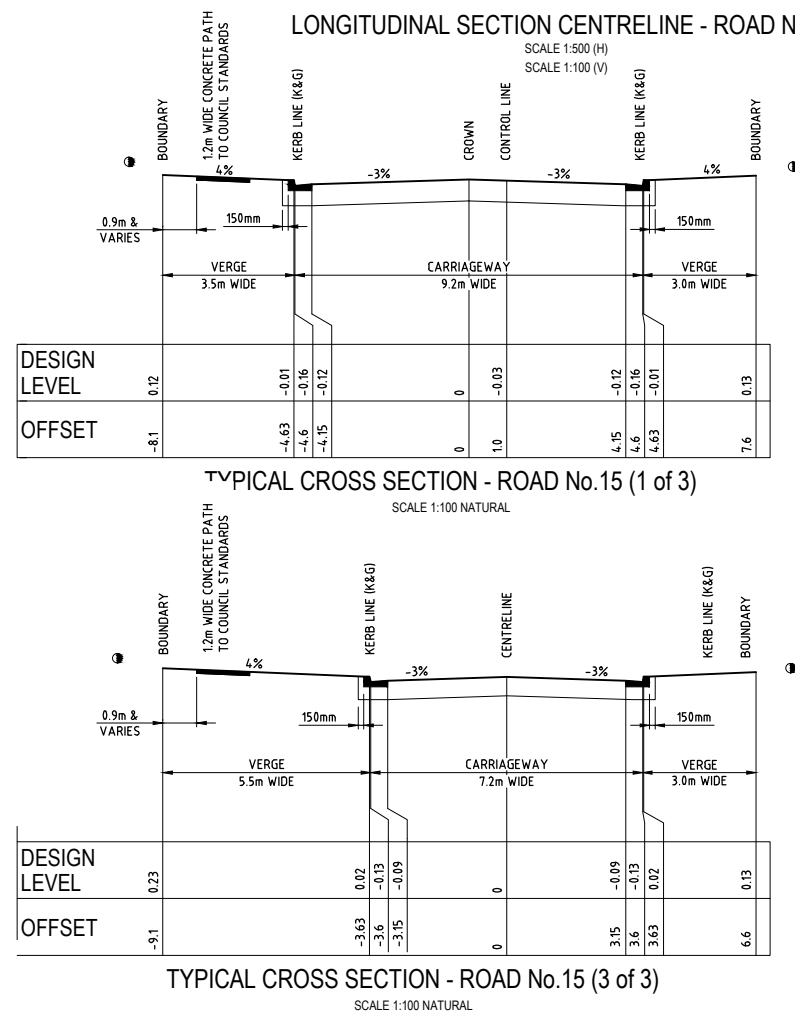
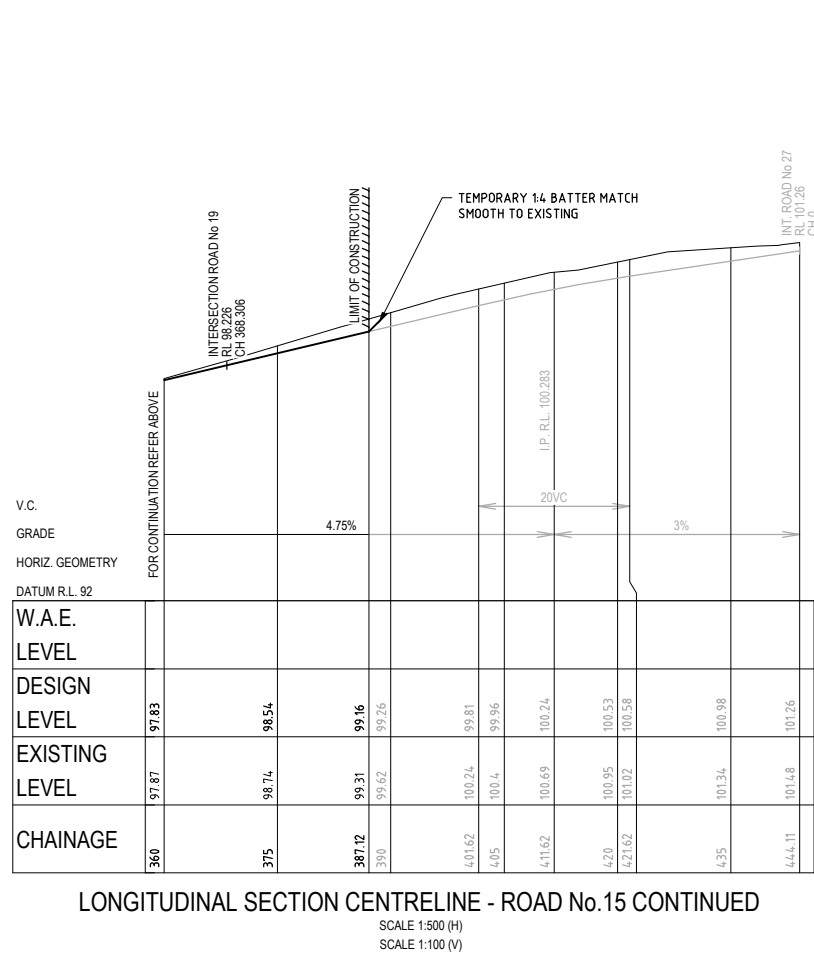
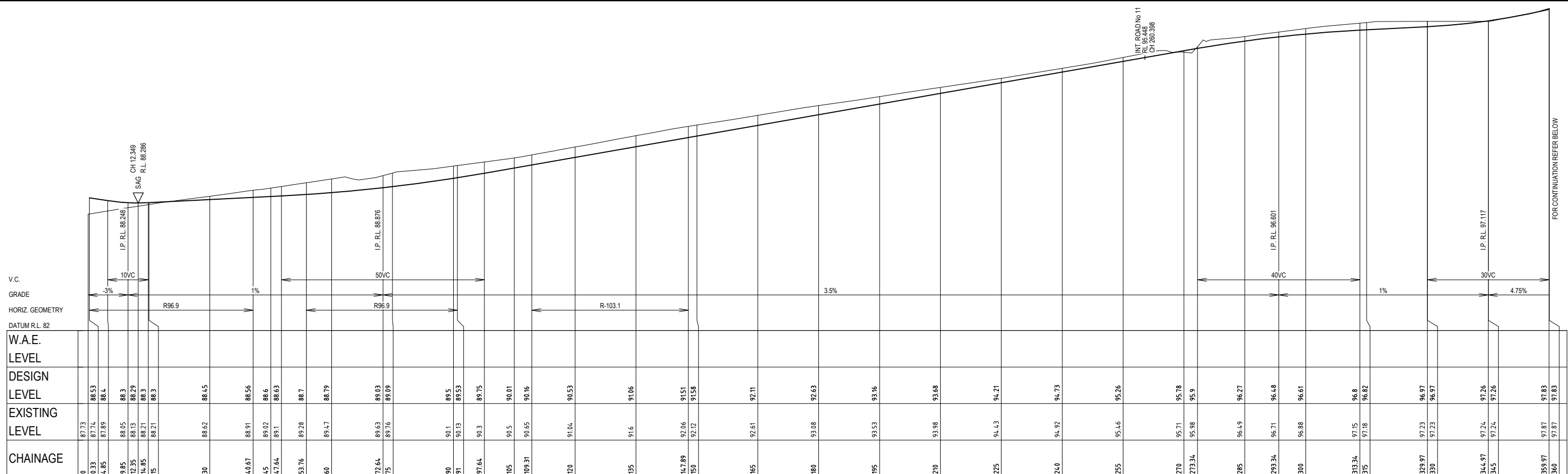
Project No.:
X12249.01

Stage:
1

Milestone:
DA

Dwg No.:
210

Revision:
6



FOR DEVELOPMENT APPLICATION

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SCALE 1:500 (A1)

SCALE 1:1000 (A3)

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SCALE 1:100 (A1)

SCALE 1:200 (A3)

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BY: **STUART GREEN**
FileAust. CPeng.
Manager - Urban Development

SIGN:

DATE: 26.8.14

Client:

HIXSON PTY. LTD.

