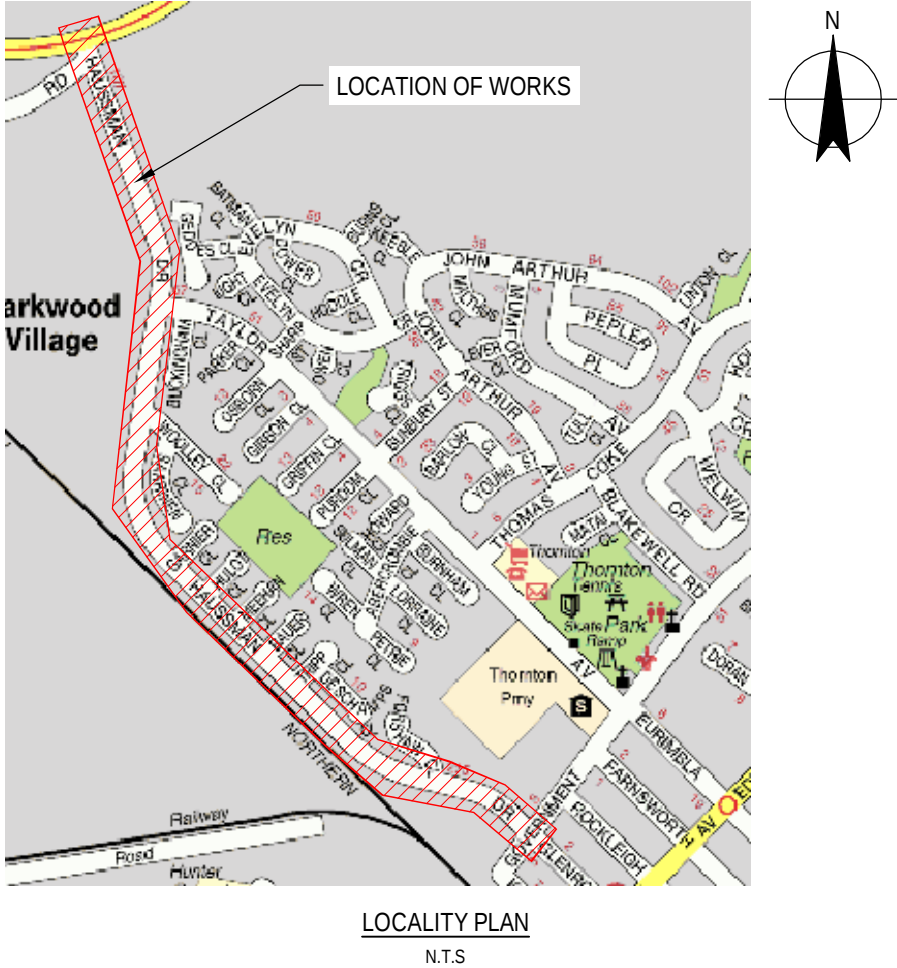


MAITLAND CITY COUNCIL

HAUSSMAN DRIVE ROAD UPGRADE

CONCEPT DESIGN

22-18378



PRELIMINARY

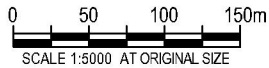
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PLAN
SCALE 1:5000

PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17		
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17		
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date



GHD Tower, Level 3
24 Honeysuckle Drive, Newcastle NSW 2300 Australia
PO Box 5403 Hunter Rgn Mail Cent, NSW 2310
T 61 2 4979 9999 F 61 2 4979 9988
E ntmall@ghd.com W www.ghd.com

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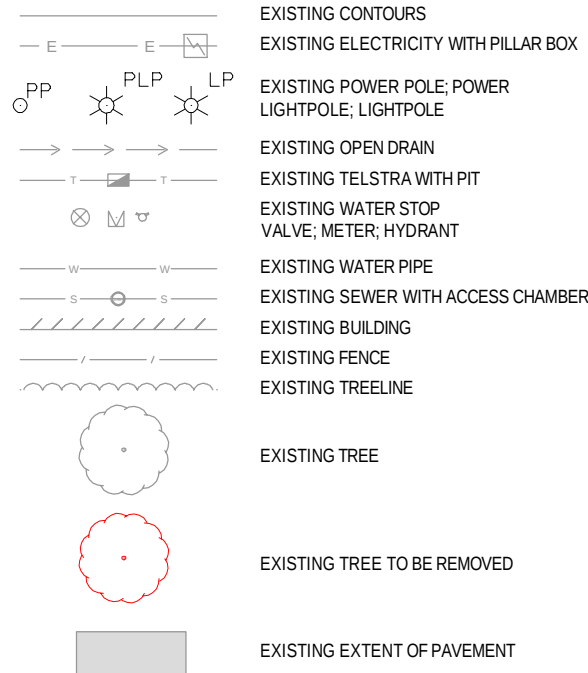
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Drawn	R. COCKS	Designer	N. HINCKS
Drafting		Design	
Check		Check	
Approved		(Project Director)	
Date			
Scale	AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	

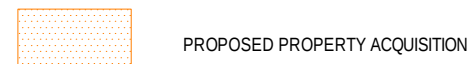
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Project	HAUSSMAN DRIVE ROAD UPGRADE		
Title	GENERAL ARRANGEMENT PLAN		
Original Size	A3	Drawing No:	22-18378-C003
Rev:	C		

SURVEY

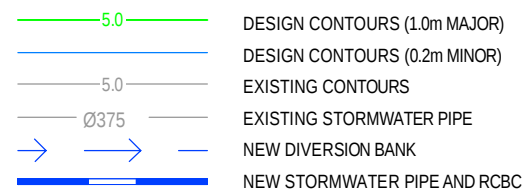
SURVEY



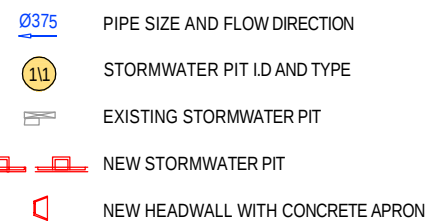
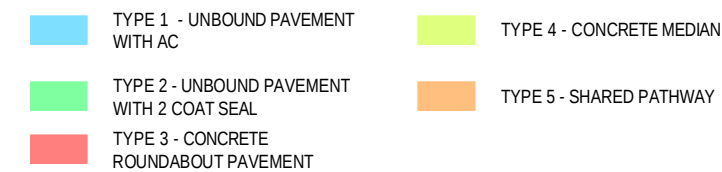
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DRAINAGE



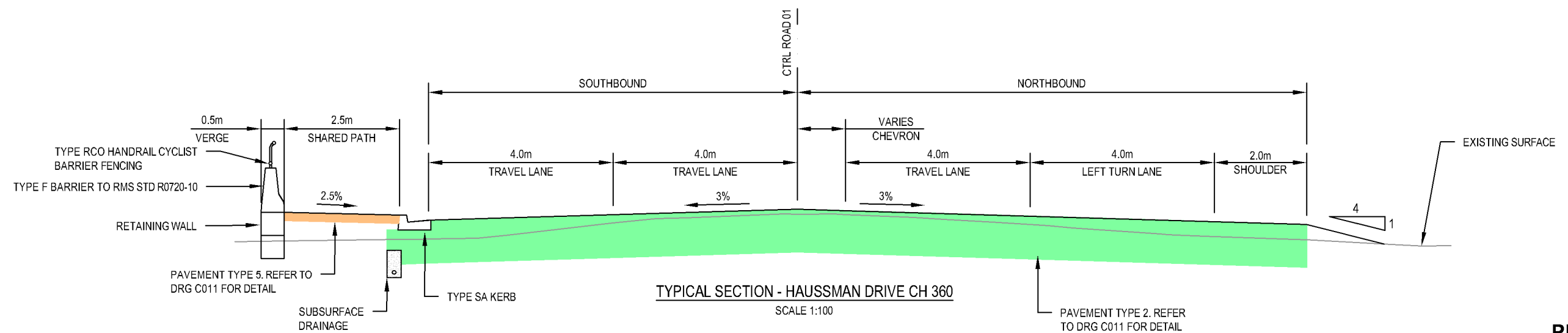
PAVEMENT



PRELIMINARY

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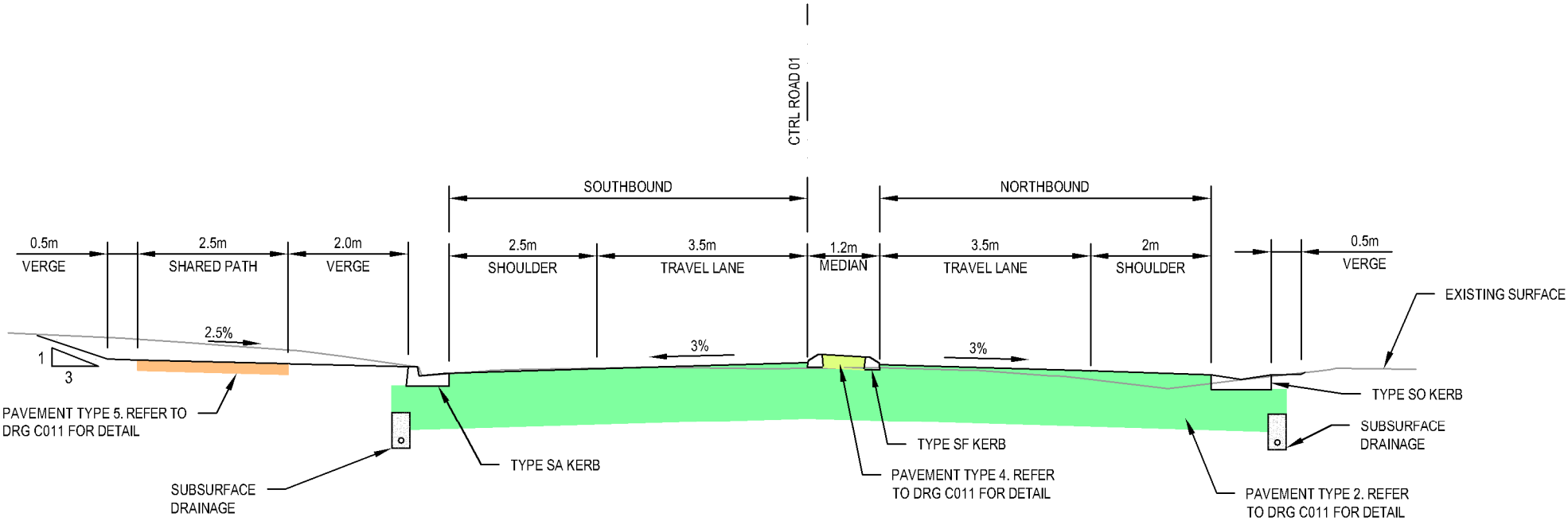
1. ALL KERBS TO MCC STD DETAIL SD004
2. SUBSURFACE DRAINAGE TO MCC SD DRG SD035

[illegible]

- NOTES
1.

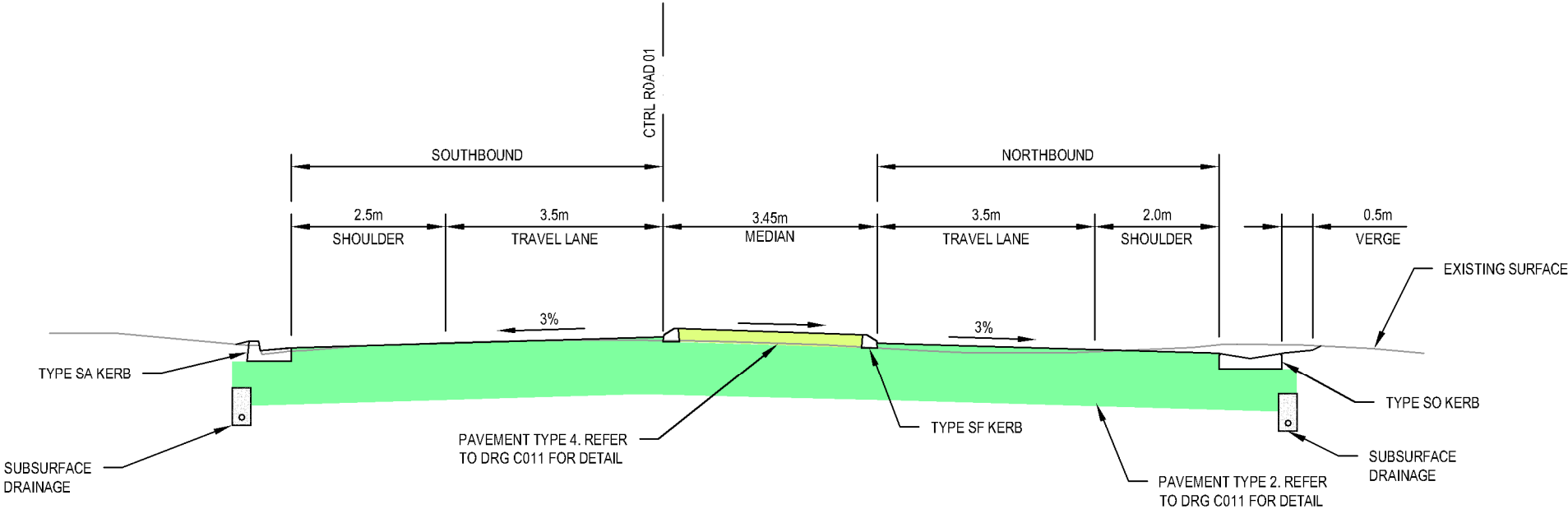
ALL KERBS TO MCC STD DETAIL SD004
2.

SUBSURFACE DRAINAGE TO MCC SD DRG SD035



TYPICAL SECTION - HAUSSMAN DRIVE CH 640

SCALE 1:100



TYPICAL SECTION - HAUSSMAN DRIVE CH 700

SCALE 1:100

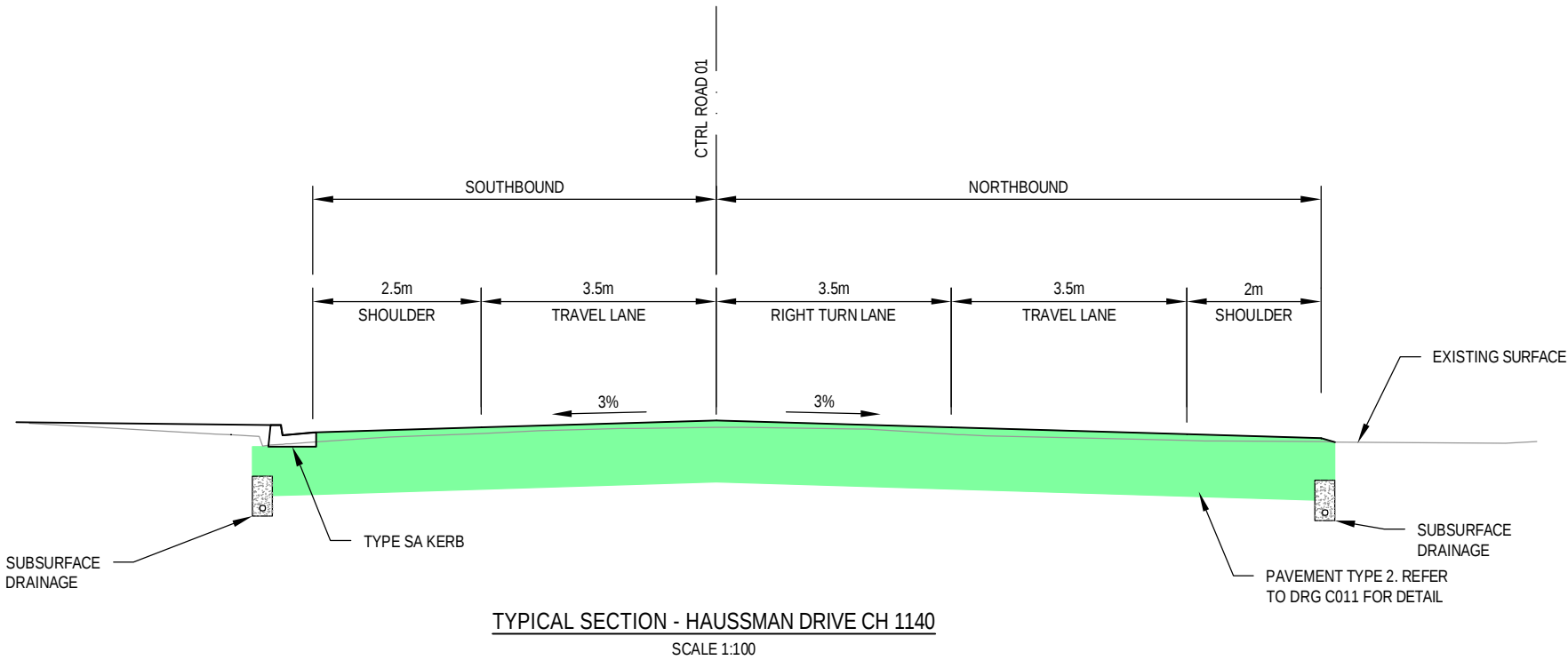
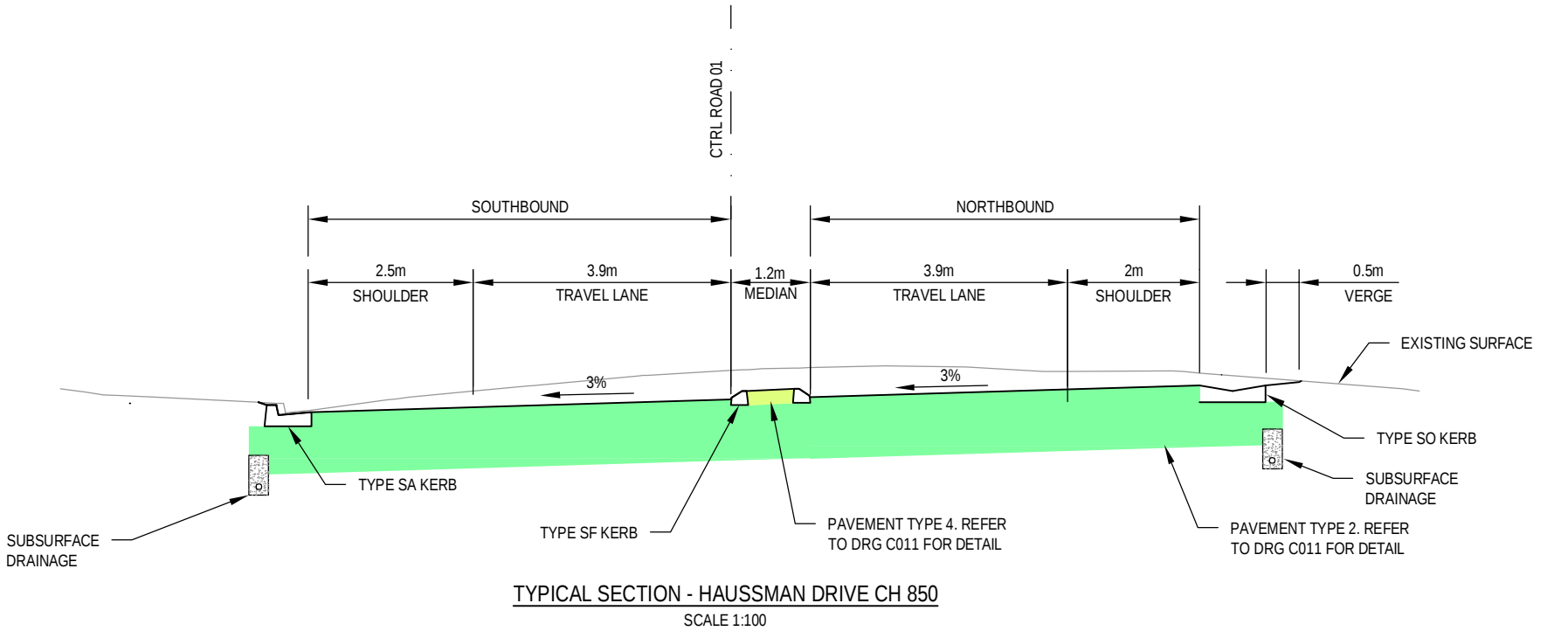
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- NOTES
1.

ALL KERBS TO MCC STD DETAIL SD004
2.

SUBSURFACE DRAINAGE TO MCC SD DRG SD035



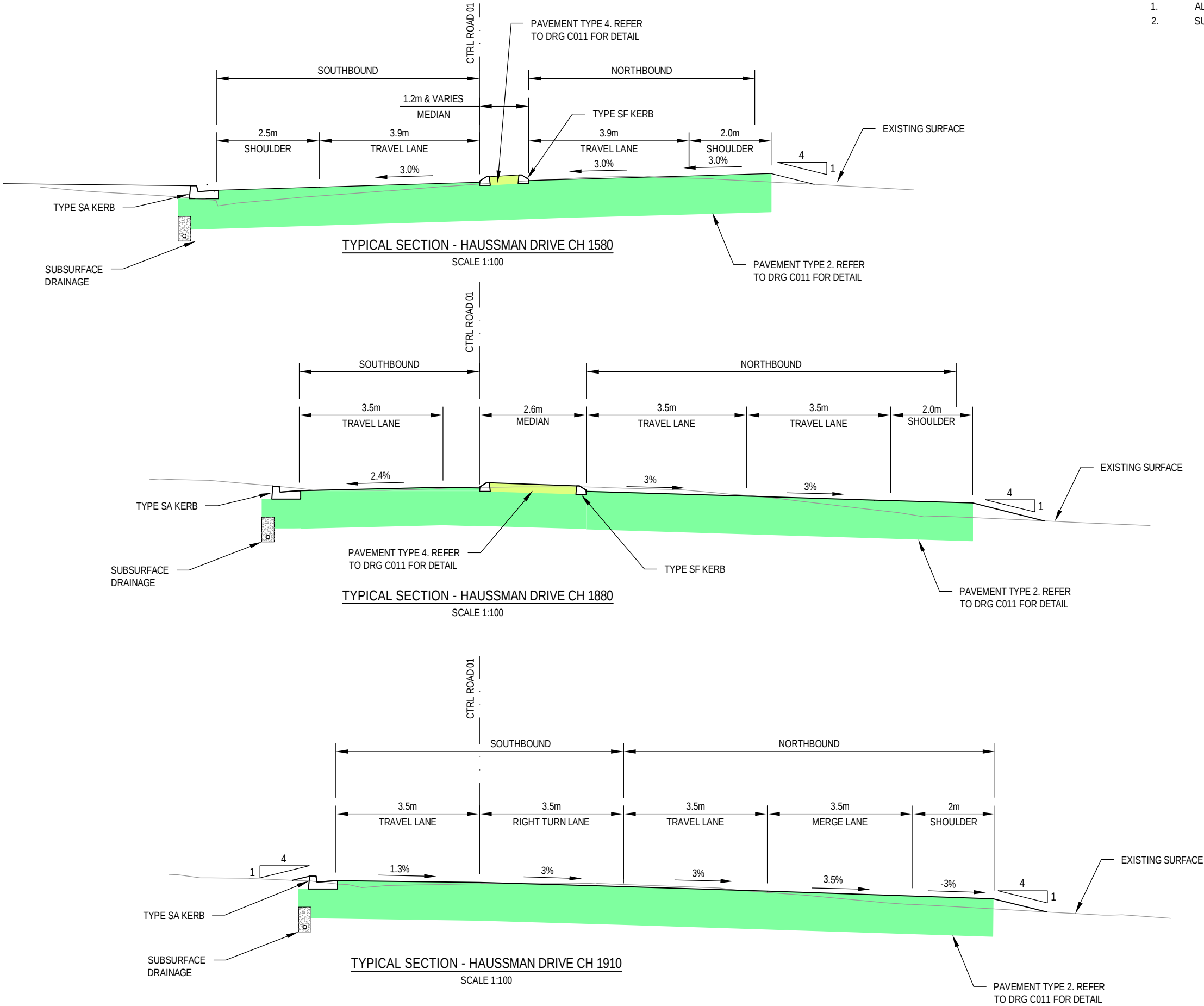
PRELIMINARY

						0123m SCALE 1:100 AT ORIGINAL SIZE		GHD GHD Tower, Level 3 24 Honeysuckle Drive, Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent, NSW 2310 T 61 2 4979 9999 F 61 2 4979 9988 E ntlmail@ghd.com W www.ghd.com	DO NOT SCALE		Drawn R. COCKS	Designer N. HINCKS	Client	MAITLAND CITY COUNCIL			
C	FINAL CONCEPT DESIGN					RJC	GM		AS	06.10.17		Drafting Check	Design Check	Project	HAUSSMAN DRIVE ROAD UPGRADE		
B	FINAL CONCEPT DESIGN					C.B	G.M		A.S	15.09.17		Approved (Project Director)	Date	Title	TYPICAL SECTIONS		
A	ISSUED FOR REVIEW					C.B	G.M		A.S	13.07.17		Scale AS SHOWN		This Drawing must not be used for Construction unless signed as Approved	Original Size	SHEET 3 OF 6	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing				Drawn	Job Manager	Project Director	Date	A3		Drawing No: 22-18378-C007		Rev: C			

- NOTES
1.

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2.

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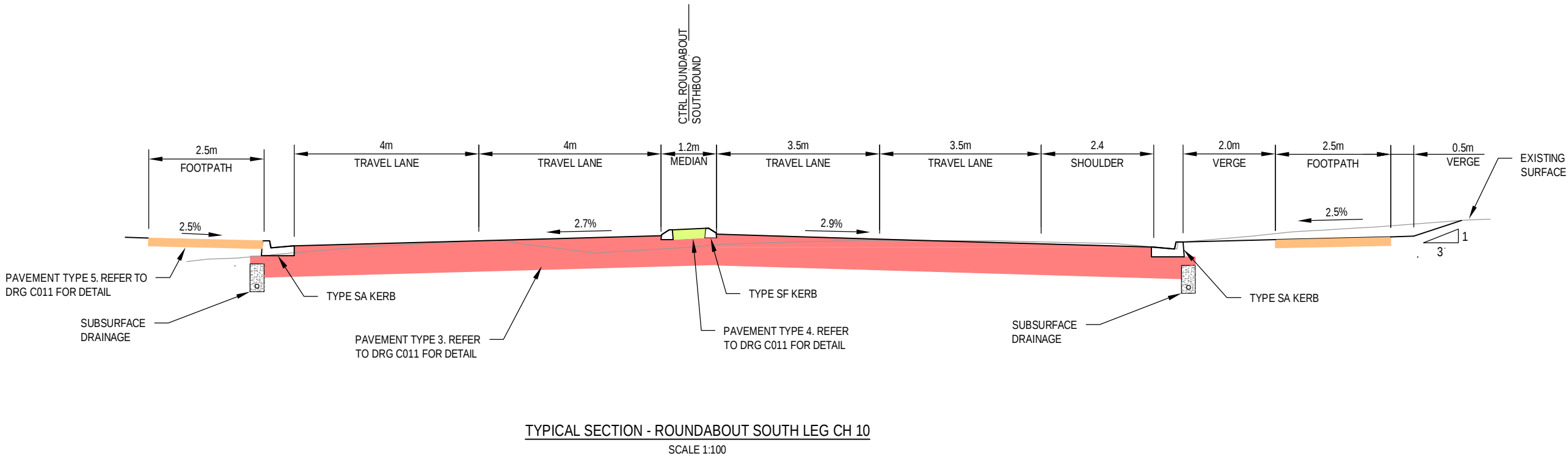
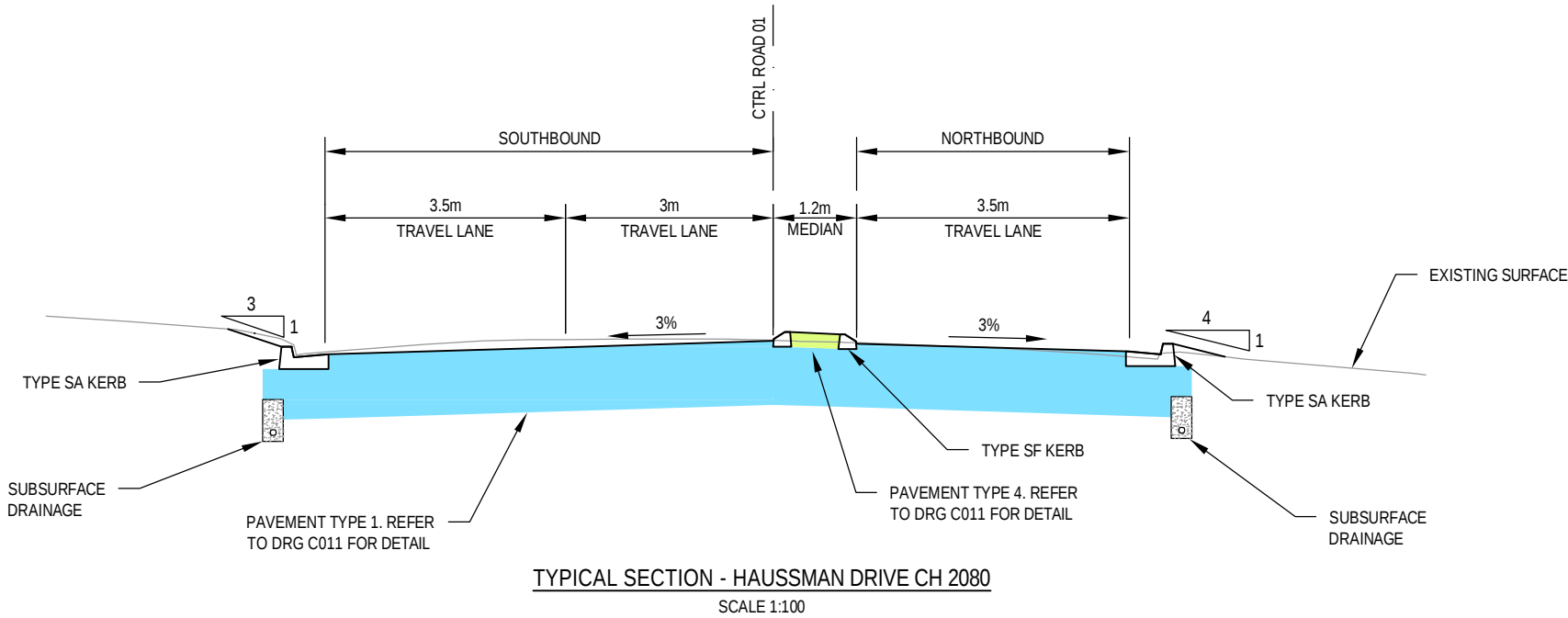
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						 GHD Tower, Level 3 24 Honeysuckle Drive, Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent. NSW 2310 T 61 2 4979 9999 F 61 2 4979 9988 E ntlmail@ghd.com W www.ghd.com	DO NOT SCALE Conditions of Use. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.	Drawn R. COCKS	Designer N. HINCKS	Client	MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE TYPICAL SECTIONS SHEET 4 OF 6	
C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17			Drafting Check	Design Check	Project		
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17			Approved (Project Director)	Date	Title		
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17			Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	Original Size	Drawing No: 22-18378-C008	Rev: C

- NOTES
1.

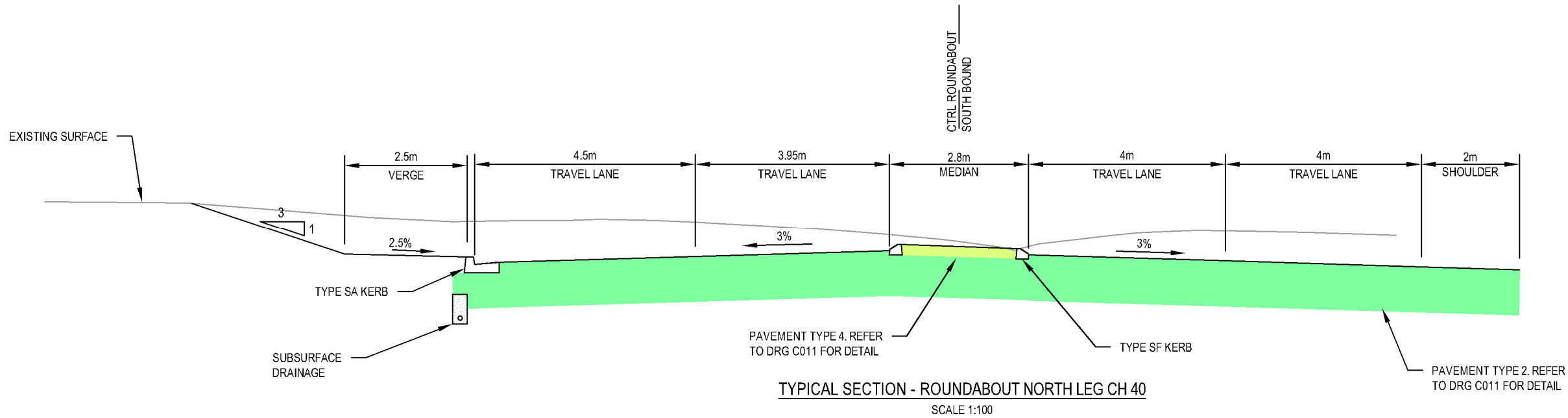
ALL KERBS TO MCC STD DETAIL SD004
2.

SUBSURFACE DRAINAGE TO MCC SD DRG SD035

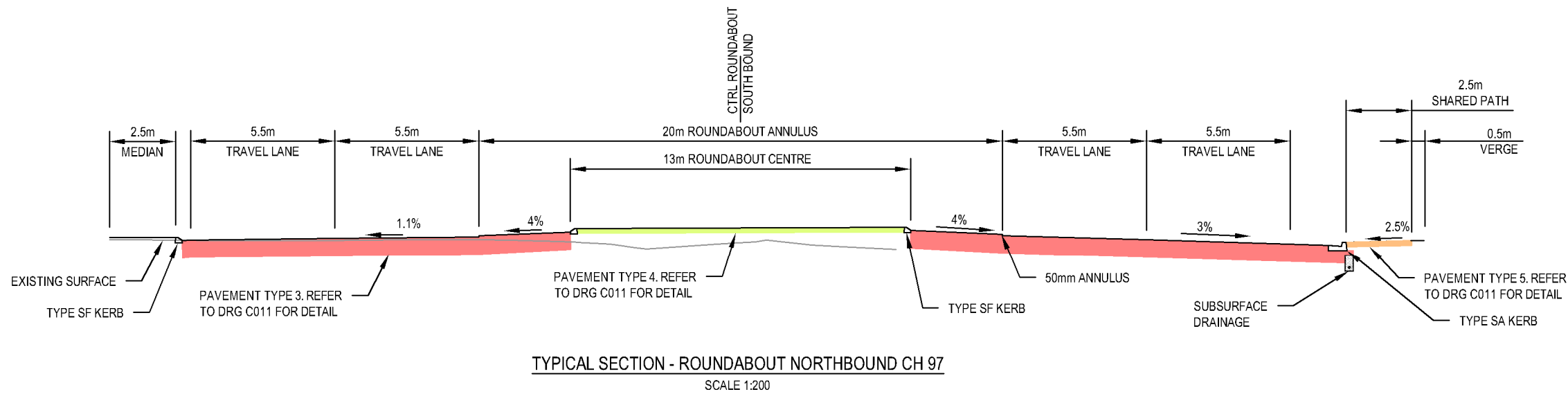


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					 SCALE 1:100 AT ORIGINAL SIZE					 GHD Tower, Level 3 24 Honeysuckle Drive, Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent, NSW 2310 T 61 2 4979 9999 F 61 2 4979 9988 E ntlmail@ghd.com W www.ghd.com	DO NOT SCALE		Drawn R. COCKS	Designer N. HINCKS	Client	MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE TYPICAL SECTIONS SHEET 5 OF 6
C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		Drafting Check	Design Check	Project							
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17		Approved (Project Director)	Date	Title							
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17		Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	Original Size							
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing			Drawn	Job Manager	Project Director	Date			A3	Drawing No: 22-18378-C009	Rev: C			

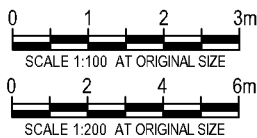


- NOTES**
1. ALL KERBS TO MCC STD DET
 2. SUBSURFACE DRAINAGE TO M



PRELIMINARY

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17



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Drawn R. COCKS

Designer N. HINCKS

Drafting Check

Design Check

Approved (Project Director)

Date

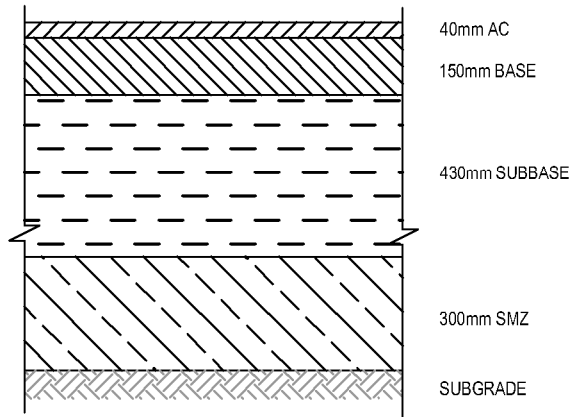
Scale AS SHOWN

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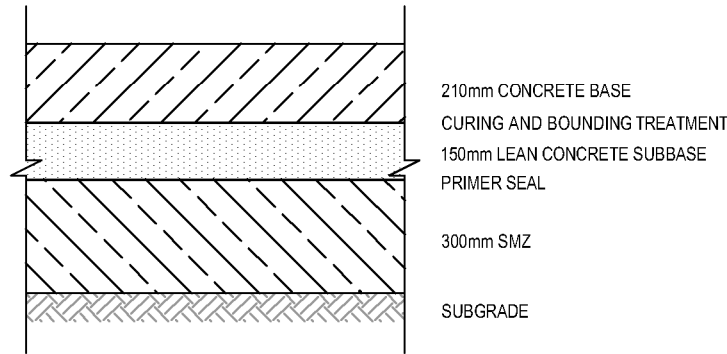
Client **MAITLAND CITY COUNCIL**
Project **HAUSSMAN DRIVE ROAD UPGRADE**
Title **TYPICAL SECTIONS**
SHEET 6 OF 6

Original Size **A3** Drawing No: **22-18378-C010**

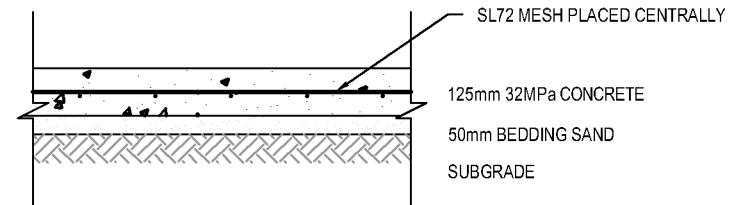
Rev: **C**



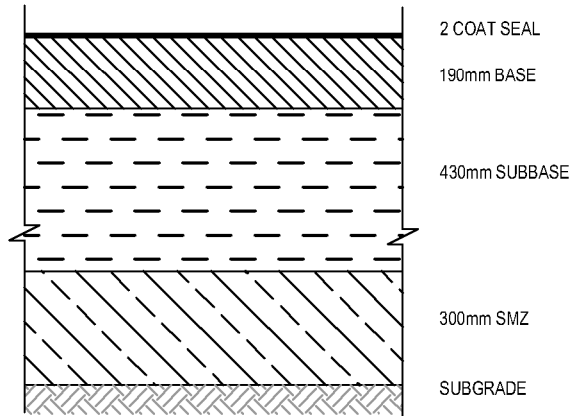
PAVEMENT TYPE 1:
UNBOUND PAVEMENT WITH AC
SCALE 1:20



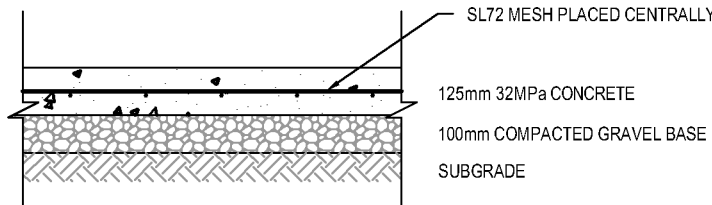
PAVEMENT TYPE 3:
INDICATIVE CONCRETE ROUNDABOUT PAVEMENT
SCALE 1:20



PAVEMENT TYPE 5:
SHARED PATHWAY (MCC)
SCALE 1:20



PAVEMENT TYPE 2:
UNBOUND PAVEMENT WITH 2 COAT SEAL
SCALE 1:20

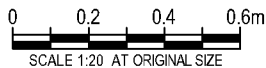


PAVEMENT TYPE 4:
CONCRETE MEDIAN INFILL (MCC)
SCALE 1:20



PRELIMINARY

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
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Drawn R. COCKS

Designer N. HINCKS

Drafting Check

Design Check

Approved (Project Director)

Date

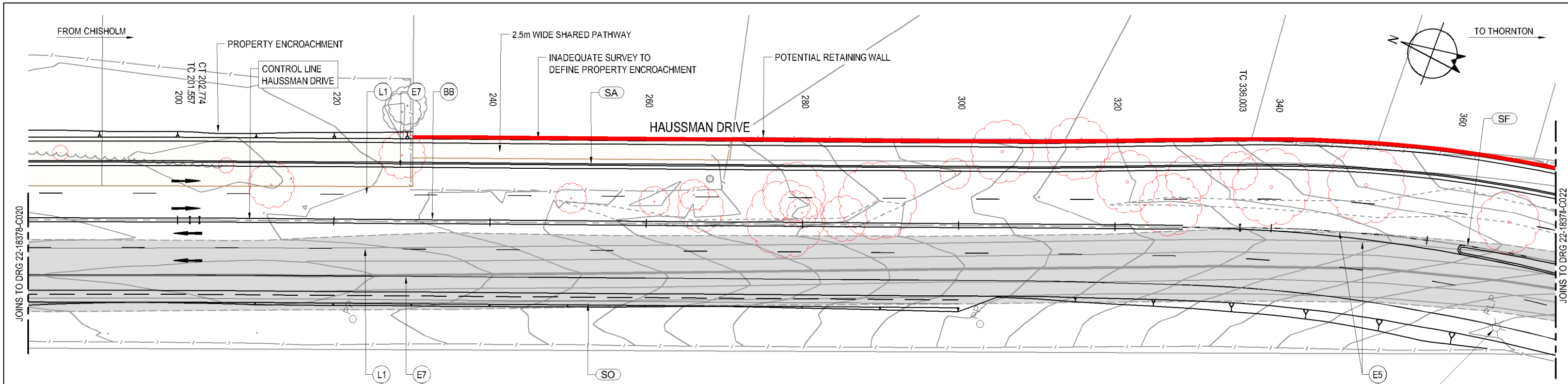
Scale AS SHOWN

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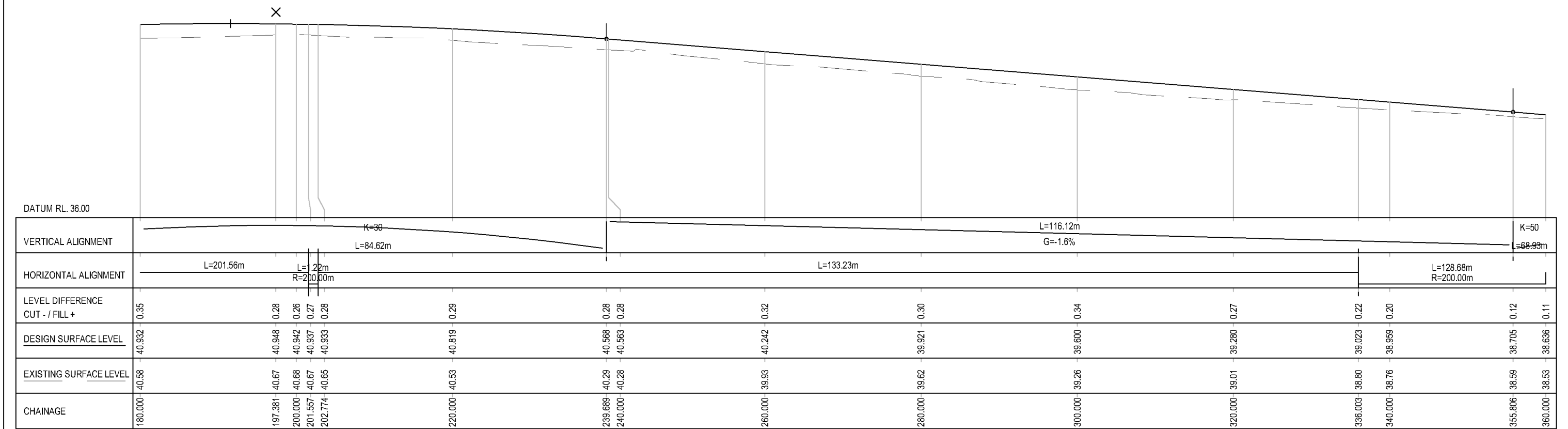
Client MAITLAND CITY COUNCIL
Project HAUSSMAN DRIVE ROAD UPGRADE
Title TYPICAL PAVEMENT DETAILS

Original Size A3 Drawing No: 22-18378-C011

Rev: C



PLAN
SCALE 1:500

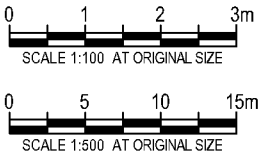


LONGITUDINAL SECTION - HAUSSMAN DRIVE
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

- NOTES
- FOR LEGEND, REFER TO DRG 22-18378-C004
 - FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
 - FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
 - REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
 - ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS

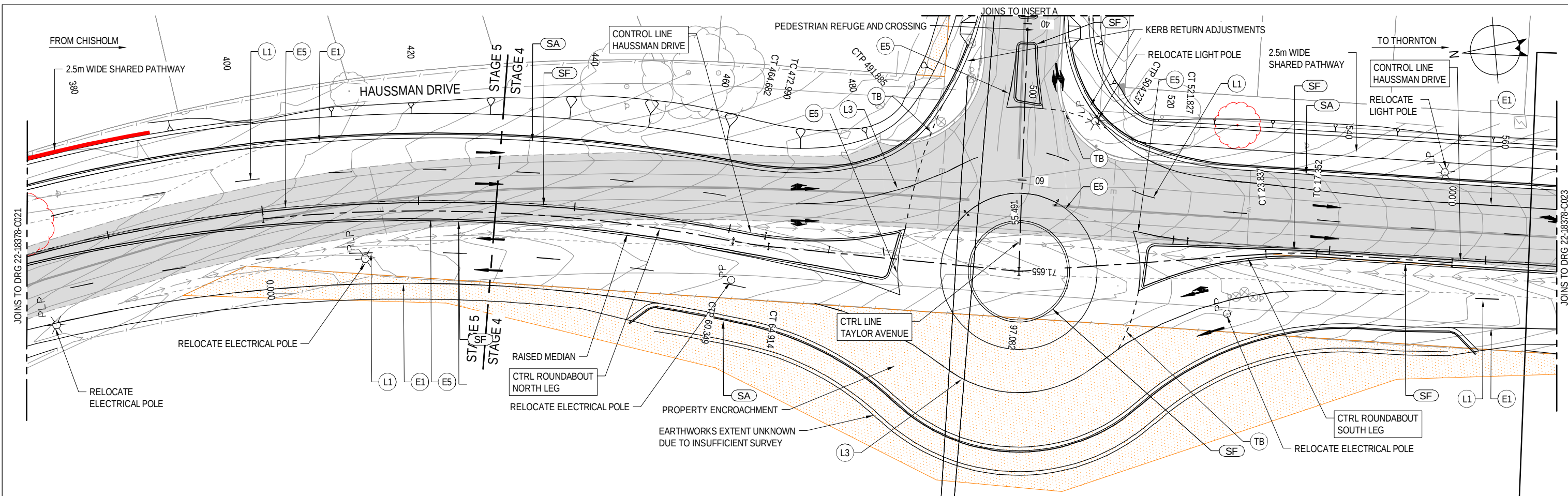
PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17		
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17		
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date



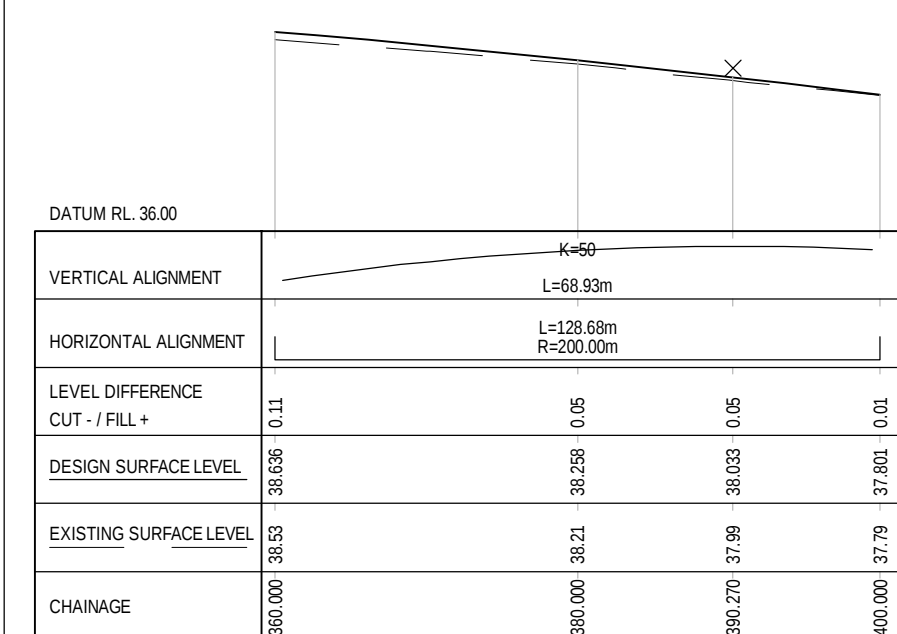
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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	DETAIL PLAN AND LONGITUDINAL SECTION
Original Size	A3
Drawing No:	22-18378-C021
Rev:	C