Project:

CATHERINE PARK - STAGE 1, 2 & 3
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Drawing Title:
ROAD No.15 LONGITUDINAL &
TYPICAL CROSS SECTIONS

Project No.:

Stage:

Milestone:

Dwg No.:

Revision:

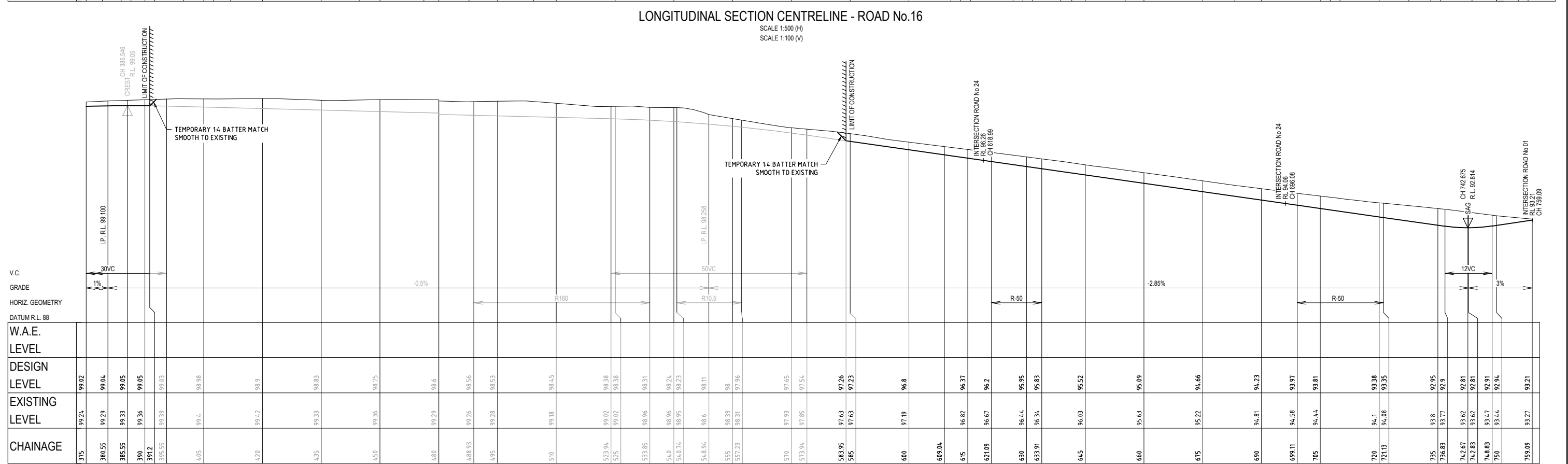
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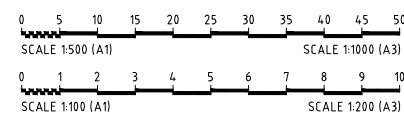


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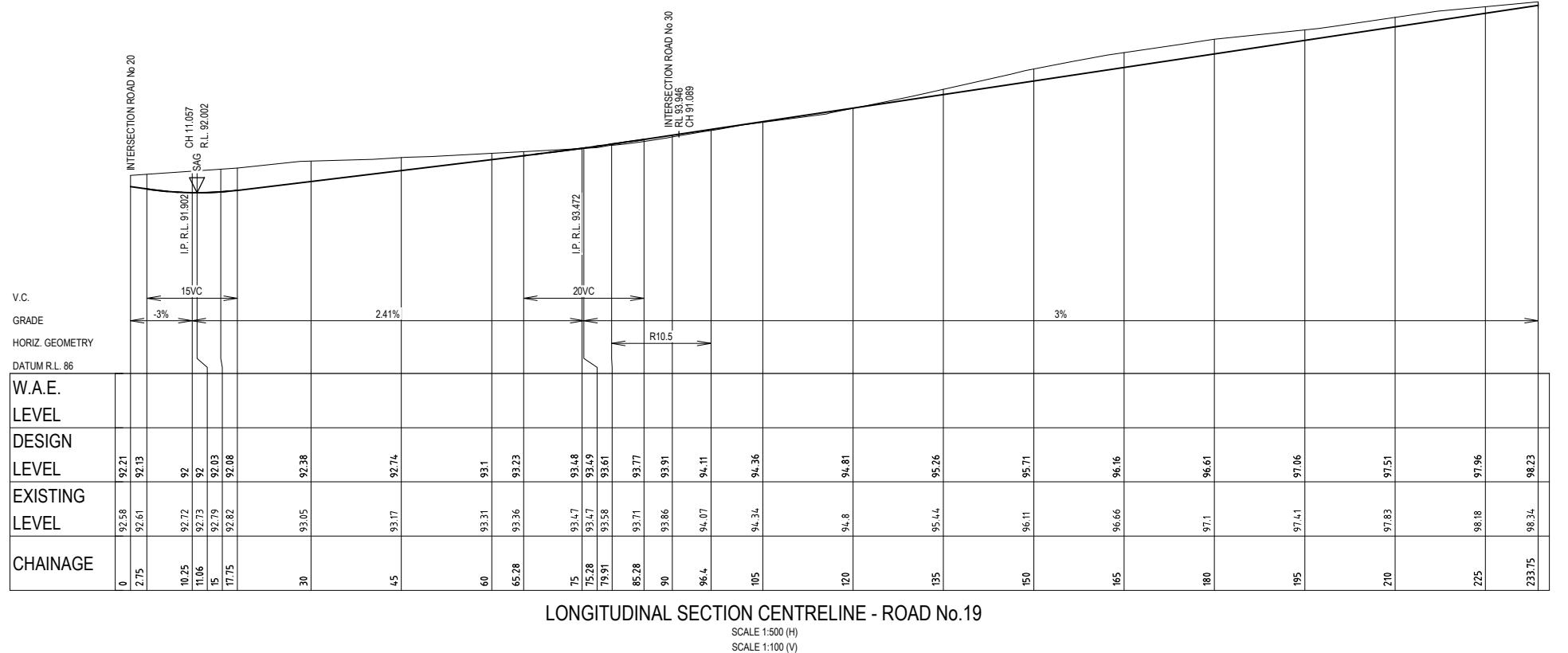
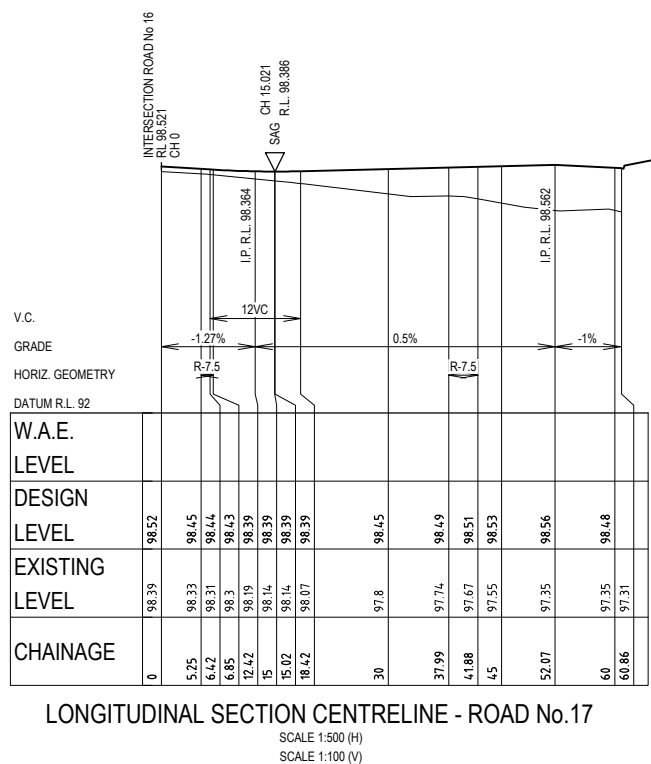
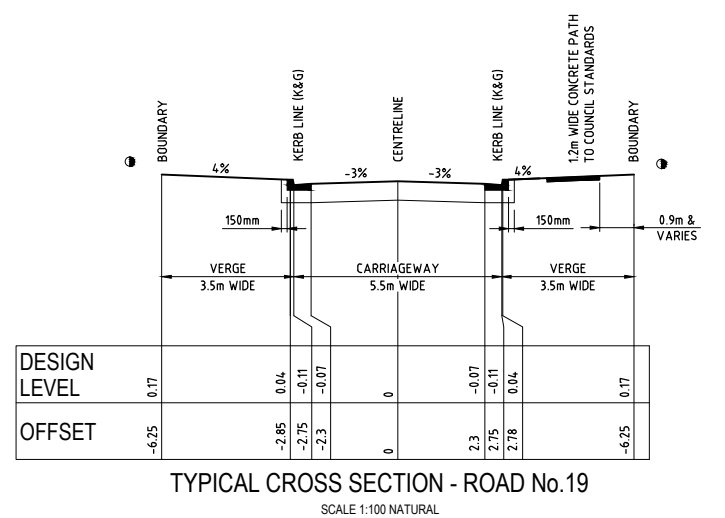
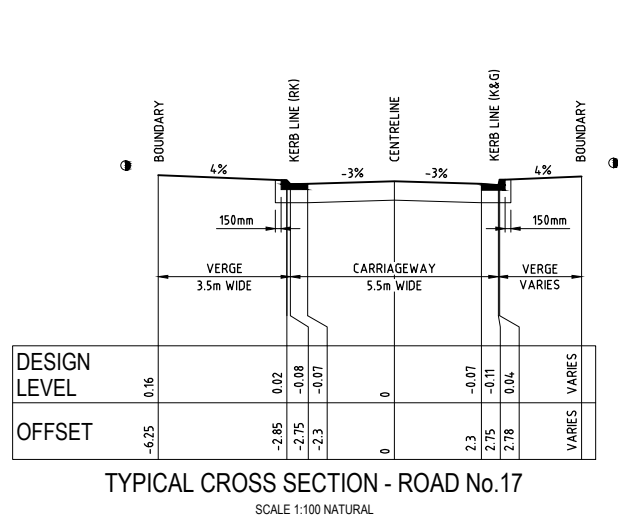
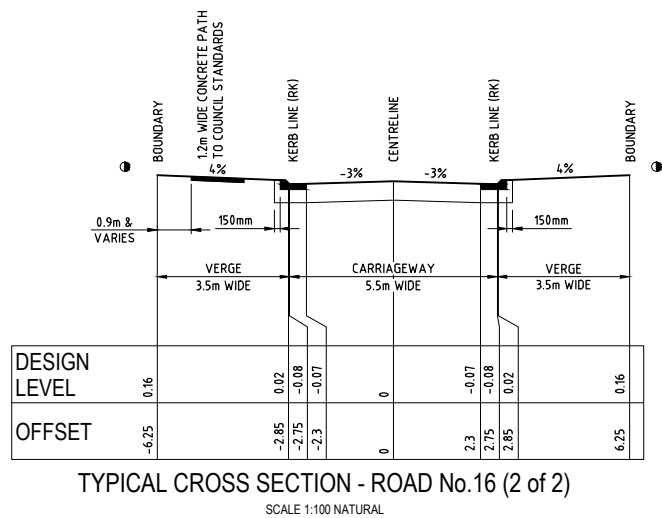
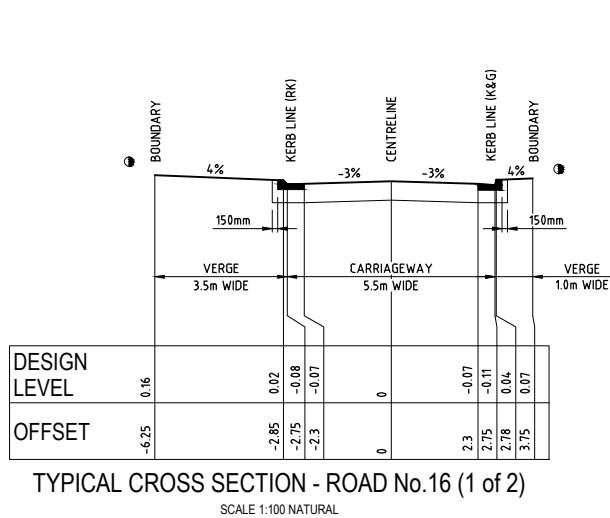
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BY: **STUART GREEN**
FIEAust. CPEng,
Manager - Urban Development
SIGN: 
DATE: 26.6.14

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| Client: | HIXSON PTY. LTD. |
| Project: | CATHERINE PARK - STAGE 1, 2 & 3 ROAD & DRAINAGE DESIGN |

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| First Issue | AW | DD | CB | SG | 4/10/2013 | | |
| | Drawn | Design | Check | Appd. | Date | | |
| Revision Details | | | | | | | |
| <div><div>05101520253035404550</div><div>SCALE 1:500 (A1)SCALE 1:1000 (A3)</div></div> <div><div>012345678910</div><div>SCALE 1:100 (A1)SCALE 1:200 (A3)</div></div> <div>Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY SUPERINTENDENT PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.</div> <div><div> CONSULT AUSTRALIA Member Firm</div><div> Quality System Quality Endorsed Company</div></div> <div>© Brown Consulting Pty Ltd</div> | | | | | | | |
| <div>Approval: BY: STUART GREEN FIEAust. CP Eng. Manager - Urban Development SIGN: </div> <div>DATE: 20.6.14</div> | | | | | | | |
| <div>Client: HIXSON PTY. LTD.</div> <div>Project: CATHERINE PARK - STAGE 1, 2 & 3 ROAD & DRAINAGE DESIGN</div> | | | | | | | |
| <div> ©2013 Smart Consulting www.brownconsulting.com.au</div> | | | | | | | |
| <div>Drawing Title: ROAD No.16, 17 & No.19 LONGITUDINAL & TYPICAL CROSS SECTIONS</div> <div>Project No.: X12249.01</div> <div>Stage: 1</div> <div>Milestone: DA</div> <div>Dwg No.: 213</div> <div>Revision: 6</div> | | | | | | | |

● SITE REGRADING REFER TO
DRAWING No.101 TO 106 FOR DETAILS

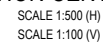


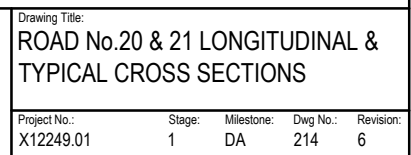
Figure 10.10 shows two graphical scales. The top scale is for 1:500 (A1) and 1:1000 (A3), with markings from 0 to 50. The bottom scale is for 1:100 (A1) and 1:200 (A3), with markings from 0 to 10. Both scales show a break between 0 and 5.

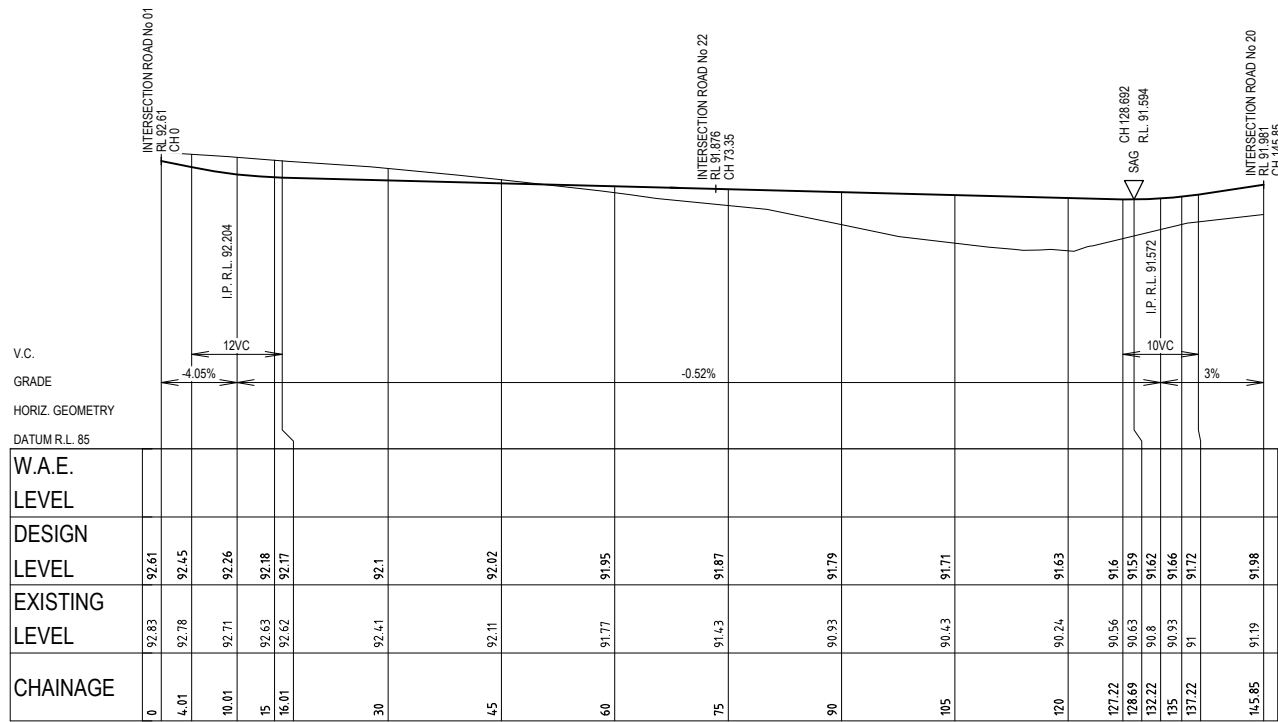
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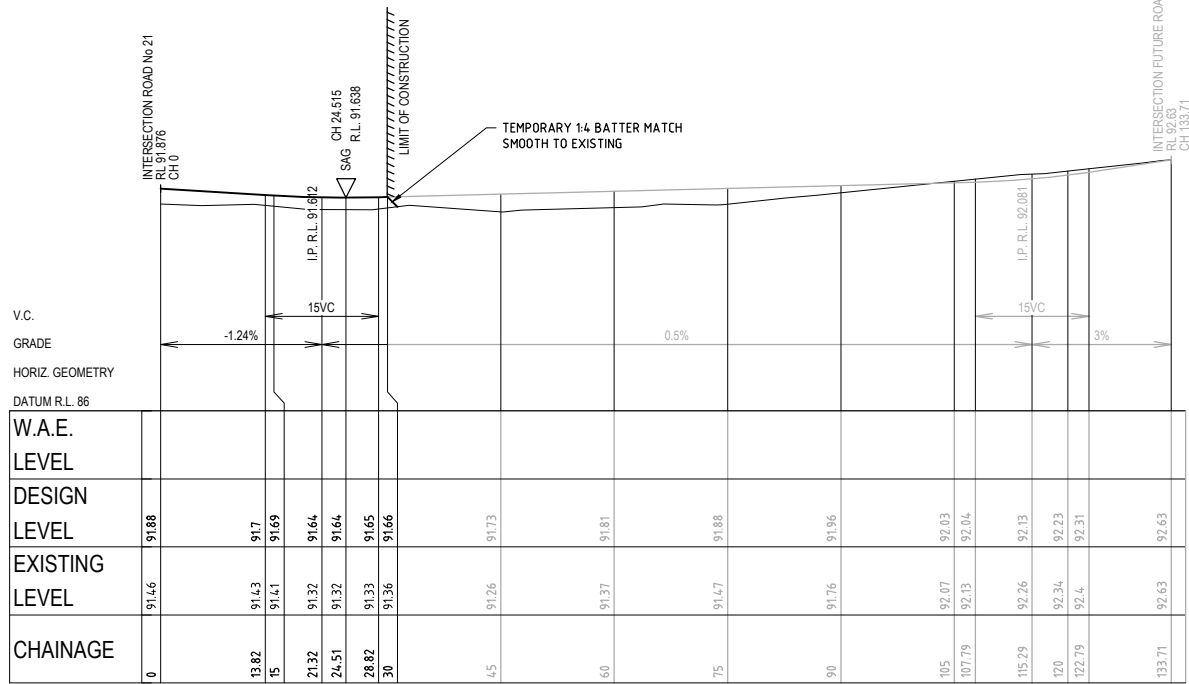
Project: CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN





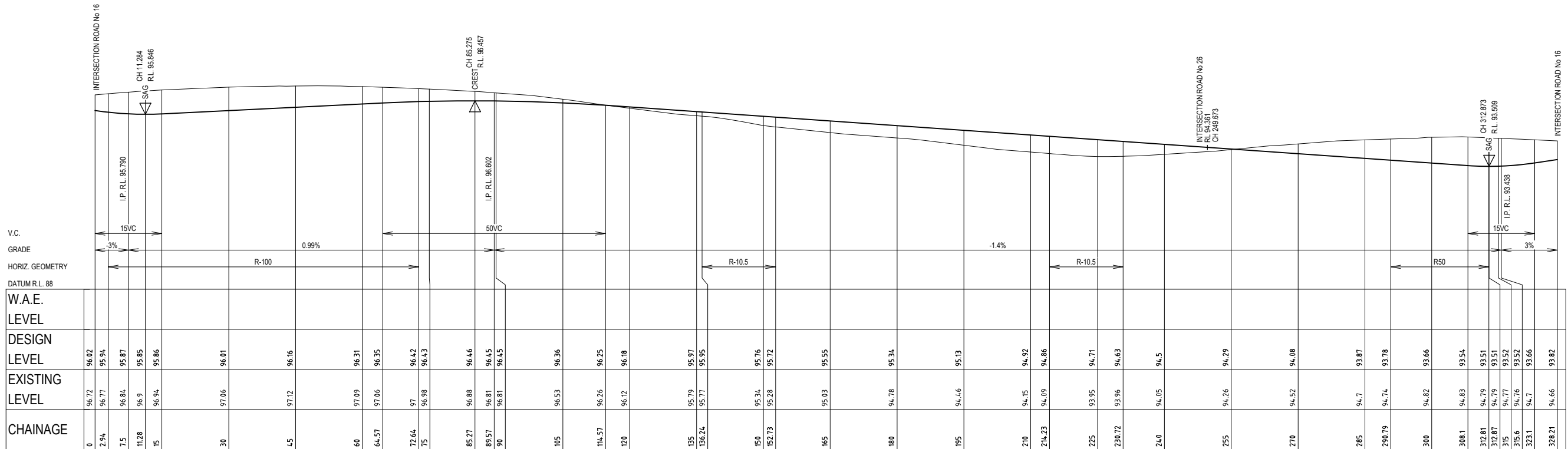
LONGITUDINAL SECTION CENTRELINE - ROAD No 21

SCALE 1:500 (H)
SCALE 1:100 (V)



LONGITUDINAL SECTION CENTRELINE - ROAD No 22

SCALE 1:500 (H)
SCALE 1:100 (V)

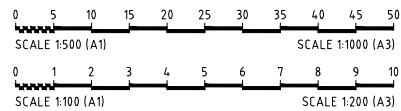


LONGITUDINAL SECTION CENTRELINE - ROAD No 23

SCALE 1:500 (H)
SCALE 1:100 (V)

FOR DEVELOPMENT APPLICATION

| Revisions | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------------|--|--|------------|------------|------------|------------|------------------|-----------|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | DD | TW | CB | SG | SG | SG | SG | SG | SG | SG |
| | | 11/12/2013 | 13/12/2013 | 18/12/2013 | 26/02/2014 | 26/05/2014 | 26/08/2014 | 4/10/2013 | | | |
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| | | ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED | | | | | | | | | |
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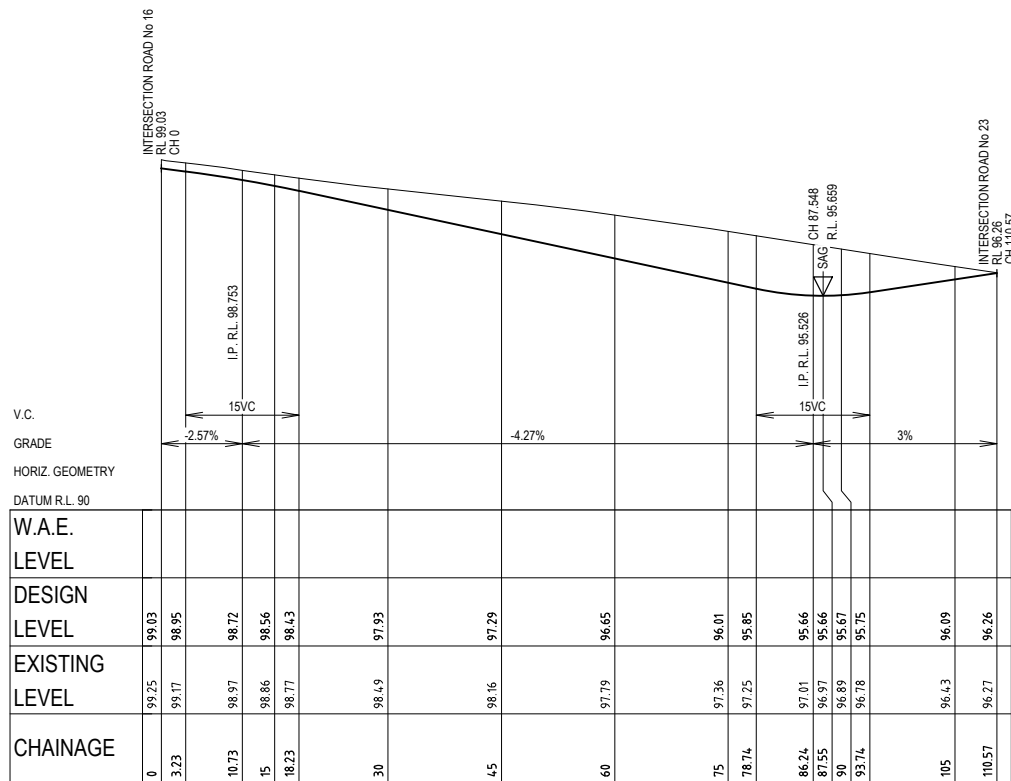
Approval:
BY: STUART GREEN
FIE Aust. CP Eng.
Manager - Urban Development
SIGN:
DATE: 20.6.14

Client:
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Project:
CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

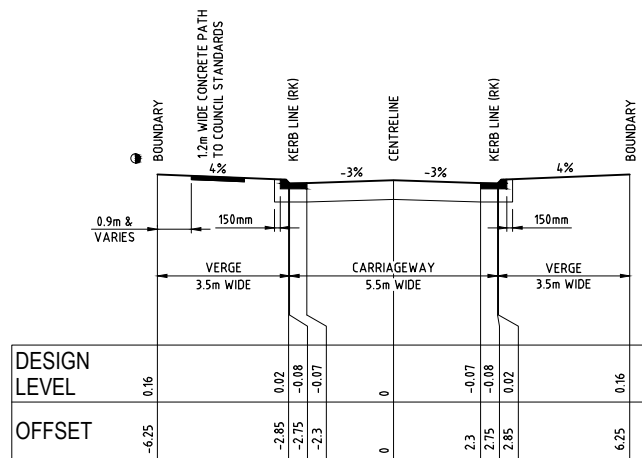


Drawing Title:
ROAD No.21, 22 & 23 LONGITUDINAL
SECTIONS
Project No.: X12249.01
Stage: 1
Milestone: DA
Dwg No.: 215
Revision: 6