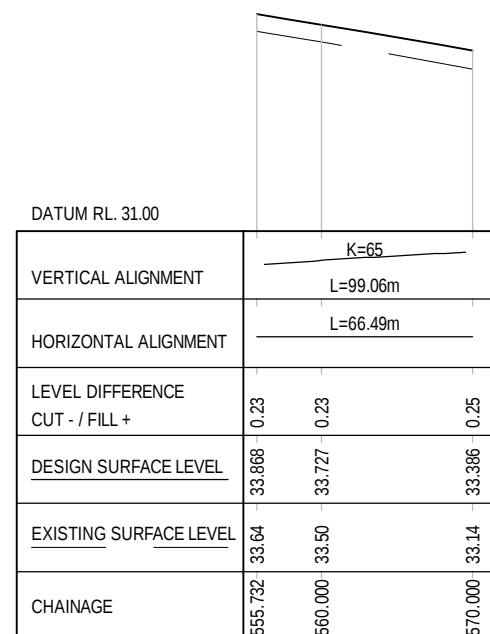


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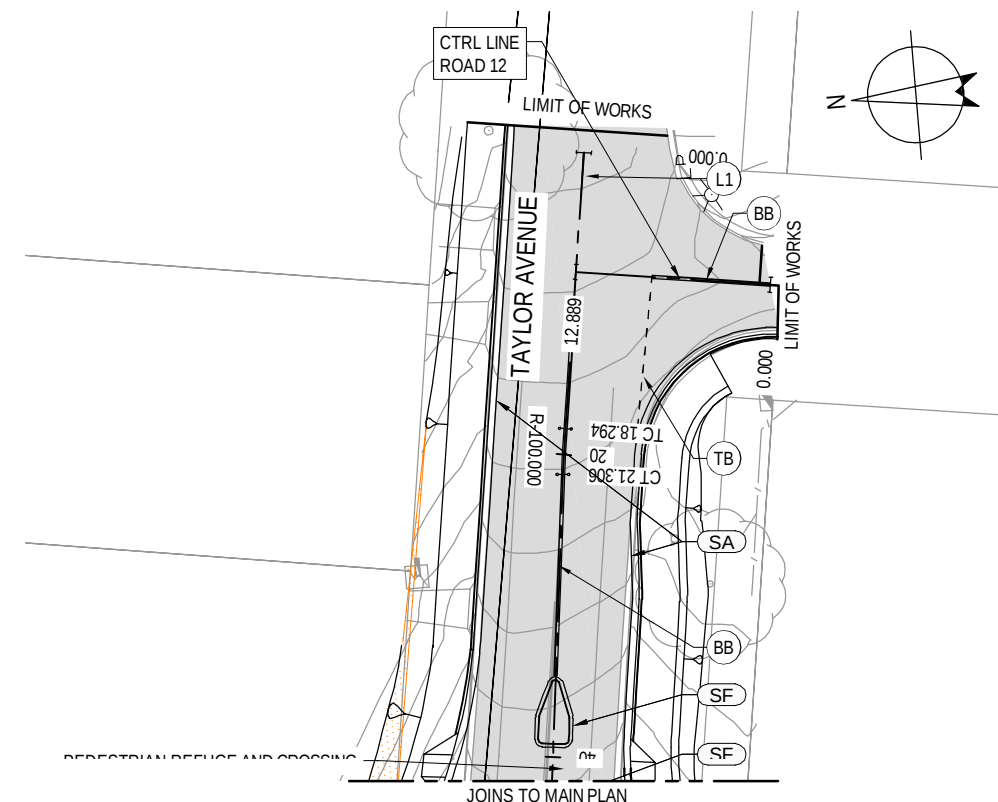
1. FOR LEGEND, REFER TO DRG 22-18378-C004
2. FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
3. FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
4. REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
5. ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS



LONGITUDINAL SECTION - HAUSSMAN DRIVE
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

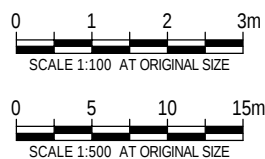


LONGITUDINAL SECTION - HAUSSMAN DRIVE
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

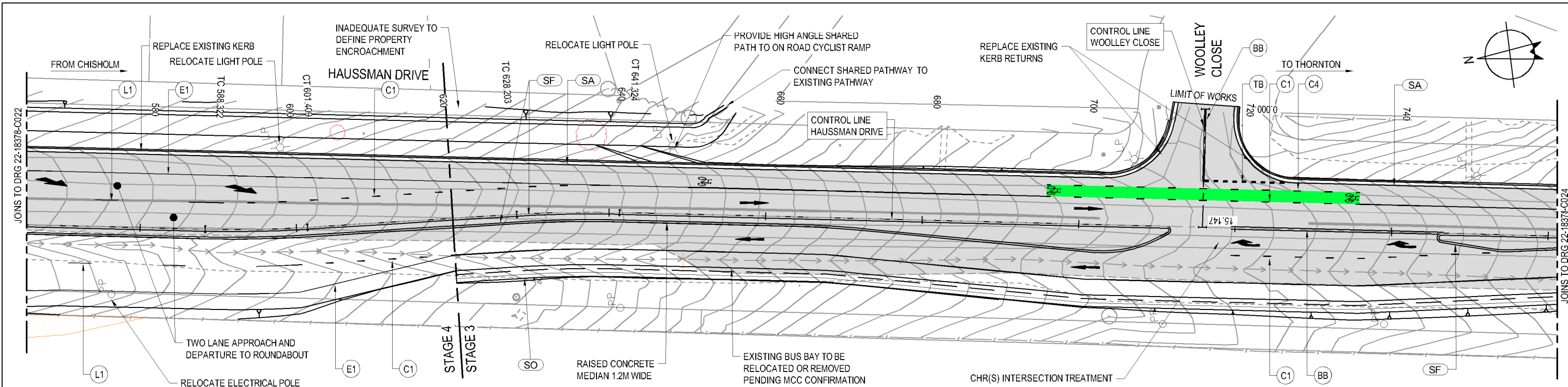


PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing			
		Drawn	Job Manager	Project Director	Date

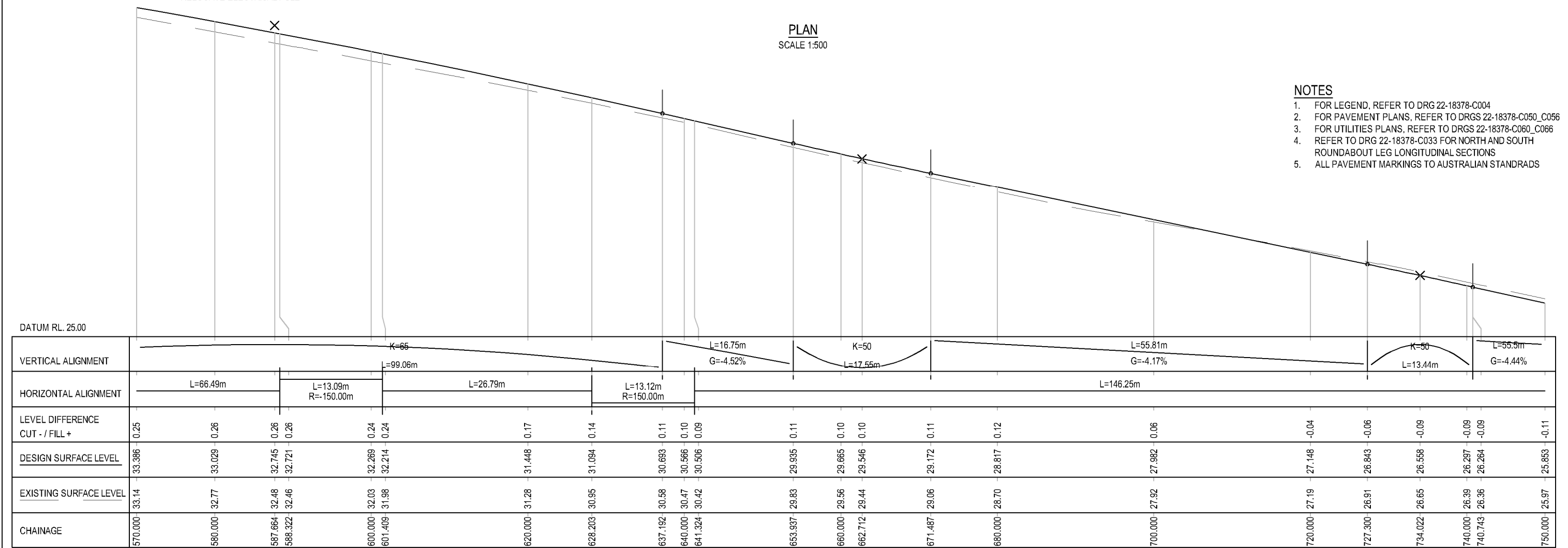


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	Approved (Project Director)	Date	Title DETAIL PLAN AND LONGITUDINAL SECTION
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	Original Size A3
			Drawing No: 22-18378-C022
			Rev: C



PLAN
SCALE 1:500

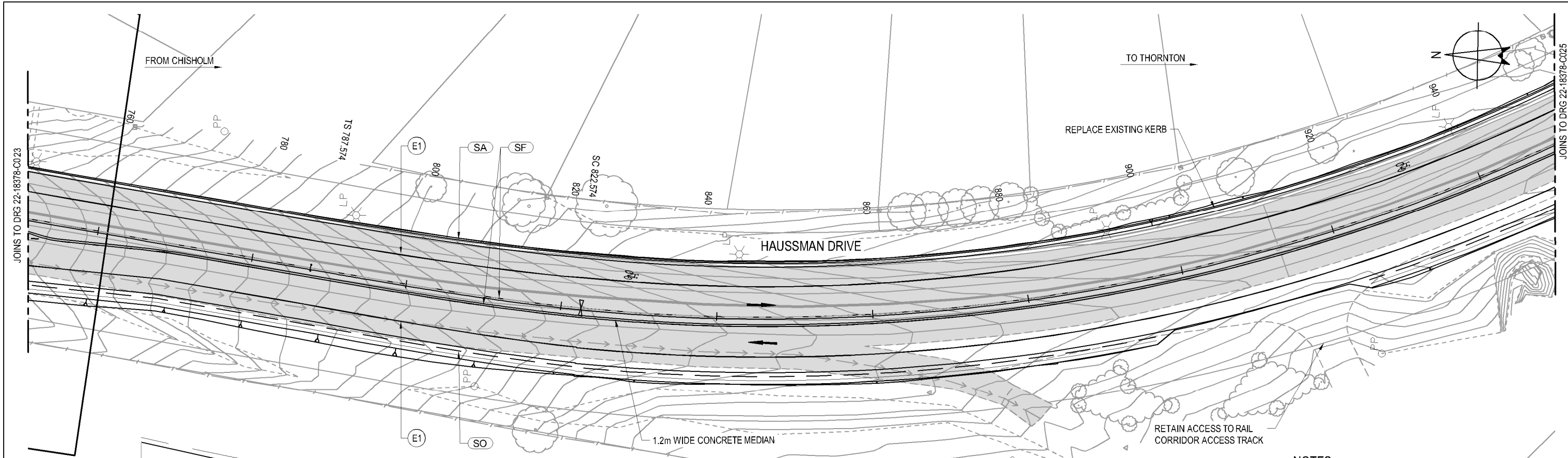
- NOTES
- FOR LEGEND, REFER TO DRG 22-18378-C004
 - FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
 - FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
 - REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
 - ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS



LONGITUDINAL SECTION - HAUSSMAN DRIVE
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

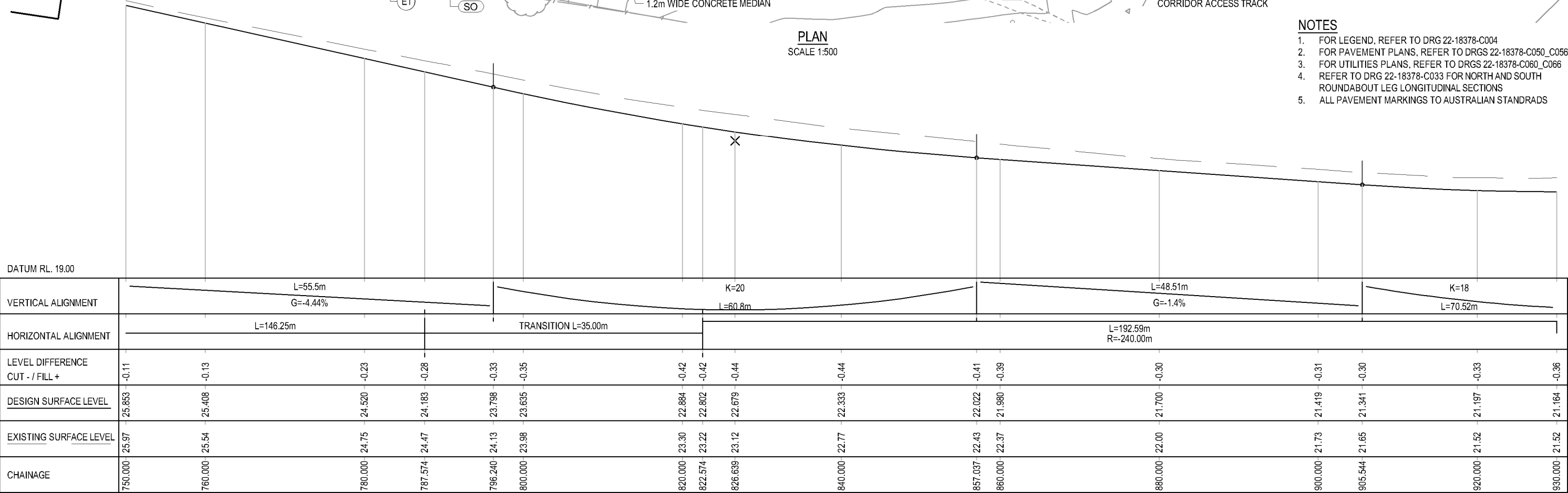
PRELIMINARY

						 SCALE 1:100 AT ORIGINAL SIZE		 GHD Tower, Level 3 24 Honeyusukle Drive, Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent, NSW 2310 T 61 2 4979 9999 F 61 2 4979 9988 E ntmall@ghd.com W www.ghd.com	DO NOT SCALE		Drawn R. COCKS	Designer N. HINCKS	Client	MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE DETAIL PLAN AND LONGITUDINAL SECTION SHEET 4 OF 13	
C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17				Drafting Check	Design Check	Project				
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17				Approved (Project Director)		Title				
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17	 SCALE 1:500 AT ORIGINAL SIZE			Date						
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing				Drawn	Job Manager		Project Director	Date	Original Size				
													A3	Drawing No: 22-18378-C023	Rev: C



PLAN
SCALE 1:500

- NOTES
1. FOR LEGEND, REFER TO DRG 22-18378-C004
 2. FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
 3. FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
 4. REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
 5. ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS



LONGITUDINAL SECTION - HAUSSMAN DRIVE
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

C

FINAL CONCEPT DESIGN

RJC

GM

AS

06.10.17

B

FINAL CONCEPT DESIGN

C.B

G.M

A.S

15.09.17

A

ISSUED FOR REVIEW

C.B

G.M

A.S

13.07.17

No

Revision

Note: * Indicates signatures on original issue of drawing or last revision of drawing

Drawn

Job Manager

Project Director

Date

0

1

2

3m

SCALE 1:100 AT ORIGINAL SIZE

0

5

10

15m

SCALE 1:500 AT ORIGINAL SIZE

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Drawn

R. COCKS

Designer

N. HINCKS

Drafting Check

Design Check

Approved (Project Director)

Date

Scale

AS SHOWN

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Client

Project

Title

Original Size

Drawing No:

22-18378-C024

Rev:

C

MAITLAND CITY COUNCIL

HAUSSMAN DRIVE ROAD UPGRADE

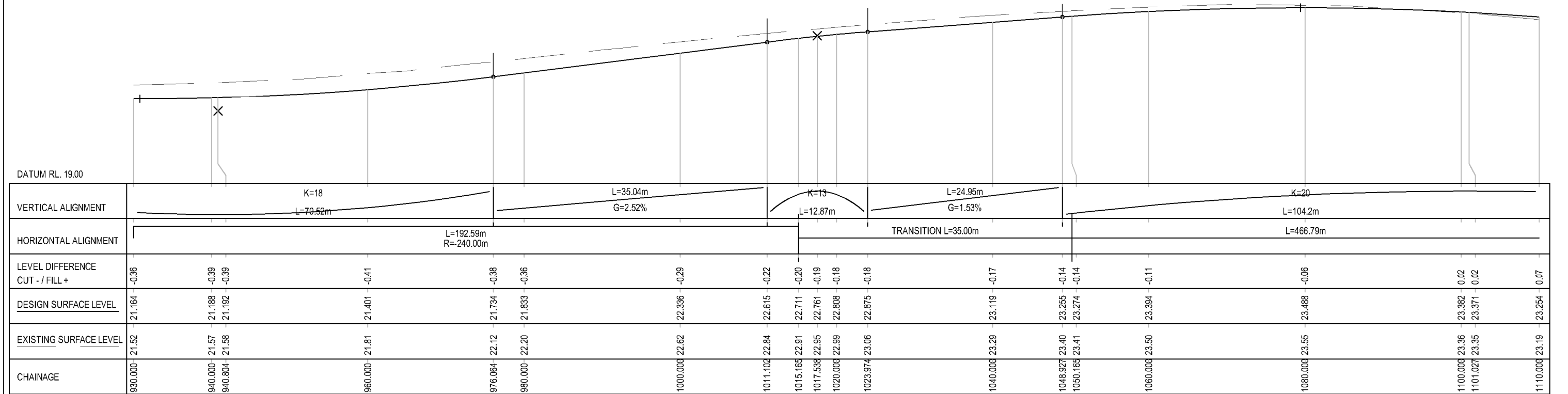
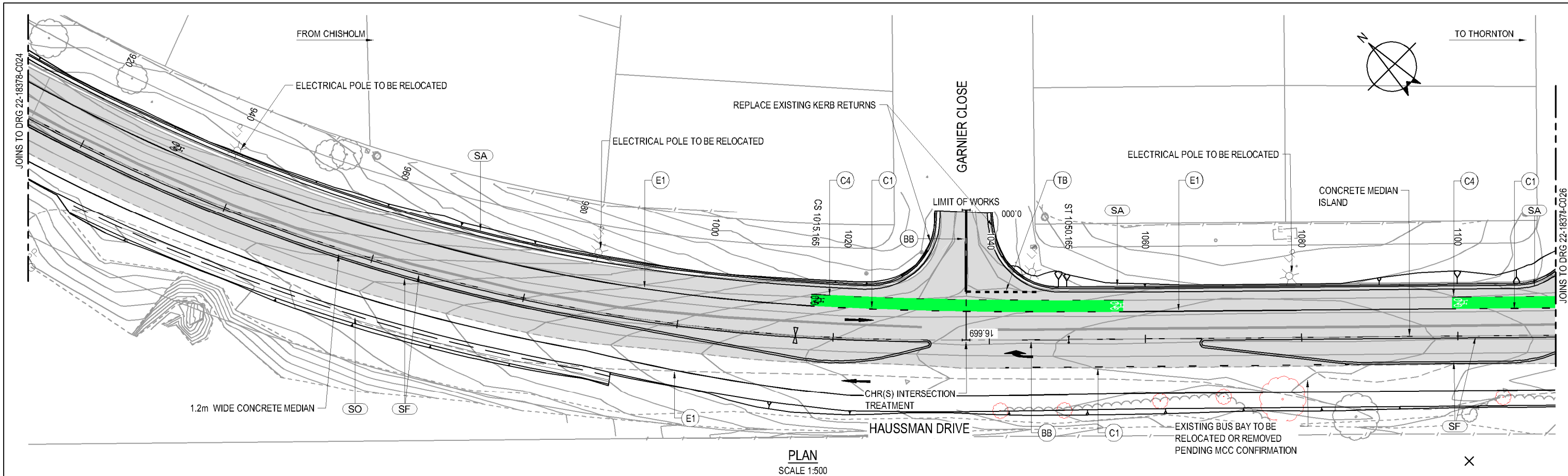
DETAIL PLAN AND LONGITUDINAL SECTION

SHEET 5 OF 13

Plot Date: 6 October 2017 - 5:04 PM

Plotted By: Bec Cocks

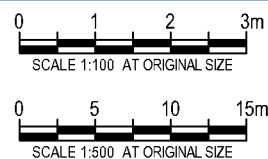
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- NOTES
- FOR LEGEND, REFER TO DRG 22-18378-C004
 - FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
 - FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
 - REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
 - ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS

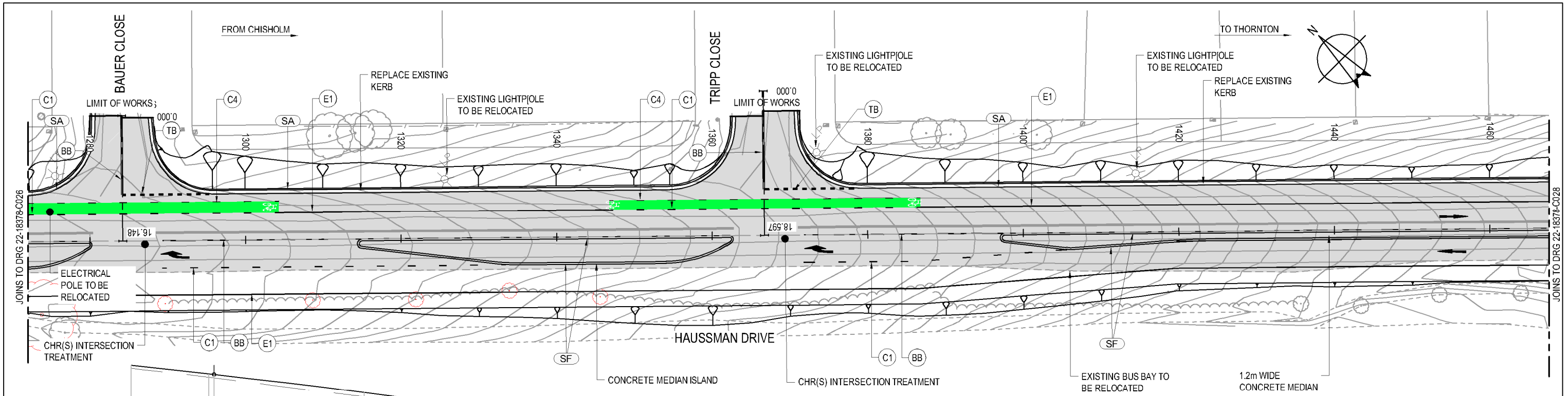
PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17		
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17		
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date



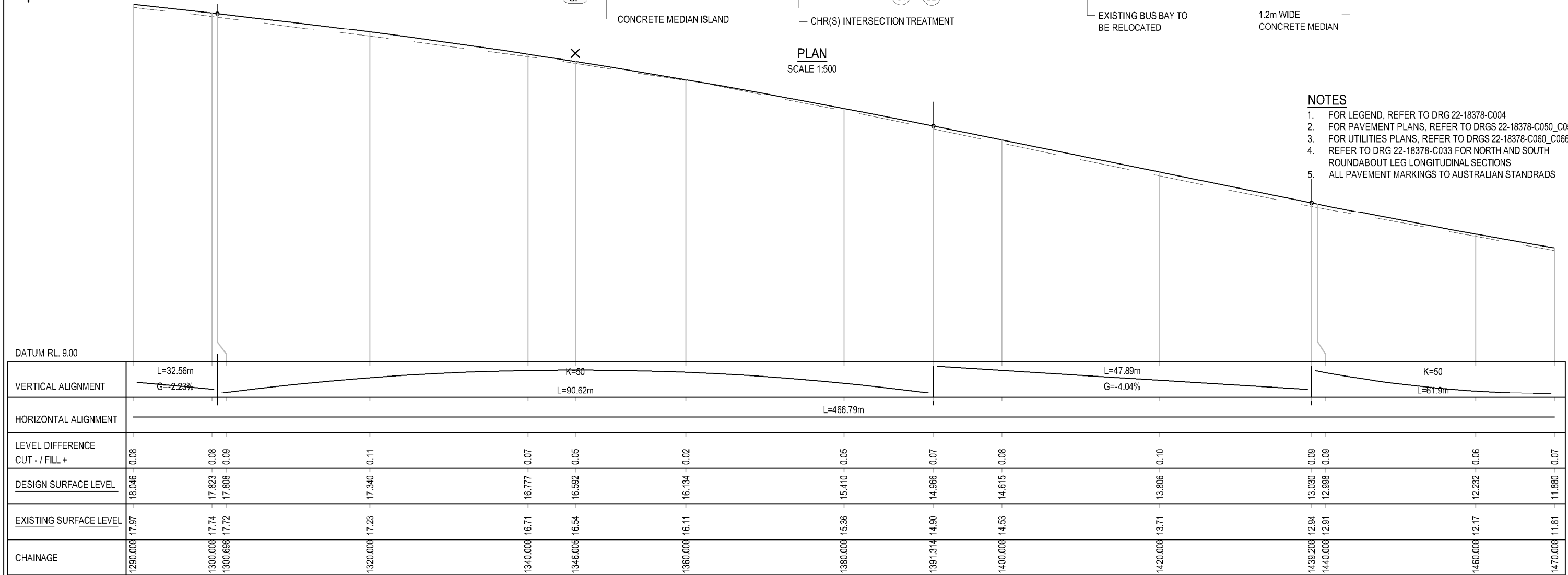
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	Approved (Project Director)	Date
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	DETAIL PLAN AND LONGITUDINAL SECTION
Original Size	A3
Drawing No:	22-18378-C025
Rev:	C



PLAN
SCALE 1:500

- NOTES
1. FOR LEGEND, REFER TO DRG 22-18378-C004
 2. FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
 3. FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
 4. REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
 5. ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS



LONGITUDINAL SECTION - HAUSSMAN DRIVE

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

PRELIMINARY

C FINAL CONCEPT DESIGN				RJC	GM	AS	06.10.17
B FINAL CONCEPT DESIGN				C.B	G.M	A.S	15.09.17
A ISSUED FOR REVIEW				C.B	G.M	A.S	13.07.17
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date

0123m

SCALE 1:100 AT ORIGINAL SIZE

051015m

SCALE 1:500 AT ORIGINAL SIZE

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Drawn R. COCKS

Drafting Check

Approved (Project Director)
Date

Scale AS SHOWN

Designer N. HINCKS

Design Check

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used for construction unless
signed as Approved

Client MAITLAND CITY COUNCIL

Project HAUSSMAN DRIVE ROAD UPGRADE

Title DETAIL PLAN AND LONGITUDINAL SECTION
SHEET 8 OF 13

Original Size A3

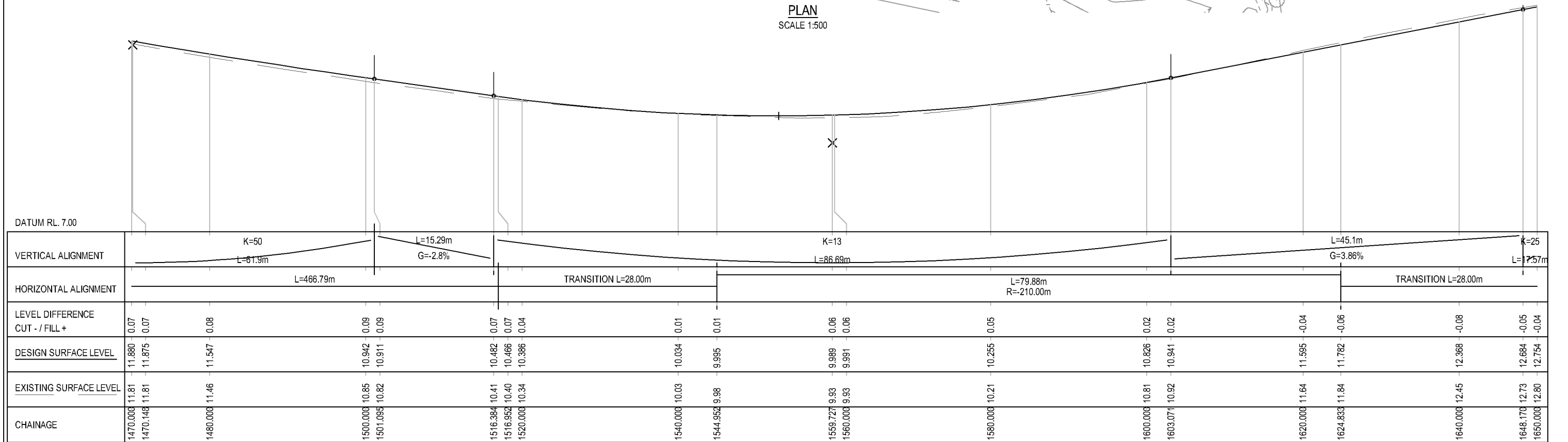
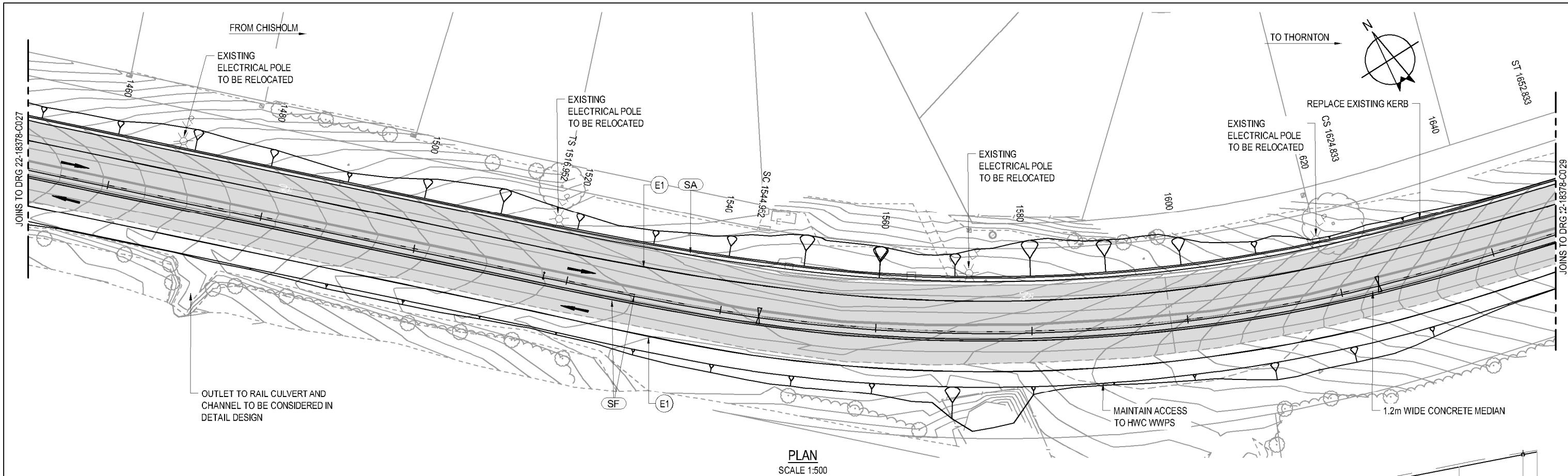
Drawing No: 22-18378-C027

Rev: C

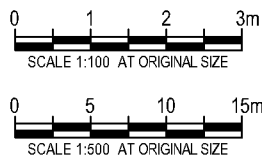
Plot Date: 6 October 2017 - 5:04 PM

Plotted By: Bec Cocks

Cad File No: G:\22\18378\ICADD\Drawings\22-18378-C020.dwg

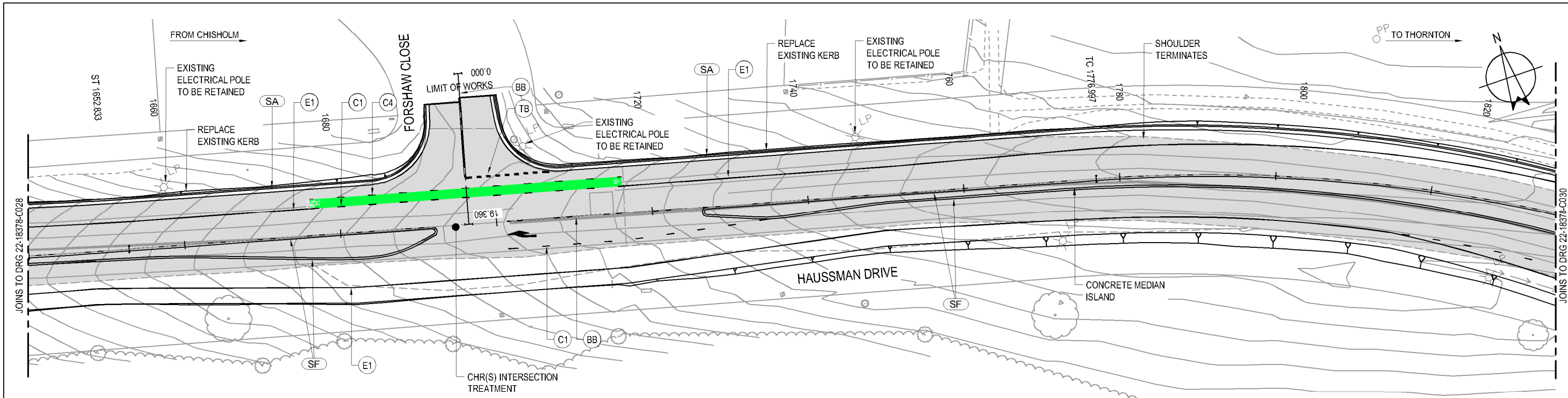


No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17

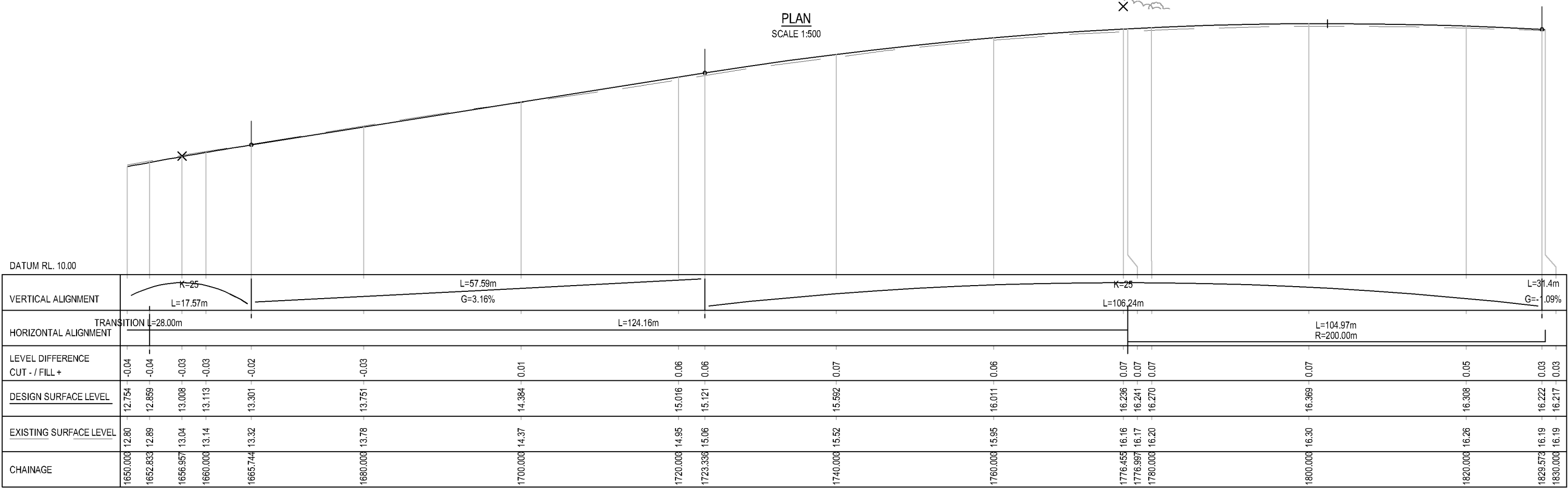


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	Approved (Project Director)	Date
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	Maitland City Council
Project	Hausman Drive Road Upgrade
Title	Detail Plan and Longitudinal Section
Original Size	A3
Drawing No:	22-18378-C028
Rev:	C



PLAN
SCALE 1:500



LONGITUDINAL SECTION - HAUSSMAN DRIVE

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

- NOTES
- FOR LEGEND, REFER TO DRG 22-18378-C004
 - FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
 - FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
 - REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
 - ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS

PRELIMINARY

C FINAL CONCEPT DESIGN				RJC	GM	AS	06.10.17
B FINAL CONCEPT DESIGN				C.B	G.M	A.S	15.09.17
A ISSUED FOR REVIEW				C.B	G.M	A.S	13.07.17
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date

0123m

SCALE 1:100 AT ORIGINAL SIZE

051015m

SCALE 1:500 AT ORIGINAL SIZE

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Drawn R. COCKS

Drafting Check

Approved (Project Director)

Date

Scale AS SHOWN

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Client Project Title

MAITLAND CITY COUNCIL
HAUSSMAN DRIVE ROAD UPGRADE
DETAIL PLAN AND LONGITUDINAL SECTION
SHEET 10 OF 13

Original Size

A3

Drawing No:

22-18378-C029

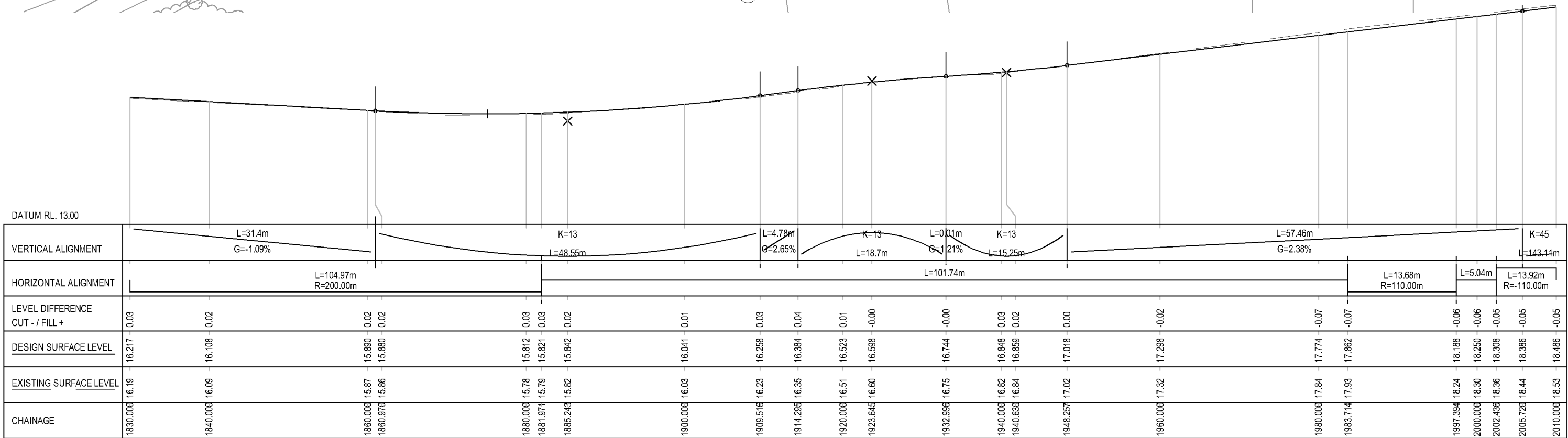
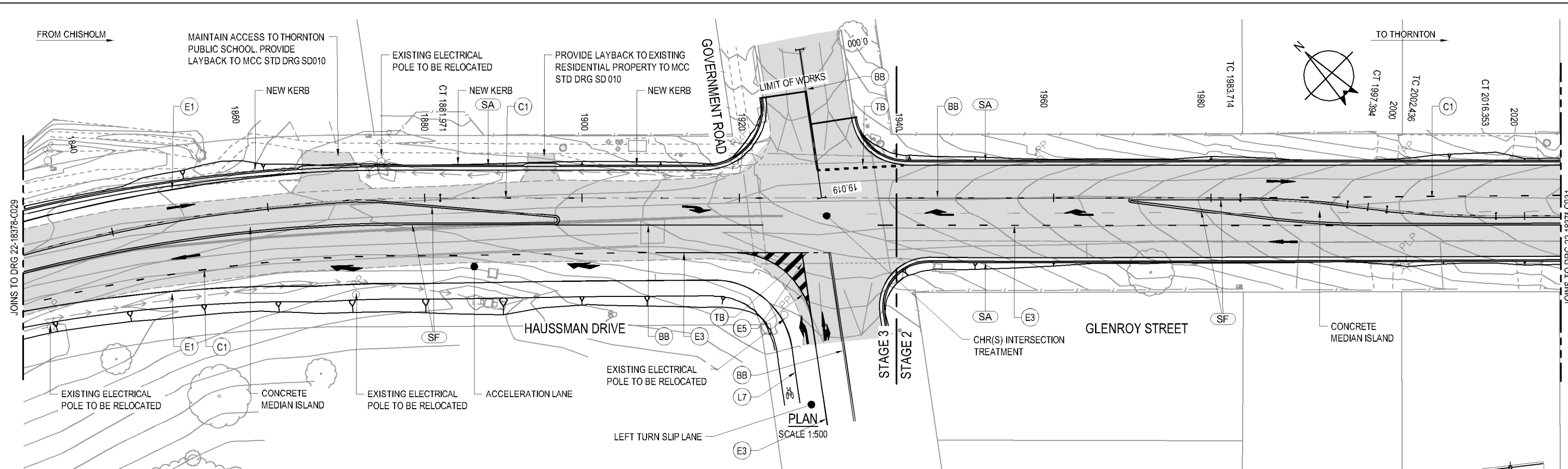
Rev:

C

Plot Date: 6 October 2017 - 5:04 PM

Plotted By: Bec Cocks

Cad File No: G:\22\18378\CADD\Drawings\22-18378-C020.dwg



LONGITUDINAL SECTION - HAUSSMAN DRIVE

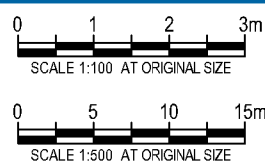
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

NOTES

- FOR LEGEND, REFER TO DRG 22-18378-C004
- FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
- FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
- REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
- ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS

PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17	
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17	
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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Drawn R. COCKS

Designer N. HINCKS

Drafting Check

Design Check

Approved (Project Director)

Date

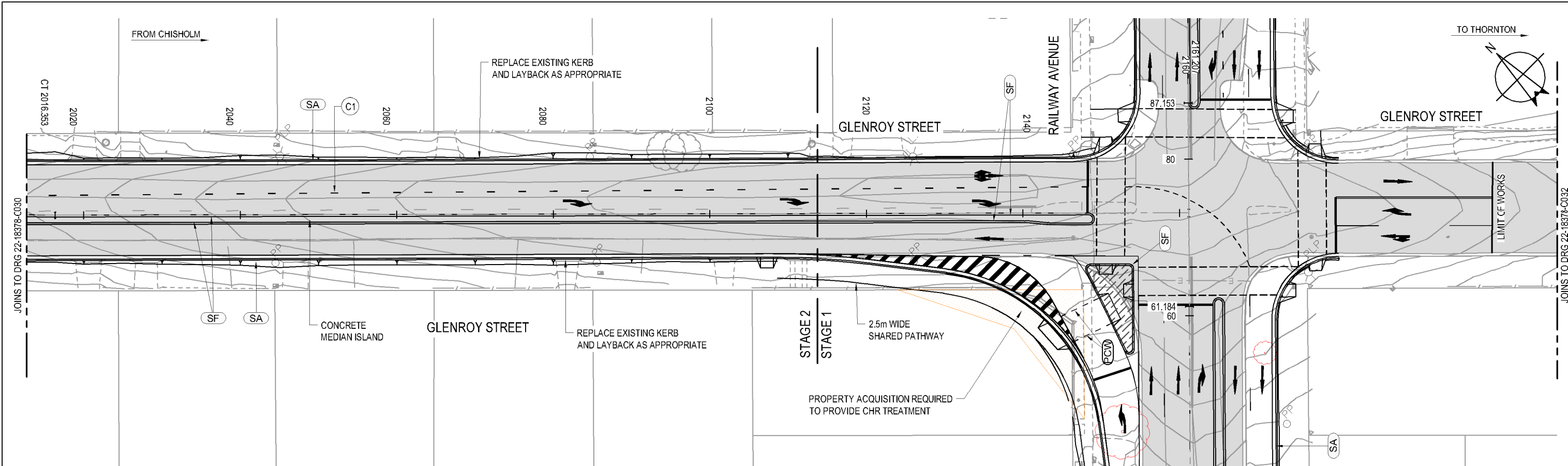
Scale AS SHOWN

This Drawing must not be used for construction unless signed as Approved

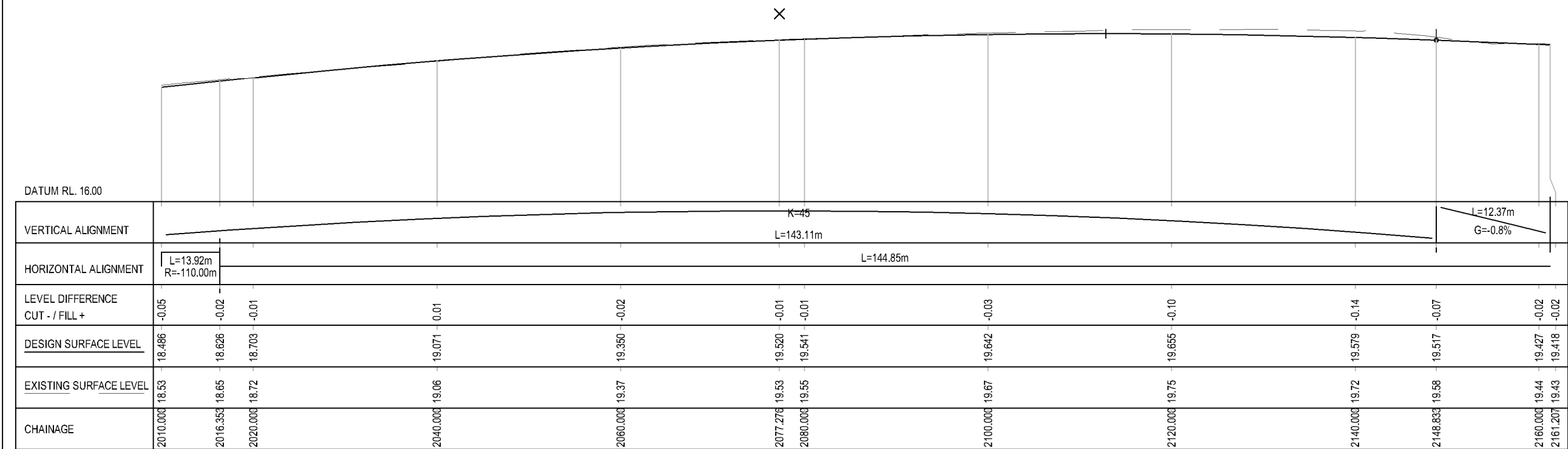
Client **MAITLAND CITY COUNCIL**
Project **HAUSSMAN DRIVE ROAD UPGRADE**
Title **DETAIL PLAN AND LONGITUDINAL SECTION SHEET 11 OF 13**

Original Size **A3** Drawing No: **22-18378-C030**

Rev: **C**



PLAN
SCALE 1:500



LONGITUDINAL SECTION - HAUSSMAN DRIVE

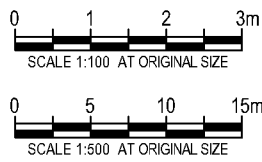
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VERTICAL SCALE 1:100

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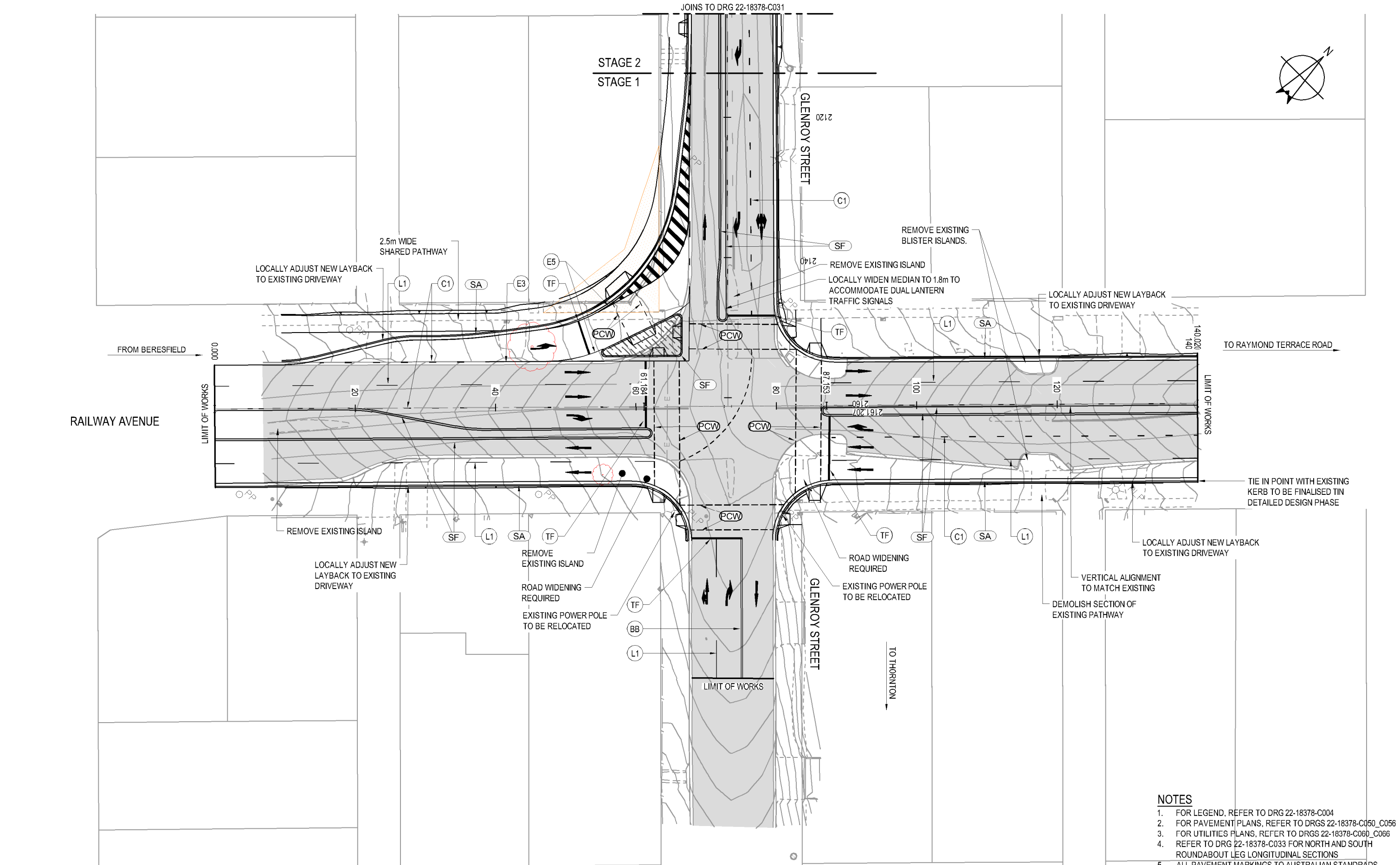
1. FOR LEGEND, REFER TO DRG 22-18378-C004
2. FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
3. FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
4. REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
5. ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS

PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date



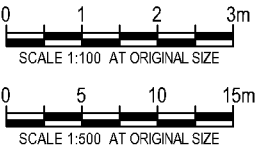
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		Approved (Project Director) Date		Title	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 12 OF 13	
		Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	Original Size A3		Drawing No: 22-18378-C031



- NOTES**
- 1. FOR LEGEND, REFER TO DRG 22-18378-C004
 - 2. FOR PAVEMENT PLANS, REFER TO DRGS 22-18378-C050_C056
 - 3. FOR UTILITIES PLANS, REFER TO DRGS 22-18378-C060_C066
 - 4. REFER TO DRG 22-18378-C033 FOR NORTH AND SOUTH ROUNDABOUT LEG LONGITUDINAL SECTIONS
 - 5. ALL PAVEMENT MARKINGS TO AUSTRALIAN STANDARDS

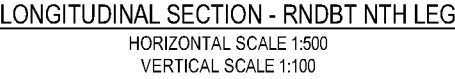
PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17	
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17	
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17	
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



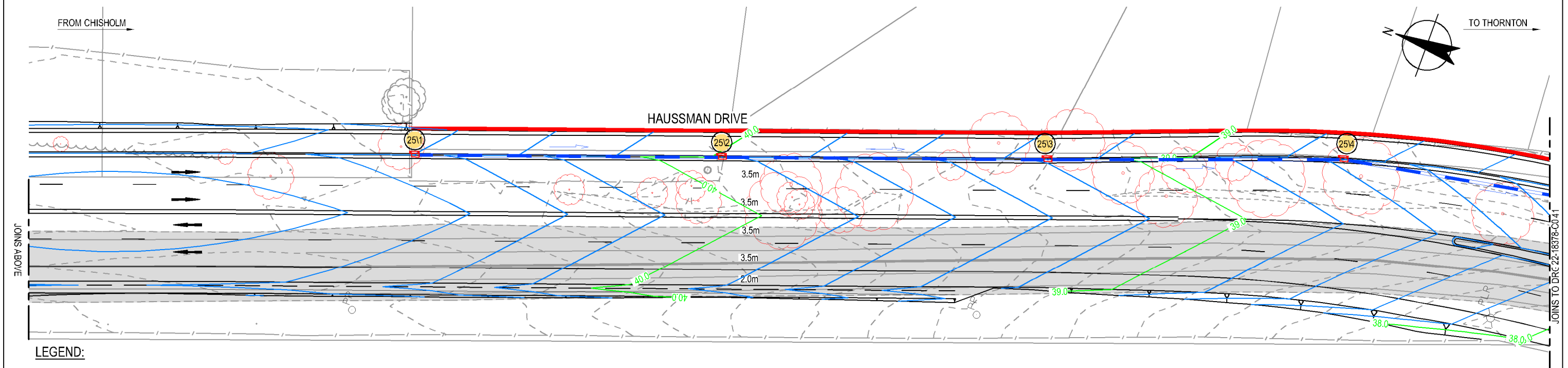
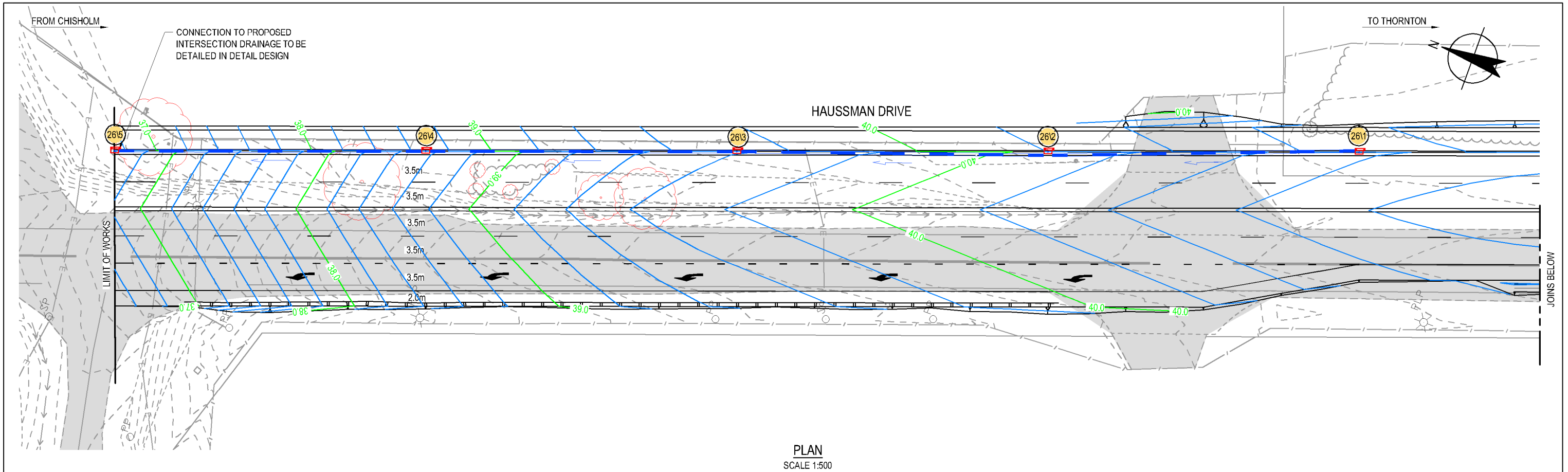
DO NOT SCALE	Drawn R. COCKS	Designer N. HINCKS
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	Approved (Project Director)	Date
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	DETAIL PLAN AND LONGITUDINAL SECTION
	SHEET 13 OF 13
Original Size	A3
Drawing No:	22-18378-C032
Rev:	C



PRELIMINARY

[illegible]



LEGEND:

	5.0	DESIGN CONTOURS (1.0m MAJOR)
	0.2	DESIGN CONTOURS (0.2m MINOR)
	5.0	EXISTING CONTOURS
	Ø375	EXISTING STORMWATER PIPE
		NEW DIVERSION BANK
		NEW STORMWATER PIPE AND RCBC
	Ø375	PIPE SIZE AND FLOW DIRECTION
	111	STORMWATER PIT I.D AND TYPE
		EXISTING STORMWATER PIT
		NEW STORMWATER PIT
		NEW HEADWALL WITH CONCRETE APRON

NOTES:

1. PITS ARE SHOWN IN INDICATIVE LOCATIONS.
2. NO HYDRAULIC DESIGN HAS BEEN UNDERTAKEN AS PART OF THIS CONCEPT DESIGN. THIS IS TO BE CONDUCTED DURING DETAILED DESIGN.
3. LOCATION OF EXISTING DRAINAGE INFRASTRUCTURE HAS NOT BEEN IDENTIFIED IN MCC PROVIDED SURVEY.

PRELIMINARY

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17



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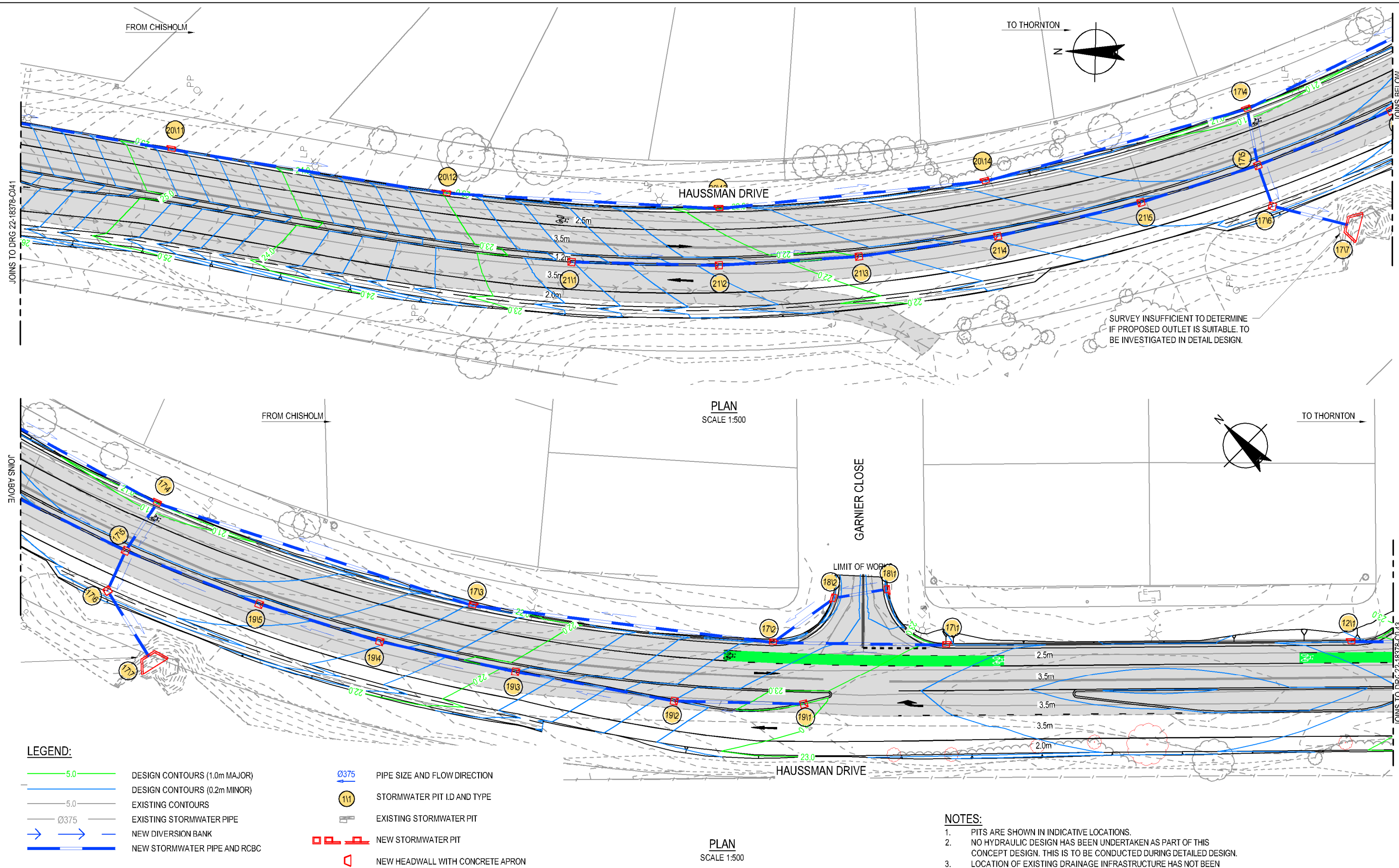
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Drafting Check		Design Check	
Approved (Project Director)		Date	
Scale	AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	

Client **MAITLAND CITY COUNCIL**
Project **HAUSSMAN DRIVE ROAD UPGRADE**
Title **DRAINAGE PLAN**
SHEET 1 OF 7

Original Size **A3** Drawing No: **22-18378-C040**

Rev: **C**



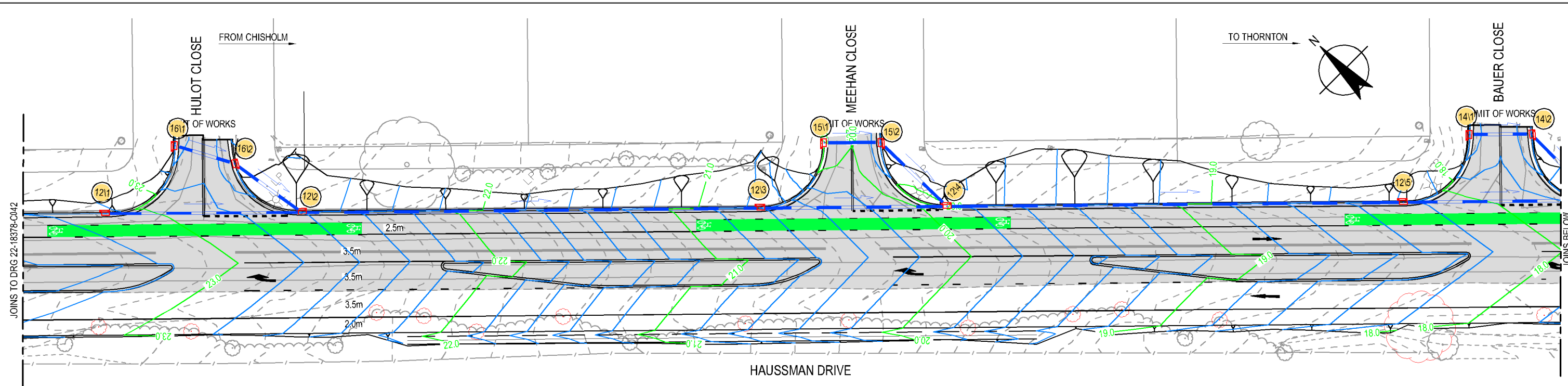
LEGEND:

— 5.0 —	DESIGN CONTOURS (1.0m MAJOR)	Ø375	PIPE SIZE AND FLOW DIRECTION
— 0.2 —	DESIGN CONTOURS (0.2m MINOR)	111	STORMWATER PIT ID AND TYPE
— 5.0 —	EXISTING CONTOURS	EXISTING STORMWATER PIT	
— Ø375 —	EXISTING STORMWATER PIPE	NEW STORMWATER PIT	
→	NEW DIVERSION BANK	NEW HEADWALL WITH CONCRETE APRON	
— —	NEW STORMWATER PIPE AND RCBC		

- NOTES:**
- PITS ARE SHOWN IN INDICATIVE LOCATIONS.
 - NO HYDRAULIC DESIGN HAS BEEN UNDERTAKEN AS PART OF THIS CONCEPT DESIGN. THIS IS TO BE CONDUCTED DURING DETAILED DESIGN.
 - LOCATION OF EXISTING DRAINAGE INFRASTRUCTURE HAS NOT BEEN IDENTIFIED IN MCC PROVIDED SURVEY.

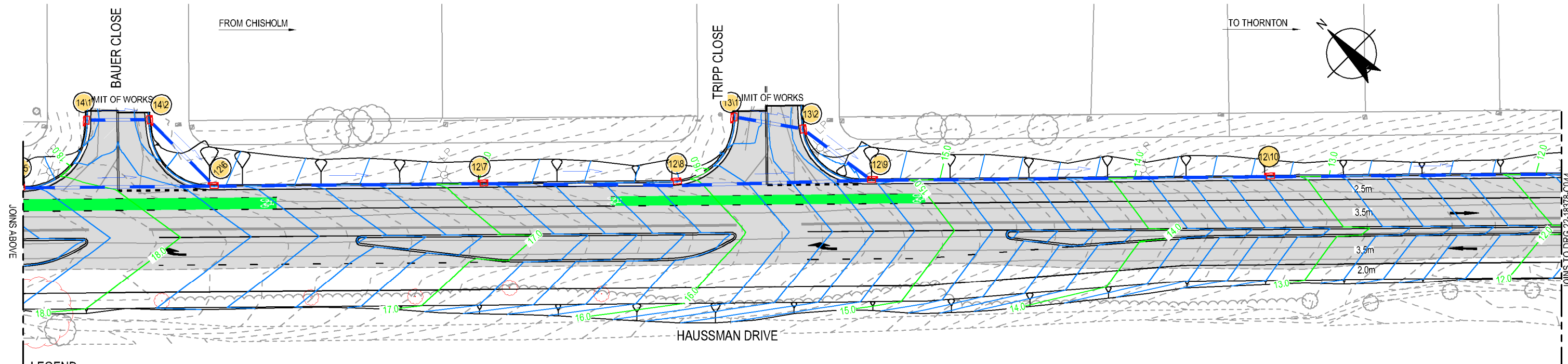
PRELIMINARY

					 SCALE 1:500 AT ORIGINAL SIZE					 GHD Tower, Level 3 24 Honeysuckle Drive, Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent, NSW 2310 T 61 2 4979 9999 F 61 2 4979 9988 E ntmall@ghd.com W www.ghd.com					DO NOT SCALE		Drawn R. COCKS		Designer N. HINCKS		Client		MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE DRAINAGE PLAN SHEET 3 OF 7					
C		FINAL CONCEPT DESIGN			RJC		GM		AS		06.10.17		Conditions of Use. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.		Drafting Check		Design Check		Project									
B		FINAL CONCEPT DESIGN			C.B		G.M		A.S		15.09.17				Approved (Project Director)				Title									
A		ISSUED FOR REVIEW			C.B		G.M		A.S		13.07.17						Date				Original Size							
No		Revision		Note: * Indicates signatures on original issue of drawing or last revision of drawing								Drawn		Job Manager		Project Director		Date		A3		Drawing No: 22-18378-C042					Rev: C	



HAUSSMAN DRIVE

PLAN
SCALE 1:500



HAUSSMAN DRIVE

PLAN
SCALE 1:500

LEGEND:

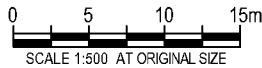
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|--|------|------------------------------|--|------|----------------------------------|
| | 5.0 | DESIGN CONTOURS (1.0m MAJOR) | | Ø375 | PIPE SIZE AND FLOW DIRECTION |
| | 5.0 | DESIGN CONTOURS (0.2m MINOR) | | 111 | STORMWATER PIT I.D AND TYPE |
| | 5.0 | EXISTING CONTOURS | | | EXISTING STORMWATER PIT |
| | Ø375 | EXISTING STORMWATER PIPE | | | NEW STORMWATER PIT |
| | | NEW DIVERSION BANK | | | NEW HEADWALL WITH CONCRETE APRON |
| | | NEW STORMWATER PIPE AND RCBC | | | |

NOTES:

- PITS ARE SHOWN IN INDICATIVE LOCATIONS.
- NO HYDRAULIC DESIGN HAS BEEN UNDERTAKEN AS PART OF THIS CONCEPT DESIGN. THIS IS TO BE CONDUCTED DURING DETAILED DESIGN.
- LOCATION OF EXISTING DRAINAGE INFRASTRUCTURE HAS NOT BEEN IDENTIFIED IN MCC PROVIDED SURVEY.

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No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
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B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17



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Drawn R. COCKS Designer N. HINCKS

Drafting Check Design Check

Approved (Project Director)

Date

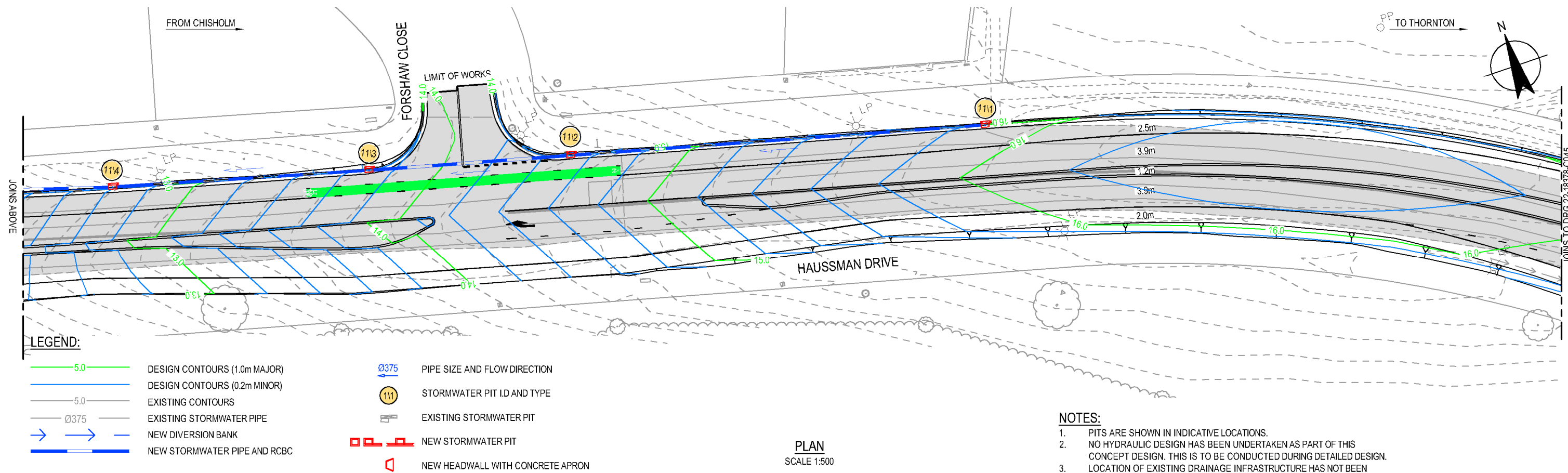
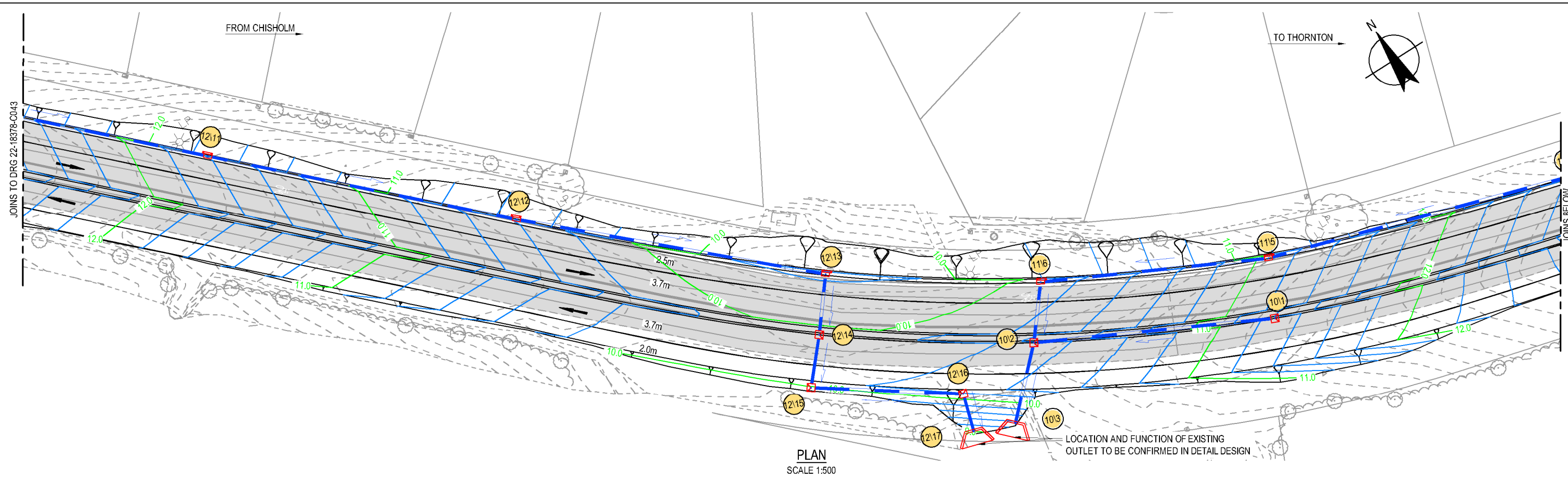
Scale AS SHOWN

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Client **MAITLAND CITY COUNCIL**
Project **HAUSSMAN DRIVE ROAD UPGRADE**
Title **DRAINAGE PLAN**
SHEET 4 OF 7

Original Size **A3** Drawing No: **22-18378-C043**

Rev: C



- LEGEND:**
- 5.0 DESIGN CONTOURS (1.0m MAJOR)
 - 5.0 DESIGN CONTOURS (0.2m MINOR)
 - 5.0 EXISTING CONTOURS
 - Ø375 EXISTING STORMWATER PIPE
 - NEW DIVERSION BANK
 - NEW STORMWATER PIPE AND RCBC
 - Ø375 PIPE SIZE AND FLOW DIRECTION
 - 111 STORMWATER PIT I.D. AND TYPE
 - EXISTING STORMWATER PIT
 - NEW STORMWATER PIT
 - NEW HEADWALL WITH CONCRETE APRON

- NOTES:**
- PITS ARE SHOWN IN INDICATIVE LOCATIONS.
 - NO HYDRAULIC DESIGN HAS BEEN UNDERTAKEN AS PART OF THIS CONCEPT DESIGN. THIS IS TO BE CONDUCTED DURING DETAILED DESIGN.
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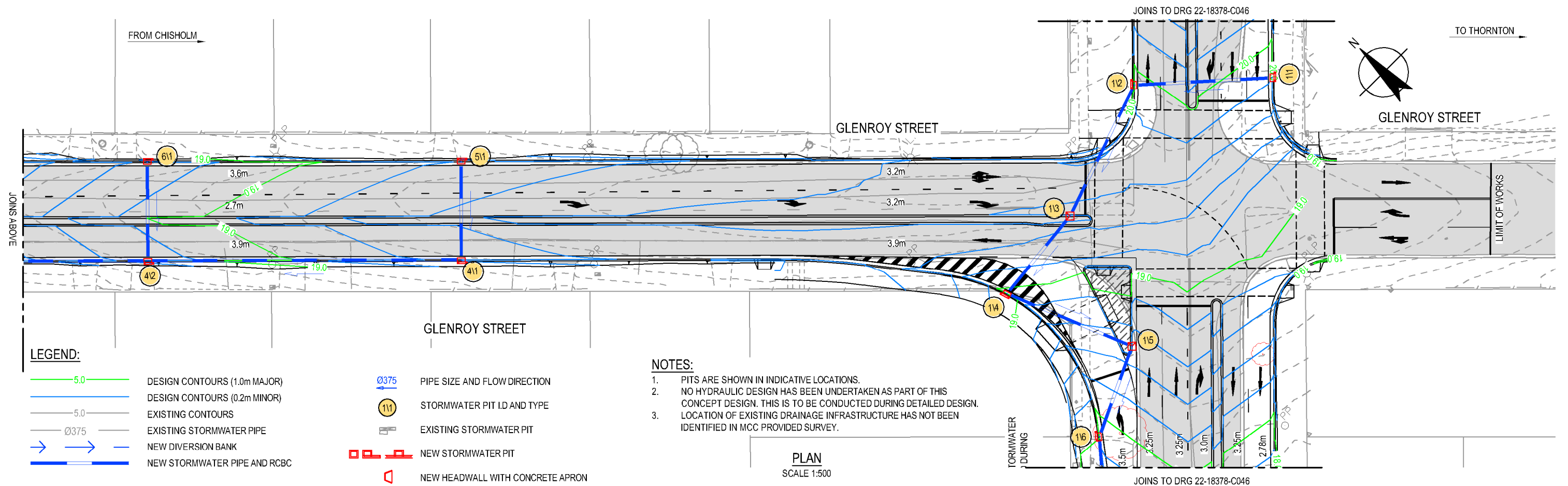
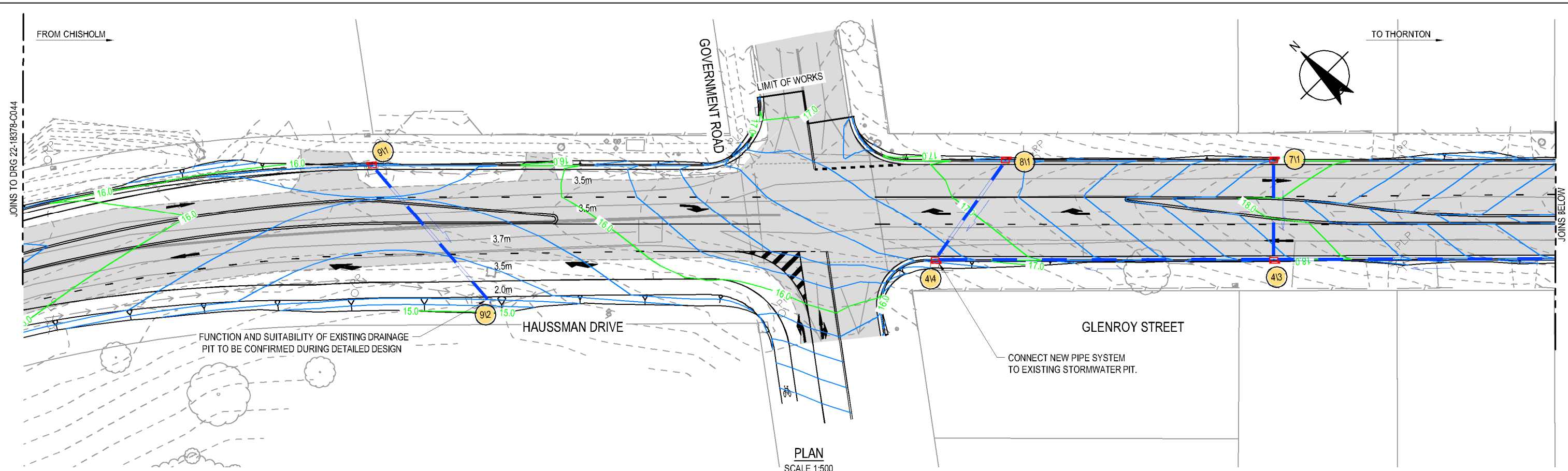
No	Revision	Note	Drawn	Job Manager	Project Director	Date
C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17

Plot Date: 6 October 2017 - 5:05 PM Plotted By: Bec Cocks



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		Approved (Project Director)				Title	DRAINAGE PLAN	
		Date				Original Size	SHEET 5 OF 7	
Scale	AS SHOWN	This Drawing must not be used for Construction unless signed as Approved				A3	Drawing No:	22-18378-C044
							Rev:	C

Cad File No: G:\22\18378\CA\Drawings\22-18378-C040.dwg



PRELIMINARY

No	Revision	Note	Drawn	Job Manager	Project Director	Date
C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17

Plot Date: 6 October 2017 - 5:05 PM

Plotted By: Bec Cocks

Cad File No: G:\22\18378\ICADD\Drawings\22-18378-C040.dwg



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Drawn R. COCKS

Designer N. HINCKS

Drafting Check

Design Check

Approved (Project Director)

Date

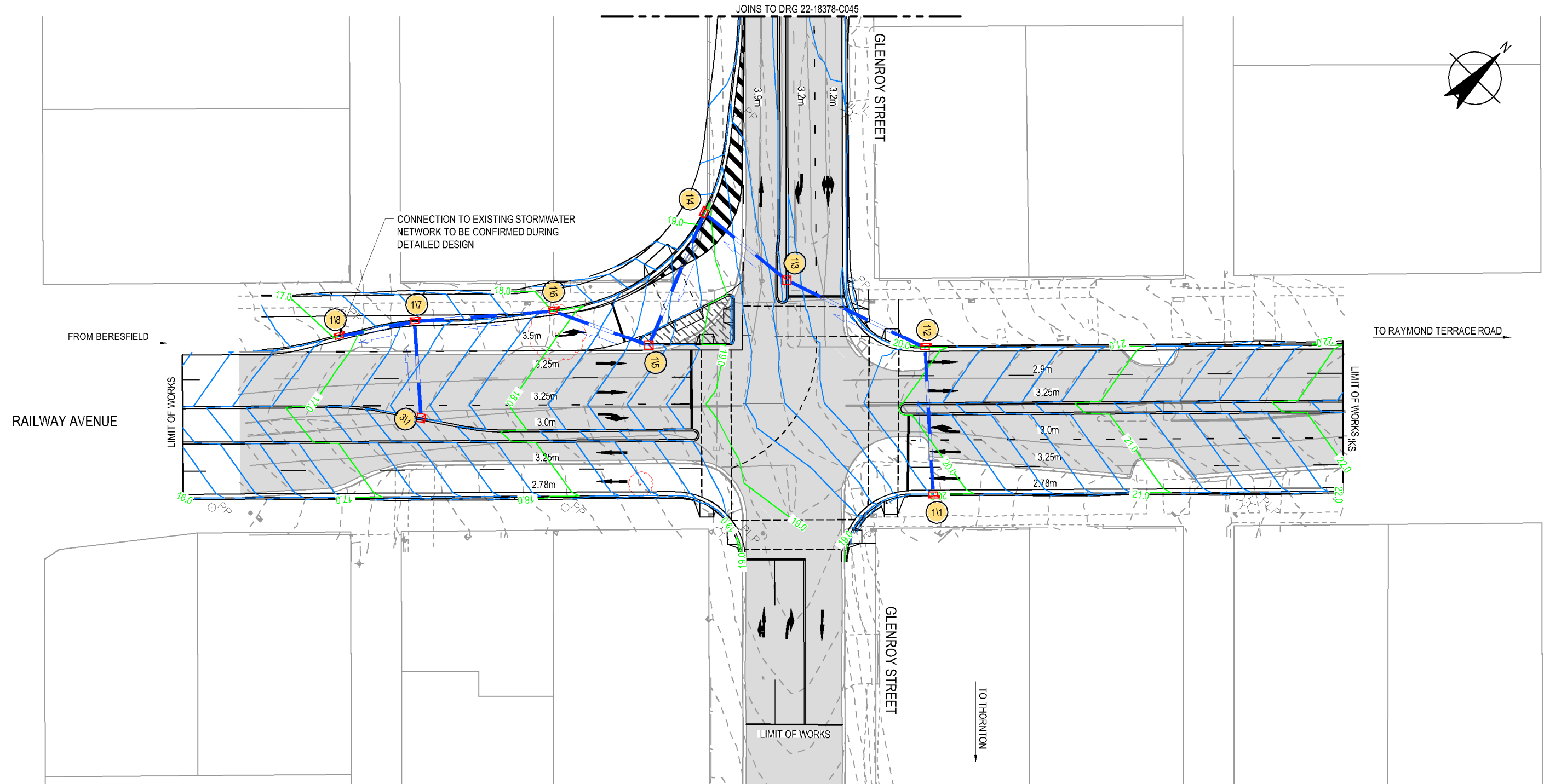
Scale AS SHOWN

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Client MAITLAND CITY COUNCIL
Project HAUSSMAN DRIVE ROAD UPGRADE
Title DRAINAGE PLAN
SHEET 6 OF 7

Original Size A3 Drawing No: 22-18378-C045

Rev: C



LEGEND:

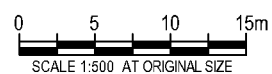
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| | 5.0 | DESIGN CONTOURS (1.0m MAJOR) | | Ø375 | PIPE SIZE AND FLOW DIRECTION |
| | 0.2 | DESIGN CONTOURS (0.2m MINOR) | | 111 | STORMWATER PIT I.D AND TYPE |
| | 5.0 | EXISTING CONTOURS | | | EXISTING STORMWATER PIT |
| | Ø375 | EXISTING STORMWATER PIPE | | | NEW STORMWATER PIT |
| | | NEW DIVERSION BANK | | | NEW HEADWALL WITH CONCRETE APRON |
| | | NEW STORMWATER PIPE AND RCBC | | | |

NOTES:

- PITS ARE SHOWN IN INDICATIVE LOCATIONS.
- NO HYDRAULIC DESIGN HAS BEEN UNDERTAKEN AS PART OF THIS CONCEPT DESIGN. THIS IS TO BE CONDUCTED DURING DETAILED DESIGN.
- LOCATION OF EXISTING DRAINAGE INFRASTRUCTURE HAS NOT BEEN IDENTIFIED IN MCC PROVIDED SURVEY.

PRELIMINARY

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17



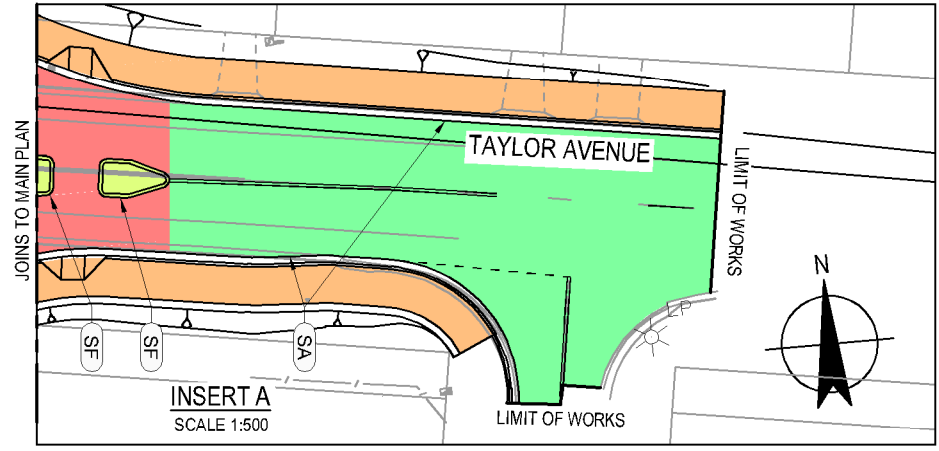
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Drawn	R. COCKS	Designer	N. HINCKS
Drafting Check		Design Check	
Approved (Project Director)		Date	
Scale	AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	

Client	MAITLAND CITY COUNCIL		
Project	HAUSSMAN DRIVE ROAD UPGRADE		
Title	DRAINAGE PLAN		
	SHEET 7 OF 7		
Original Size	A3	Drawing No:	22-18378-C046
Rev:	C		



- LEGEND:**
- TYPE 1 - UNBOUND PAVEMENT WITH AC
 - TYPE 2 - UNBOUND PAVEMENT WITH 2 COAT SEAL
 - TYPE 3 - CONCRETE ROUNDABOUT PAVEMENT
 - TYPE 4 - CONCRETE MEDIAN
 - TYPE 5 - SHARED PATHWAY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date

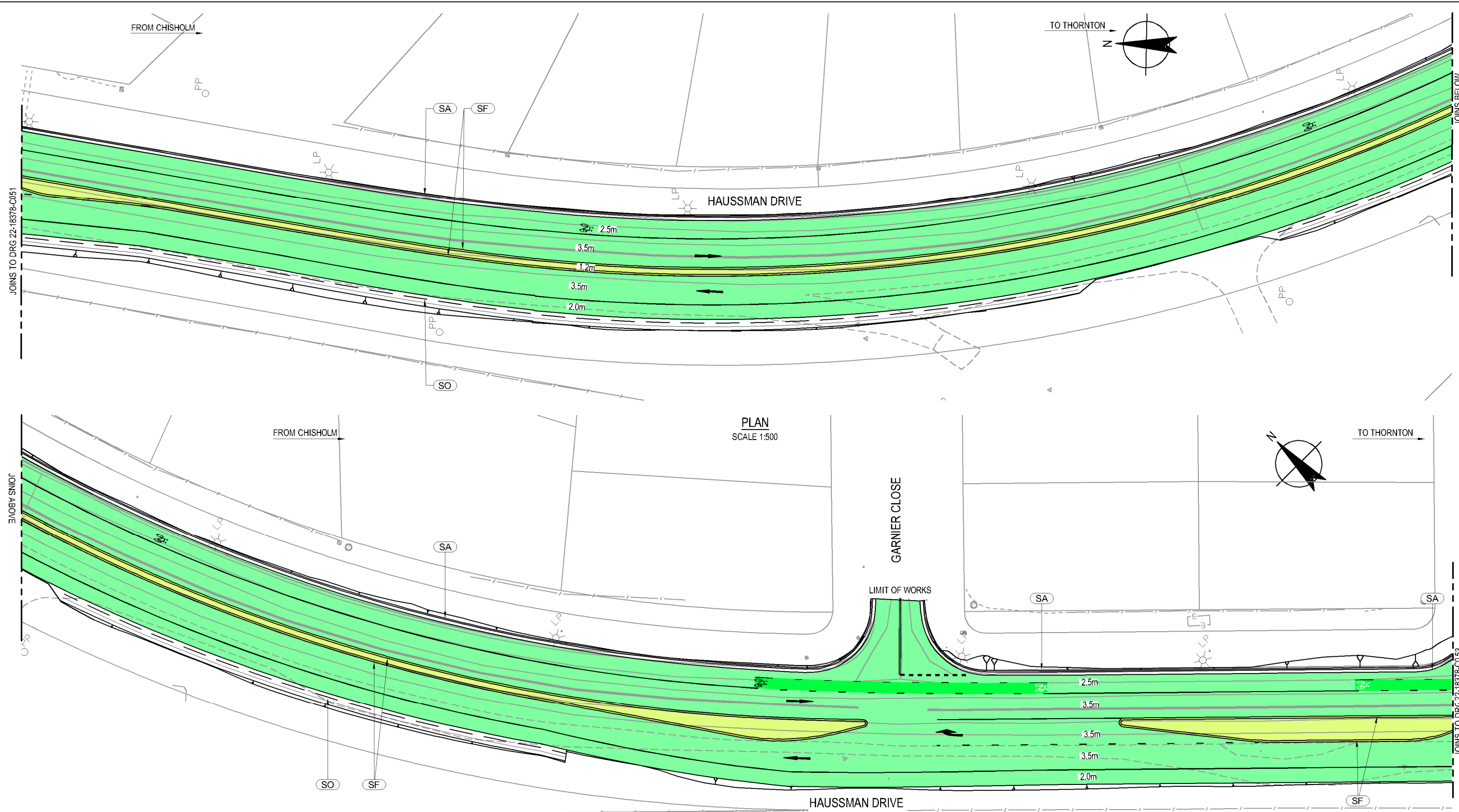


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DO NOT SCALE	Drawn R. COCKS	Designer N. HINCKS
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	Approved (Project Director)	Date
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	Maitland City Council
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	PAVEMENT PLAN SHEET 2 OF 7
Original Size	A3
Drawing No:	22-18378-C051
Rev:	C



LEGEND:

- TYPE 1 - UNBOUND PAVEMENT WITH AC
- TYPE 2 - UNBOUND PAVEMENT WITH 2 COAT SEAL
- TYPE 3 - CONCRETE ROUNDABOUT PAVEMENT
- TYPE 4 - CONCRETE MEDIAN
- TYPE 5 - SHARED PATHWAY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date

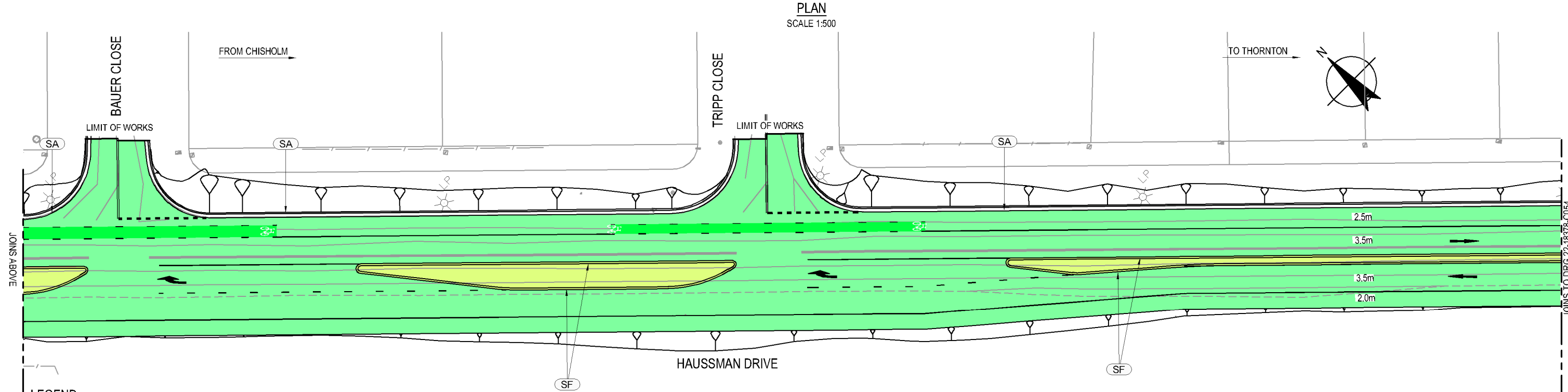
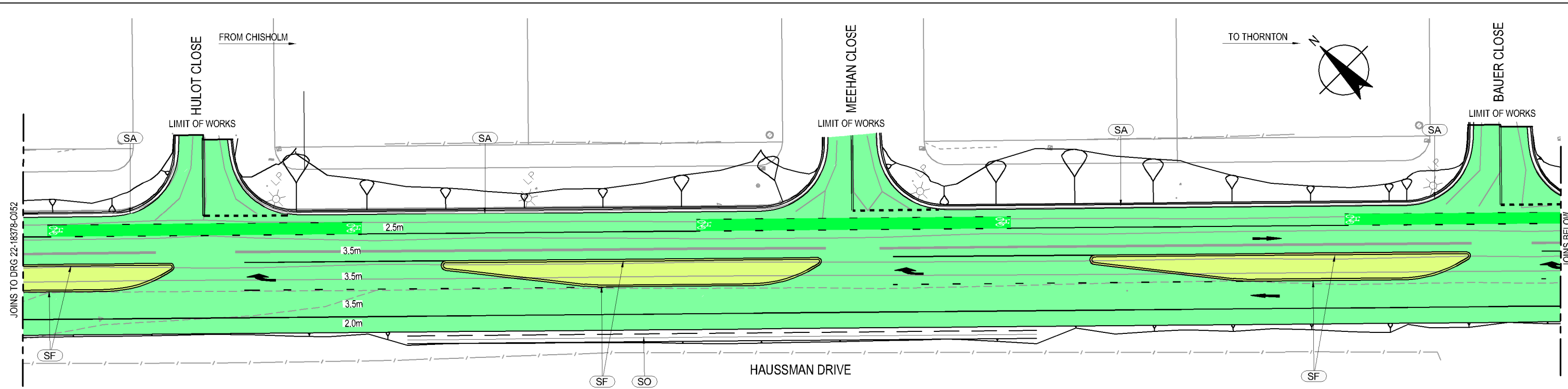