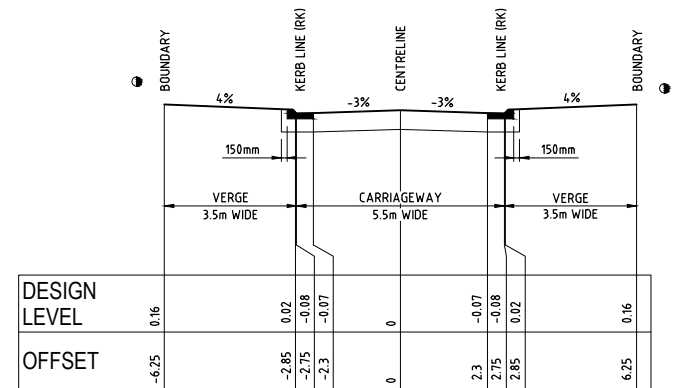
NOTE:
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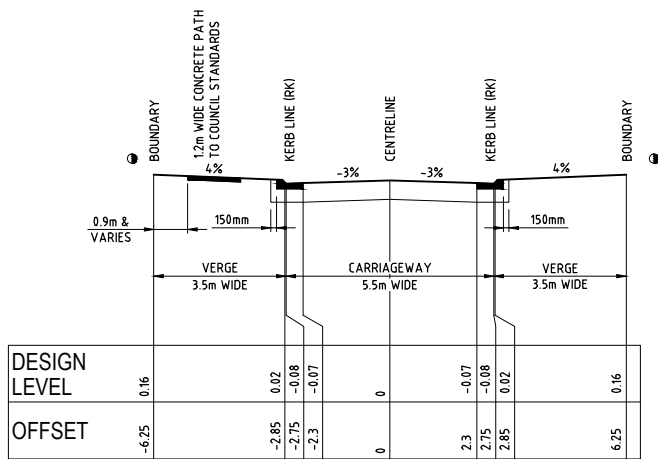
LONGITUDINAL SECTION CENTRELINE - ROAD No 24
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SCALE 1:100 (V)



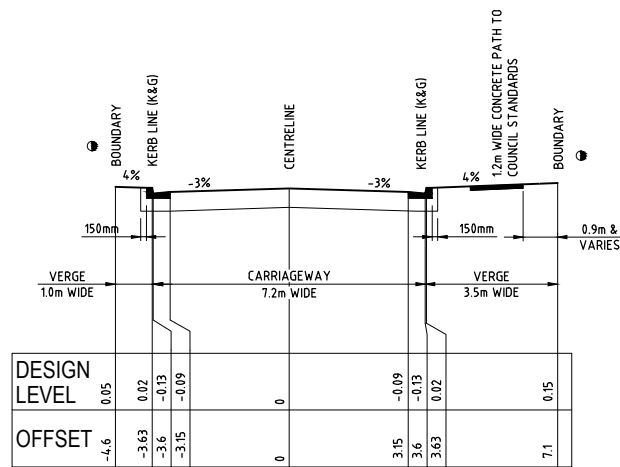
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SCALE 1:100 NATURAL



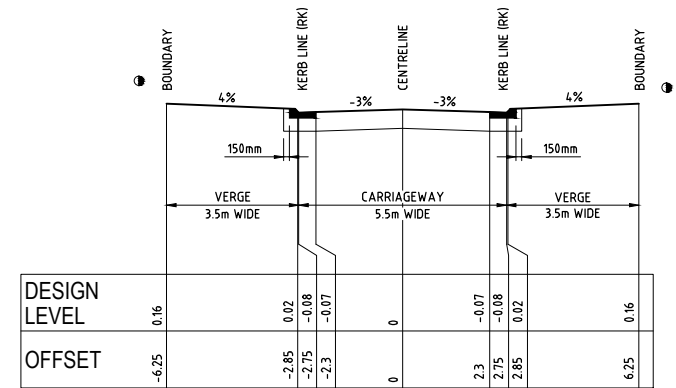
TYPICAL CROSS SECTION - ROAD No.22
SCALE 1:100 NATURAL



TYPICAL CROSS SECTION - ROAD No.23 (1 OF 3)
SCALE 1:100 NATURAL



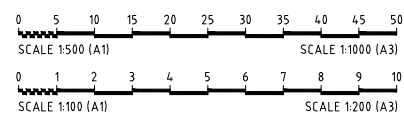
TYPICAL CROSS SECTION - ROAD No.23 (2 OF 3)
SCALE 1:100 NATURAL



TYPICAL CROSS SECTION - ROAD No.23 (3 OF 3)
SCALE 1:100 NATURAL

FOR DEVELOPMENT APPLICATION

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|-------------|-------|--------|-------|-------|------------|-------------------|---|
| Revisions | 1 | DD | | | 11/12/2013 | PRELIMINARY ISSUE | |
| | 2 | AW | TW | | | 13/12/2013 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 3 | JM | TW | CB | SG | 18/12/2013 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 4 | JM | TB | GM | SG | 26/02/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| | 5 | JM | DD | GM | SG | 26/05/2014 | ROADS 6, 7, 8 & 9 ROUNDABOUT LAYOUT UPDATED |
| | 6 | MG | DD | GM | SG | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
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FIEAust. CPEng.
Manager - Urban Development
SIGN:
DATE: 20.6.14

Client:
HIXSON PTY. LTD.
Project:
CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN



Drawing Title:
ROAD No.21, 22, 23 & 24
LONGITUDINAL & TYPICAL CROSS
SECTIONS
Project No.: X12249.01
Stage: 1
Milestone: DA
Dwg No.: 216
Revision: 6



| SEDIMENT & EROSION CONTROL LEGEND | |
|-----------------------------------|--|
| | SEDIMENT FENCE |
| | BARRIER FENCE |
| | INLET SEDIMENT TRAP DURING CONSTRUCTION, KERB INLET CONTROL AFTER CONSTRUCTION |
| | STABILISED SITE ACCESS |
| | CATCH DRAIN/DIVERSION BANK |
| | DISTURBED CATCHMENT BOUNDARY |

| Site area | Sub-catchment or Name of Structure | | Notes | |
|--|------------------------------------|-------|-------|--|
| Total catchment area (ha) | 1 | 2 | | |
| Disturbed catchment area (ha) | 9.42 | 47 | | |
| | 3.23 | 28.3 | | |
| Soil analysis (enter sediment type if known, or laboratory particle size data) | | | | |
| Sediment Type (C, F or D) if known | D | D | | From Appendix C (if known) |
| % sand (fraction 0.02 to 2.00 mm) | | | | Enter the percentage of each soil fraction. E.g. enter 10 for 10% |
| % silt (fraction 0.002 to 0.02 mm) | | | | |
| % clay (fraction finer than 0.002 mm) | | | | |
| Dispersion percentage | | | | E.g. enter 10 for dispersion of 10% |
| % of whole soil dispersible | | | | See Section 6.3.3(e). Auto-calculated |
| Soil Texture Group | D | D | | Automatic calculation from above |
| Rainfall data | | | | |
| Design rainfall depth (no of days) | 5 | 5 | | See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25. |
| Design rainfall depth (percentage) | 75 | 75 | | |
| x-day, y-percentage rainfall event (mm) | 20.2 | 20.2 | | |
| Rainfall R-factor (if known) | | | | Only need to enter one or the other here |
| IFD: 2-year, 5-hour storm (if known) | 9.5 | 9.5 | | |
| RUSLE Factors | | | | |
| Rainfall erosivity (R-factor) | 2020 | 2020 | | Auto-filled from above |
| Soil erodibility (K-factor) | 0.042 | 0.042 | | |
| Slope length (m) | 80 | 80 | | |
| Slope gradient (%) | 1 | 1 | | RUSLE LS factor calculated for a high hill/sloped ratio. |
| Length/gradient (LS-factor) | 0.19 | 0.19 | | |
| Erosion control practice (P-factor) | 1.3 | 1.3 | 1.3 | 1.3 |
| Ground cover (C-factor) | 1 | 1 | 1 | 1 |
| Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins) | | | | |
| Storage (soil) zone design (no of months) | 2 | 2 | | Minimum is generally 2 months |
| Cv (Volumetric runoff coefficient) | 0.5 | 0.5 | | See Table F2, page F-4 in Appendix F |
| Calculations and Type D/F Sediment Basin Volumes | | | | |
| Soil loss (t/ha/yr) | 21 | 21 | | |
| Soil Loss Class | 1 | 1 | | See Table 4.2, page 4-13 |
| Soil loss (m ³ /ha/yr) | 16 | 16 | | Conversion to cubic metres |
| Sediment basin storage (soil) volume (m ³) | 9 | 77 | | See Sections 6.3.4(i) for calculations |
| Sediment basin settling (water) volume (m ³) | 951 | 4747 | | See Sections 6.3.4(i) for calculations |
| Sediment basin total volume (m ³) | 960 | 4824 | | |

NB for sizing of Type C (coarse) sediment basins, see Worksheet 3 (if required).

1 DD 11/12/2013 PRELIMINARY ISSUE

2 AW TW 13/12/2013 ISSUED FOR DEVELOPMENT APPLICATION

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4 JM TB GM SG 26/02/2014 ISSUED FOR DEVELOPMENT APPLICATION

5 JM DD GM SG 26/05/2014 ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED

6 MG DD GM SG 26/08/2014 ISSUED FOR DEVELOPMENT APPLICATION

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0 20 40 60 80 100 120 140 160 180 200

SCALE 1:2000 (A1)

SCALE 1:4000 (A3)

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Manager - Urban Development

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DATE: 20.6.14

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Project:
CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

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Drawing Title:
SEDIMENT & EROSION CONTROL
PLAN

Project No.:
X12249.01

Stage:
1

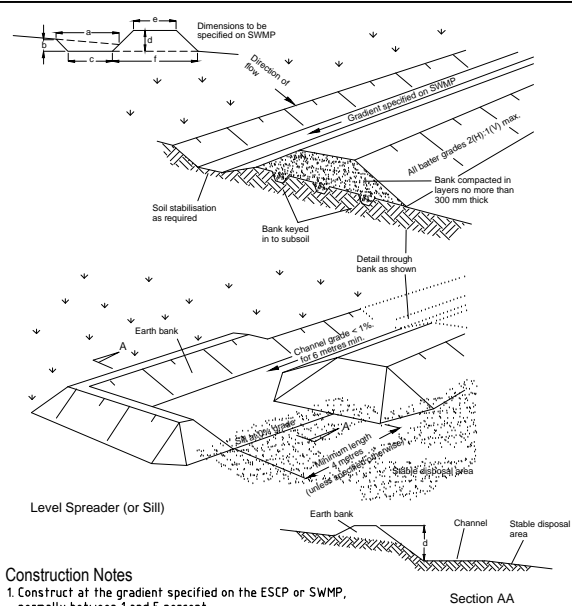
Milestone:
DA

Dwg No.:
701

Revision:
6

SEDIMENT & EROSION CONTROL NOTES

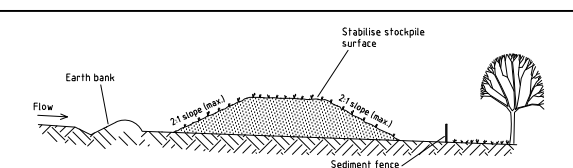
- THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF ANY WORKS BEING CARRIED OUT. ALL SOIL AND EROSION MEASURES SHALL BE MAINTAINED AND KEPT IN PLACE FOR THE FULL DURATION OF THE WORKS AND SHALL ONLY BE REMOVED AT FINAL STABILISATION OF THE WORKS. WHERE IT IS NECESSARY TO UNDERTAKE STRIPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL DEVICE ONLY SUFFICIENT GROUND SHALL BE STRIPPED TO ALLOW CONSTRUCTION.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AS INDICATED ON THESE DRAWINGS. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT.
- CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY NECESSARY CONTROL IS IN PLACE EVEN THOUGH SUCH CONTROL MAY NOT BE SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS AND ALL EMPLOYEES OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSTREAM AREAS
- APART FROM SEDIMENT BASINS, THE CONTRACTOR SHALL REGULARLY MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES AND DESILT SUCH STRUCTURES PRIOR TO THE REDUCTION IN CAPACITY OF 30% DUE TO ACCUMULATED SEDIMENT. THE SEDIMENT SHALL BE DISPOSED OF ON SITE IN A MANNER APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL TEMPORARILY REHABILITATE WITHIN TEN (10) DAYS ANY DISTURBED AREAS PROVIDING A MINIMUM 60% COVER. FINAL REHABILITATION IS TO BE PROVIDED WITHIN A FURTHER 60 DAYS WITH A MINIMUM 70% COVER.
- THE CONTRACTOR SHALL PROVIDE WATERING OF THE VEGETATED BATTERS FOR MAINTENANCE PERIOD. PLANT, MACHINERY AND VEHICLES SHALL NOT BE DRIVEN OVER GRASSED AREAS UNLESS ON AN APPROVED HAULAGE ROUTE.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS QUICKLY AS POSSIBLE TO MINIMISE RISK OF EROSION.
- SITE ACCESS SHALL BE RESTRICTED TO THE NOMINATED POINTS. THE CONTRACTOR SHALL PROVIDE STABILISED SITE ACCESS.
- DUST AND SITE DISTURBANCE MUST BE KEPT TO A MINIMUM. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS MUST BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO REDUCE WIND EROSION. ERECT BARRIER FENCING TO MINIMISE LAND DISTURBANCE BY PREVENTING VEHICULAR AND PEDESTRIAN ACCESS TO AREAS BEING REHABILITATED AND LANDS THAT DO NOT NEED TO BE DISTURBED BY THIS PROJECT.
- STOCKPILE TOPSOILS, SUBSOILS AND OTHER MATERIALS SEPARATELY.
- TOPSOIL SHALL BE STORED IN LOW MOUNDS NO MORE THAN 2 METRES HIGH AND RE-USED WITHIN TWO MONTHS TO MAINTAIN ACTIVE POPULATIONS OF BENEFICIAL SOIL MICROBES AND SEED.
- PLACE ALL STOCKPILES AT LEAST FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS, ESPECIALLY EARTH BANKS AND ROADS. IF NECESSARY, EARTH BANKS OR DRAINS WILL BE CONSTRUCTED TO DIVERT LOCALISED RUN-ON.
- TURN TOPSOIL STOCKPILES OVER TO AERATE THEM AT MONTHLY INTERVALS. ENSURE VEGETATION IS NOT INCORPORATED INTO THE SOIL.



- 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.

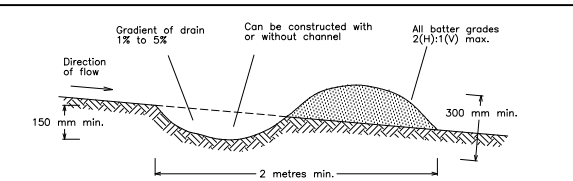
EARTH BANK (HIGH FLOWS) SD 5-6

- AVOID REVERSING THE SOIL PROFILE MATERIALS DURING FILL OPERATIONS - REPLACE DISTURBED SOILS IN THEIR ORIGINAL ORDER.
- ON COMPLETION OF MAJOR EARTHWORKS AND BEFORE ADDING TOPSOIL, LEAVE DISTURBED LANDS WITH A LOOSE SURFACE. ALTERNATELY, DISTURBED AREAS PREVIOUSLY COMPACTED BY CONSTRUCTION WORKS WILL BE RIPPED TO MORE THAN 200-MM ALONG THE CONTOUR BEFORE APPLYING TOPSOIL
- PROVIDING MATERIALS ARE AVAILABLE, SPREAD TOPSOIL TO A MINIMUM DEPTH OF 75mm IN REVEGETATION AREAS ON SLOPES OF 4(H):1(V) OR LESS AND TO A DEPTH OF 40 TO 60mm IN REVEGETATION AREAS STEEPER THAN 4:1.
- LEAVE TOPSOIL IN A SCARIFIED OR ROUGH CONDITION ONCE REPLACED TO HELP MOISTURE INFILTRATION AND REDUCE SOIL EROSION.
- ENSURE SOIL IS THOROUGHLY SOAKED TO A DEPTH OF 75mm (RAIN OR IRRIGATION) IMMEDIATELY BEFORE PLANTING.
- HANDLE TOPSOIL ONLY WHEN IT IS MOIST (NOT WET OR DRY) TO AVOID DECLINE OF SOIL STRUCTURE
- THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING:
 - RECORDS OF ALL RAINFALL
 - CONDITION OF SOIL AND WATER MANAGEMENT STRUCTURES
 - ANY APPLICATION OF FLOCCULATING AGENTS TO SEDIMENT BASIN
 - VOLUMES OF ALL WATER DISCHARGED FROM SEDIMENT BASINS
 - ANY ADDITIONAL REMEDIAL WORKS REQUIRED.
- THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL LOG BOOK SHALL BE ISSUED TO THE PROJECT MANAGER AT THE COMPLETION OF WORKS
- ALL ROAD EMBANKMENTS TO BE STABILISED AS PER LANDSCAPE ARCHITECTS DETAILS.
- A SELF AUDITING PROGRAM SHOULD BE ESTABLISHED BASED ON A CHECK SHEET DEVELOPED FOR THE SITE. A SITE INSPECTION USING THE CHECK SHEET SHOULD BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE AND IMMEDIATELY FOLLOWING RAINFALL EVENTS THAT CAUSE RUNOFF.
- UNDERTAKE THE SELF AUDIT BY:
 - WALKING AROUND THE SITE SYSTEMATICALLY (E.G. CLOCKWISE)
 - RECORDING THE CONDITION OF EVERY BMP EMPLOYED
 - RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH BMP
 - RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
 - FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER/SITE OPERATOR FOR THEIR INFORMATION
- IN PARTICULAR, INSPECT:
 - LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE
 - ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES, ENSURING THEY ARE OPERATING CORRECTLY
 - AREAS THAT MIGHT SHOW WHETHER SEDIMENT OR OTHER POLLUTANTS ARE LEAVING THE SITE OR HAVE POTENTIAL TO DO SO
 - ALL DISCHARGE POINTS, TO ASSESS WHETHER THE EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO THE RECEIVING WATERS
- A SITE INSPECTION USING THE CHECK SHEET WILL BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE, AND IMMEDIATELY FOLLOWING RAINFALL EVENTS GREATER THAN 5mm IN 24 HOURS.