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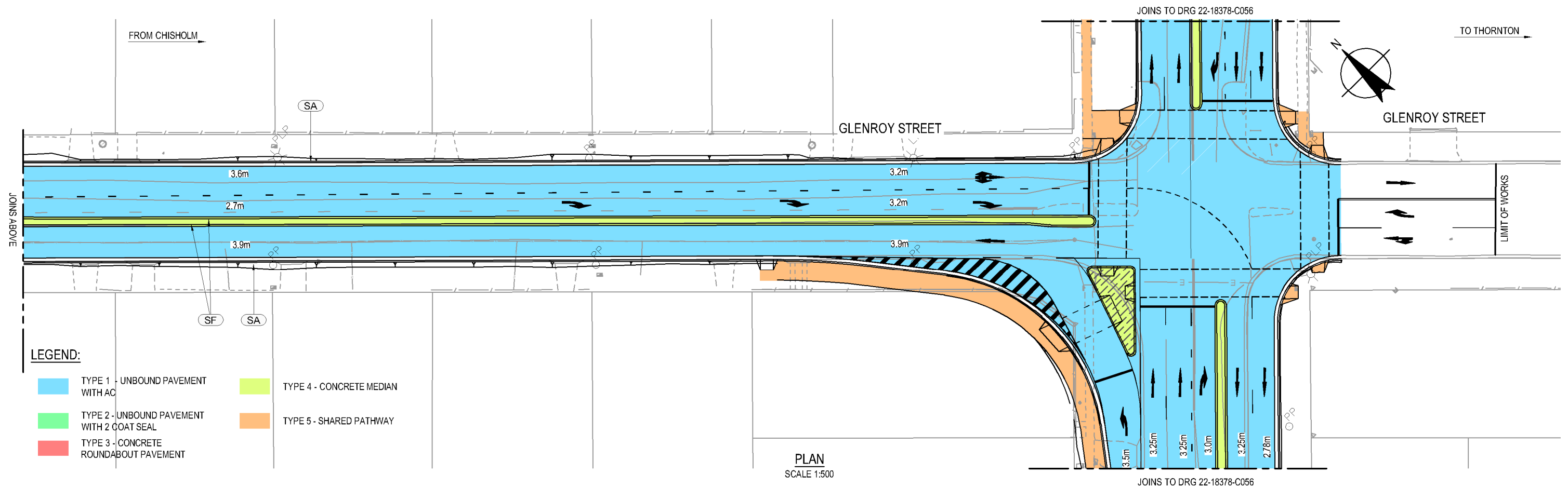
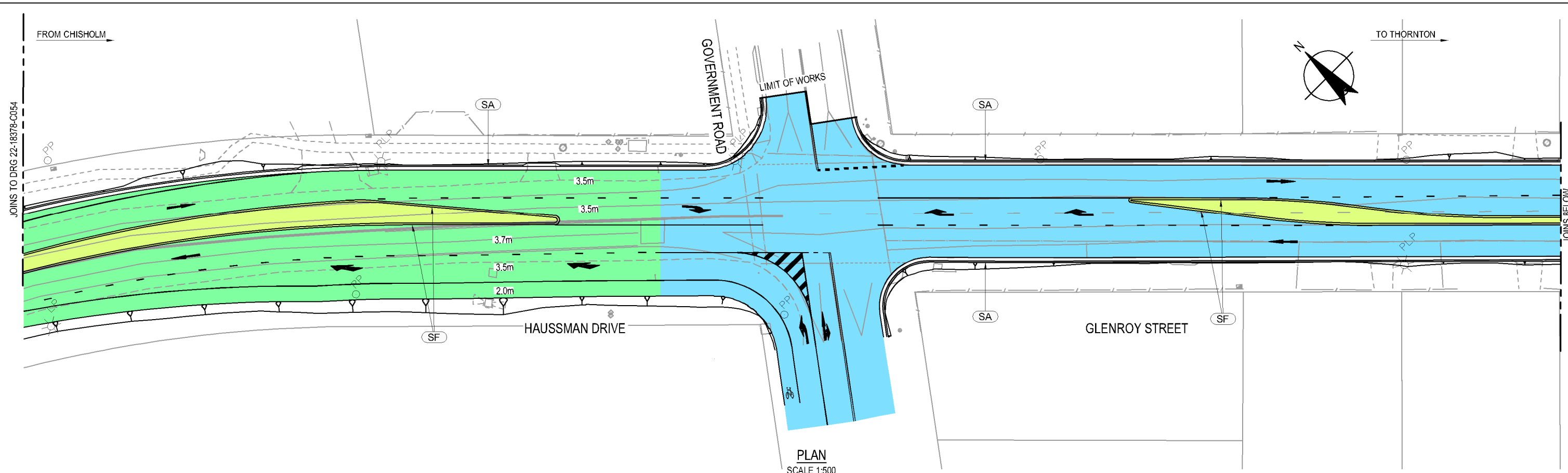
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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	PAVEMENT PLAN
Original Size	A3
Drawing No:	22-18378-C052
Rev:	C



- LEGEND:**
- TYPE 1 - UNBOUND PAVEMENT WITH AC
 - TYPE 2 - UNBOUND PAVEMENT WITH 2 COAT SEAL
 - TYPE 3 - CONCRETE ROUNDABOUT PAVEMENT
 - TYPE 4 - CONCRETE MEDIAN
 - TYPE 5 - SHARED PATHWAY

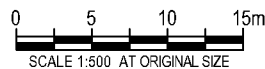
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C	FINAL CONCEPT DESIGN				RJC	GM	AS	06.10.17	Drafting Check		Design Check													
B	FINAL CONCEPT DESIGN				C.B	G.M	A.S	15.09.17	Approved (Project Director)															
A	ISSUED FOR REVIEW				C.B	G.M	A.S	13.07.17	Date															
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LEGEND:

- | | |
|--|--------------------------|
| TYPE 1 - UNBOUND PAVEMENT WITH AC | TYPE 4 - CONCRETE MEDIAN |
| TYPE 2 - UNBOUND PAVEMENT WITH 2 COAT SEAL | TYPE 5 - SHARED PATHWAY |
| TYPE 3 - CONCRETE ROUNDABOUT PAVEMENT | |

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date



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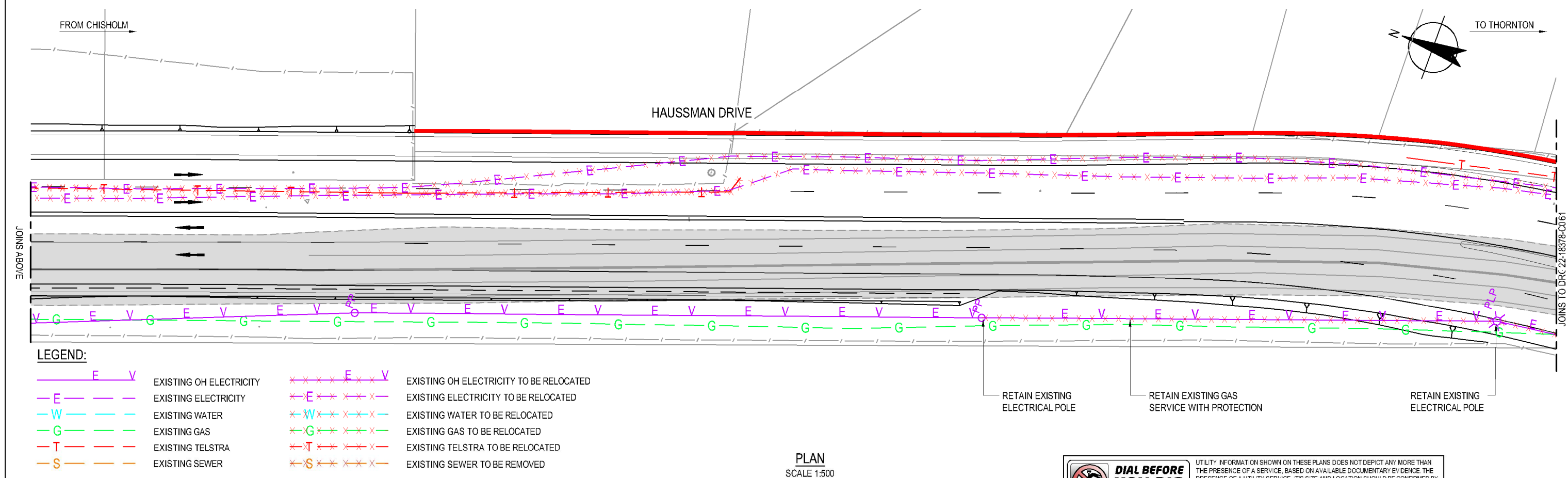
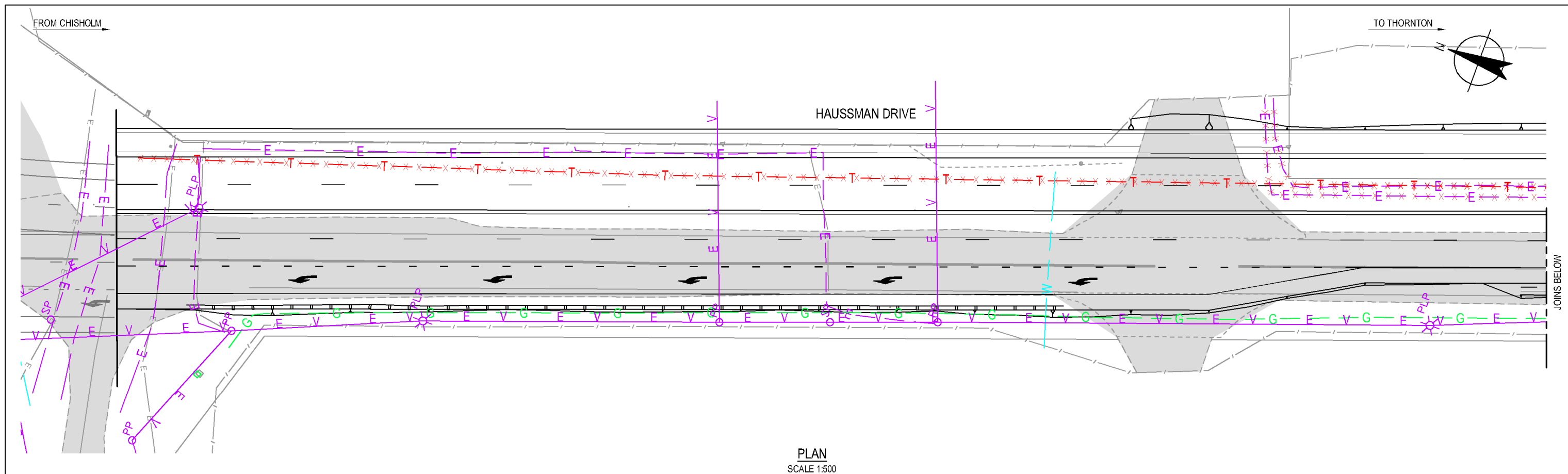
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Drafting		Design	
Check		Check	
Approved		(Project Director)	
Date			
Scale	AS SHOWN		

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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	PAVEMENT PLAN
	SHEET 6 OF 7
Original Size	A3
Drawing No:	22-18378-C055
Rev:	C



C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date



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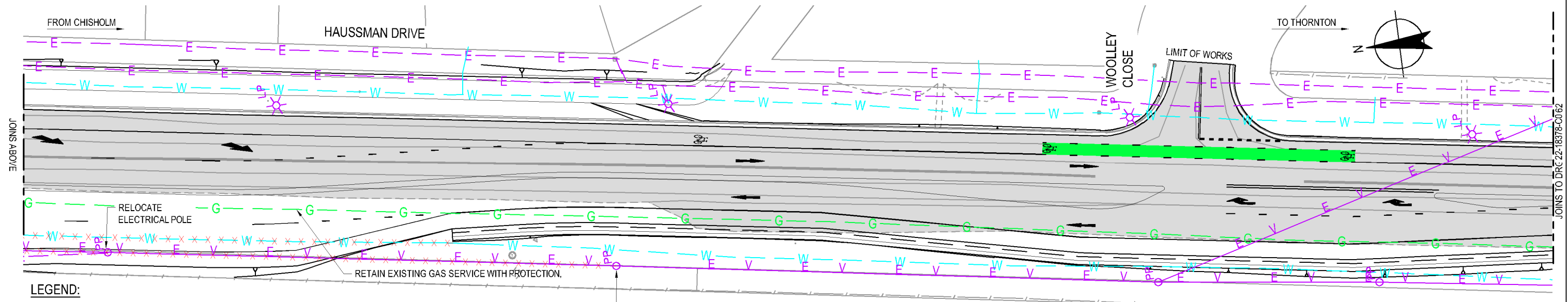
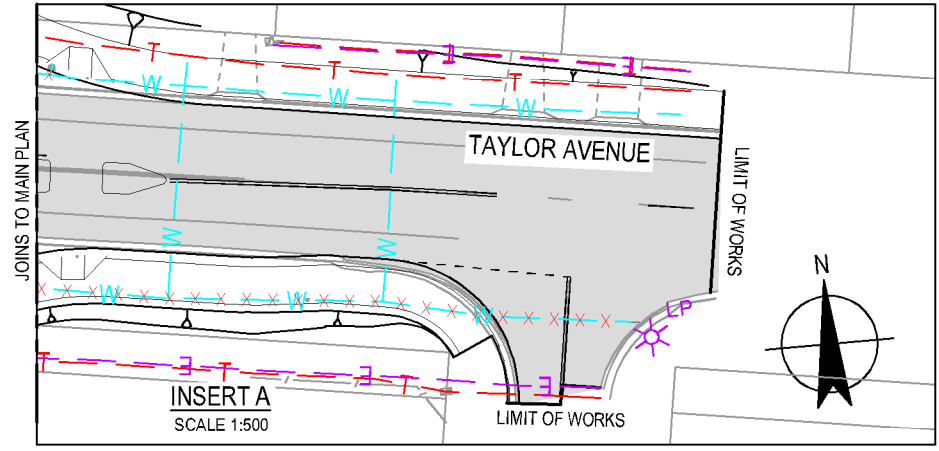
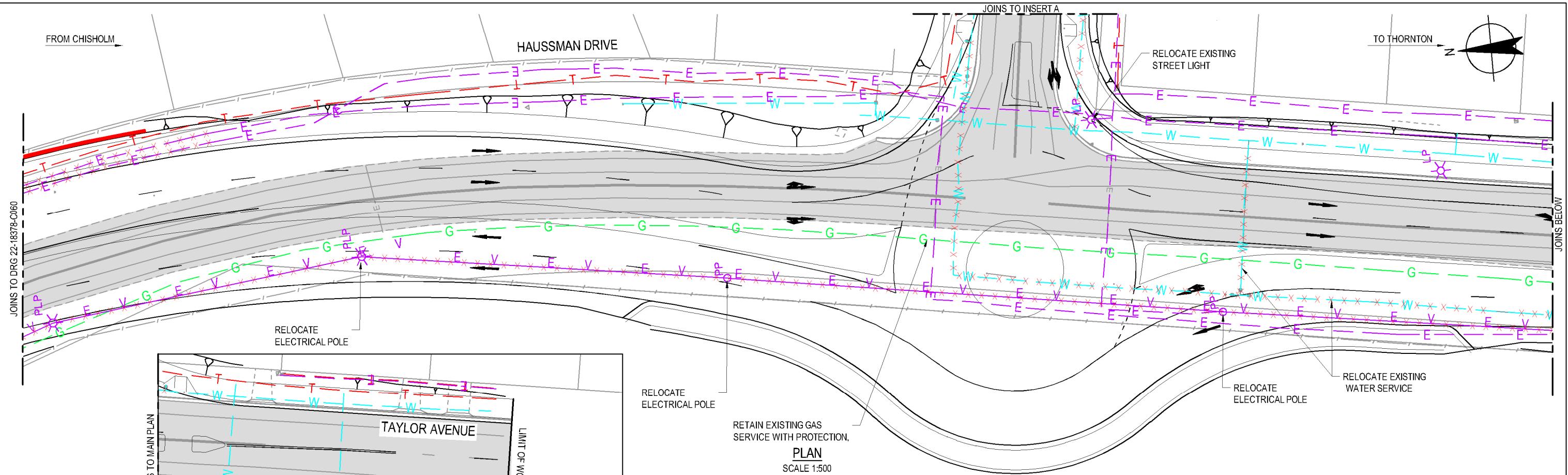
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PRELIMINARY

Client **MAITLAND CITY COUNCIL**
Project **HAUSSMAN DRIVE ROAD UPGRADE**
Title **UTILITIES PLAN**
SHEET 1 OF 7

Original Size **A3** Drawing No: **22-18378-C060**

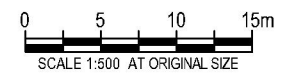
Rev: **C**



LEGEND:

	EXISTING OH ELECTRICITY		EXISTING OH ELECTRICITY TO BE RELOCATED
	EXISTING ELECTRICITY		EXISTING ELECTRICITY TO BE RELOCATED
	EXISTING WATER		EXISTING WATER TO BE RELOCATED
	EXISTING GAS		EXISTING GAS TO BE RELOCATED
	EXISTING TELSTRA		EXISTING TELSTRA TO BE RELOCATED
	EXISTING SEWER		EXISTING SEWER TO BE REMOVED

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date



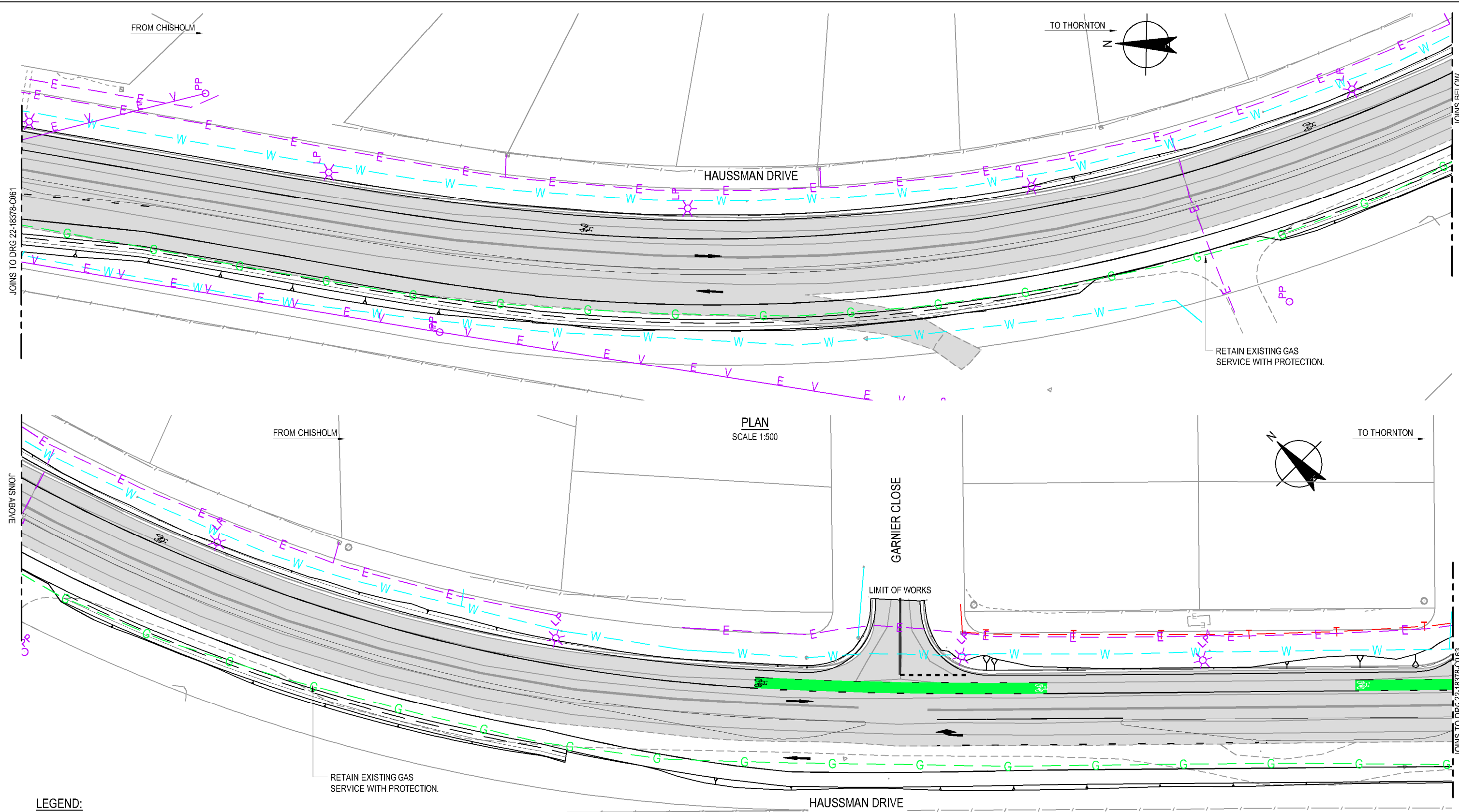
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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	UTILITIES PLAN
	SHEET 2 OF 7
Original Size	A3
Drawing No:	22-18378-C061
Rev:	C



- LEGEND:**
- | | | | |
|--|-------------------------|--|---|
| | EXISTING OH ELECTRICITY | | EXISTING OH ELECTRICITY TO BE RELOCATED |
| | EXISTING ELECTRICITY | | EXISTING ELECTRICITY TO BE RELOCATED |
| | EXISTING WATER | | EXISTING WATER TO BE RELOCATED |
| | EXISTING GAS | | EXISTING GAS TO BE RELOCATED |
| | EXISTING TELSTRA | | EXISTING TELSTRA TO BE RELOCATED |
| | EXISTING SEWER | | EXISTING SEWER TO BE REMOVED |

PLAN
SCALE 1:500



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No	Revision	Note	Drawn	Job Manager	Project Director	Date
C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17

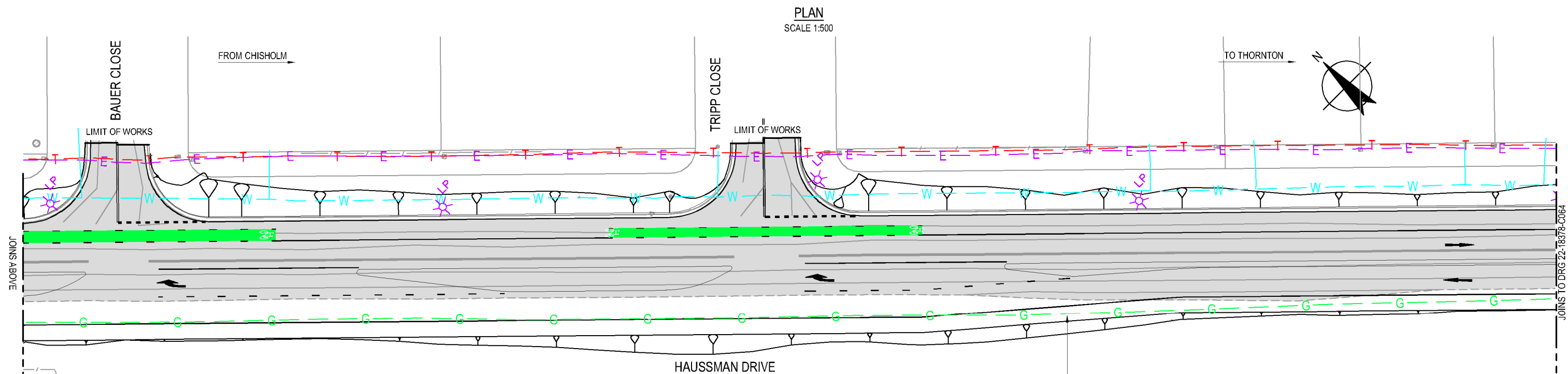
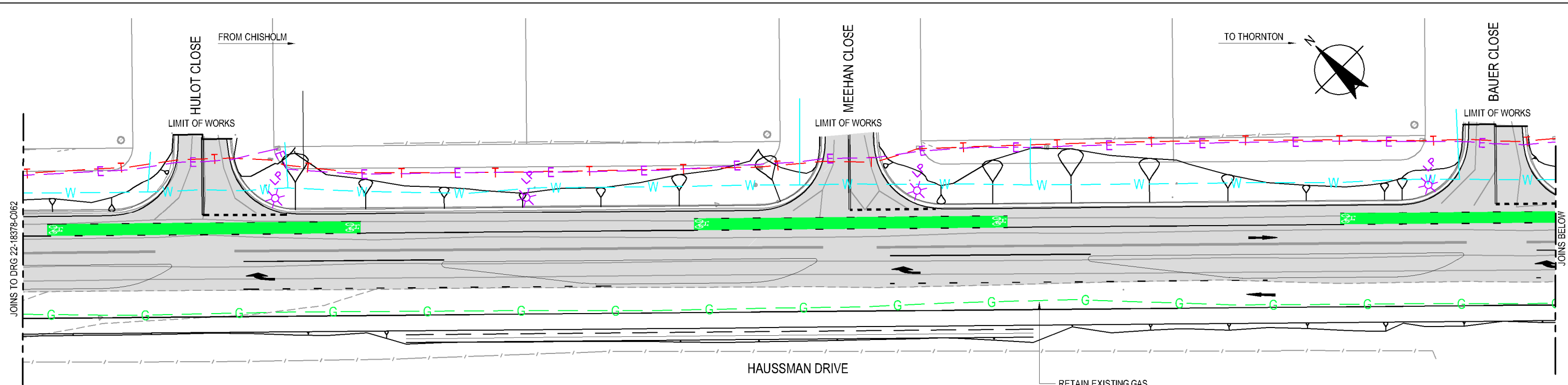




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	Date	
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	

Client	MAITLAND CITY COUNCIL		
Project	HAUSSMAN DRIVE ROAD UPGRADE		
Title	UTILITIES PLAN		
	SHEET 3 OF 7		
Original Size	A3	Drawing No:	22-18378-C062
Rev:	C		



LEGEND:

	EXISTING OH ELECTRICITY		EXISTING OH ELECTRICITY TO BE RELOCATED
	EXISTING ELECTRICITY		EXISTING ELECTRICITY TO BE RELOCATED
	EXISTING WATER		EXISTING WATER TO BE RELOCATED
	EXISTING GAS		EXISTING GAS TO BE RELOCATED
	EXISTING TELSTRA		EXISTING TELSTRA TO BE RELOCATED
	EXISTING SEWER		EXISTING SEWER TO BE REMOVED

PLAN
SCALE 1:500



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C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
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A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17



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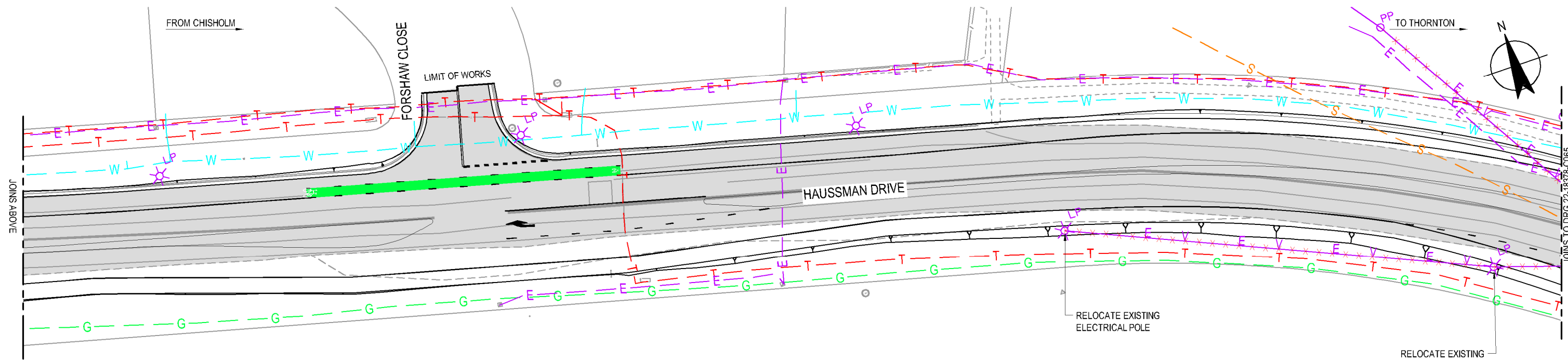
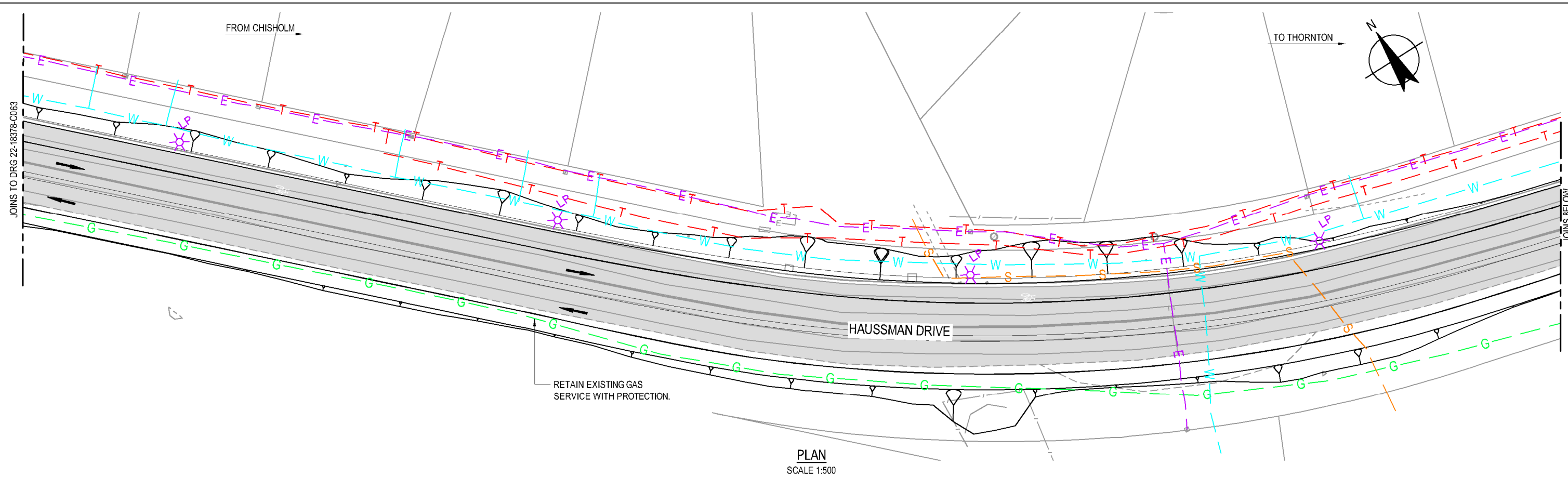
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Approved (Project Director)		Date	
Scale	AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	

Client **MAITLAND CITY COUNCIL**
Project **HAUSSMAN DRIVE ROAD UPGRADE**
Title **UTILITIES PLAN**
SHEET 4 OF 7

Original Size **A3** Drawing No: **22-18378-C063**

Rev: C



LEGEND:

- | | | | |
|--|-------------------------|--|---|
| | EXISTING OH ELECTRICITY | | EXISTING OH ELECTRICITY TO BE RELOCATED |
| | EXISTING ELECTRICITY | | EXISTING ELECTRICITY TO BE RELOCATED |
| | EXISTING WATER | | EXISTING WATER TO BE RELOCATED |
| | EXISTING GAS | | EXISTING GAS TO BE RELOCATED |
| | EXISTING TELSTRA | | EXISTING TELSTRA TO BE RELOCATED |
| | EXISTING SEWER | | EXISTING SEWER TO BE REMOVED |

PLAN
SCALE 1:500



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C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17

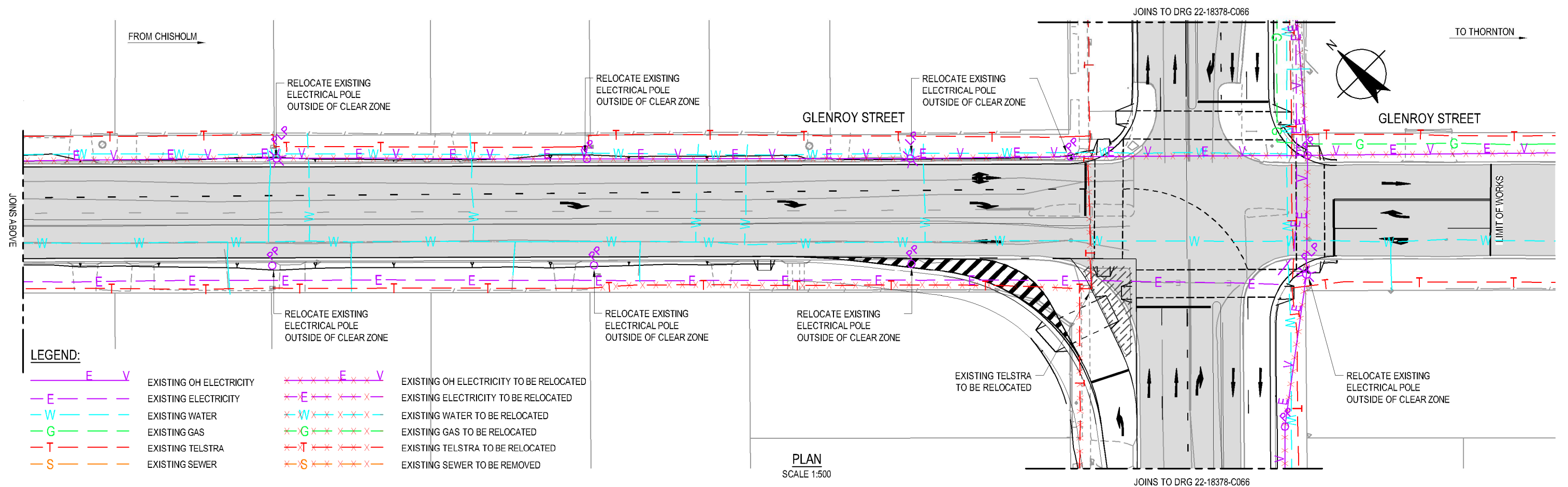
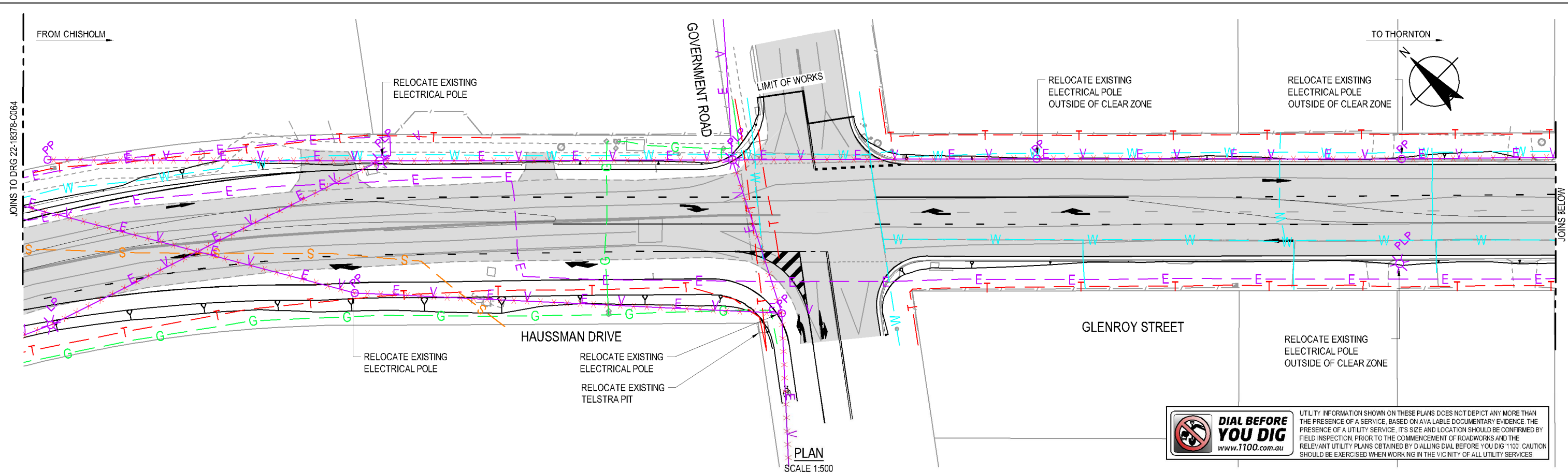


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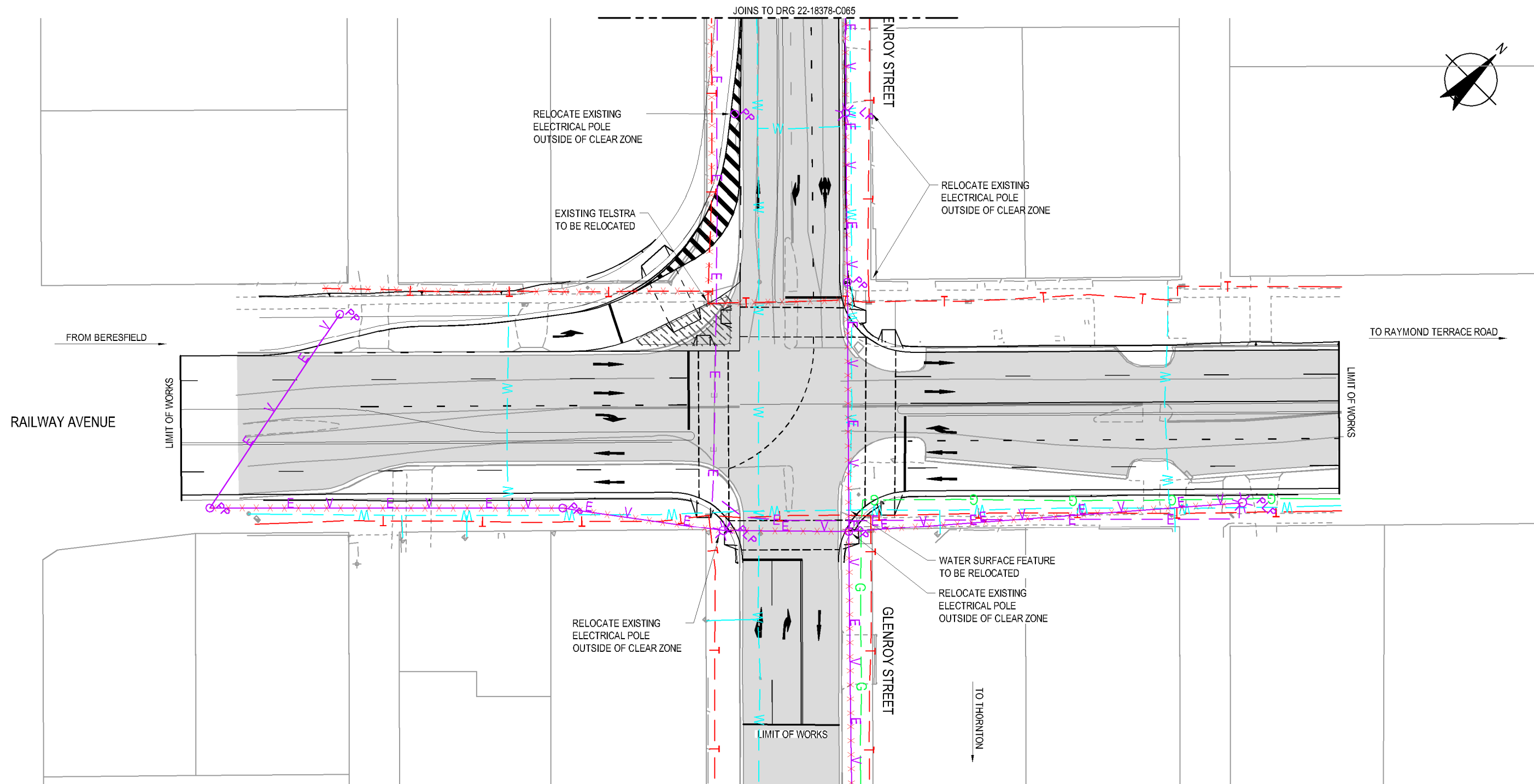
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Approved (Project Director)		Date	
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Client	Maitland City Council
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	UTILITIES PLAN SHEET 5 OF 7
Original Size	A3
Drawing No:	22-18378-C064
Rev:	C



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												Drafting Check		Design Check		Project			
C FINAL CONCEPT DESIGN						RJC		GM		AS		06.10.17		Approved (Project Director)		Date		UTILITIES PLAN SHEET 6 OF 7	
B FINAL CONCEPT DESIGN						C.B		G.M		A.S		15.09.17							
A ISSUED FOR REVIEW						C.B		G.M		A.S		13.07.17							
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PLAN
SCALE 1:500

LEGEND:

	EXISTING OH ELECTRICITY		EXISTING OH ELECTRICITY TO BE RELOCATED
	EXISTING ELECTRICITY		EXISTING ELECTRICITY TO BE RELOCATED
	EXISTING WATER		EXISTING WATER TO BE RELOCATED
	EXISTING GAS		EXISTING GAS TO BE RELOCATED
	EXISTING TELSTRA		EXISTING TELSTRA TO BE RELOCATED
	EXISTING SEWER		EXISTING SEWER TO BE REMOVED



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A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17



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Approved (Project Director)		Date	
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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	UTILITIES PLAN SHEET 7 OF 7
Original Size	A3
Drawing No:	22-18378-C066

Rev: C



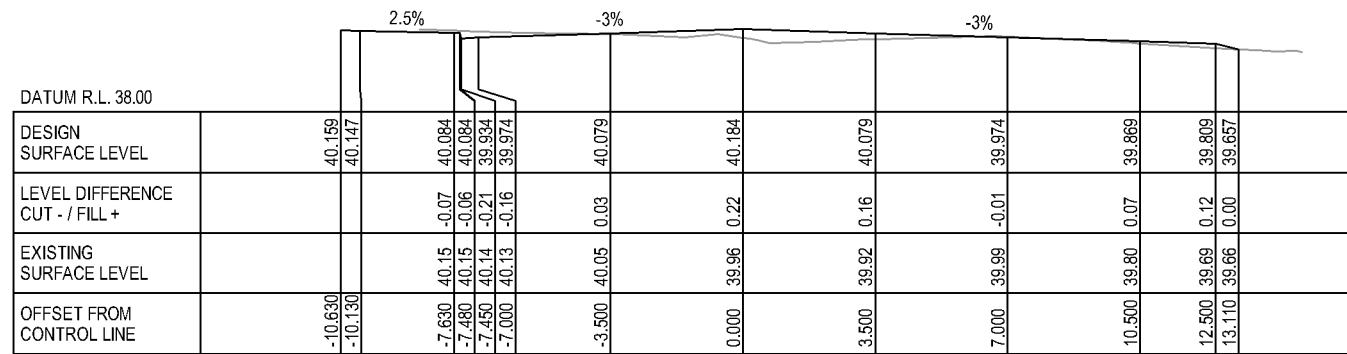
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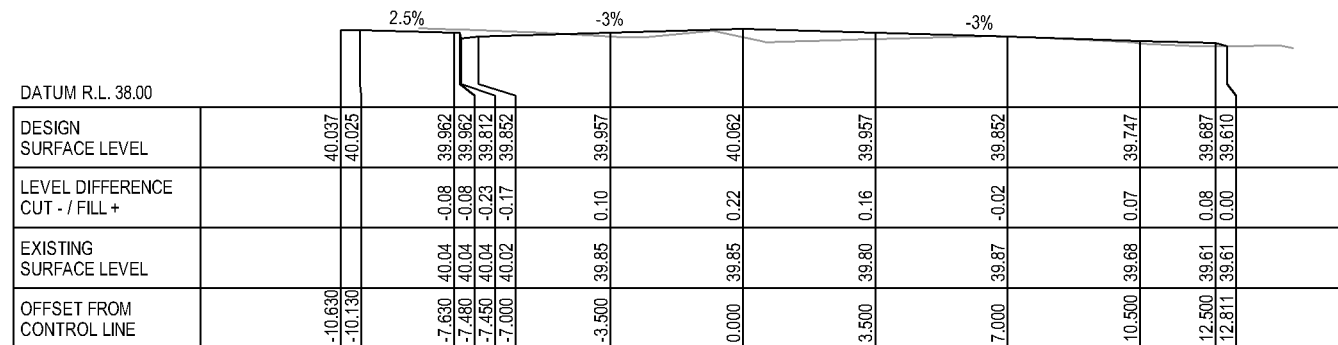
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Original Size
 A3 Drawing No: 22-18378-C070

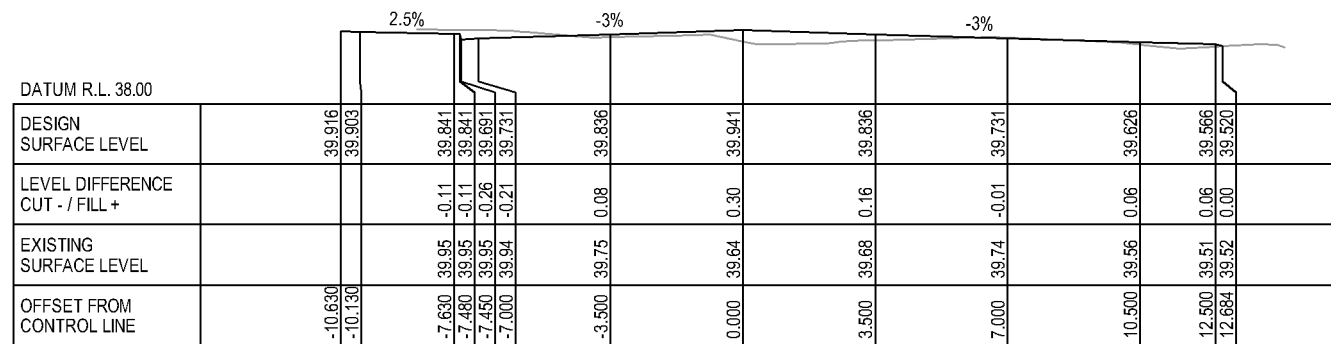
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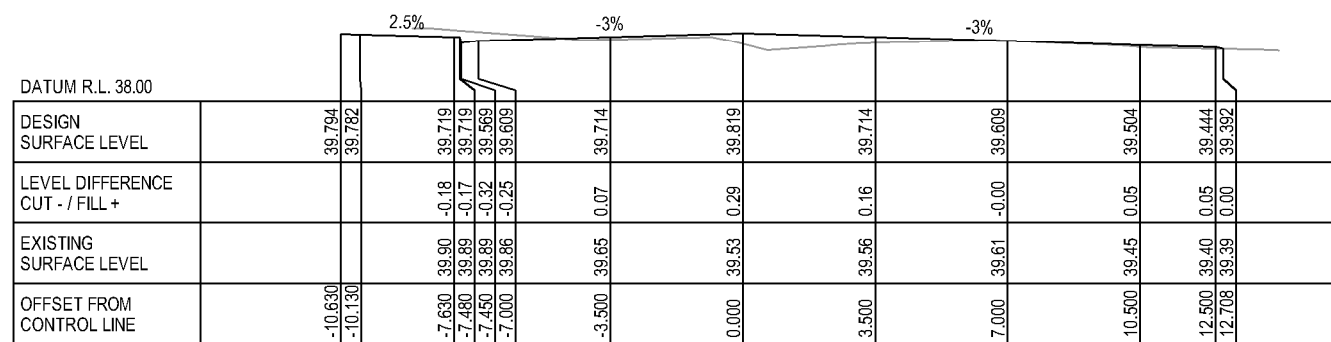
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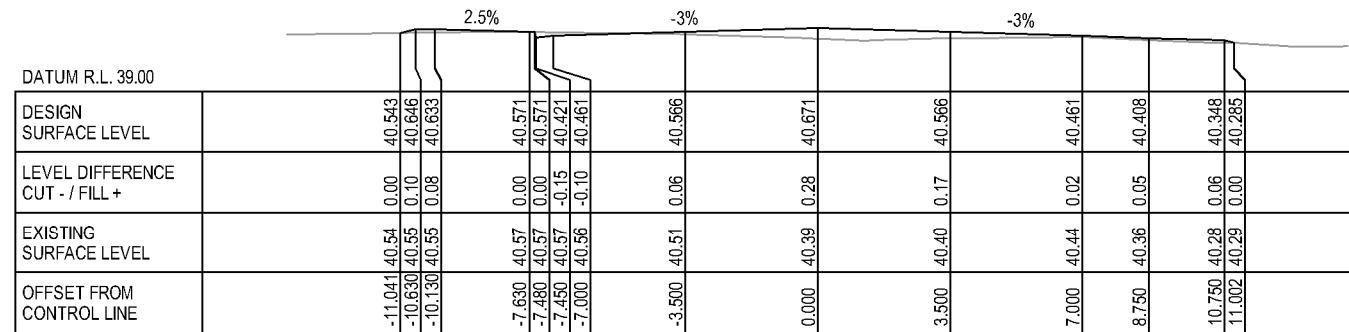
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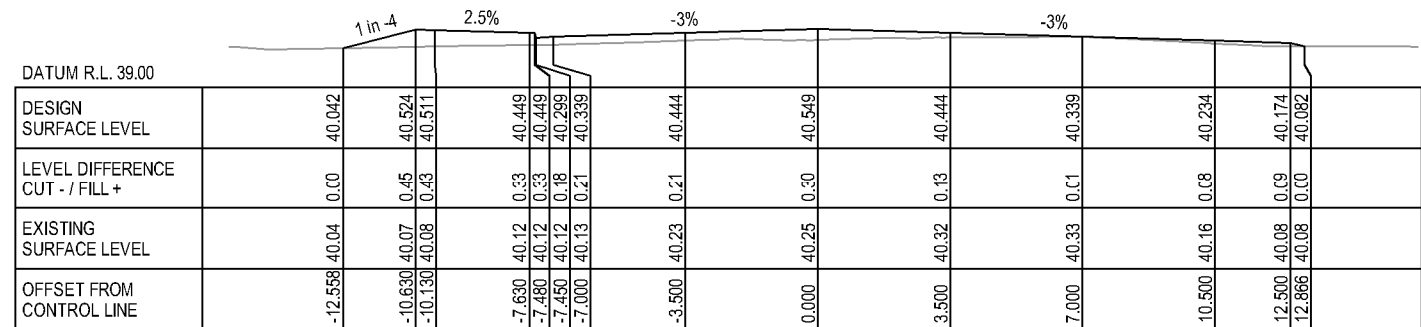
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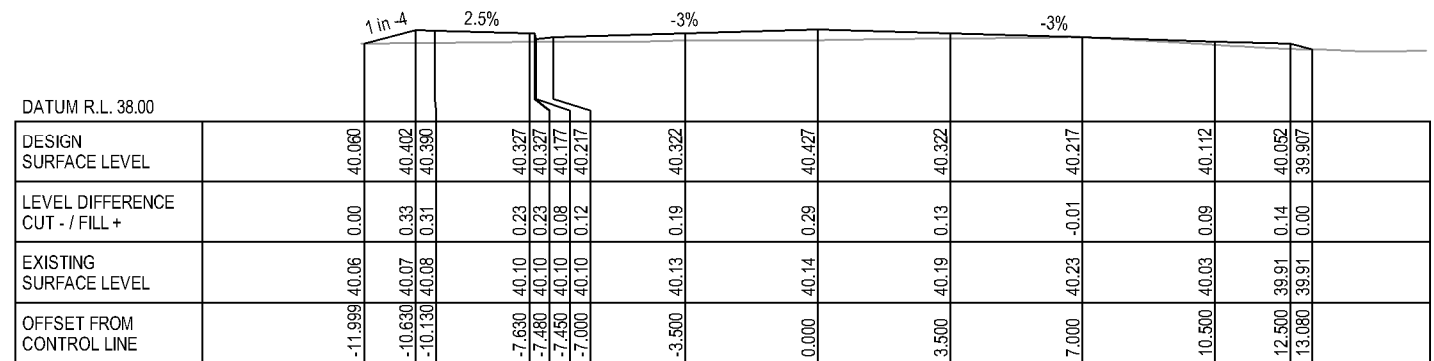
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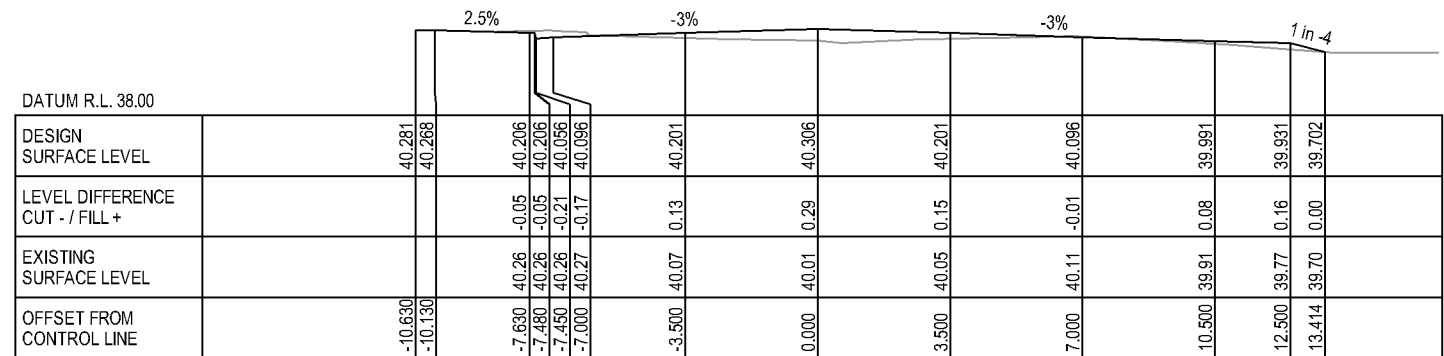
CH 150