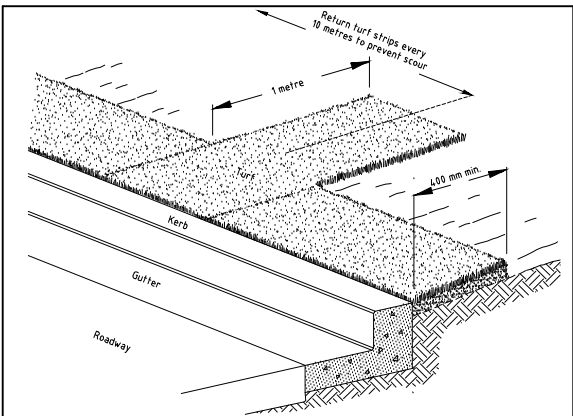
- Construction Notes**
- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
 - Construct on the contour as low, flat, elongated mounds.
 - Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
 - 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.

STOCKPILES SD 4-1



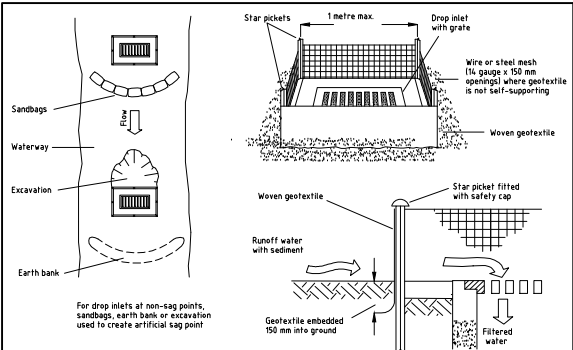
- Construction Notes**
- Build with gradients between 1 percent and 5 percent.
 - Avoid removing trees and shrubs if possible - work around them.
 - Ensure the structures are free of projections or other irregularities that could impede water flow.
 - Build the drains with circular, parabolic or trapezoidal 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



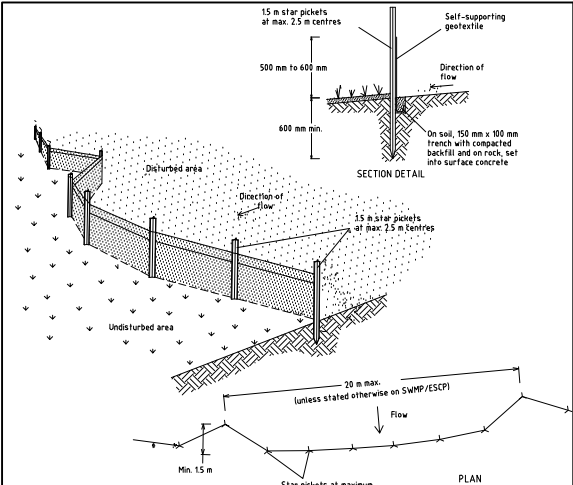
- Construction Notes**
- Install a 400 mm minimum wide roll of turf on the footpath next to the kerb and at the same level as the top of the kerb.
 - Lay 14 metre long turf strips normal to the kerb every 10 metres.
 - Rehabilitate disturbed soil behind the turf strip following the ESCP/SWMP.

KERBSIDE TURF STRIP SD 6-13



- Construction Notes**
- Fabricate a sediment barrier made from geotextile or straw bales.
 - Follow Standard Drawing 6-8 for installation procedures for 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 FILTER SD 6-12



- 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 15 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.

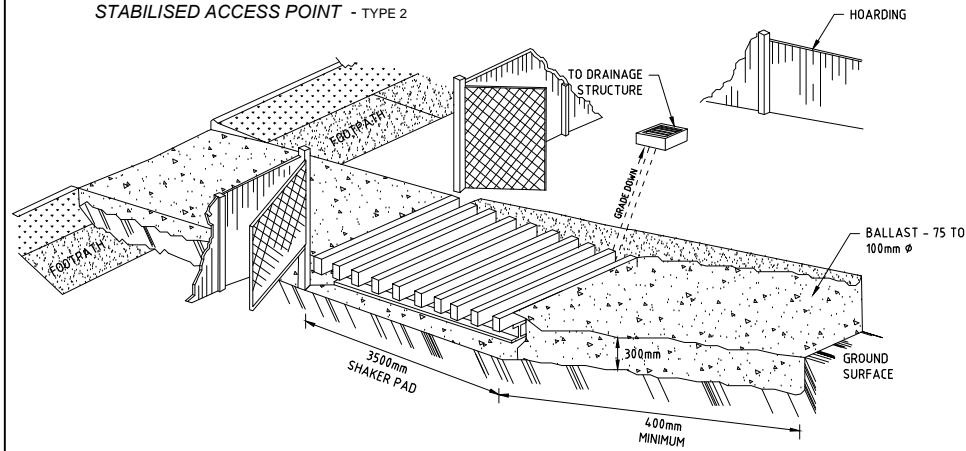
SEDIMENT FENCE SD 6-8

STABILISED ACCESS POINT

TYPE II SAP

THE TYPE II SAP DESIGN IS MORE DEFINED IN THAT IT REQUIRES AN AREA OF BALLAST WITHIN THE SITE COMBINED WITH A SHAKER PAD, ADJACENT THE SHAKER PAD AND IN THE PUBLIC WAY IS A TEMPORARY (CONCRETE) VEHICULAR CROSSING. (SEE DIAGRAM)

STABILISED ACCESS POINT - TYPE 2



IN BOTH TYPE I AND TYPE II SAP'S, THE TEMPORARY VEHICULAR CROSSING MUST:

- CONNECT TO AN EXISTING GUTTER LAYBACK (WHERE THE KERB AND GUTTER EXIST). IF A GUTTER LAYBACK DOES NOT EXIST THEN THE CONNECTION MUST BE MADE TO THE GUTTER BY REMOVING THE ADJACENT KERB SECTION ONLY.
- CONNECT TO A DISH CROSSING (WHERE KERB AND GUTTER DOES NOT EXIST). IF A DISH CROSSING DOES NOT EXIST, THEN IT MUST BE CONSTRUCTED IN ACCORDANCE WITH DETAILS CONTAINED IN COUNCIL'S ISSUED FOOTPATH CROSSING LEVELS.

IT SHOULD BE NOTED THAT THESE TYPES OF SAPS ARE CONSIDERED TO BE APPLICABLE FOR THE MAJORITY OF ACTIVITIES HOWEVER SOME SITES MAY REQUIRE SPECIAL CONSIDERATION.

SHAKER PAD (CATTLE GRID)

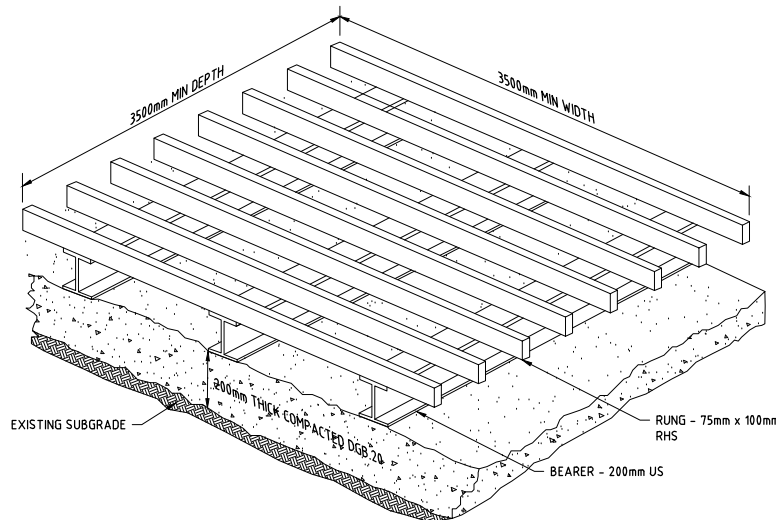
A CORRECTLY DESIGNED AND INSTALLED SHAKER PAD WILL ASSIST IN PREVENTING SEDIMENT TRANSFERRE FROM A SITE. ANY STABILISED ACCESS POINT (SAP) CAN BE DESIGNED WITH A SHAKER PAD (COMPULSORY IN TYPE II SAP'S)

SHAKER PADS CAN BE DESIGNED AND CONSTRUCTED TO ENABLE RE-USE ON FUTURE PROJECTS.