CH 140



CH 130



CH 120

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200



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Drawn R. COCKS

Designer N. HINCKS

	Drafting
	Check

	Design
	Check

Check
Approved

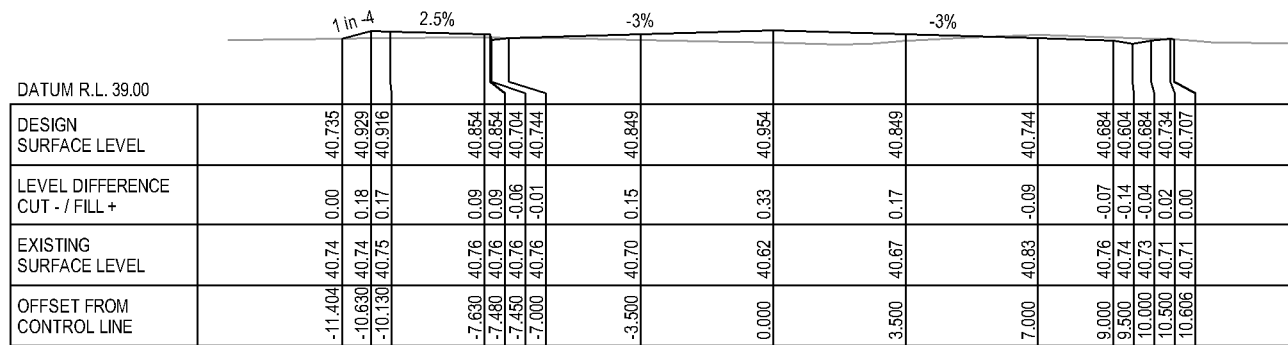
Date

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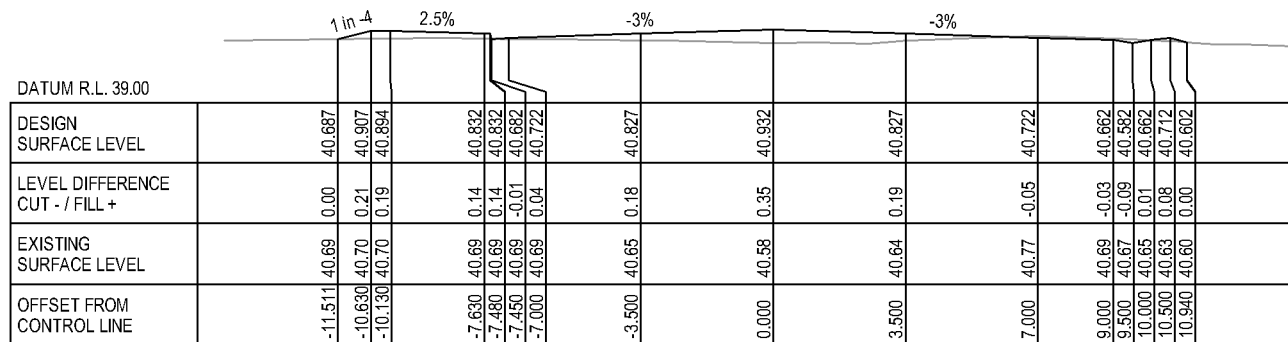
Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 2 OF 35

Original Size
 SS **A3** Drawing No: **22-18378-C071**

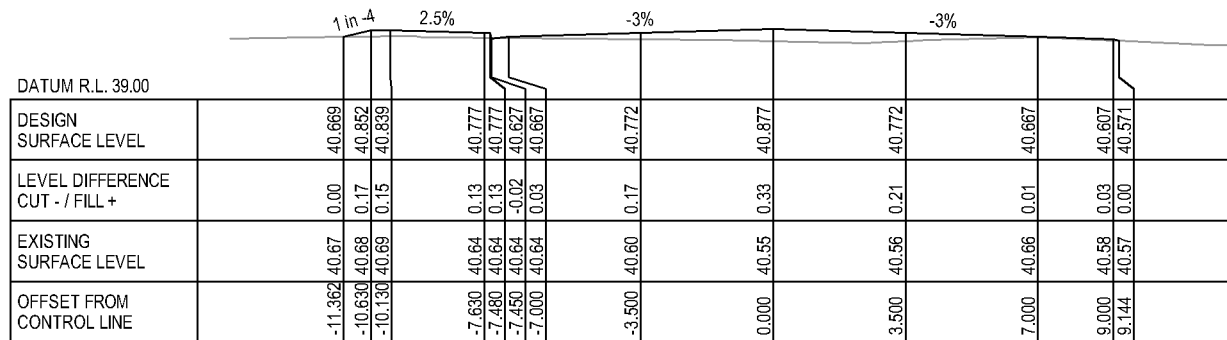
ev: **C**



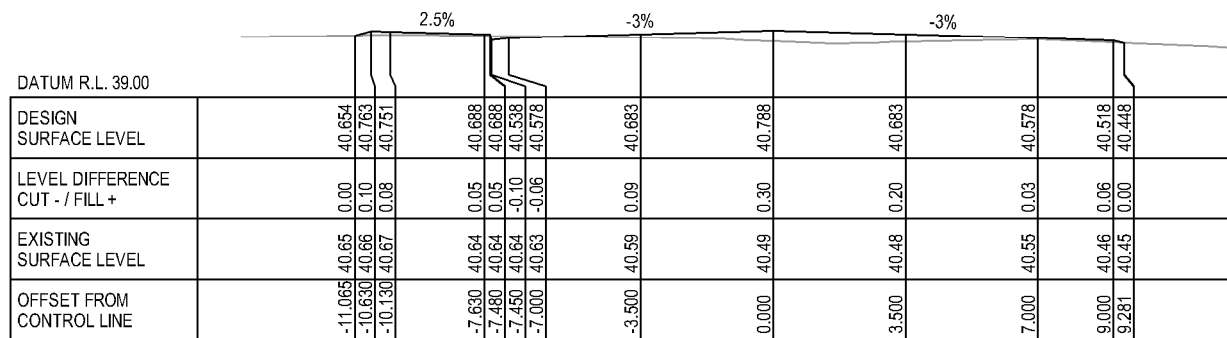
CH 190



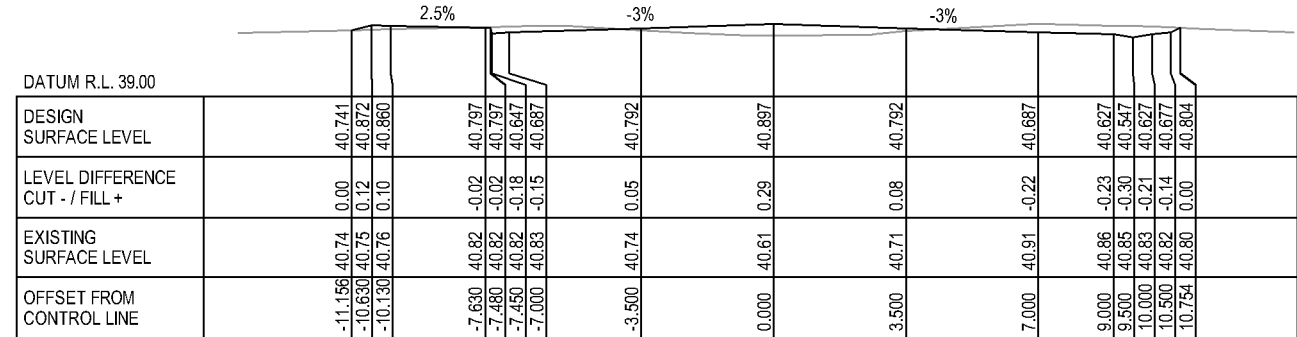
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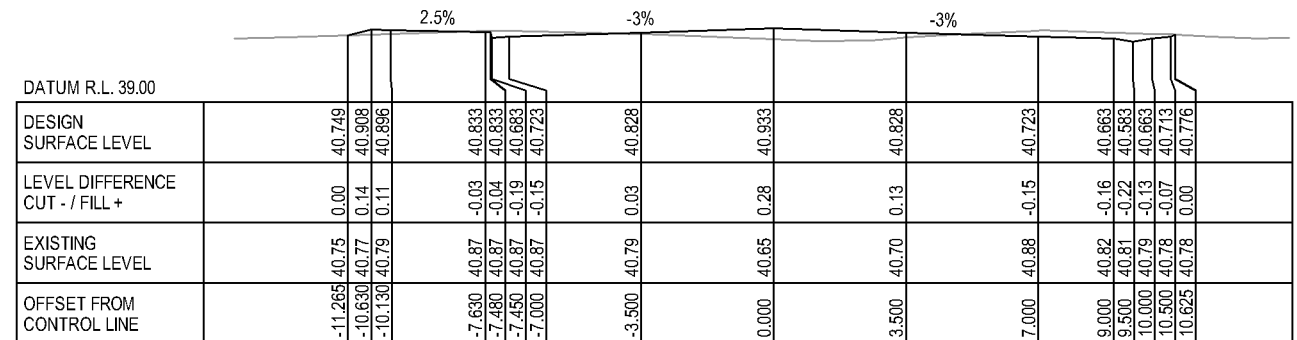
CH 170



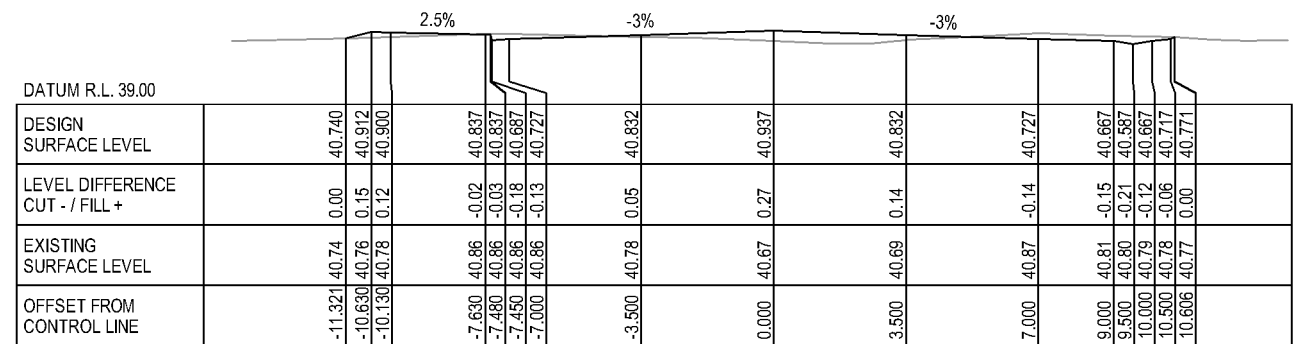
CH 160



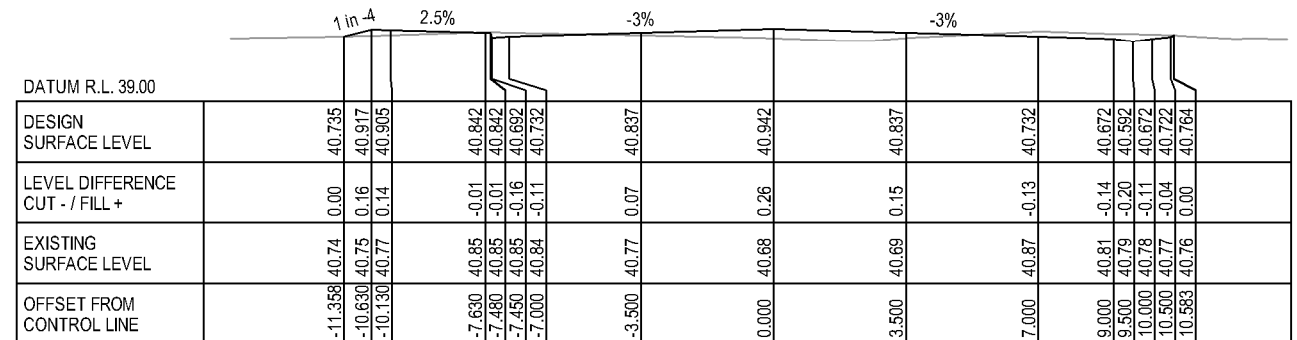
CH 210



CH 202.774



CH 201.557

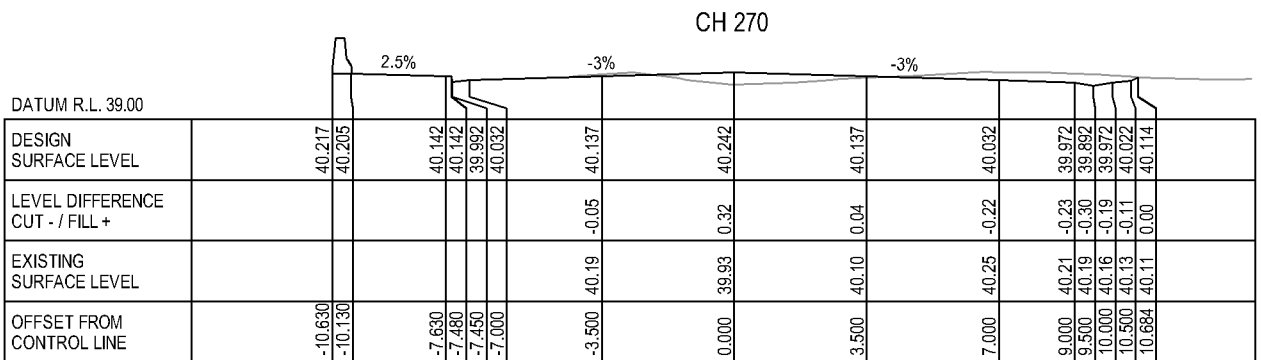
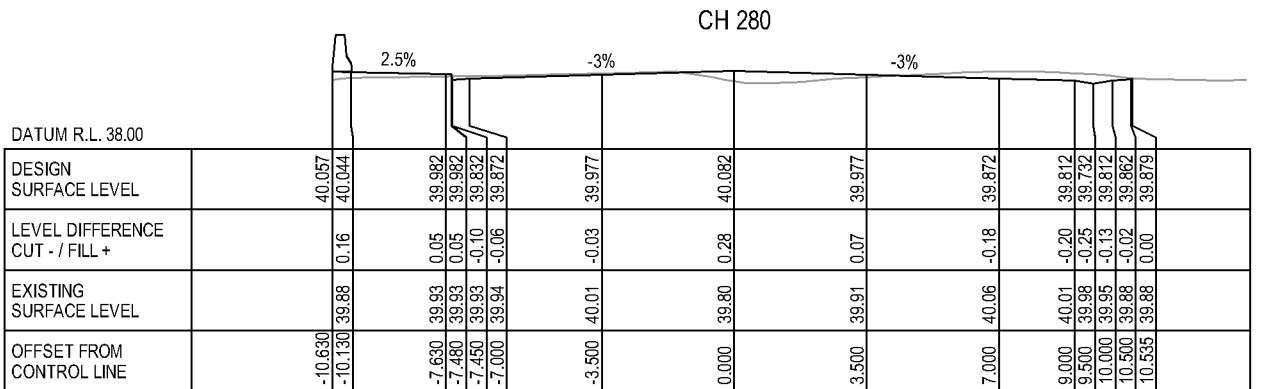
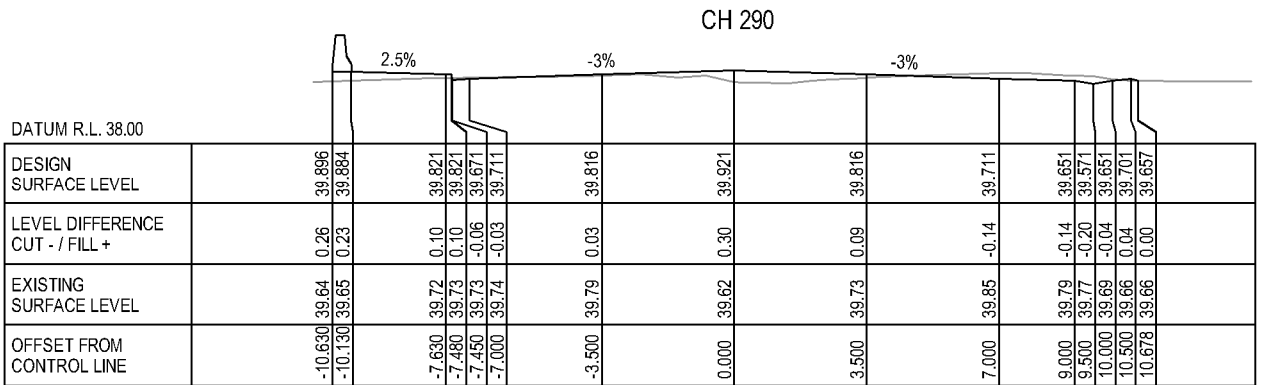
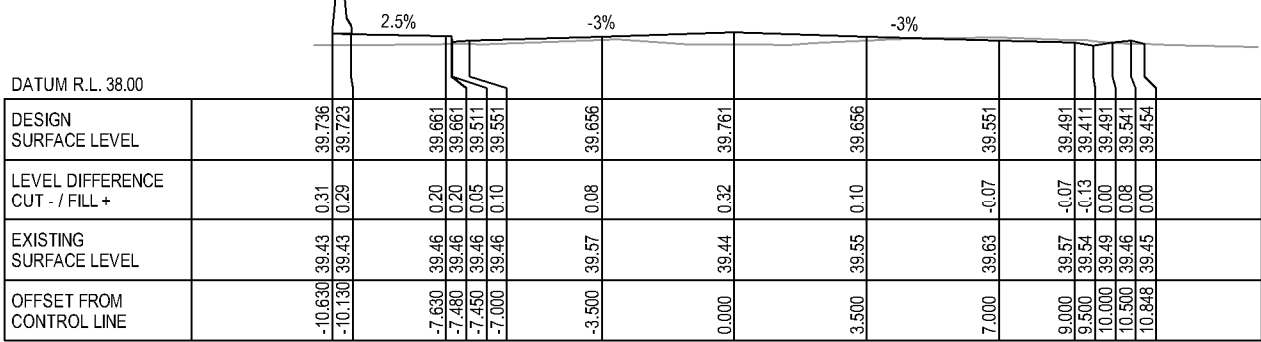
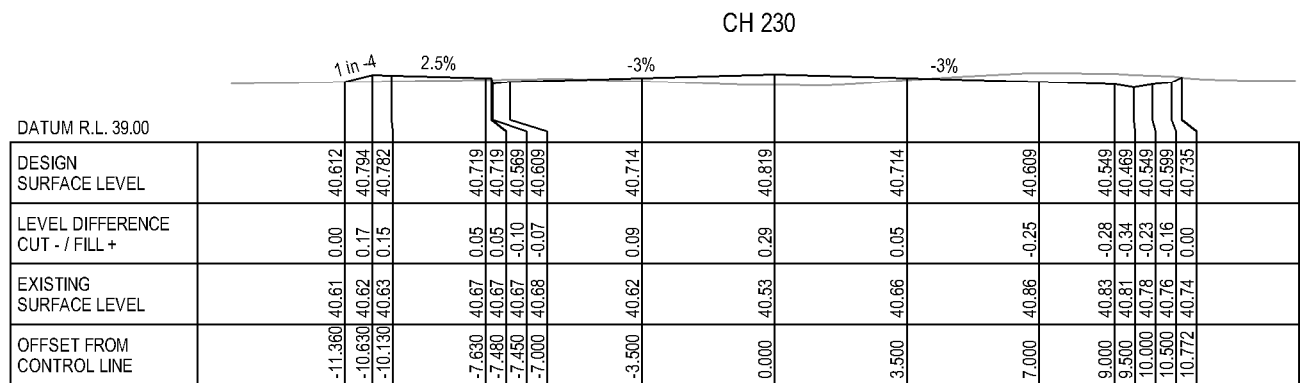
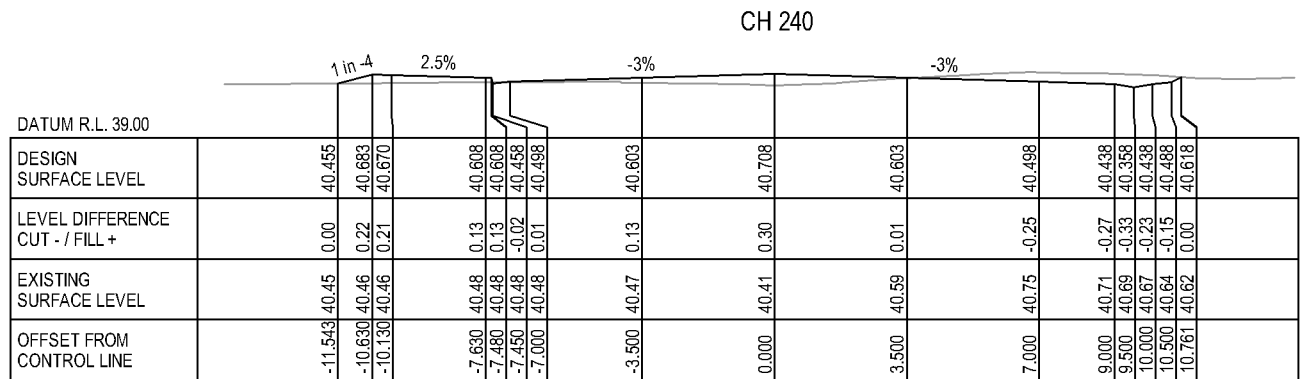
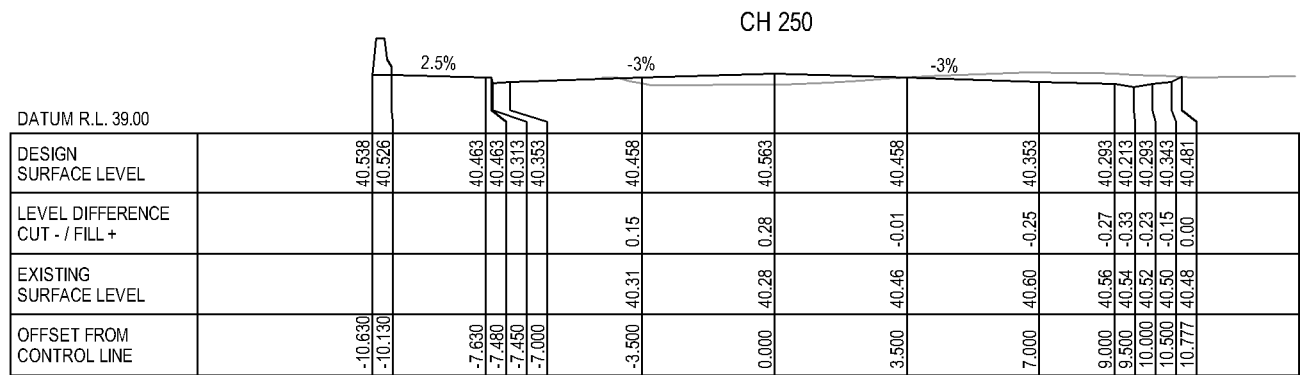
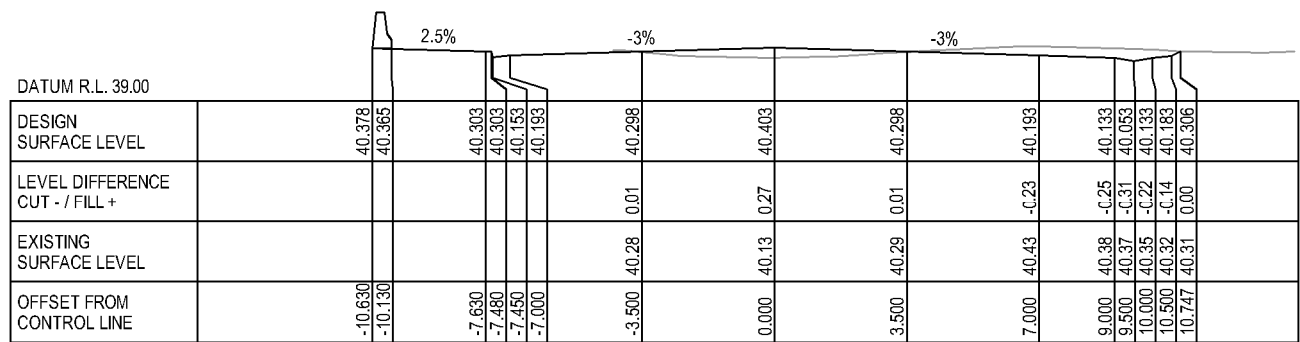


CH 200

CROSS SECTIONS
HAUSSMAN DRIVE

SCALE 1:200

[illegible]



CROSS SECTIONS

HAUSSMAN DRIVE

SCALE 1:200

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17		
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17		
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date



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Drawn R. COCKS

Designer N. HINCKS

Drafting
CheckDesign
Check

Approved
(Project Director)

--	--

Date _____

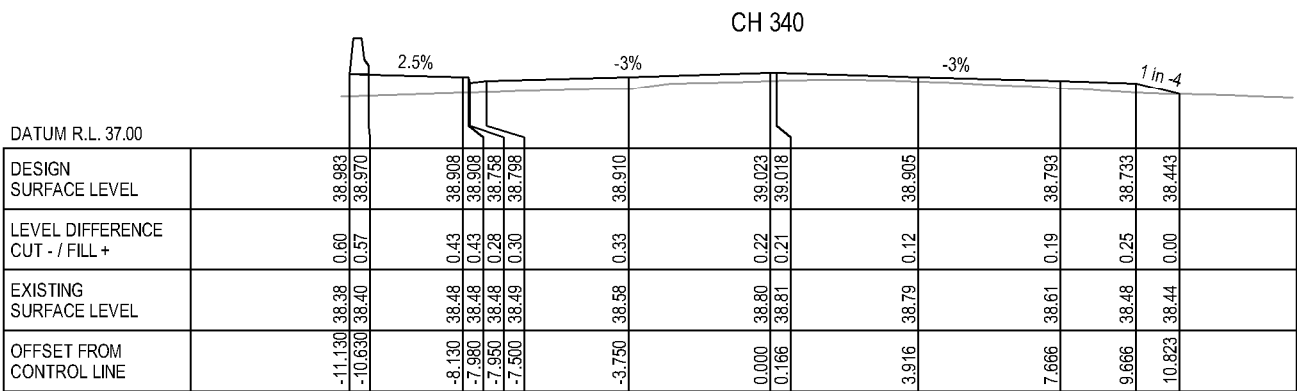
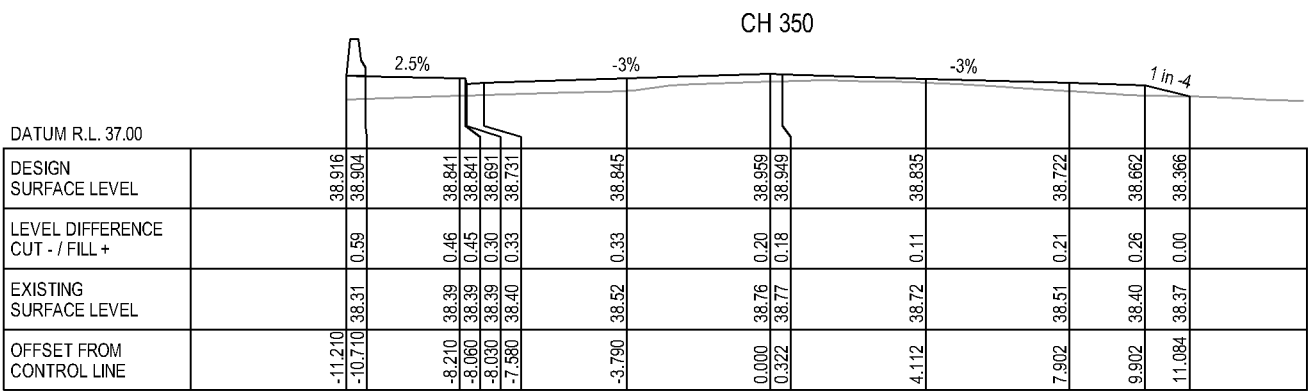
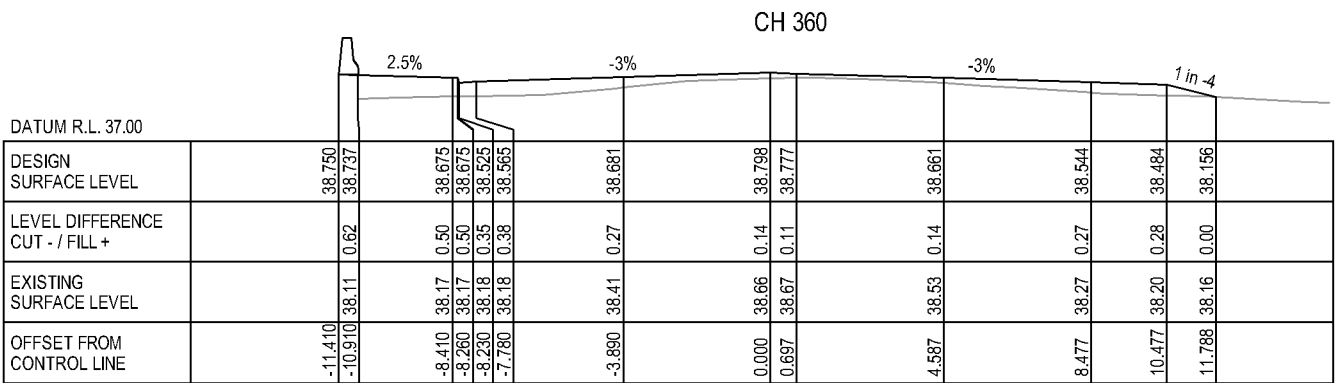
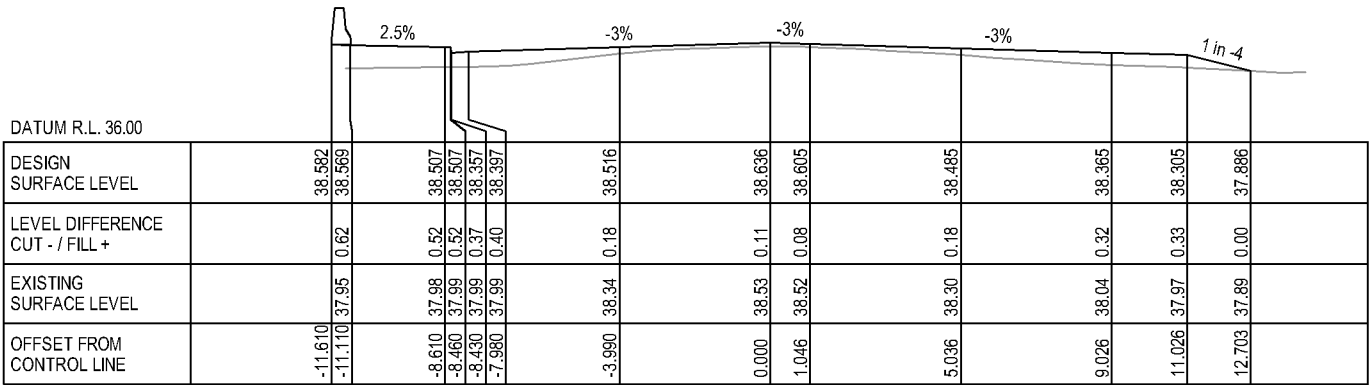
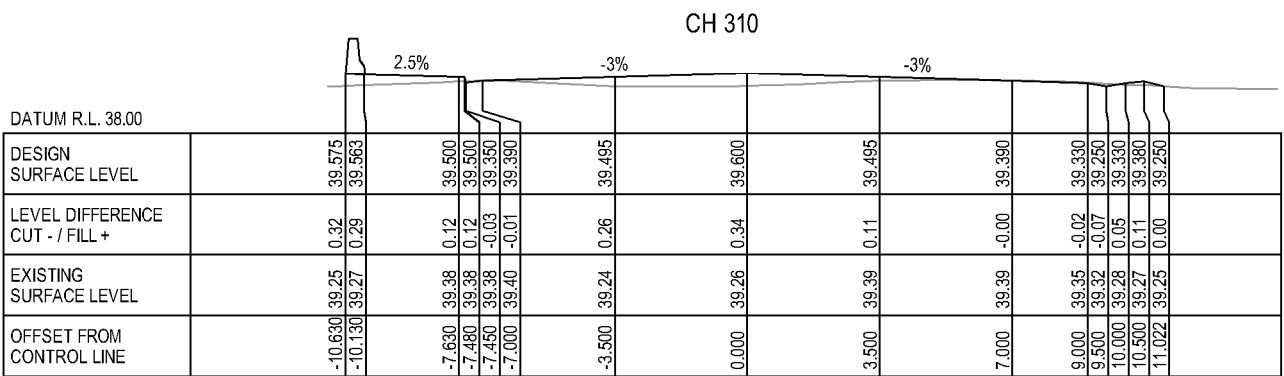
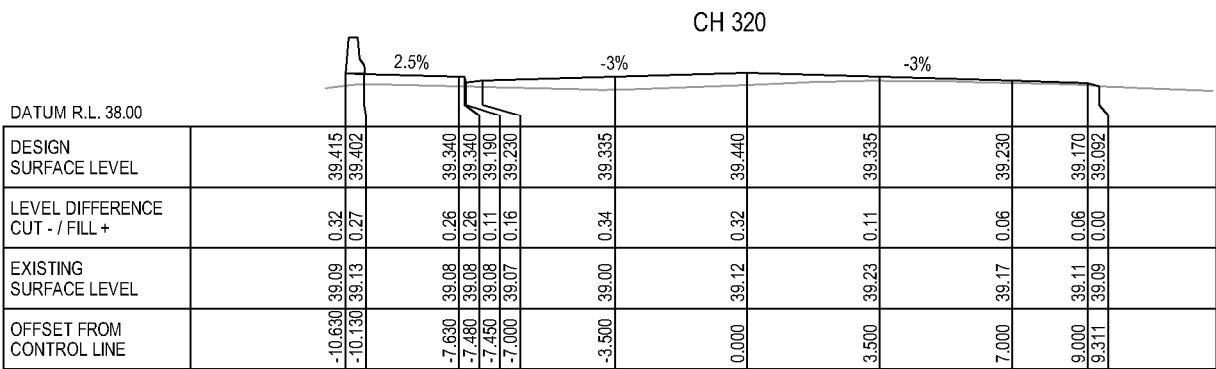
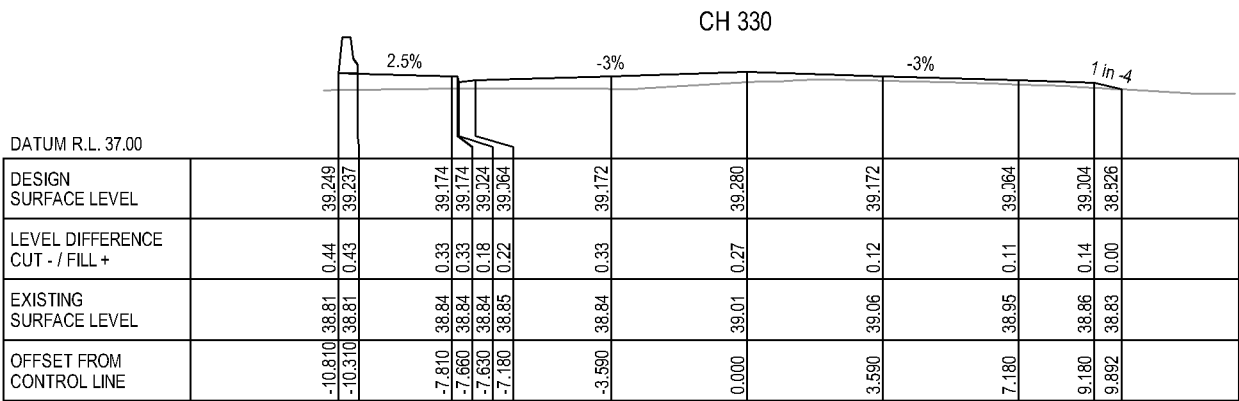
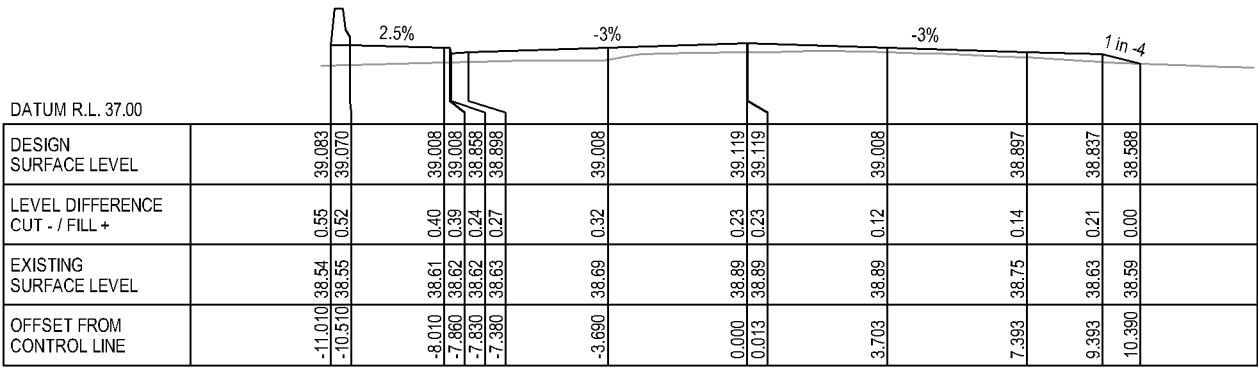
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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 4 OF 35

Original Size
A3 Drawing No: **22-18378-C073**

Rev: C

LEGEND
DESIGN SURFACE
EXISTING SURFACE



CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17		
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17		
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date



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Drawn R. COCKS
Designer N. HINCKS
Drafting Check
Approved (Project Director)
Date
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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	CROSS SECTIONS - HAUSSMAN DRIVE
Original Size	A3
Drawing No:	22-18378-C074
Rev:	C

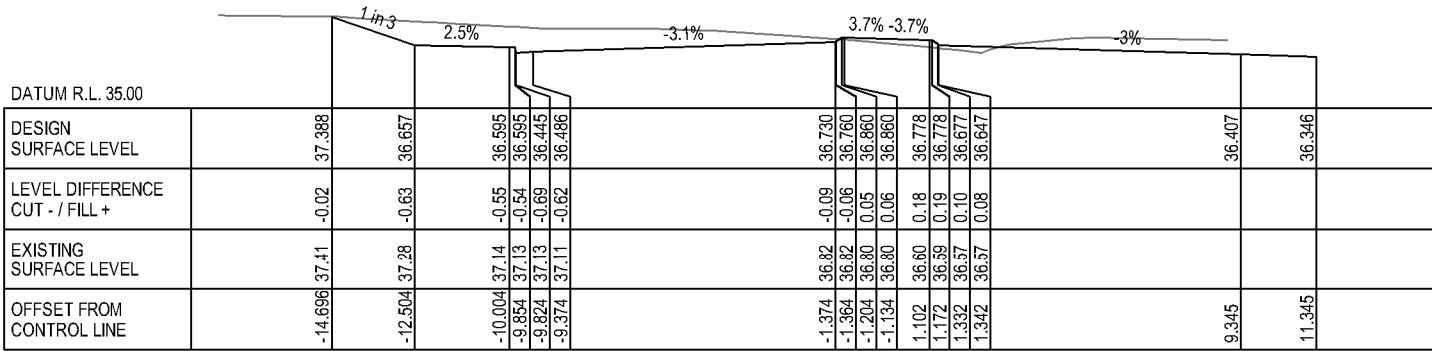
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EXISTING SURFACE



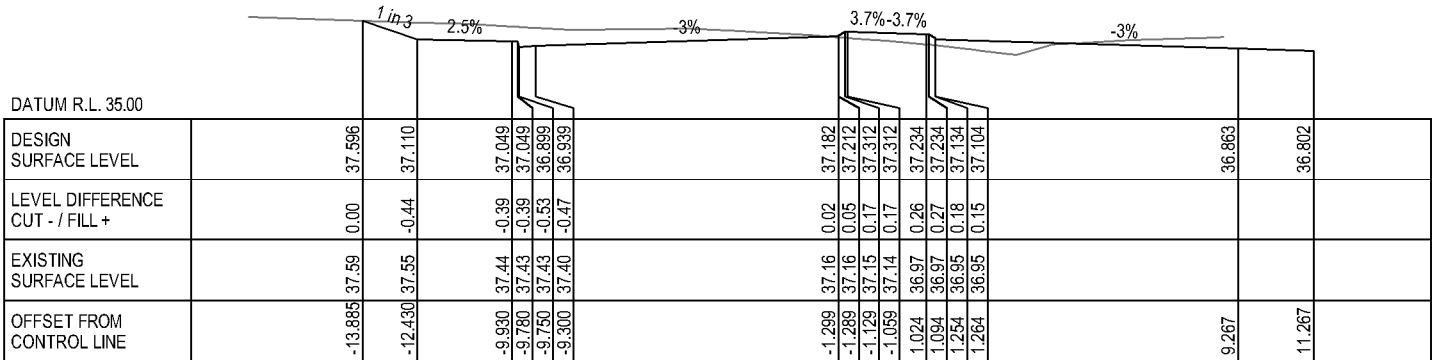
SCALE 1:200

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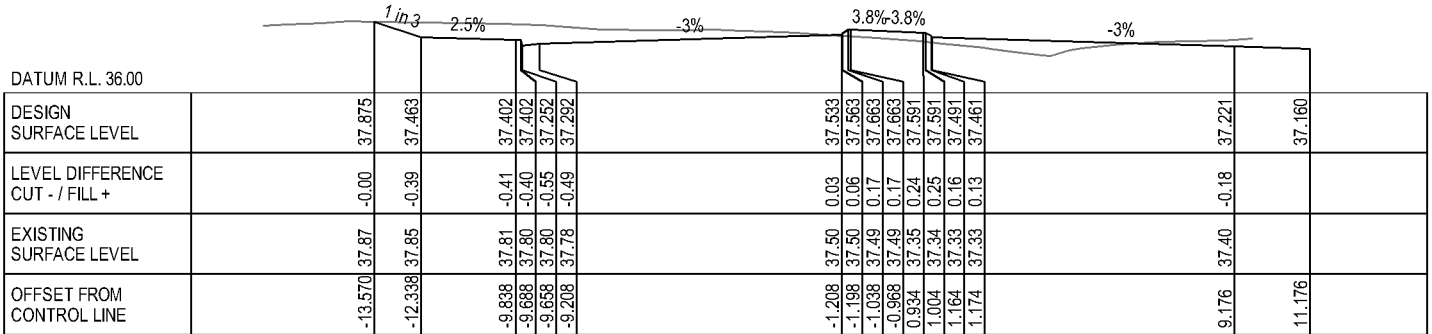
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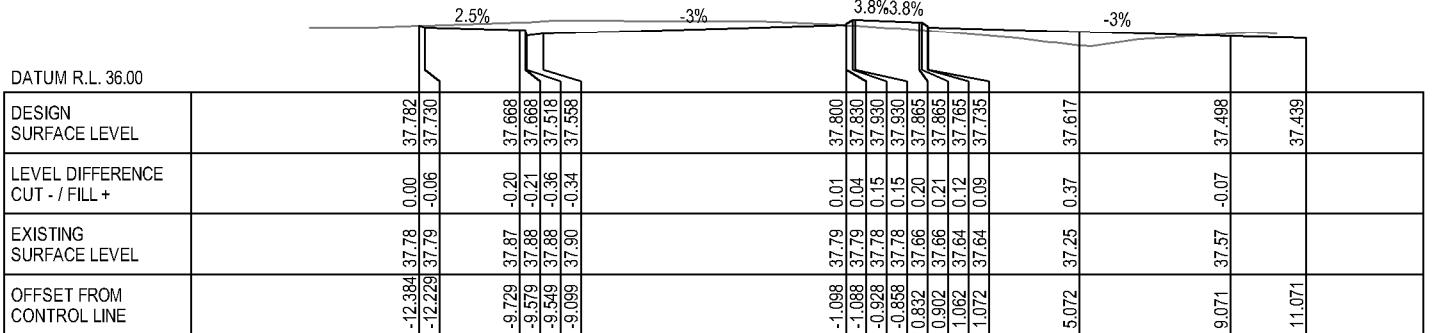
CH 30



CH 20

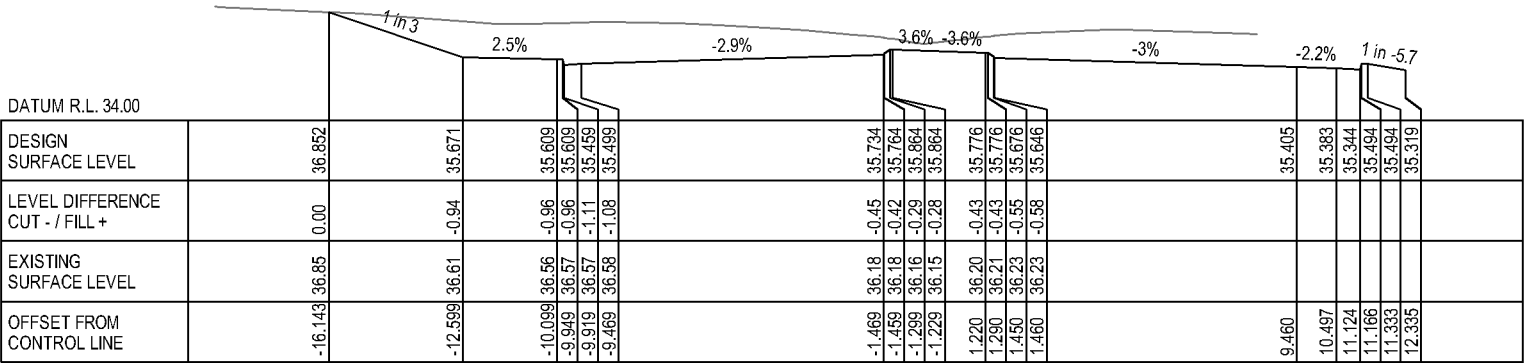


CH 10

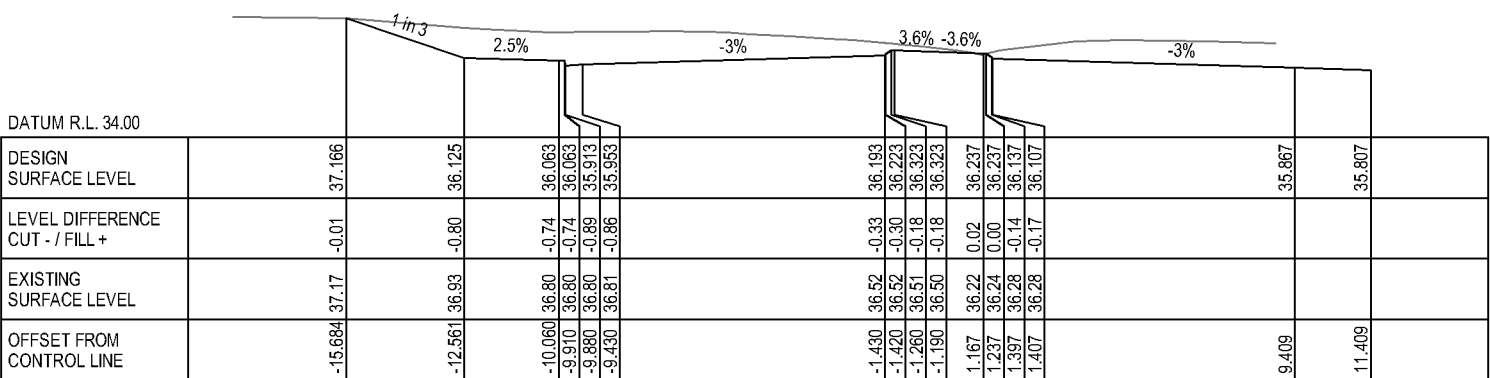


CH 0

CROSS SECTIONS
HAUSSMAN DRIVE - ROUNDABOUT NORTH LEG
SCALE 1:200



CH 50



CH 40

PRELIMINARY

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B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17	
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17	
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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Designer N. HINCKS

Drafting Check

Design Check

Approved (Project Director)

Date

Scale AS SHOWN

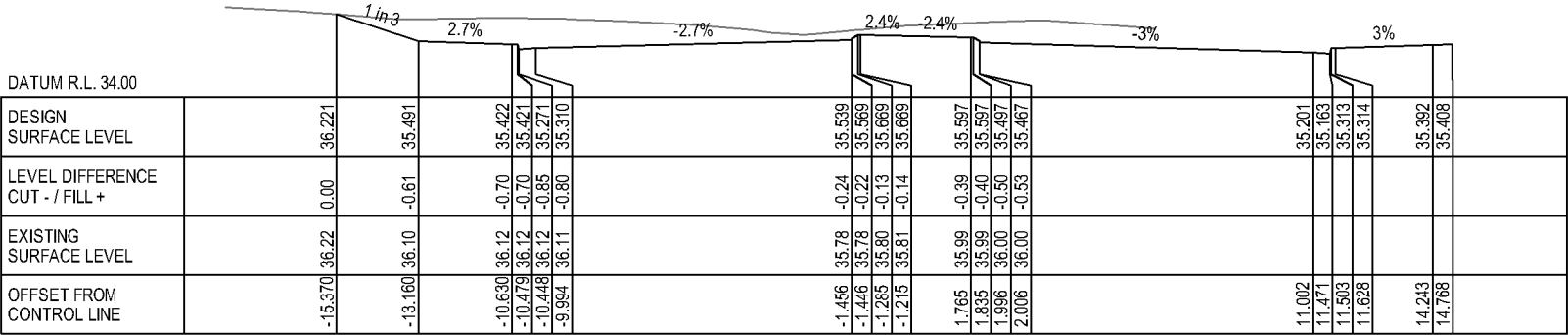
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Project HAUSSMAN DRIVE ROAD UPGRADE
Title CROSS SECTIONS - HAUSSMAN DRIVE
SHEET 7 OF 35

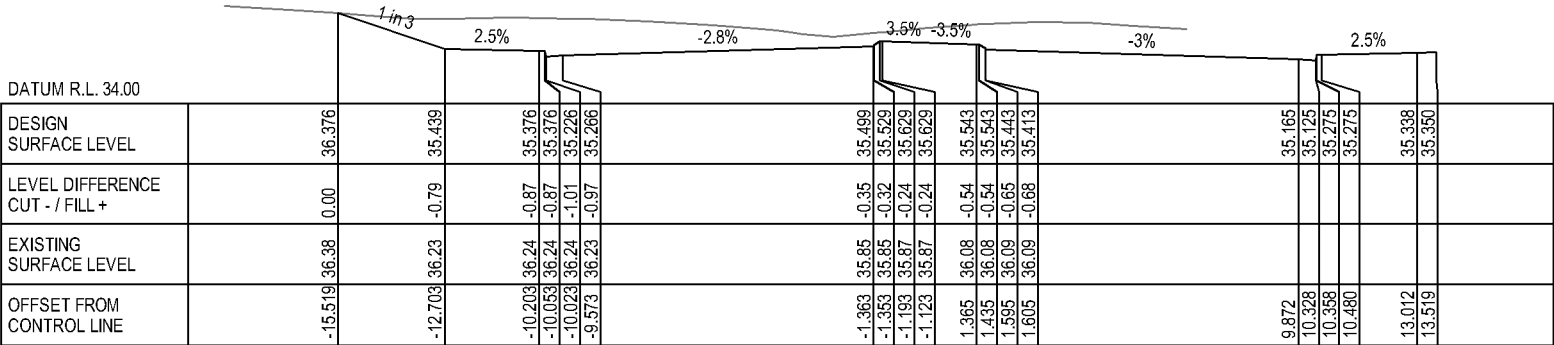
Original Size A3
Drawing No: 22-18378-C076

Rev: C

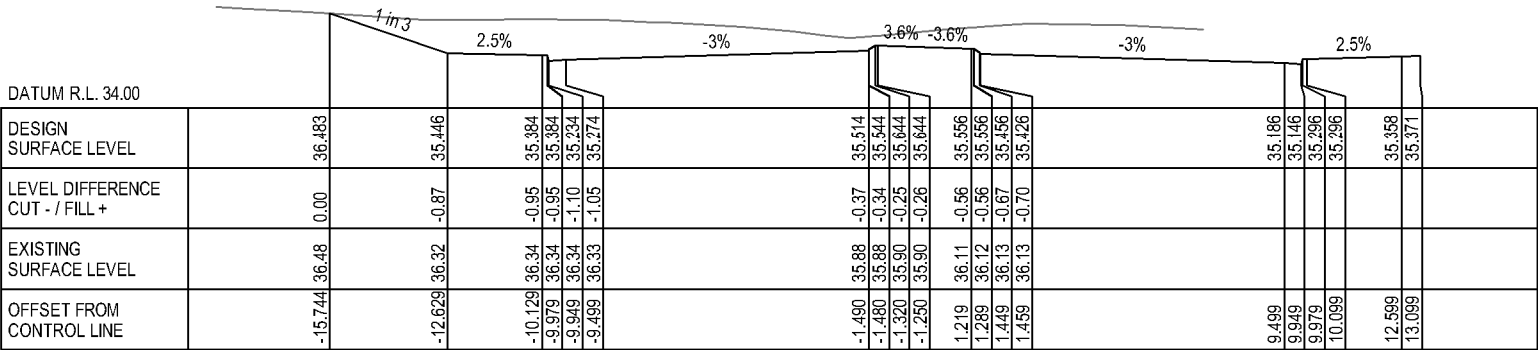
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DESIGN SURFACE
EXISTING SURFACE



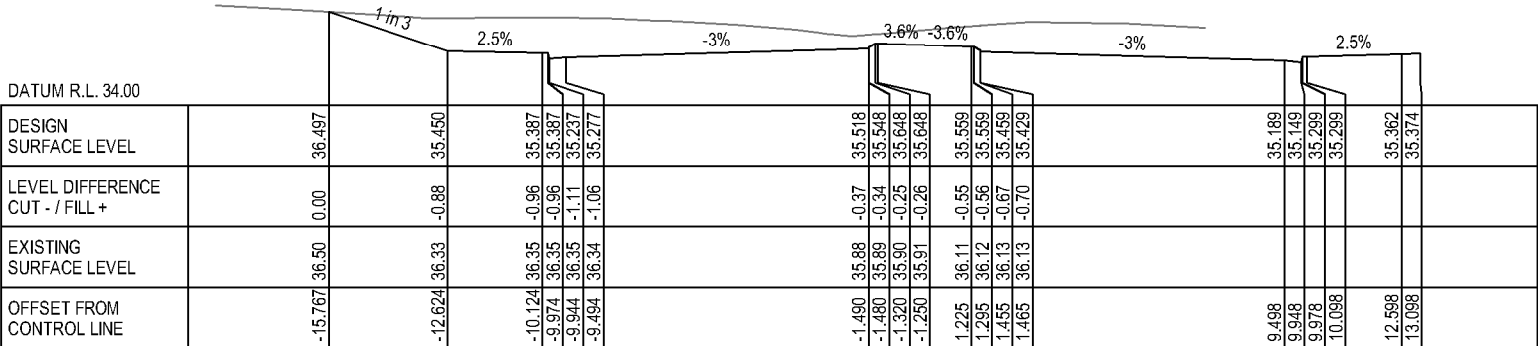
CH 70



CH 64.914



CH 60.349



CH 60

CROSS SECTIONS
HAUSSMAN DRIVE - ROUNDABOUT NORTH LEG
SCALE 1:200

PRELIMINARY

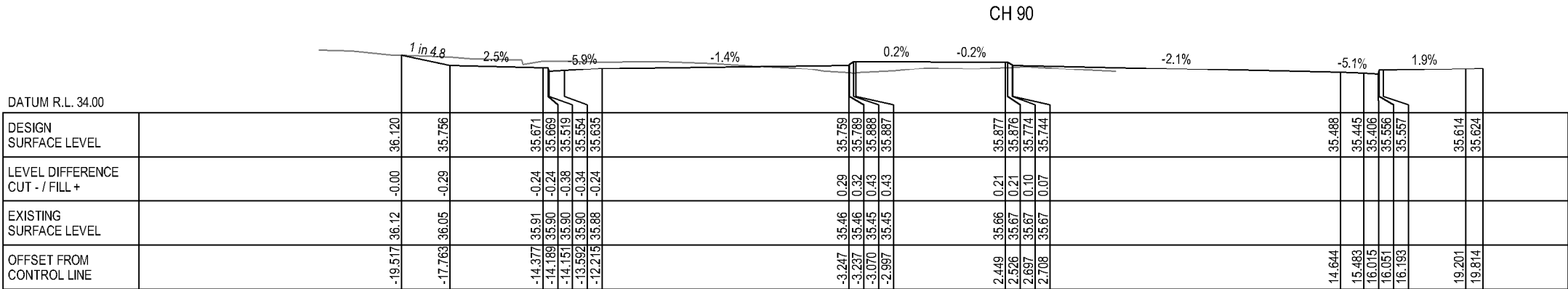
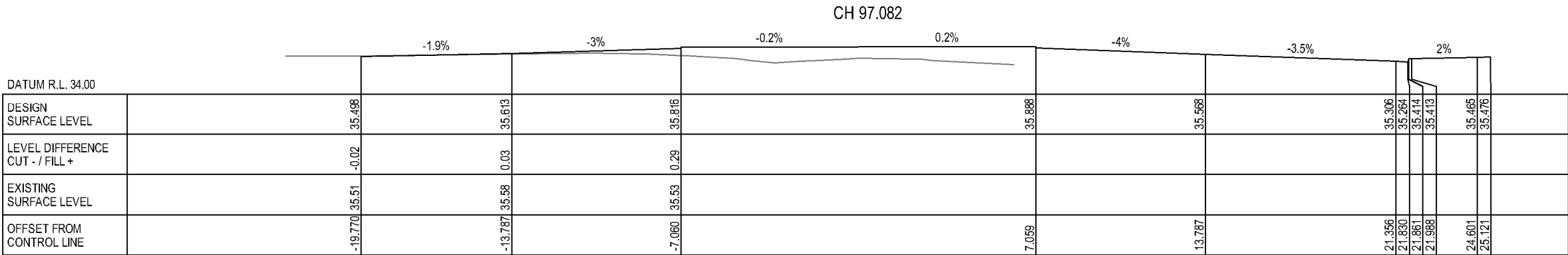
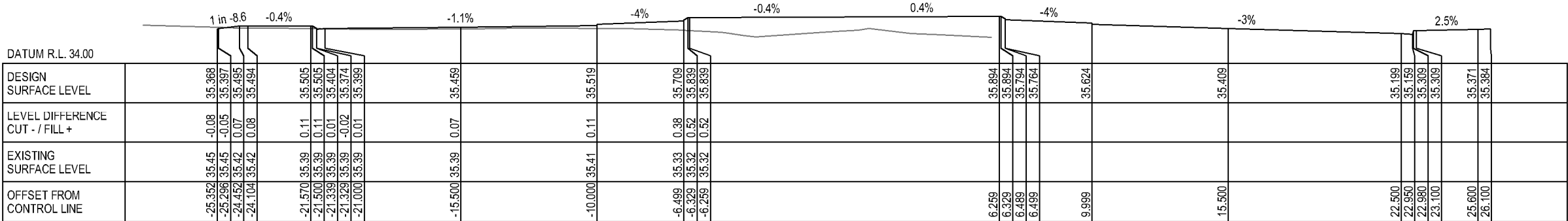
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B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date



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Client	MAITLAND CITY COUNCIL		
Project	HAUSSMAN DRIVE ROAD UPGRADE		
Title	CROSS SECTIONS - HAUSSMAN DRIVE		
	SHEET 8 OF 35		
Original Size	A3	Drawing No: 22-18378-C077	Rev: C



CH 80

CROSS SECTIONS

HAUSSMAN DRIVE - ROUNDABOUT SOUTH LEG

SCALE 1:200

PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17	
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17	
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17	
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Designer N. HINCKS

Drafting

Design Check

Approved

(Project Director)

Date

Scale AS SHOWN

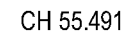
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Client MAITLAND CITY COUNCIL
Project HAUSSMAN DRIVE ROAD UPGRADE
Title CROSS SECTIONS - HAUSSMAN DRIVE
SHEET 9 OF 35

Original Size A3
Drawing No: 22-18378-C078

Rev: C

DESIGN SURFACE
EXISTING SURFACE



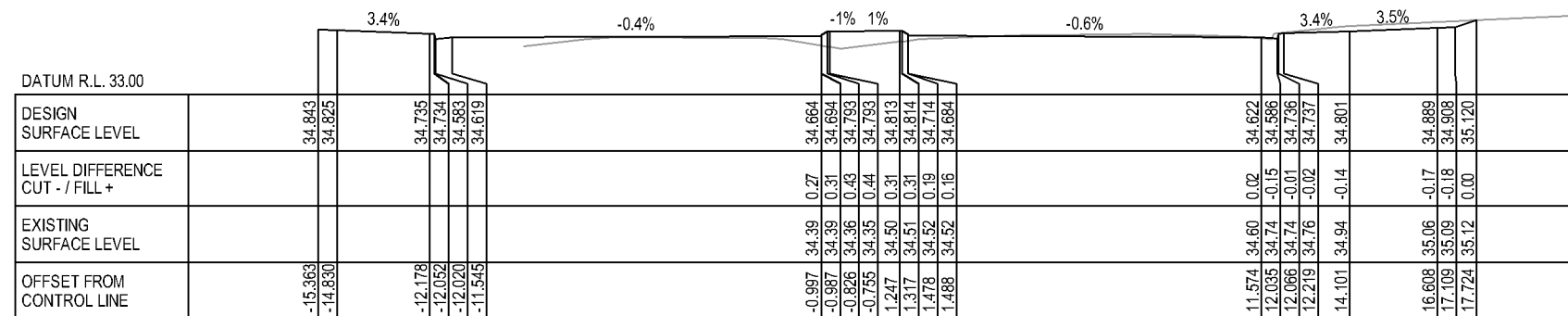
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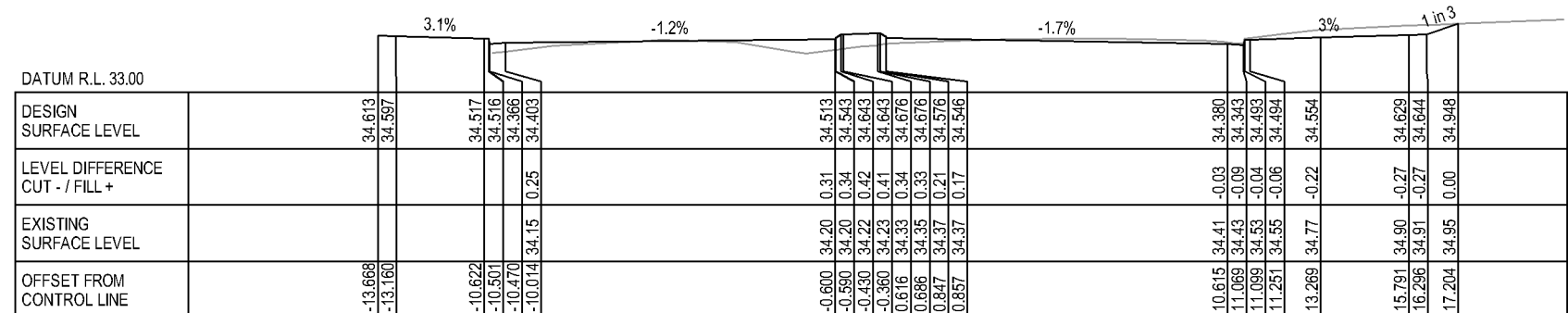
Plot Date: 6 October 2017 - 5:08 PM

Plotted By: Bec Cocks

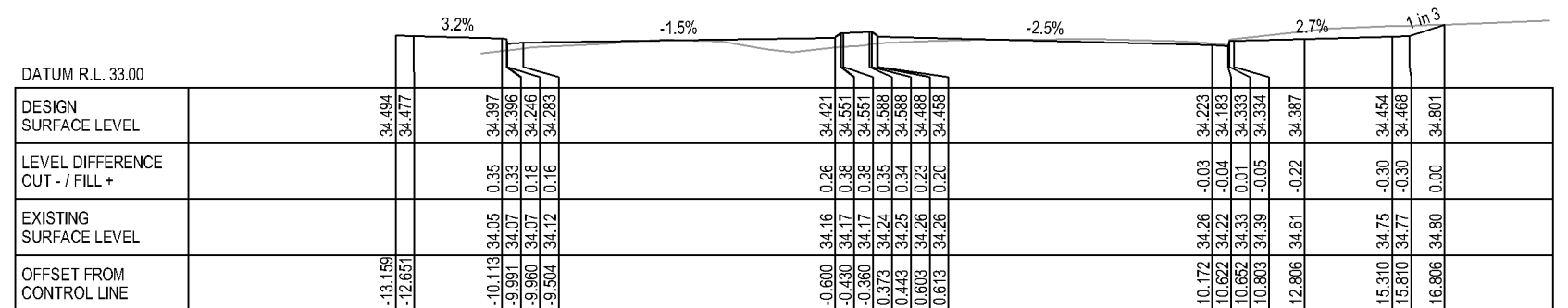
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CH 30



CH 23.837



CH 20

CROSS SECTIONS
HAUSSMAN DRIVE - ROUNDABOUT SOUTH LEG

SCALE 1:200



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Designer N. HINCKS

Check
Approved

Check

t) Date

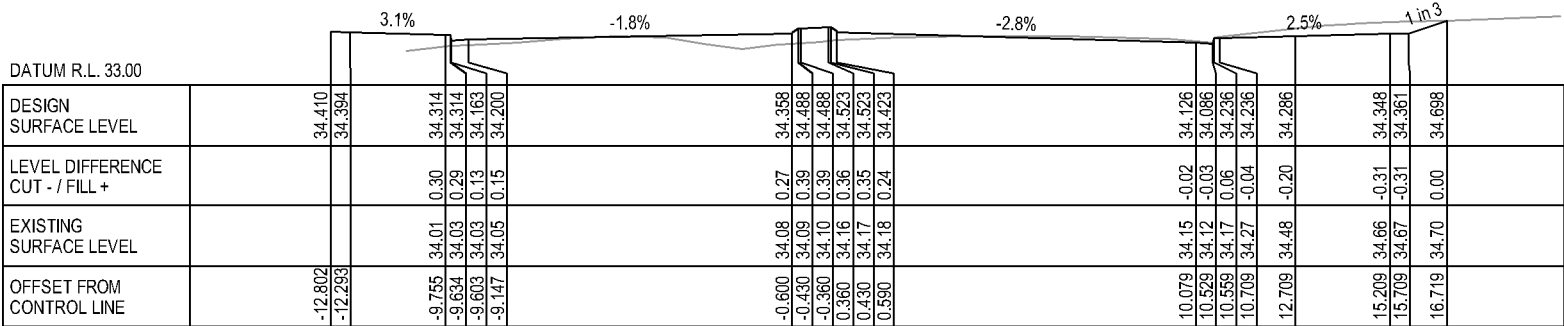
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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 11 OF 35

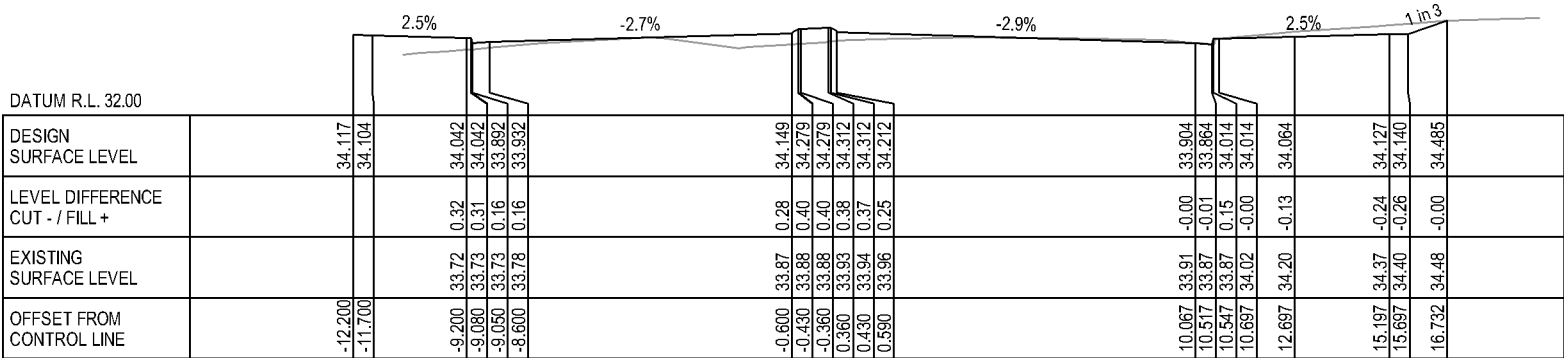
Original Size
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ev: **C**

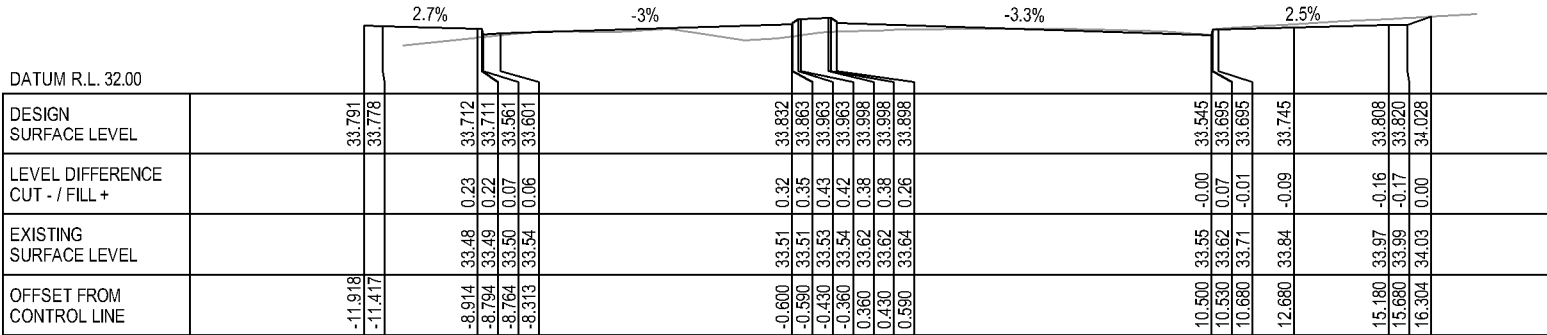
LEGEND	
	DESIGN SURFACE
	EXISTING SURFACE



CH 17.352



CH 10



CH 0

CROSS SECTIONS
HAUSSMAN DRIVE - ROUNDABOUT SOUTH LEG
SCALE 1:200

PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17	
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17	
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17	
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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Designer N. HINCKS

Drafting

Design

Approved

(Project Director)

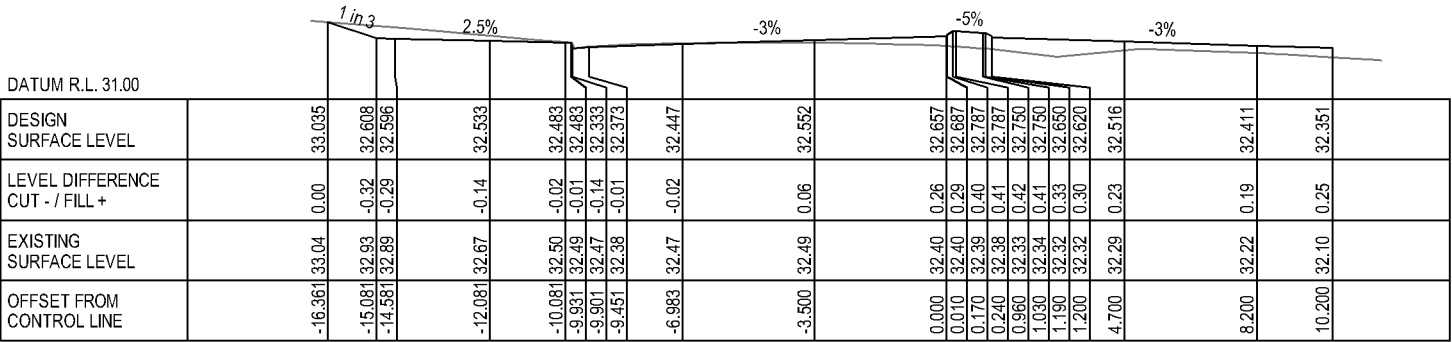
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Scale AS SHOWN

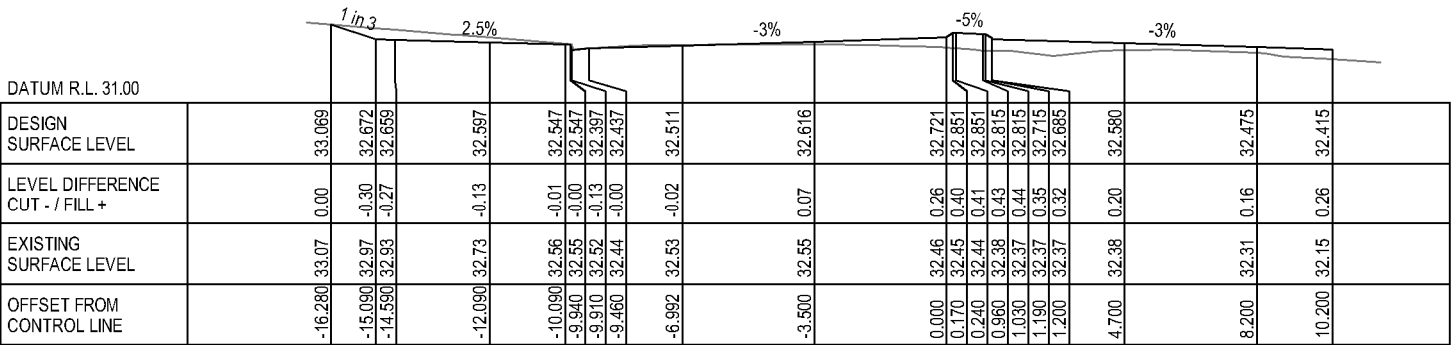
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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 12 OF 35
Original Size	A3
Drawing No:	22-18378-C081
Rev:	C

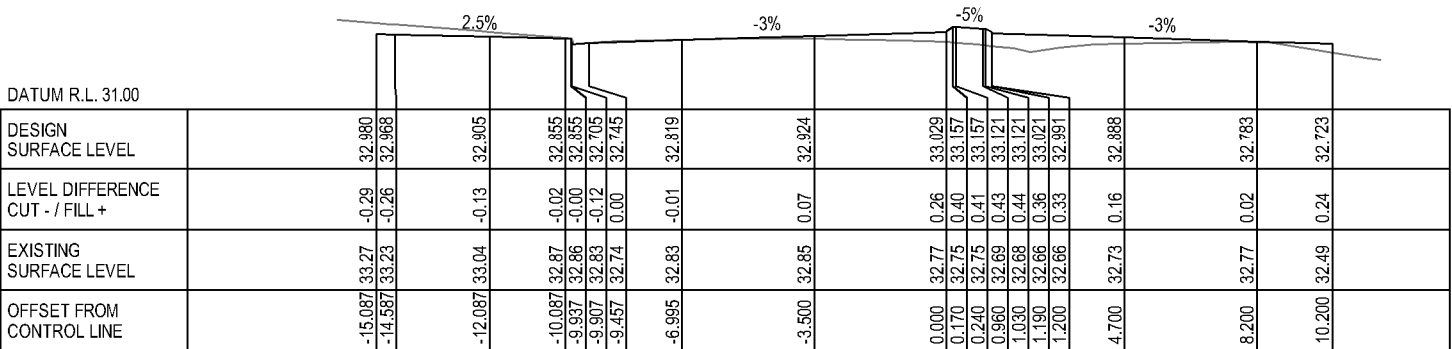
LEGEND
DESIGN SURFACE
EXISTING SURFACE



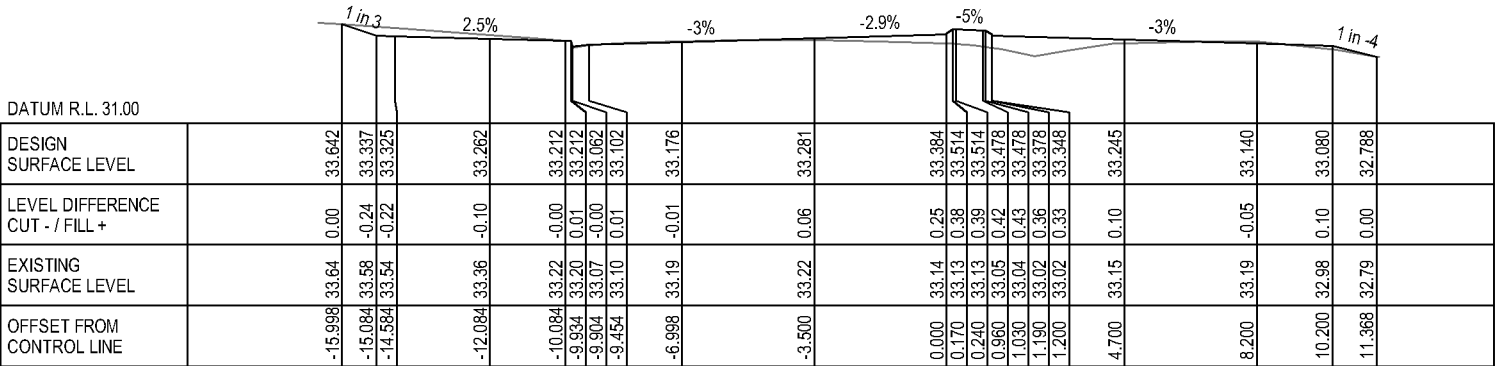
CH 590



CH 588.322



CH 580



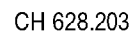
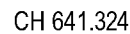
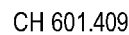
CH 570

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

PRELIMINARY

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No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing			Drawn	Job Manager	Project Director	Date	Rev:		C	
C	FINAL CONCEPT DESIGN		RJC	GM	AS	06.10.17						
B	FINAL CONCEPT DESIGN		C.B	G.M	A.S	15.09.17						
A	ISSUED FOR REVIEW		C.B	G.M	A.S	13.07.17						

DESIGN SURFACE
EXISTING SURFACE



SCALE 1:200



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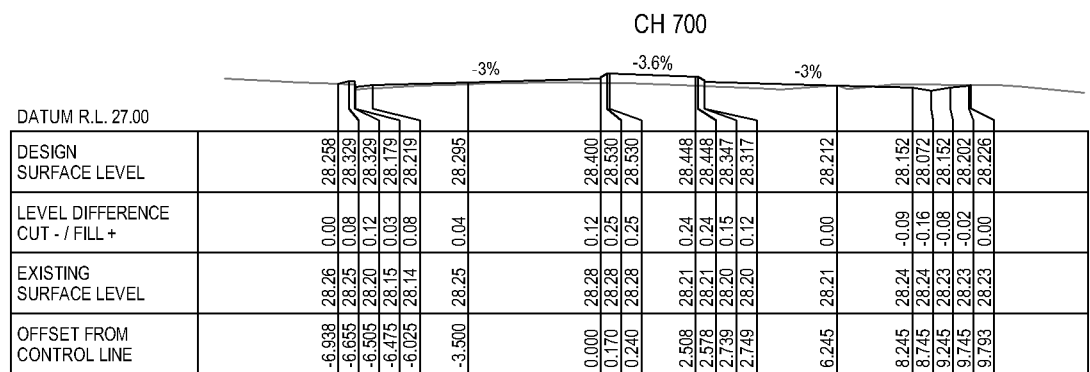
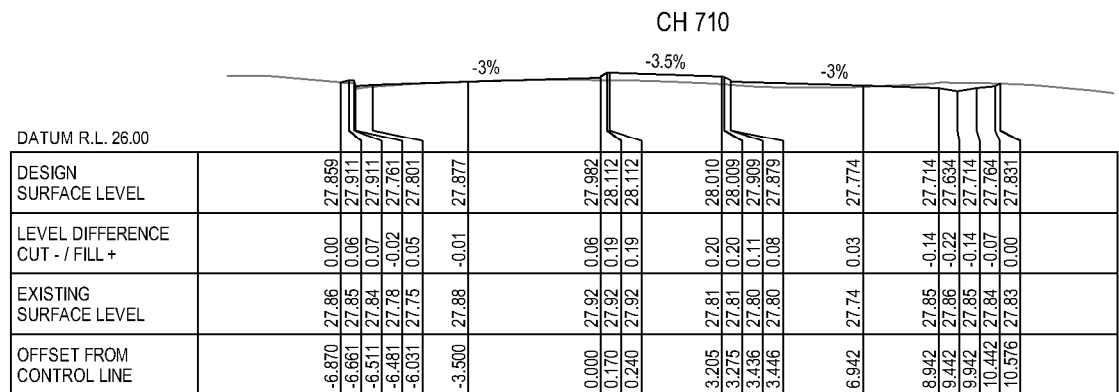
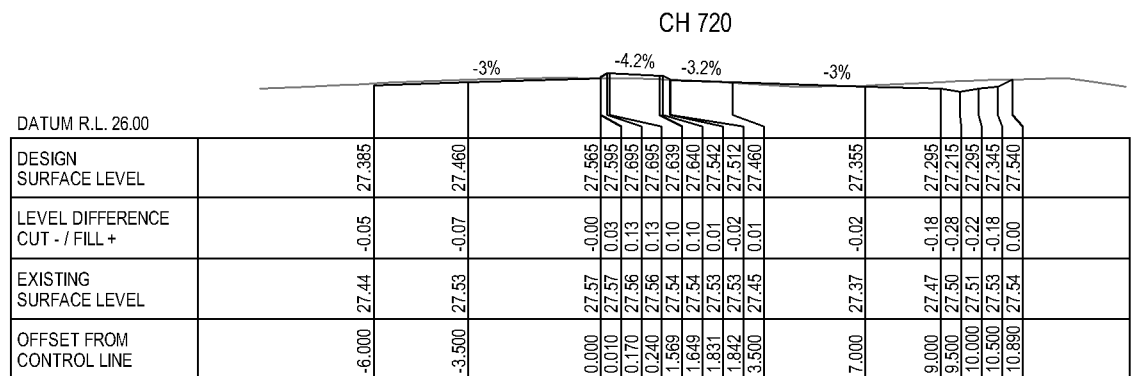
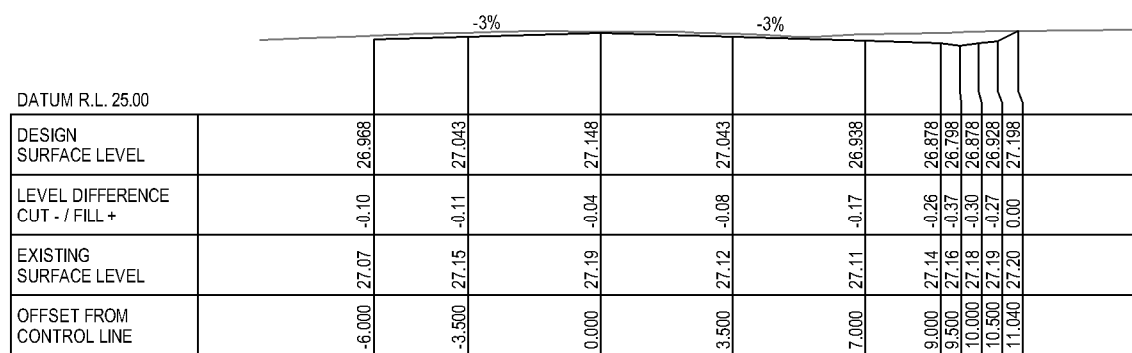
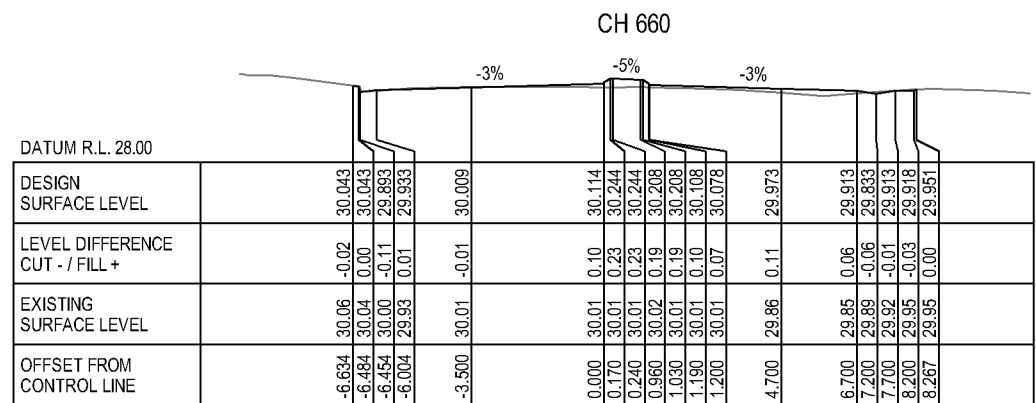
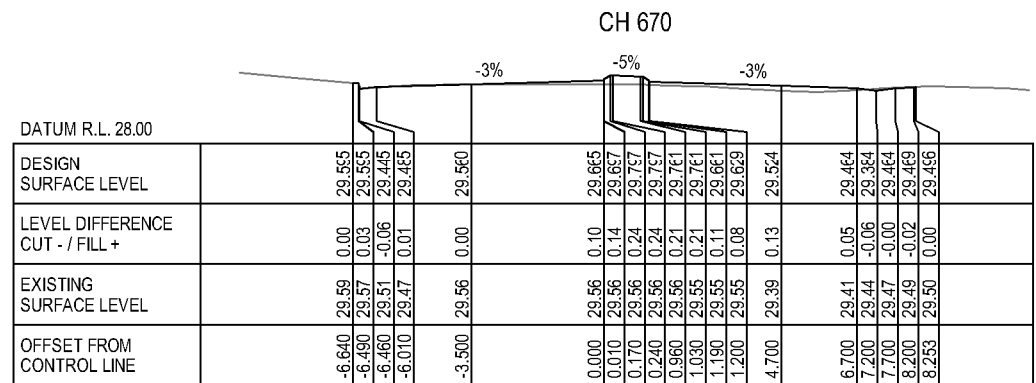
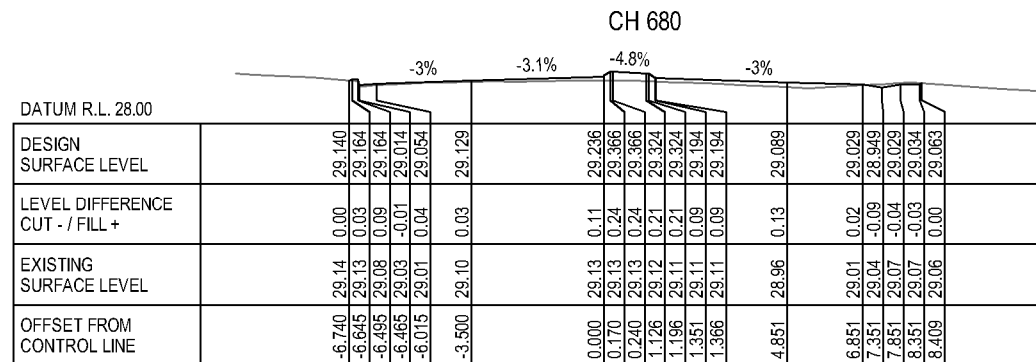
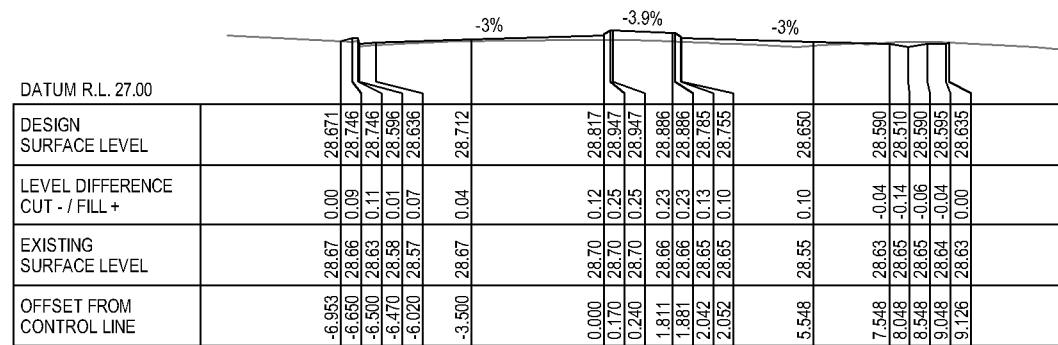
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Original Size

A3 **Draw**

22-18378-C083

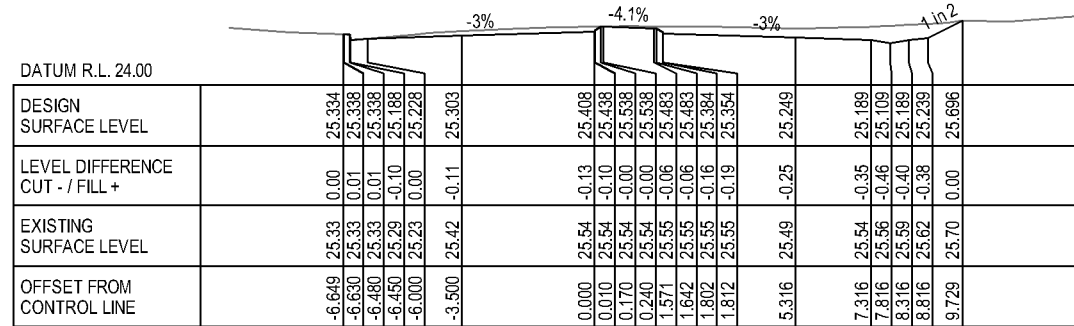
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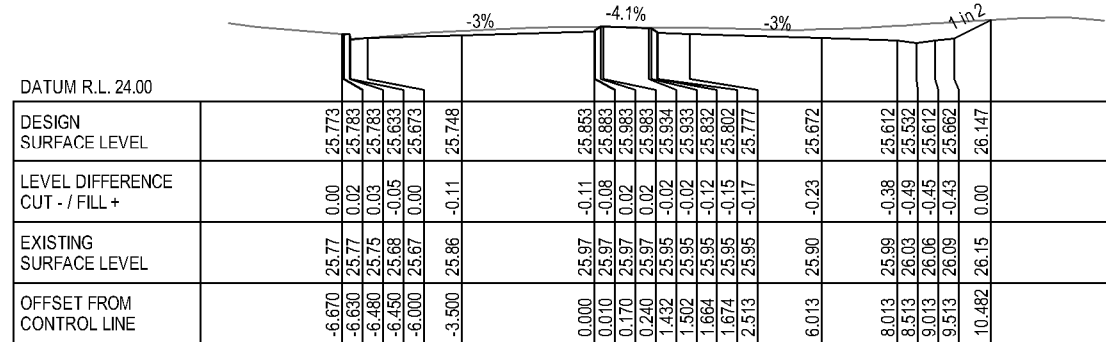
CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

CH 690

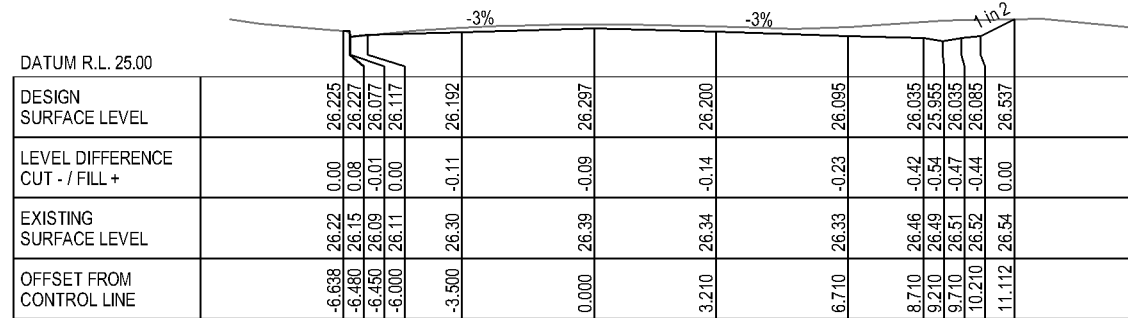
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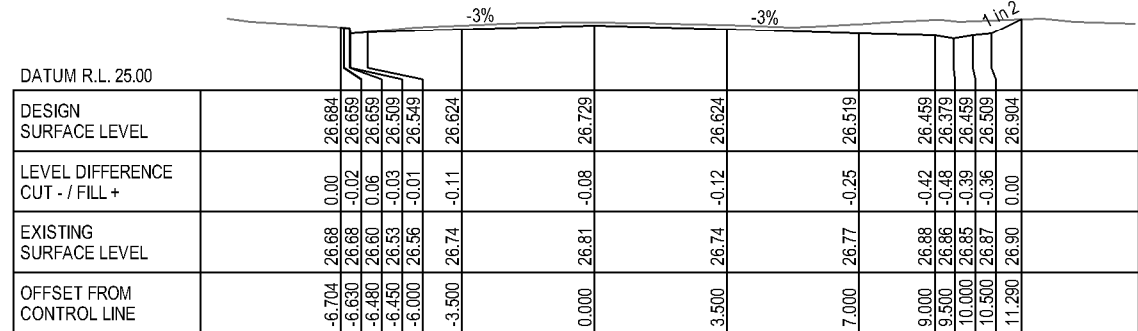
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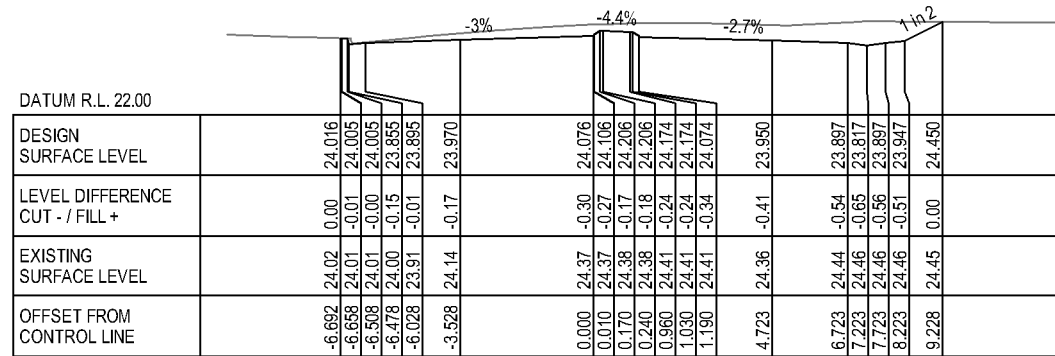
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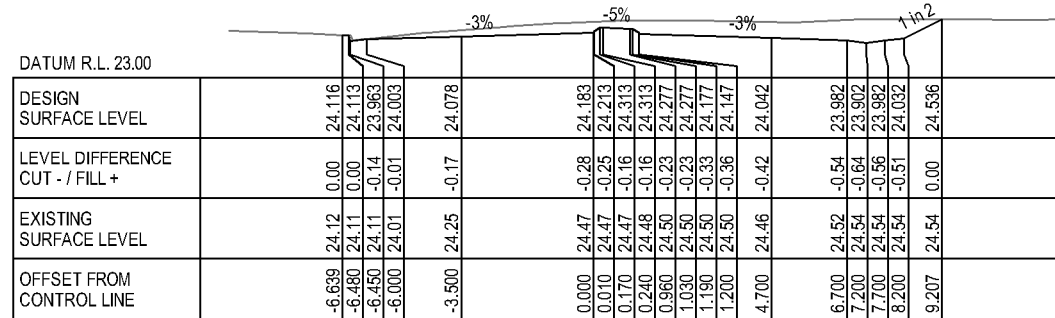
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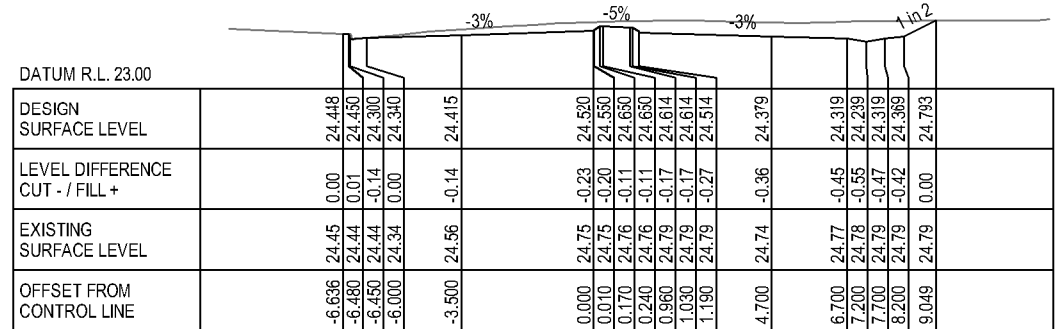
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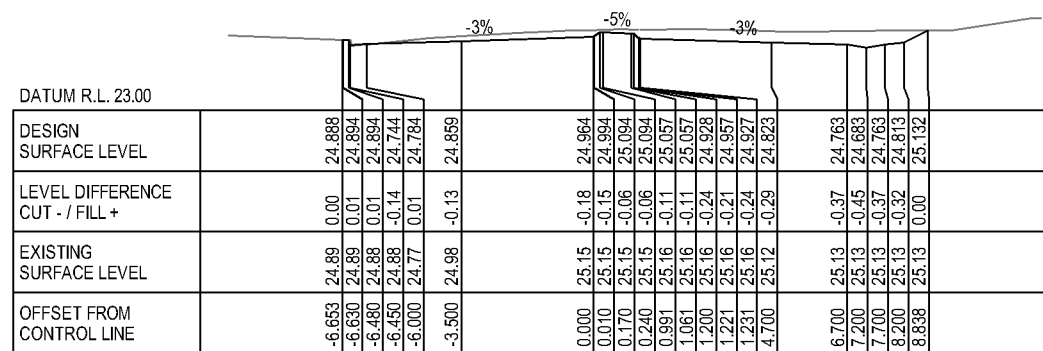
CH 790