THE SHAKER PAD:

- MUST BE DESIGNED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER. THE CERTIFIED DESIGN SHOULD BE SUBMITTED WITH THE RELEVANT APPLICATION.
- CAN BE CONSTRUCTED FROM ANY SUITABLE MATERIAL.
- MUST BE LOCATED ON A SUITABLY PREPARED AND COMPACTED SUB-GRADE/BASE MATERIAL.
- MUST BE SITUATED SUCH THAT THE RUNGS OF THE SHAKER PAD ARE LEVEL WITH THE ADJOINING NATURAL SURFACE.
- MUST BE A MINIMUM OF 3.5m IN LENGTH.
- MUST BE A MINIMUM OF 3.5m IN WIDTH.
- MUST HAVE CLEAR SPACING BETWEEN RUNGS OF 200 - 250mm.
- RUNGS MUST HAVE A MAXIMUM WIDTH (BEARING AREA) OF 75mm.
- MUST HAVE A MINIMUM CLEAR DEPTH OF 300mm IE FORM THE TOP OF THE RUNG TO THE FINISHED SUB-GRADE/BASE LEVEL.

THE SHAKER PAD MUST BE PROVIDED WITH SUITABLE BARRIERS AT THE SIDES TO ENSURE THAT ALL TYRES OF VEHICLES LEAVING THE SITE TRAVERSE THE DEVICE.



FOR DEVELOPMENT APPLICATION

FILE: X12249.01 - SOUTH CATHURNE FIELDS PROPOSED STAGE 1, 2 & 3 ROAD & DRAINAGE DESIGN - PRINTED: 10/10/2013 - USER: MICHAEL GARNER

| | | | | | |
|------------------|--------|-------|-------|------------|--|
| 1 | DD | | | 11/12/2013 | PRELIMINARY ISSUE |
| 2 | AW | TW | | 13/12/2013 | ISSUED FOR DEVELOPMENT APPLICATION |
| 3 | JM | TW | CB | 18/12/2013 | ISSUED FOR DEVELOPMENT APPLICATION |
| 4 | JM | TB | GM | 26/02/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 5 | JM | DD | GM | 26/05/2014 | ROADS 6, 7, 8, 9 & ROUNDABOUT LAYOUT UPDATED |
| 6 | MG | DD | GM | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| First Issue | AW | DD | CB | SG | 4/10/2013 |
| Draw | Design | Check | Appd. | Date | |
| Revision Details | | | | | |

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Approval:
BY: STUART GREEN
FIE Aust. CP Eng.
Manager - Urban Development
SIGN:
DATE: 20.6.14

Client:

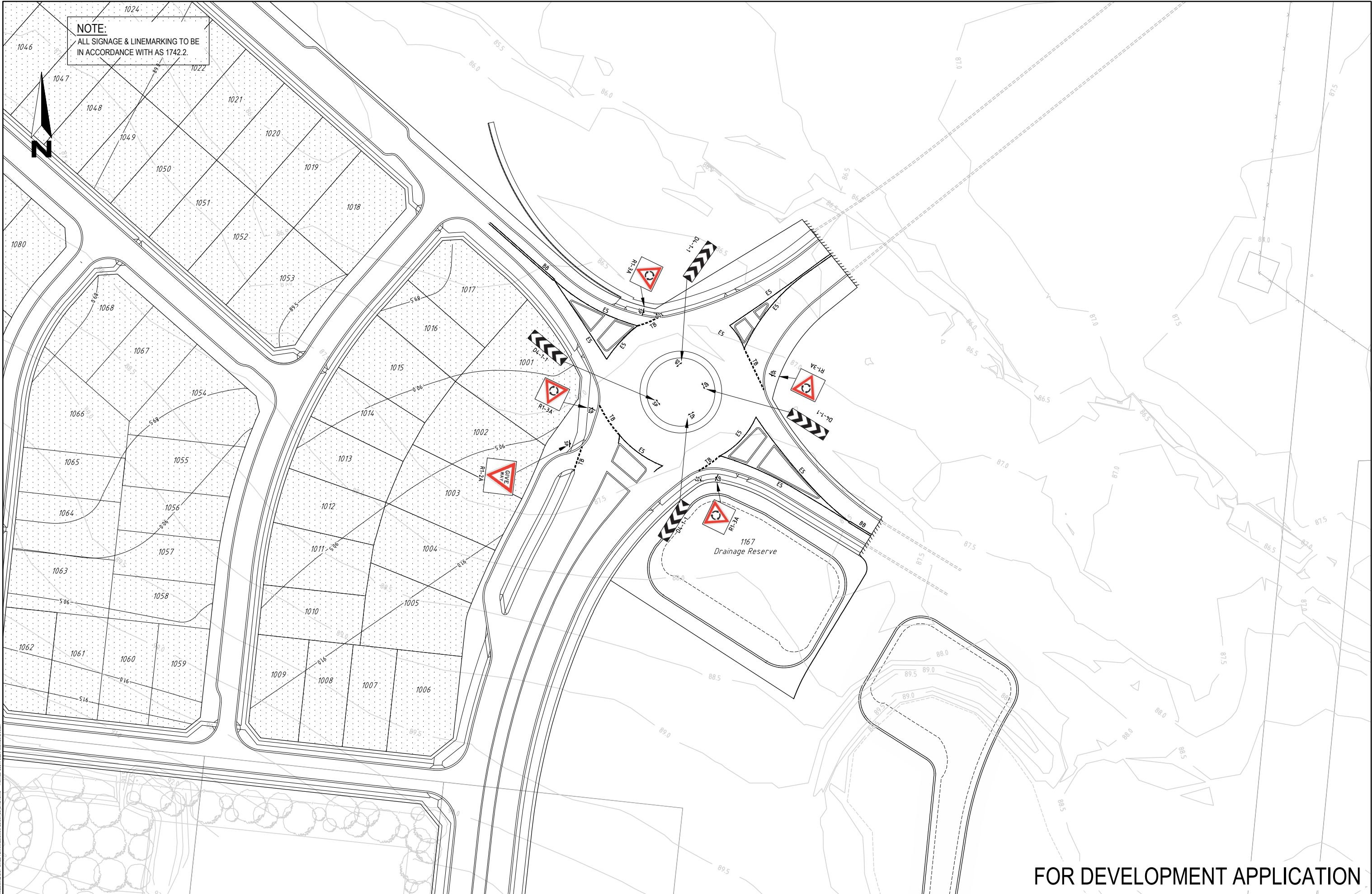
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Project:

CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

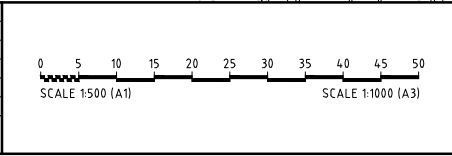


| | | | | | |
|----------------|--|-----------|---|------------|----|
| Drawing Title: | SEDIMENT & EROSION CONTROL NOTES & DETAILS | | | | |
| Project No.: | X12249.01 | Stage: | 1 | Milestone: | DA |
| Dwg No.: | 702 | Revision: | 6 | | |



FOR DEVELOPMENT APPLICATION

| | | | | | | |
|-------------|-------|--------|-------|-------|------------|--|
| Revisions | 1 | DD | | | 11/12/2013 | PRELIMINARY ISSUE |
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| | 6 | MG | DD | GM | 26/08/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| First Issue | AW | DD | CB | SG | 4/10/2013 | Revision Details |
| Issue | Drawn | Design | Check | Appd. | Date | |



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FIE Aust. CP Eng.
Manager - Urban Development
SIGN: [Signature]
DATE: 20.6.14

Client:
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Project:
CATHERINE PARK - STAGE 1, 2 & 3
ROAD & DRAINAGE DESIGN

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Drawing Title:
SIGNAGE & LINEMARKING PLAN

| | | | | |
|---------------------------|-------------|------------------|-----------------|----------------|
| Project No.: X12249.01 | Stage: 1 | Milestone: DA | Dwg No.: 801 | Revision: 6 |
|---------------------------|-------------|------------------|-----------------|----------------|