CH 787.574



CH 780



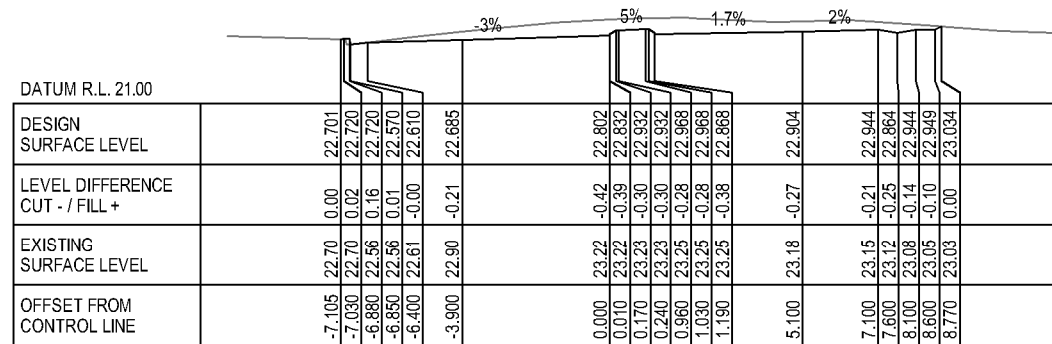
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CROSS SECTIONS

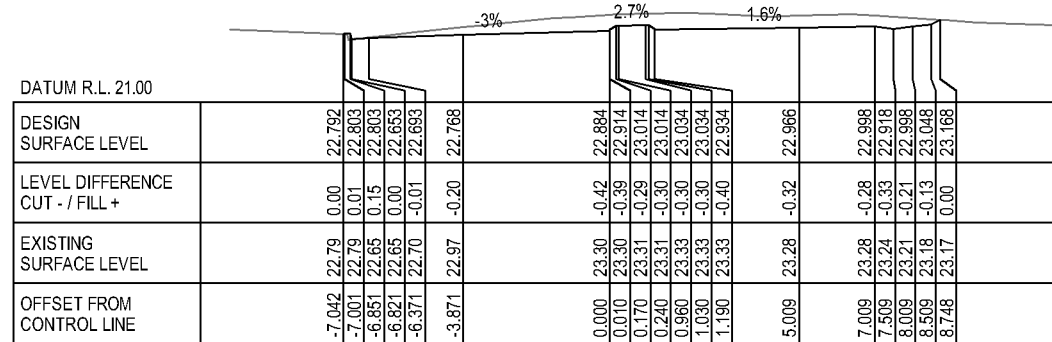
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SCALE 1:200

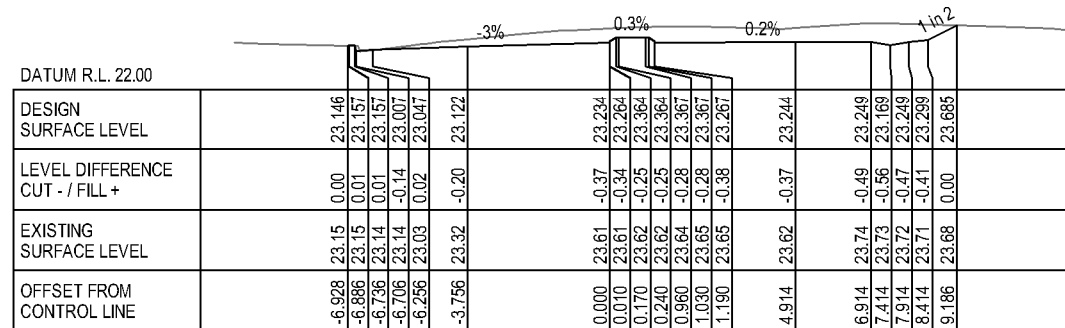
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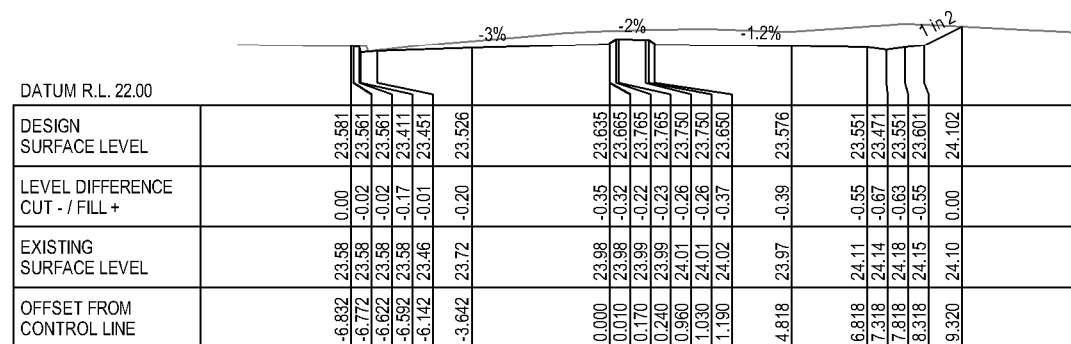
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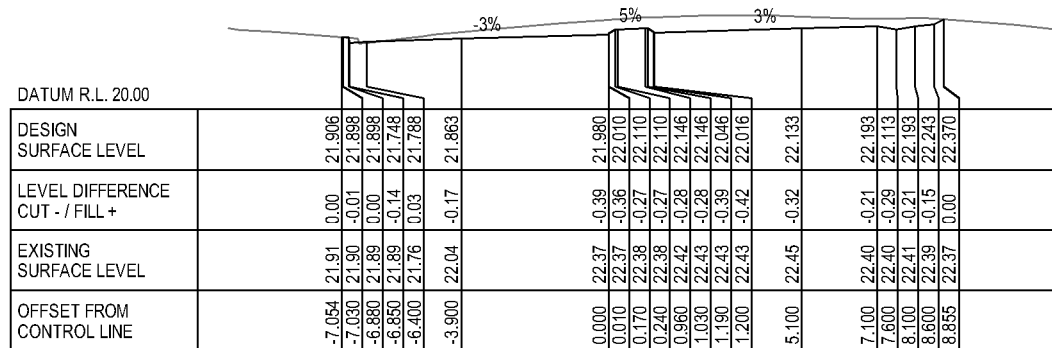
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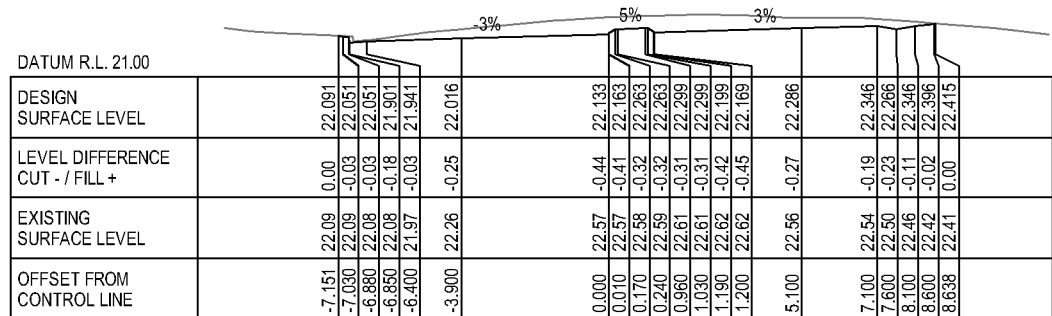
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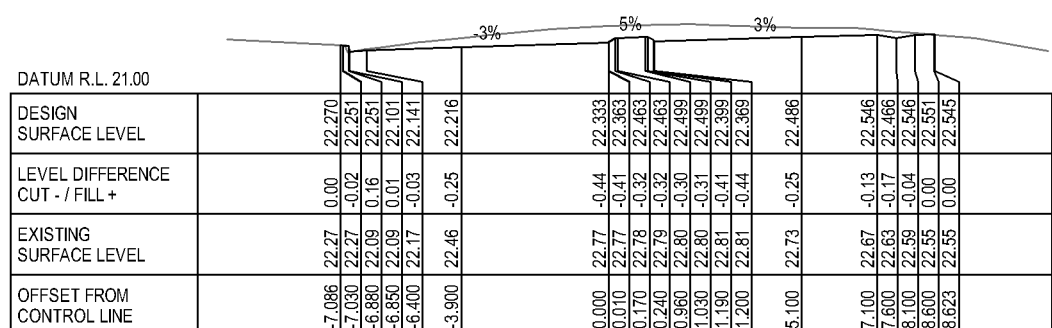
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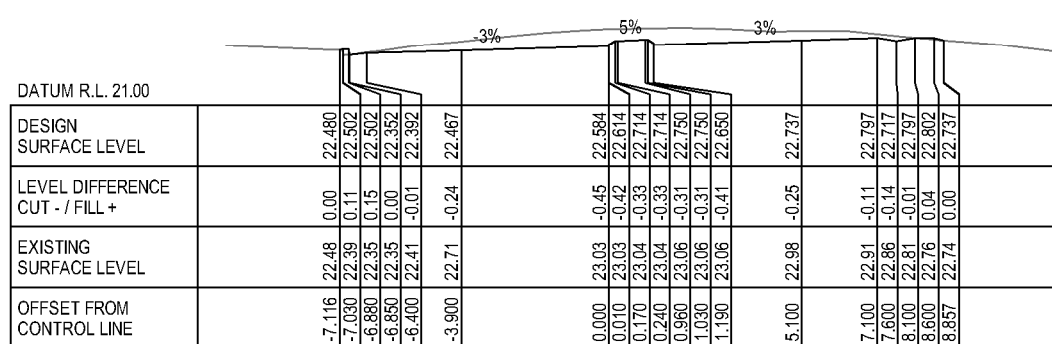
CH 860



CH 850



CH 840



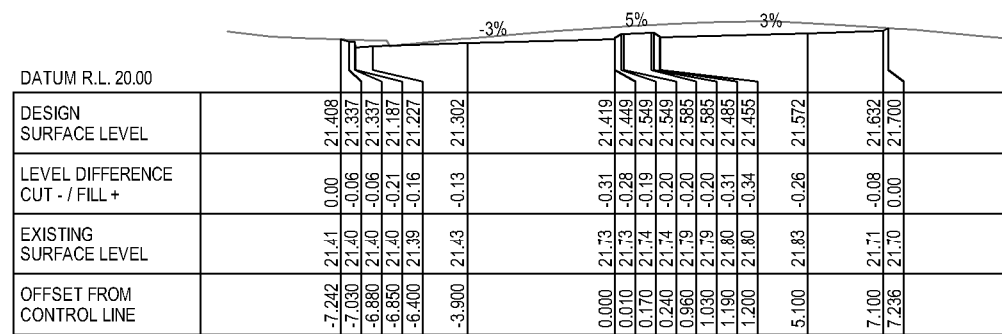
CH 830

CROSS SECTIONS

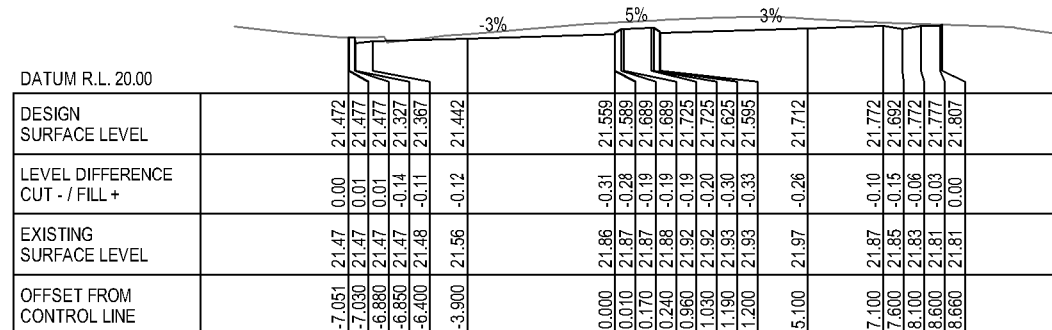
HAUSSMAN DRIVE

SCALE 1:200

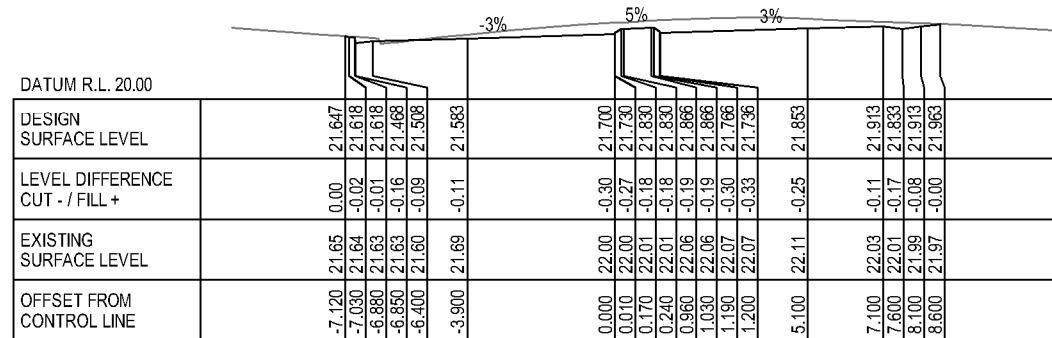
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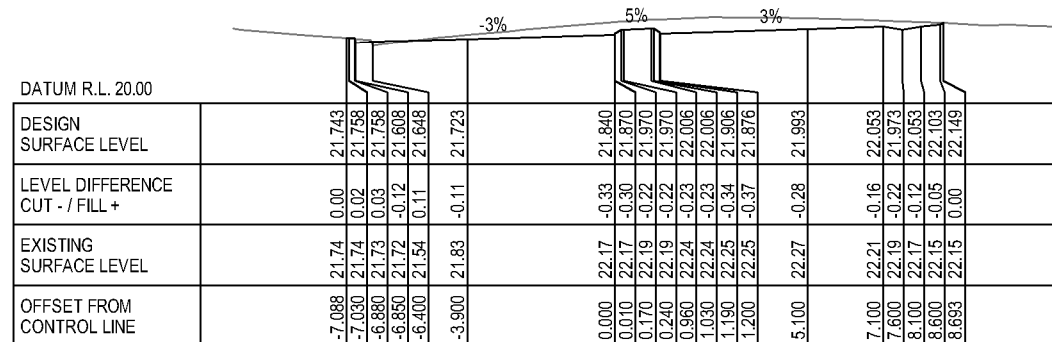
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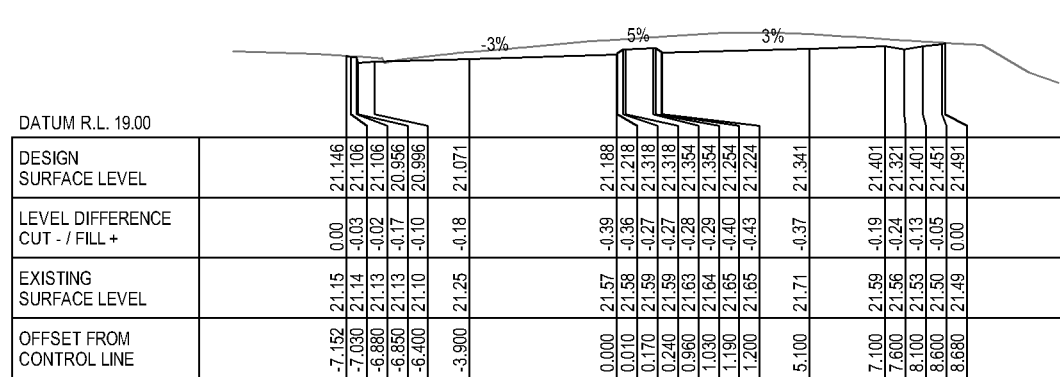
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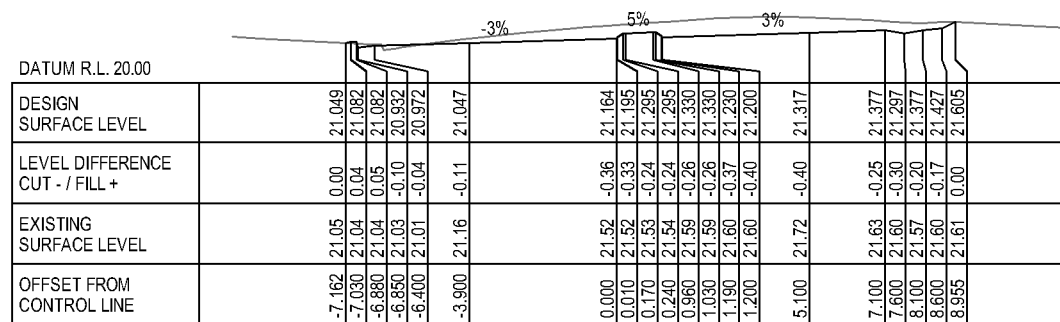
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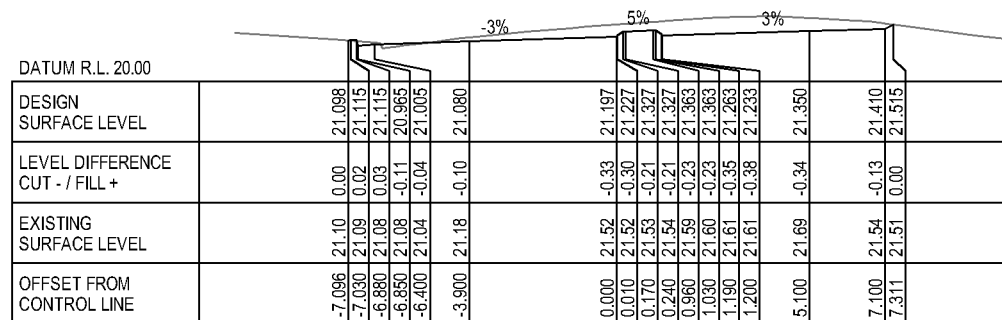
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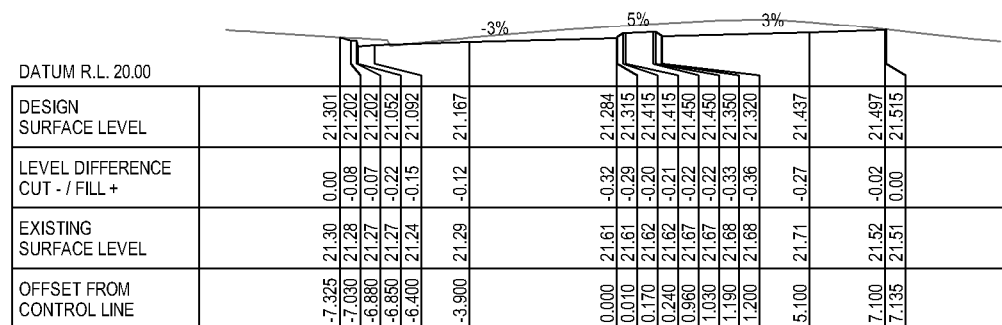
CH 940



CH 930



CH 920



CH 910

CROSS SECTIONS

HAUSSMAN DRIVE

SCALE 1:200



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Drawn R. COCKS

Designer N. HINCKS

Check
Approved

Check	
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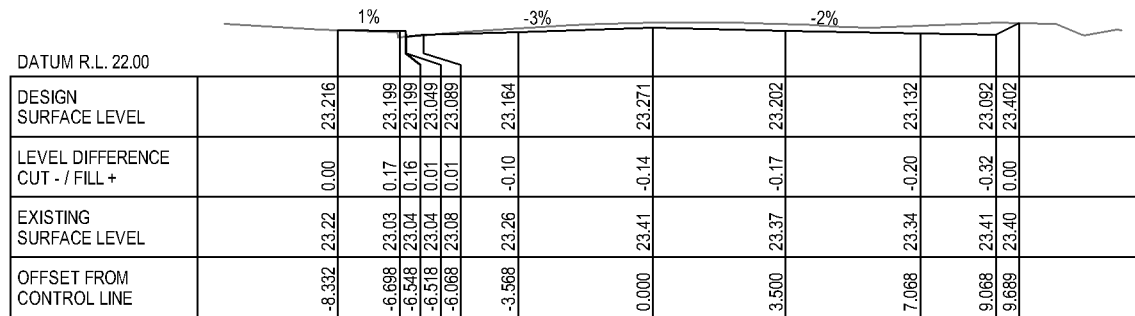
Date	
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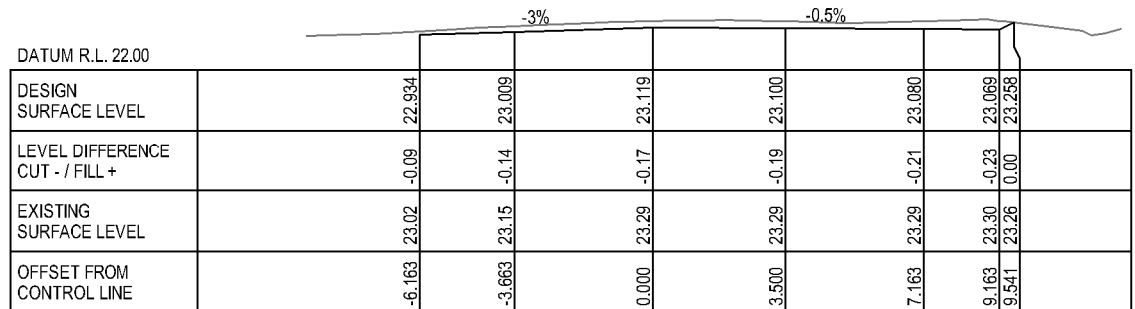
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Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 18 OF 35

Original Size	A3	Drawing No:	22-18378-C087
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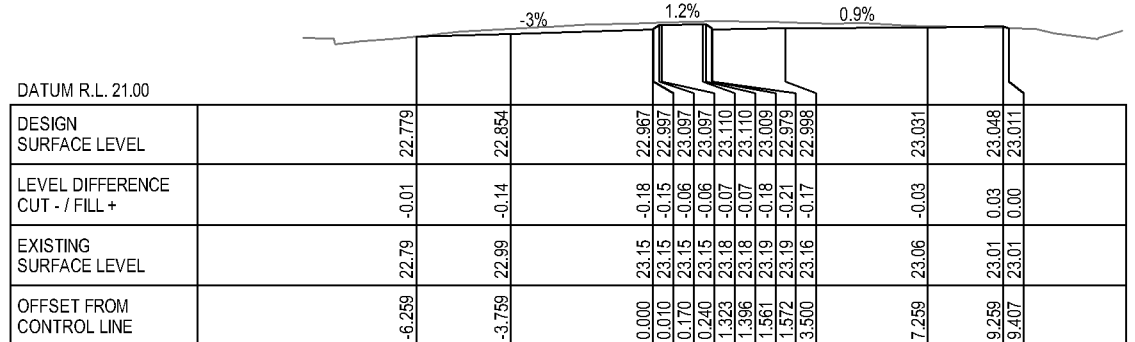
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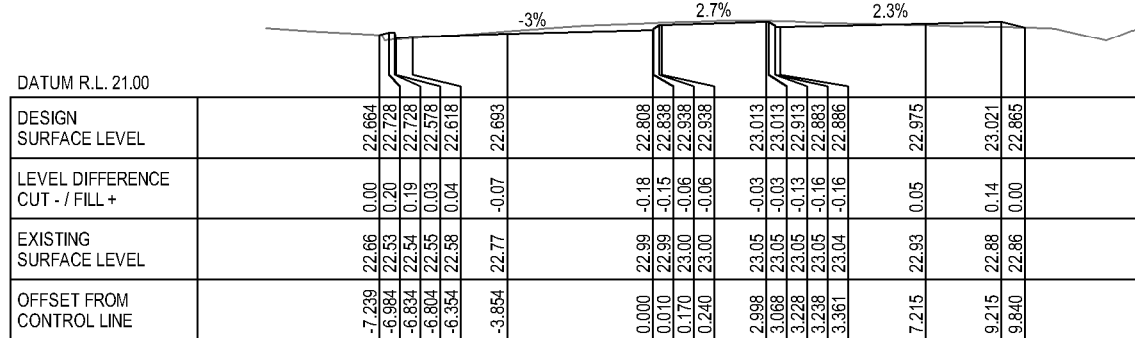
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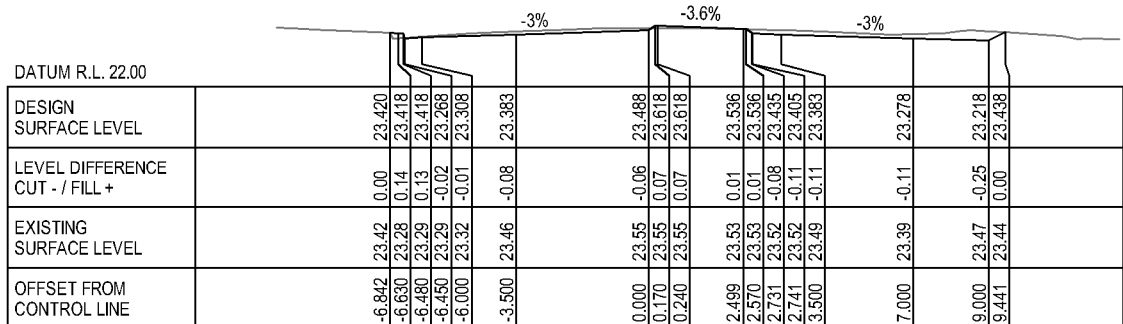
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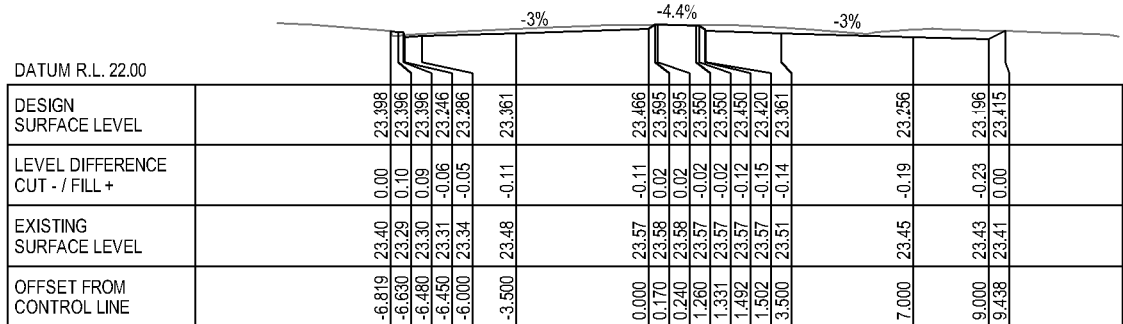
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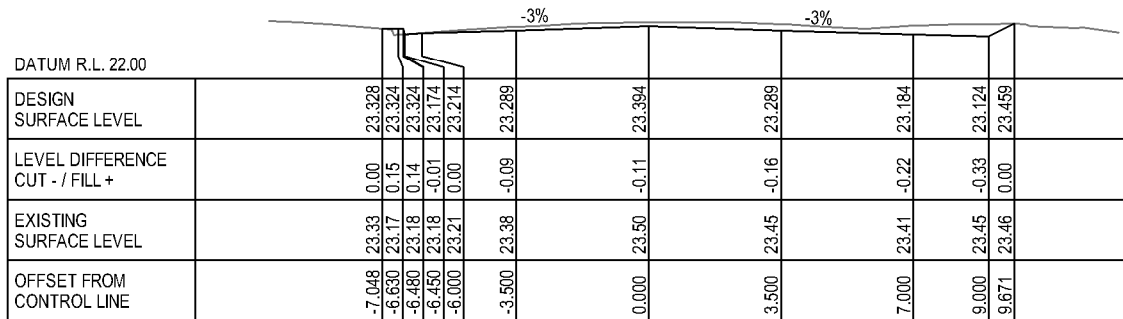
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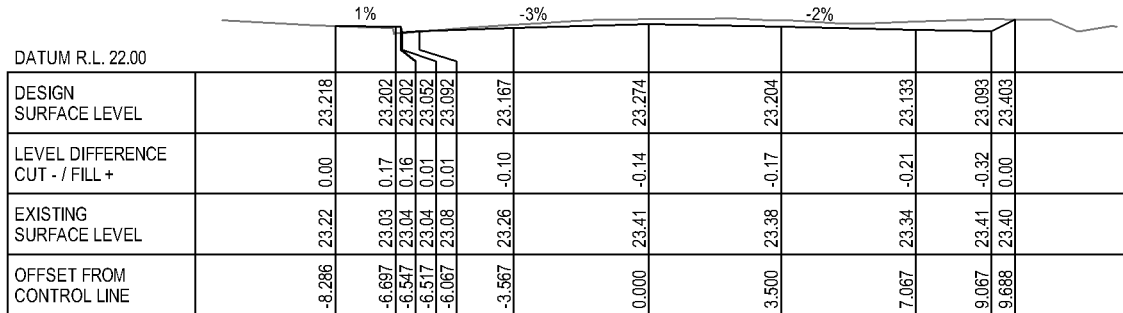
CH 1080



CH 1070



CH 1060



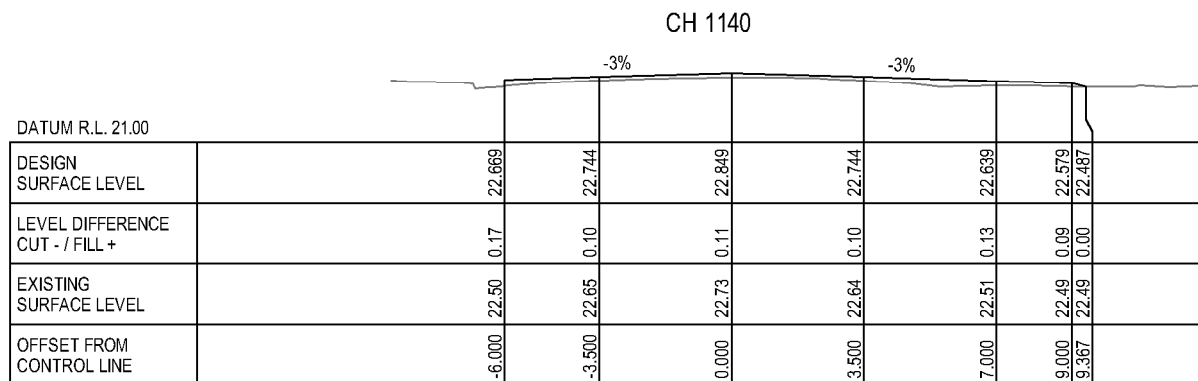
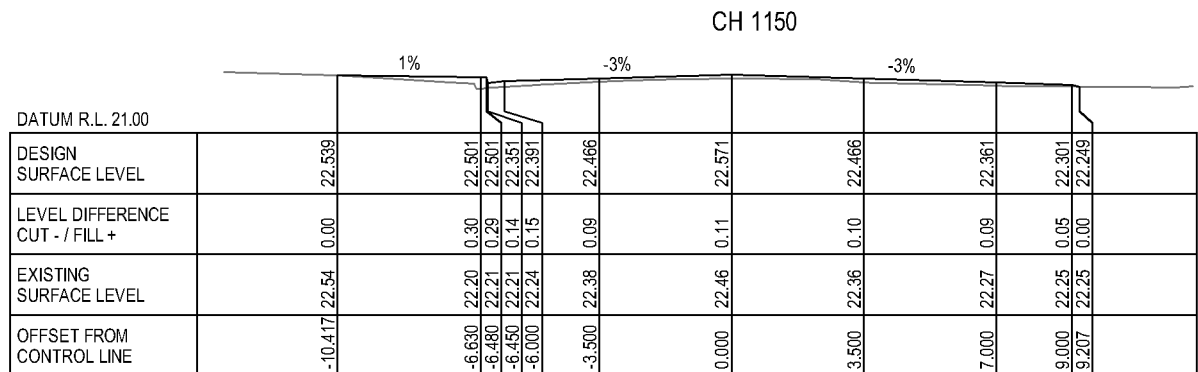
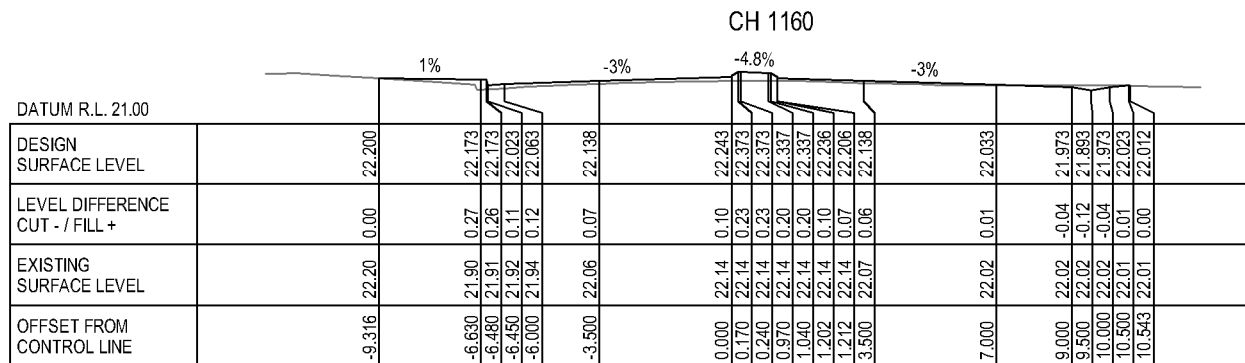
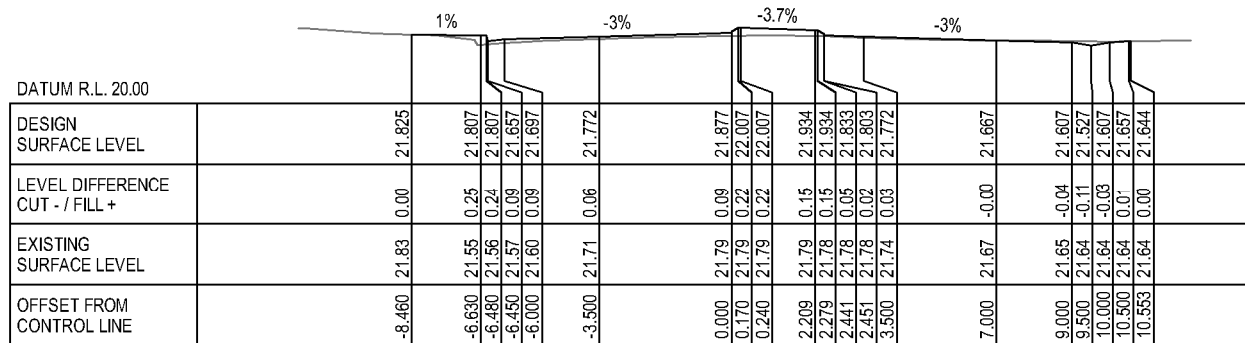
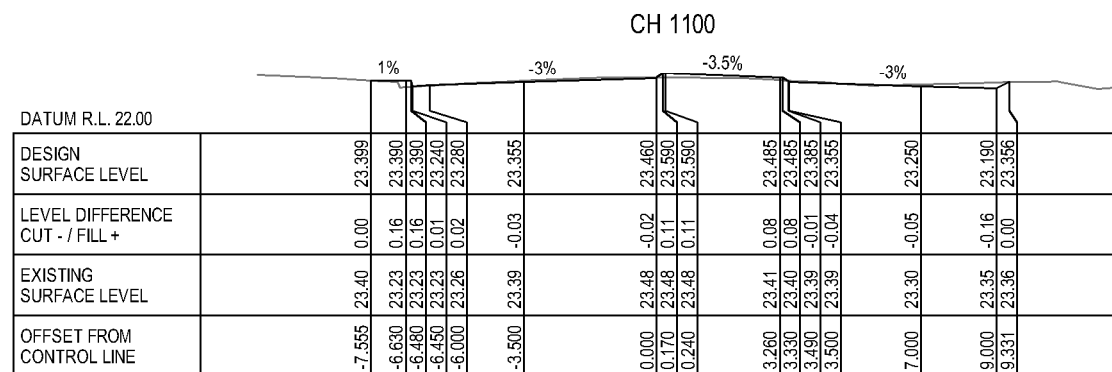
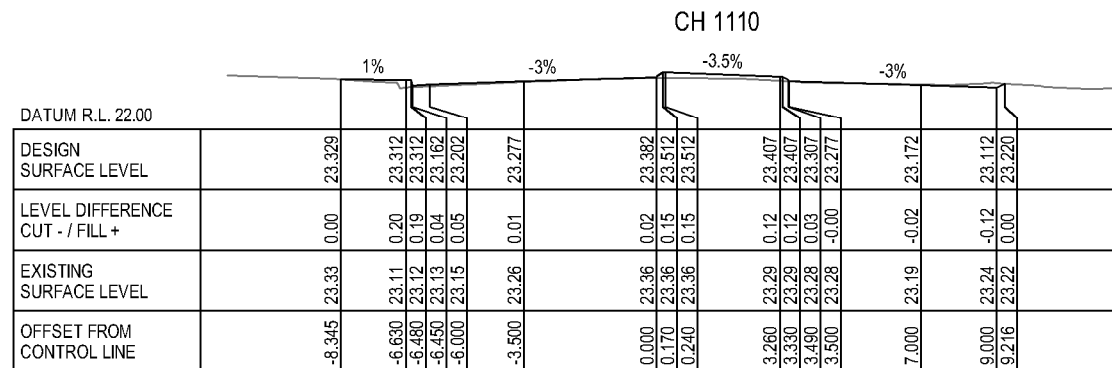
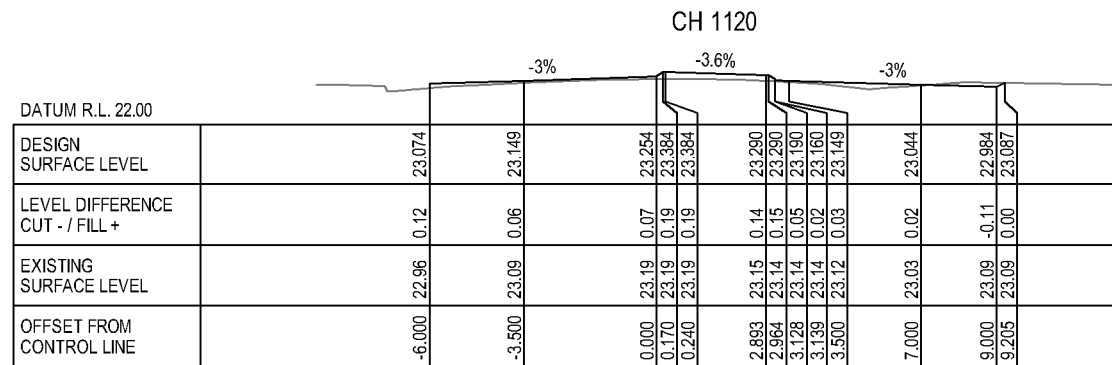
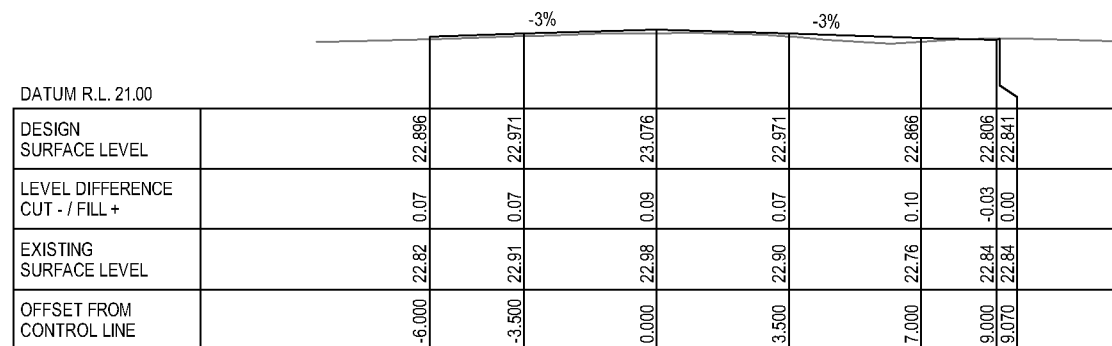
CH 1050.165

CROSS SECTIONS

HAUSSMAN DRIVE

SCALE 1:200

												0246m SCALE 1:200 AT ORIGINAL SIZE						GHD Tower, Level 3 24 Honeysuckle Drive, Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent, NSW 2310 T 61 2 4979 9999 F 61 2 4979 9988 E ntmial@ghd.com W www.ghd.com						DO NOT SCALE Conditions of Use. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose. Drawn R. COCKS Designer N. HINCKS Drafting Check Design Check Approved (Project Director) Date Scale AS SHOWN This Drawing must not be used for Construction unless signed as Approved						Client Project Title MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE SHEET 20 OF 35 Original Size A3 Drawing No: 22-18378-C089 Rev: C					
C	FINAL CONCEPT DESIGN					RJC	GM	AS	06.10.17	0246m SCALE 1:200 AT ORIGINAL SIZE						GHD Tower, Level 3 24 Honeysuckle Drive, Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent, NSW 2310 T 61 2 4979 9999 F 61 2 4979 9988 E ntmial@ghd.com W www.ghd.com						DO NOT SCALE Conditions of Use. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose. Drawn R. COCKS Designer N. HINCKS Drafting Check Design Check Approved (Project Director) Date Scale AS SHOWN This Drawing must not be used for Construction unless signed as Approved						Client Project Title MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE SHEET 20 OF 35 Original Size A3 Drawing No: 22-18378-C089 Rev: C							
B	FINAL CONCEPT DESIGN					C.B	G.M	A.S	15.09.17																										
A	ISSUED FOR REVIEW					C.B	G.M	A.S	13.07.17																										
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing			Drawn	Job Manager	Project Director	Date																											



CROSS SECTIONS

HAUSSMAN DRIVE

SCALE 1:200



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Drawn R. COCKS

Designer N. HINCKS

Drafting
Check

Design
Check

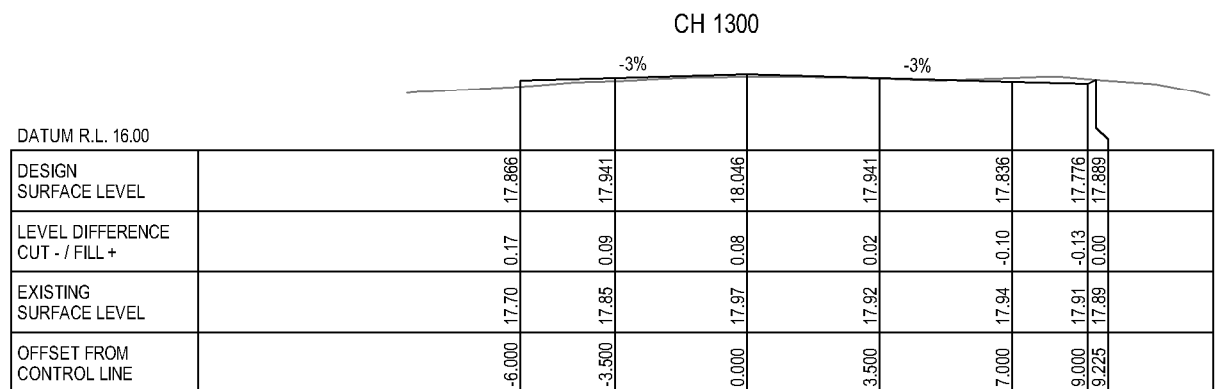
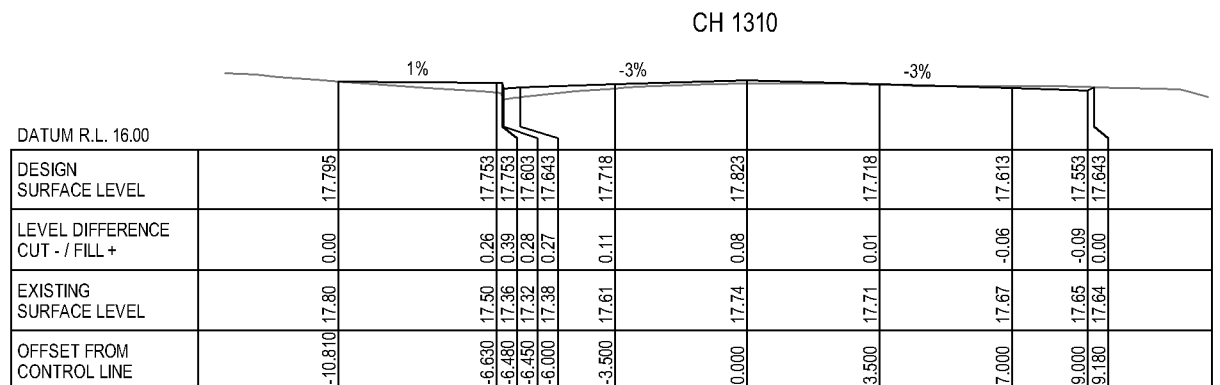
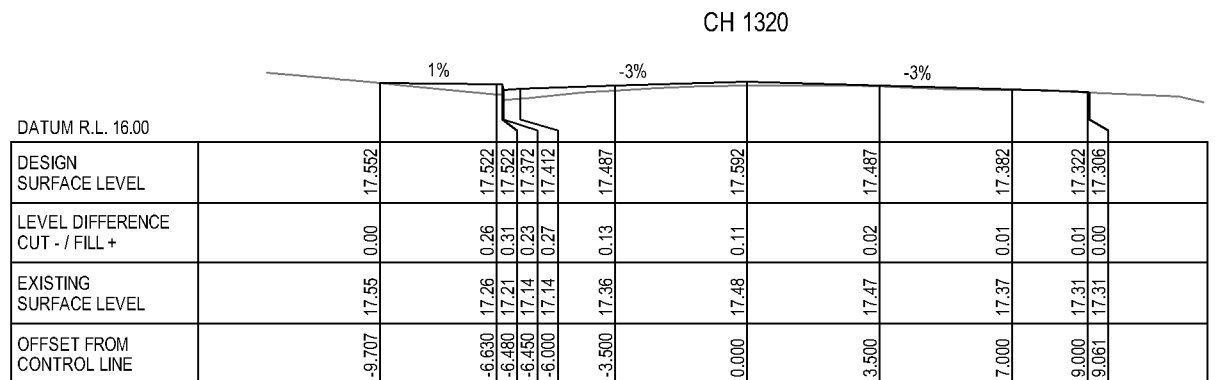
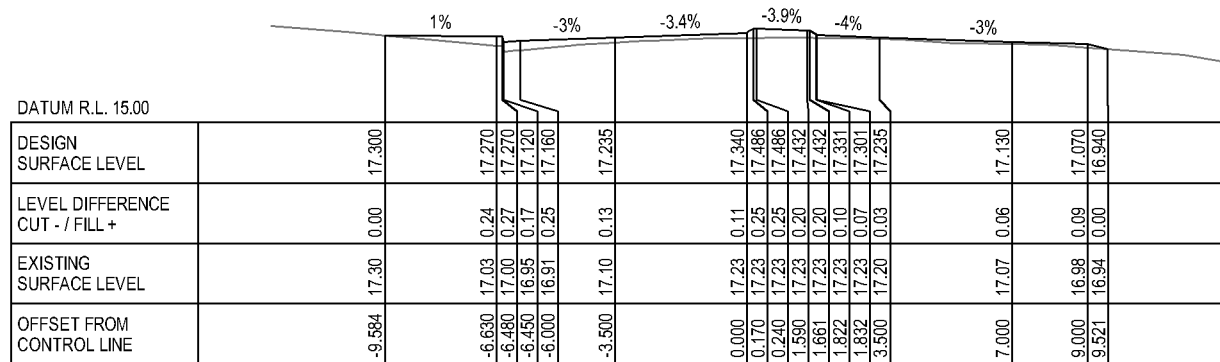
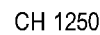
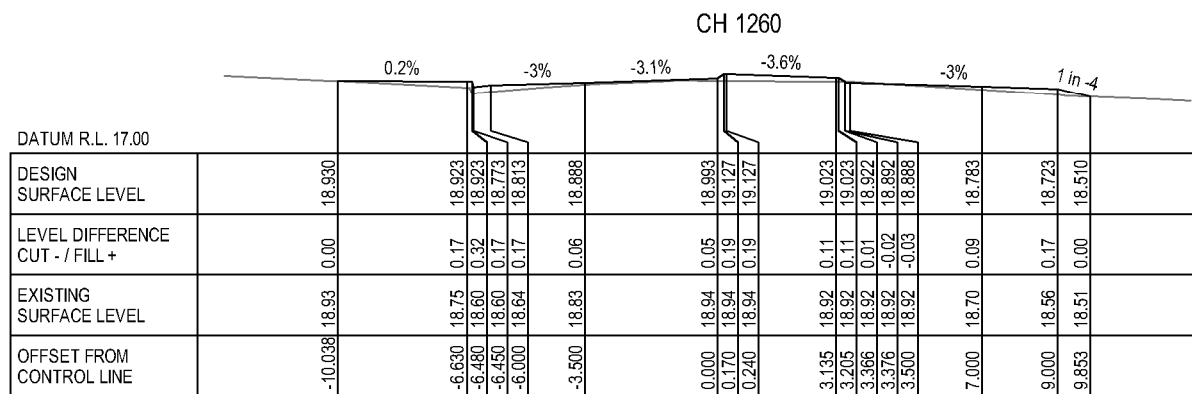
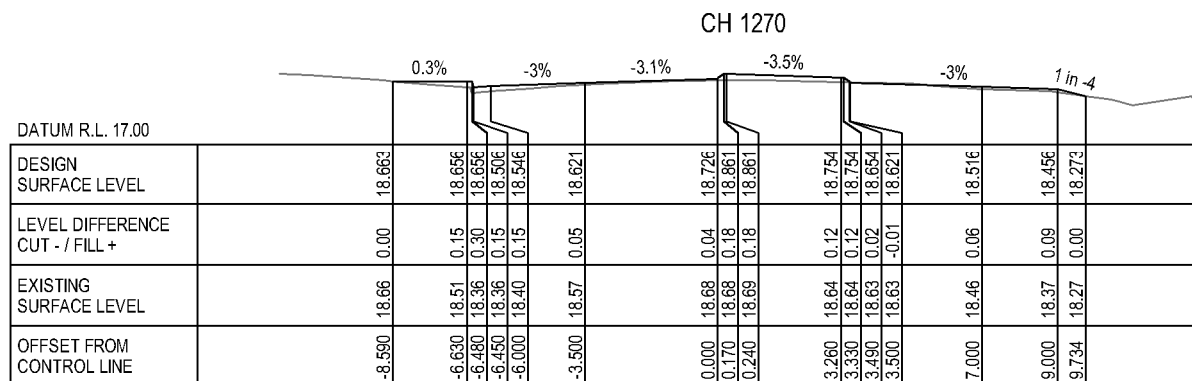
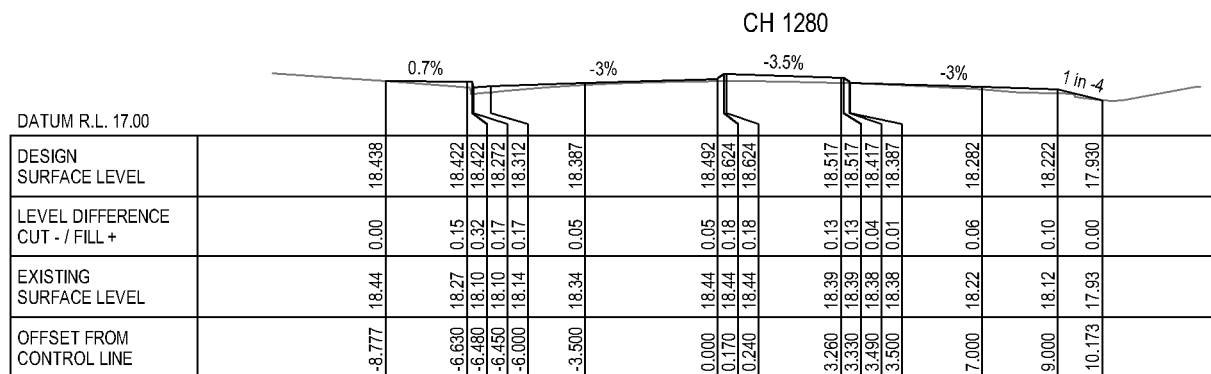
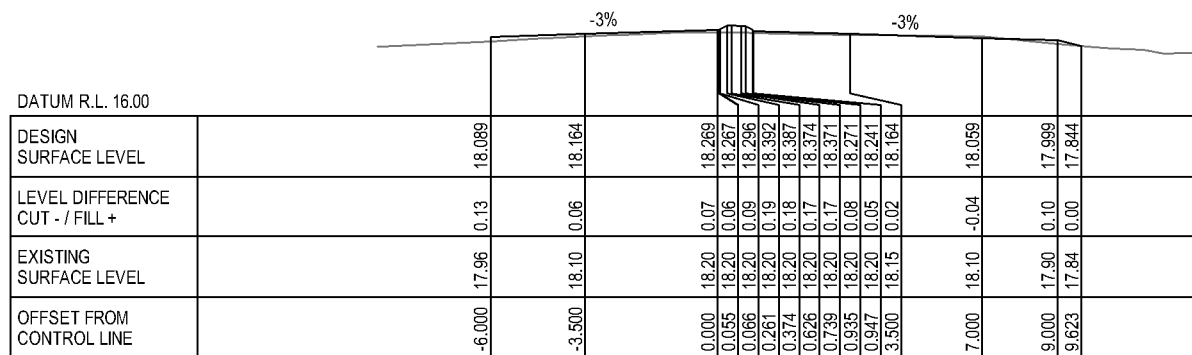
(Project Director)
Date

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Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 21 OF 35

Original Size
A3 Drawing No: **22-18378-C090**

ev: **C**



CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

CH 1290

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date



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Drawn R. COCKS

Designer N. HINCKS

	Drafting
	Check

Design	
Check	

Check
Approved

Check	
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(Project Director)
Date

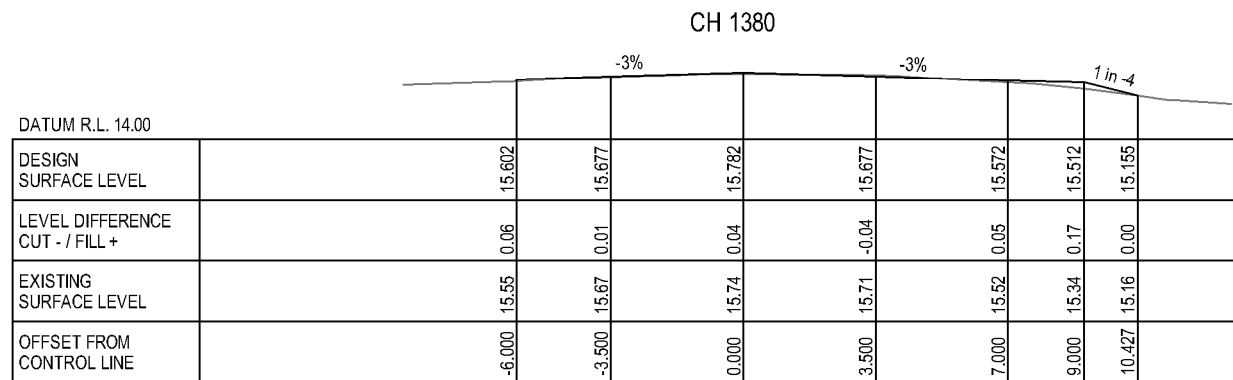
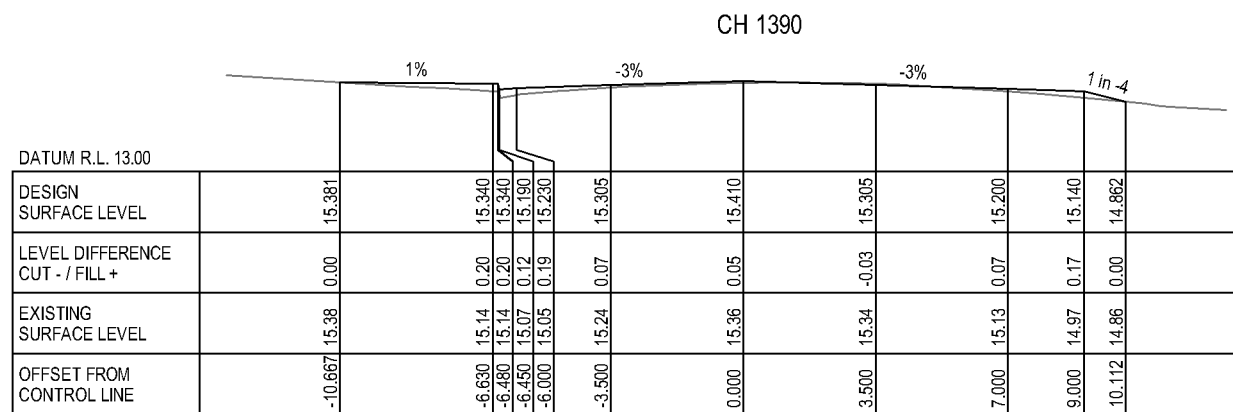
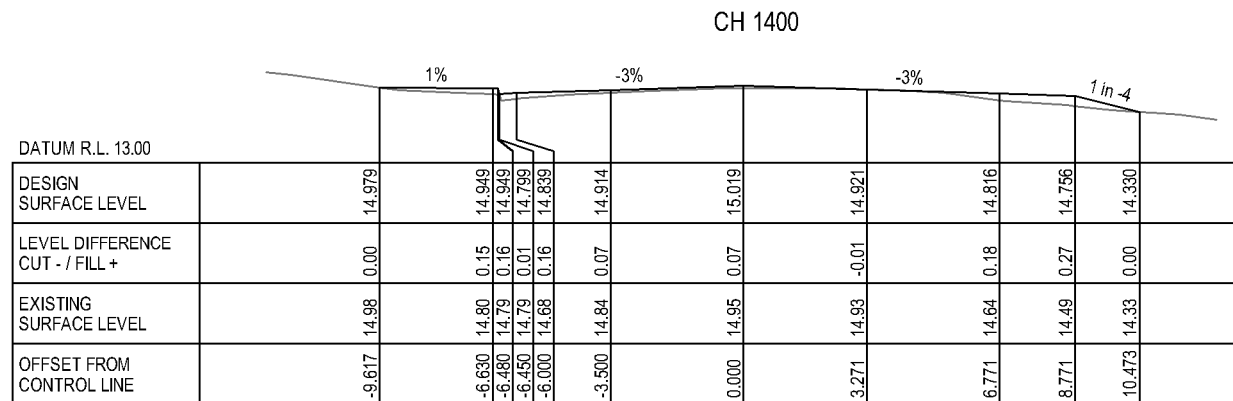
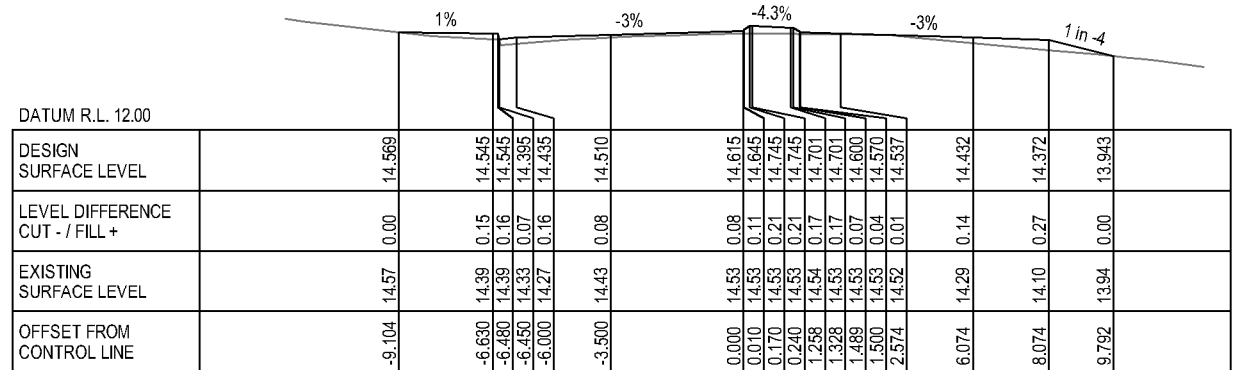
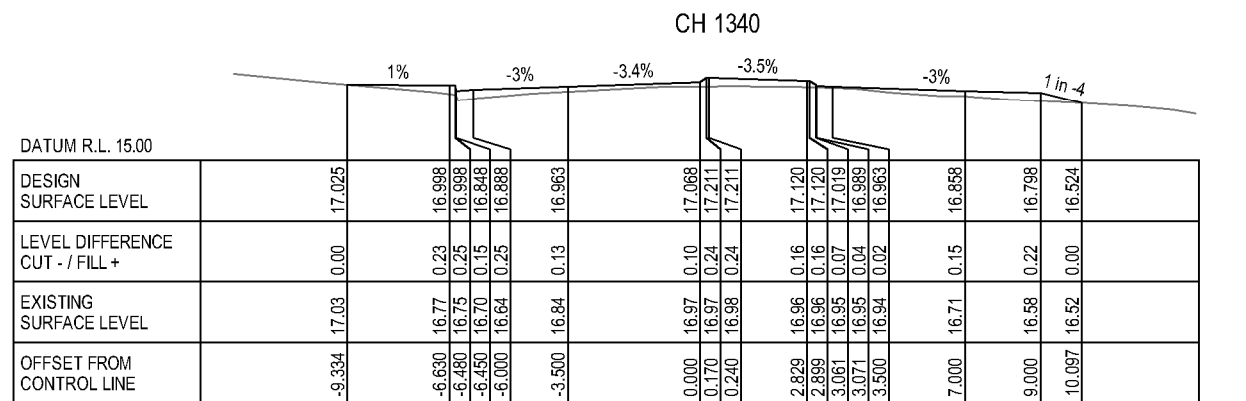
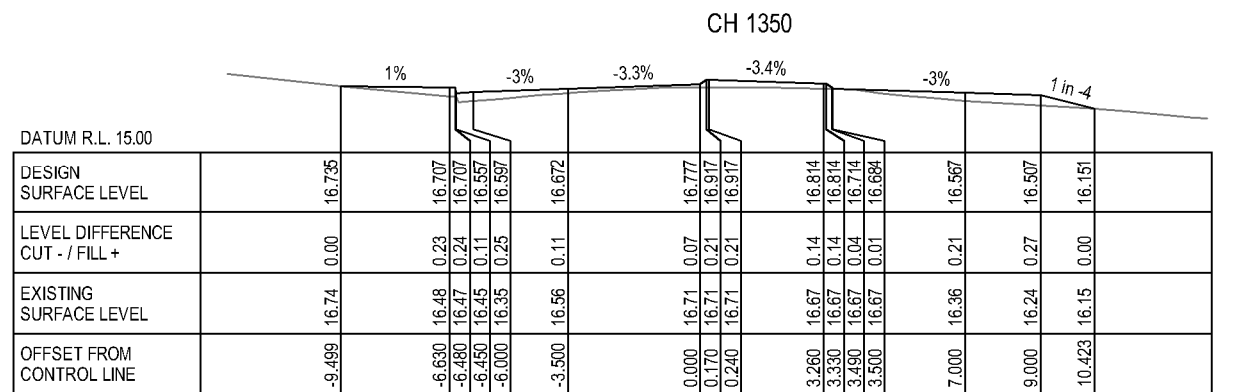
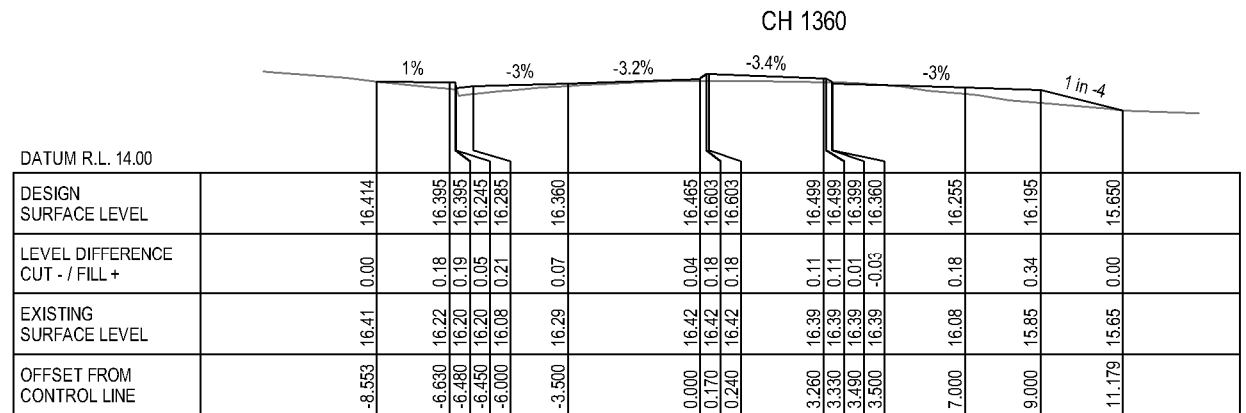
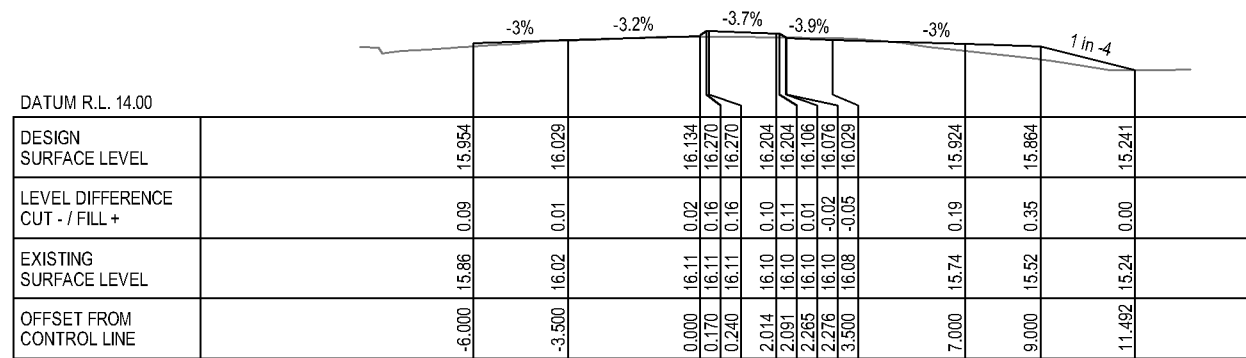
Scale AS SHOWN

This Drawing must not be used for Construction until

Client:	MAITLAND CITY COUNCIL
Project:	HAUSSMAN DRIVE ROAD UPGRADE
Title:	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 23 OF 35

Original Size	A3	Drawing No:	22-18378-C092
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Rev: C

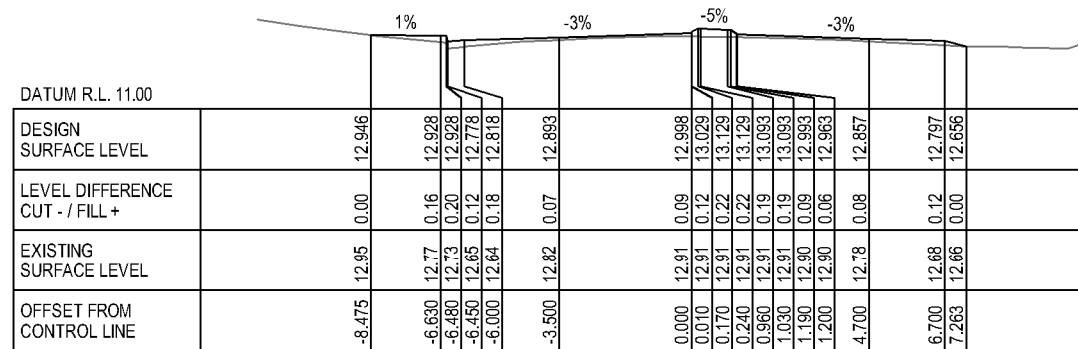


CROSS SECTIONS

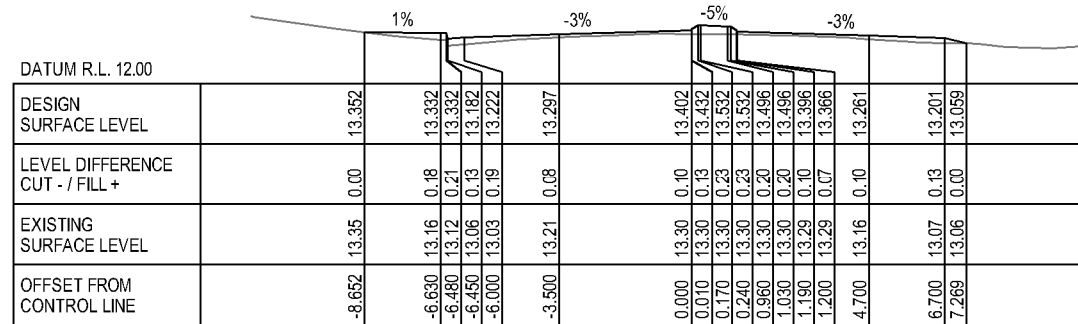
HAUSSMAN DRIVE

SCALE 1:200

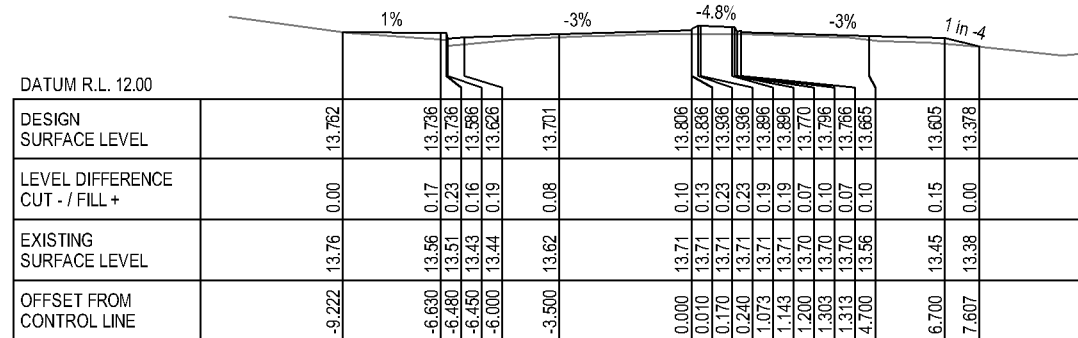
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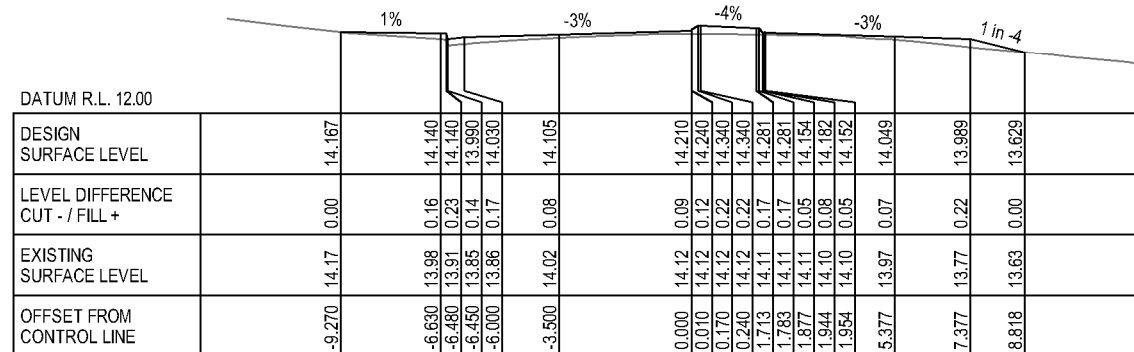
CH 1440



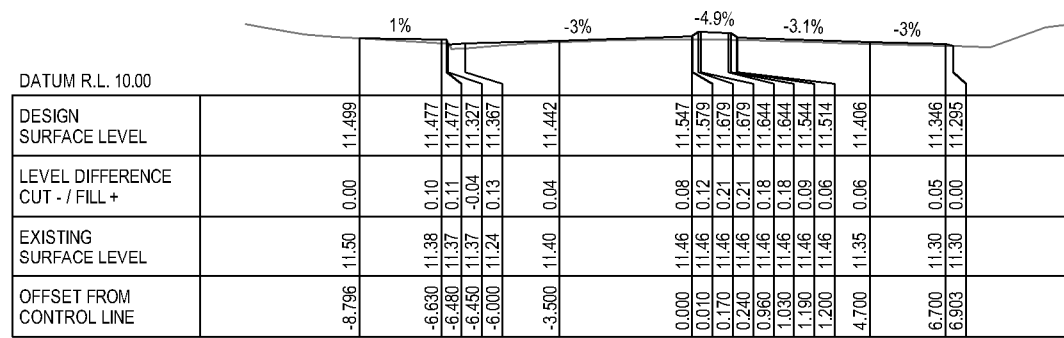
CH 1430



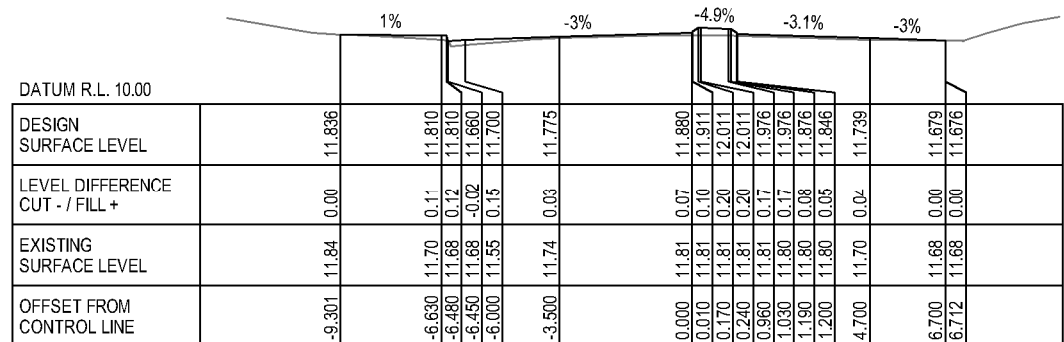
CH 1420



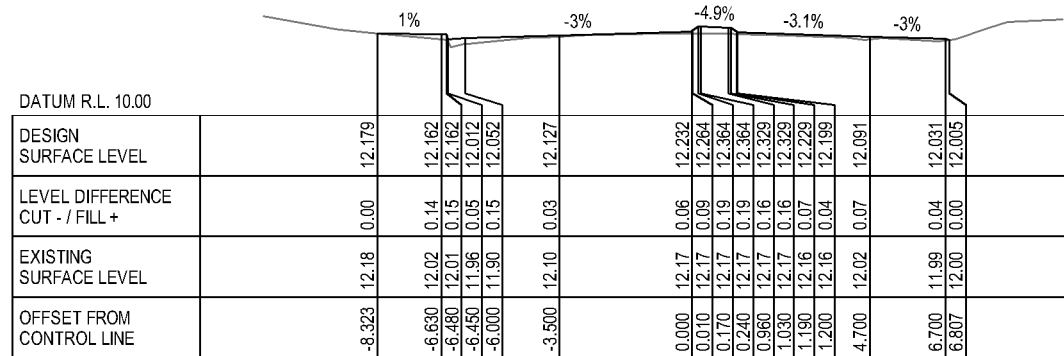
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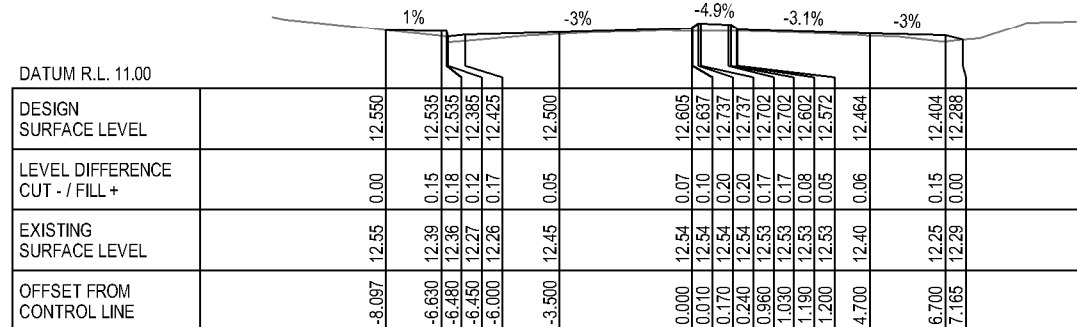
CH 1480



CH 1470



CH 1460



CH 1450

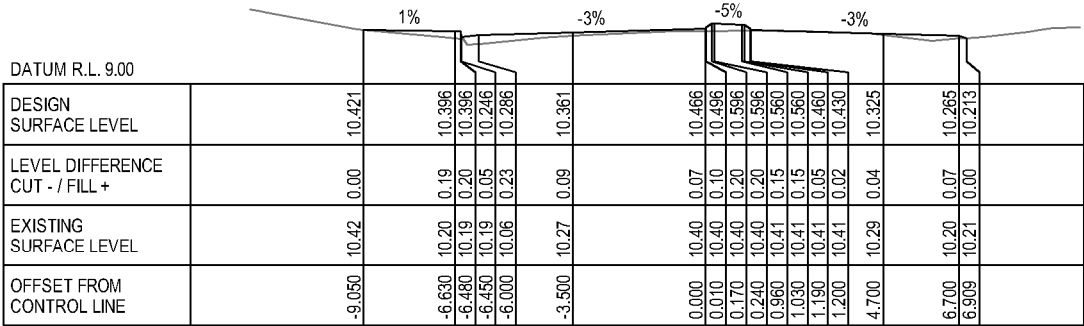
CROSS SECTIONS

HAUSSMAN DRIVE

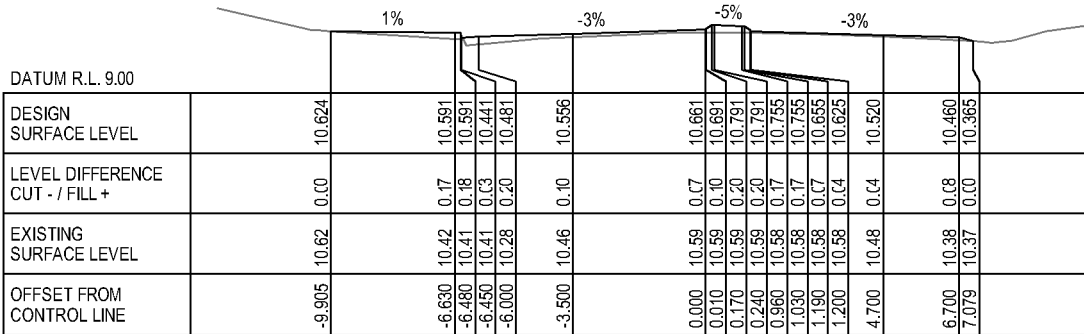
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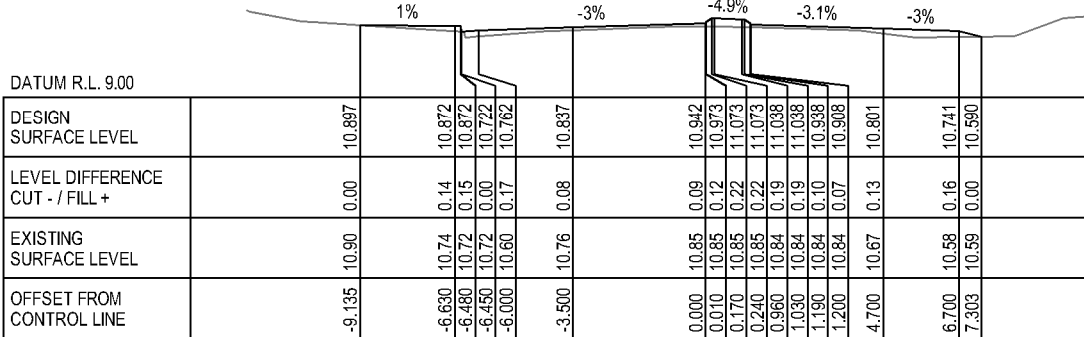
LEGEND
DESIGN SURFACE
EXISTING SURFACE



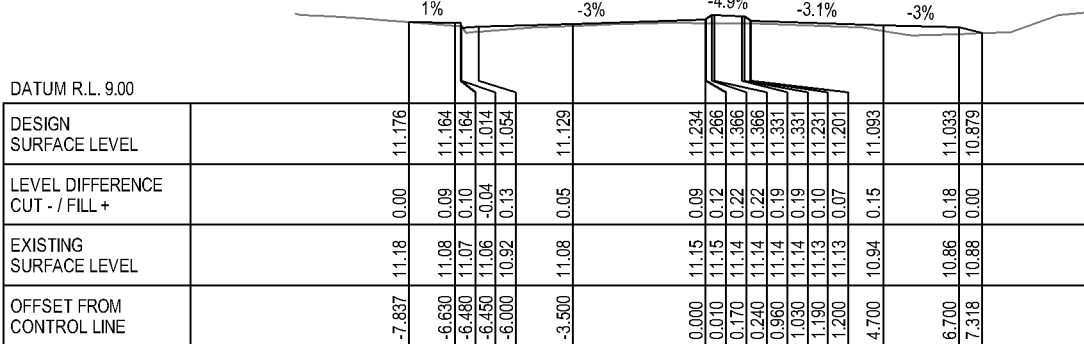
CH 1516.952



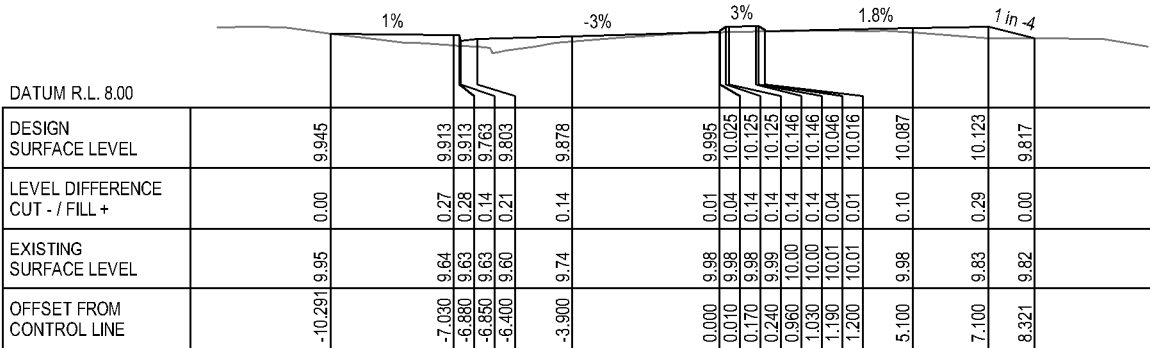
CH 1510



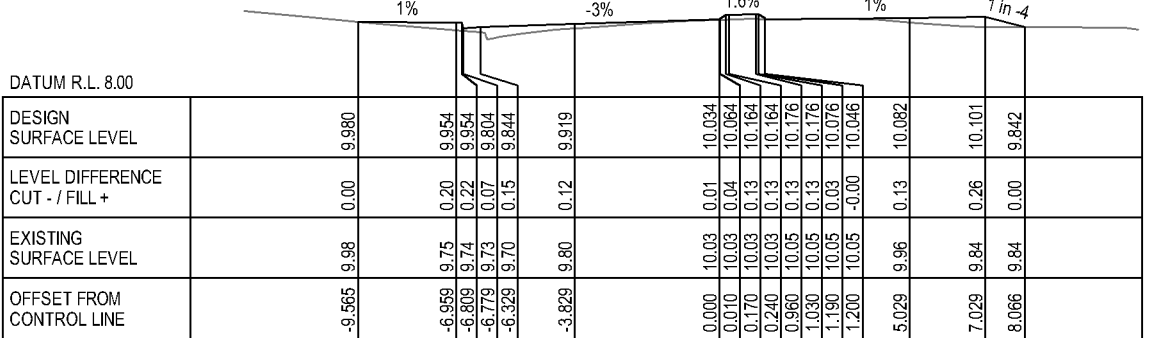
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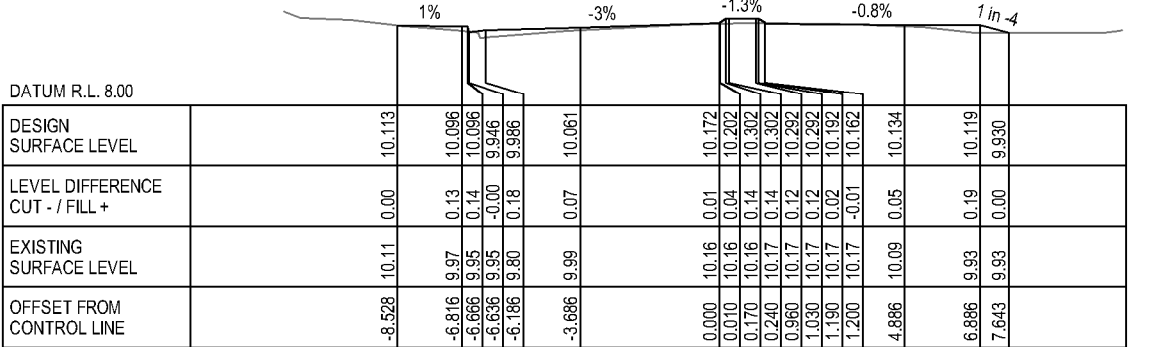
CH 1490



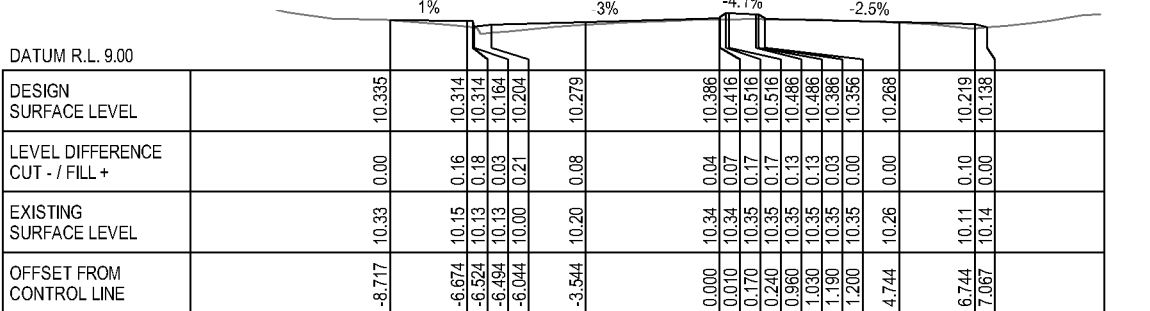
CH 1544.952



CH 1540



CH 1530



CH 1520

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17		
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17		
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date



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Drawn R. COCKS

Designer N. HINCKS

Drafting Check

Design Check

Approved (Project Director)

Date

Scale AS SHOWN

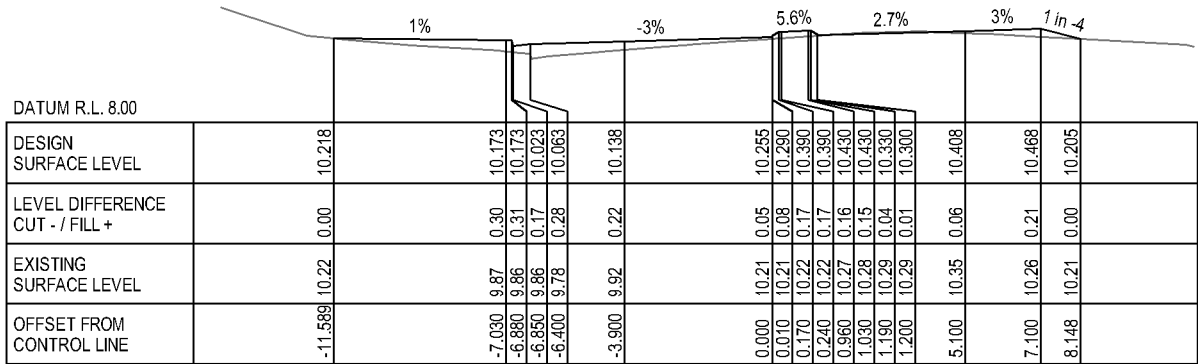
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Client MAITLAND CITY COUNCIL
Project HAUSSMAN DRIVE ROAD UPGRADE
Title CROSS SECTIONS - HAUSSMAN DRIVE
SHEET 26 OF 35

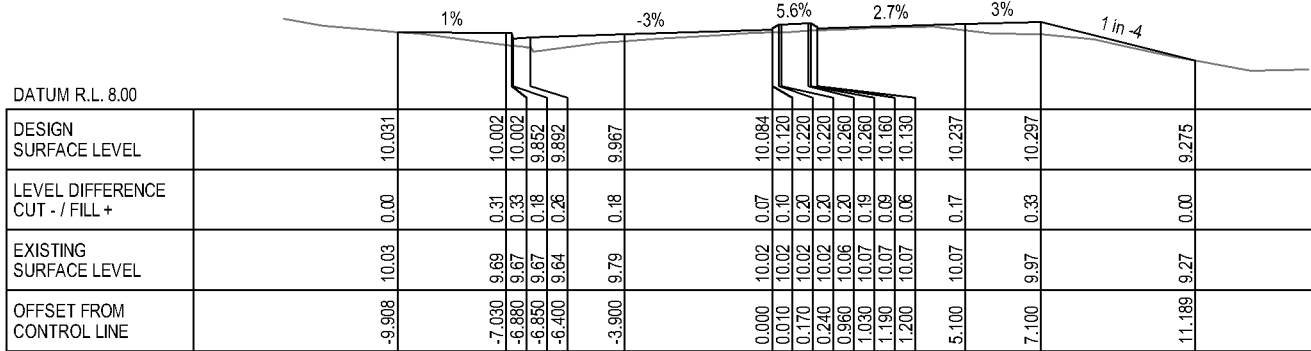
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Rev: C

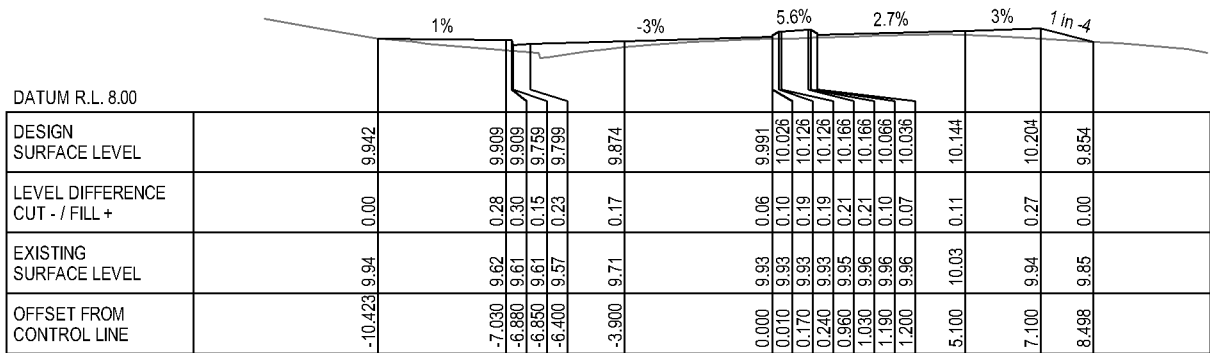
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DESIGN SURFACE
EXISTING SURFACE



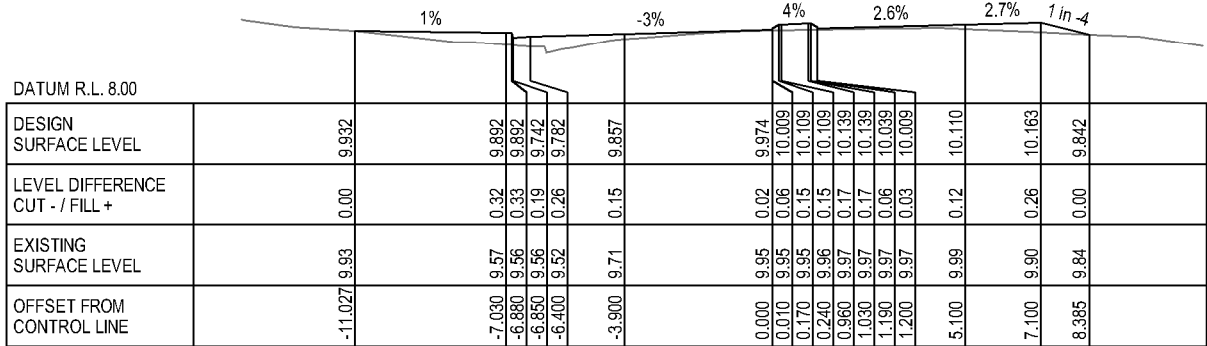
CH 1580



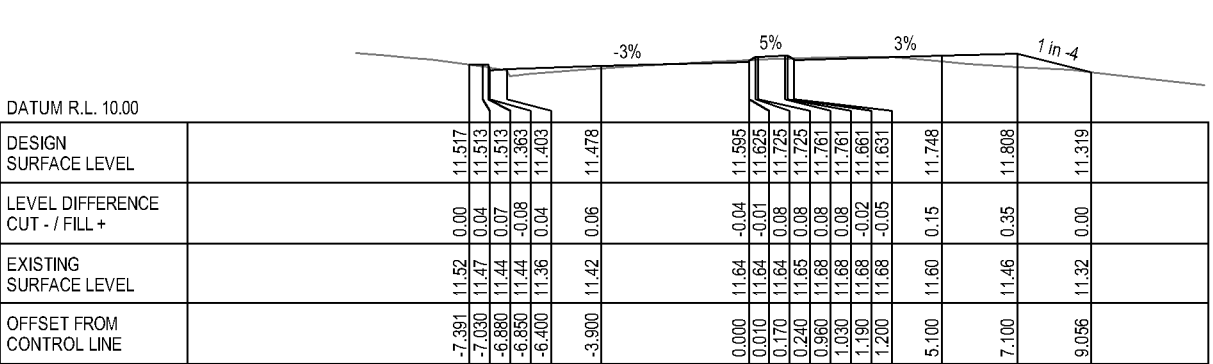
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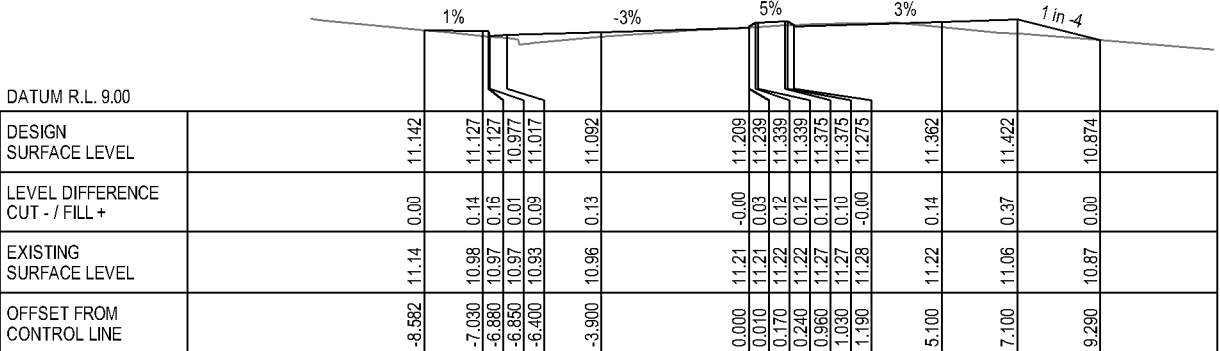
CH 1560



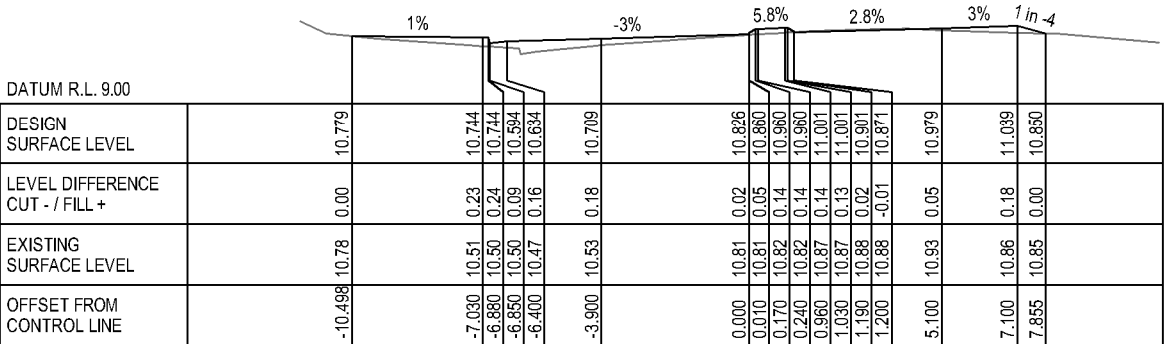
CH 1550



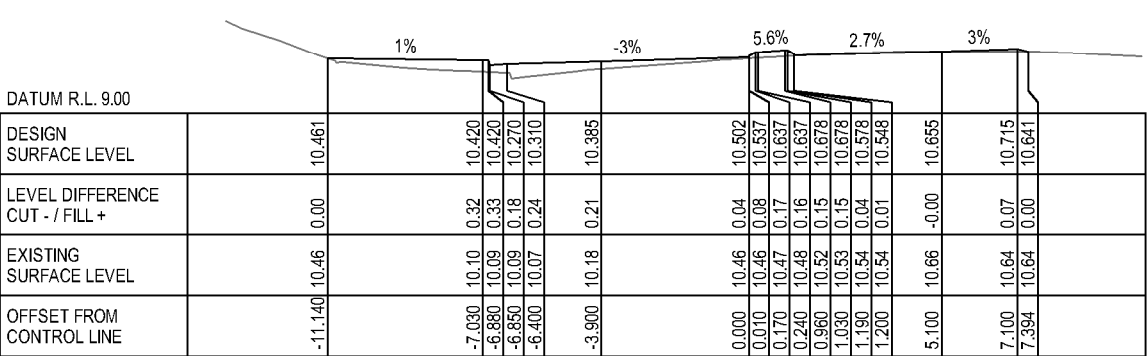
CH 1620



CH 1610



CH 1600



CH 1590

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

PRELIMINARY

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17		
A	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17		
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date



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Drawn R. COCKS

Designer N. HINCKS

Drafting Check

Design Check

Approved (Project Director)

Date

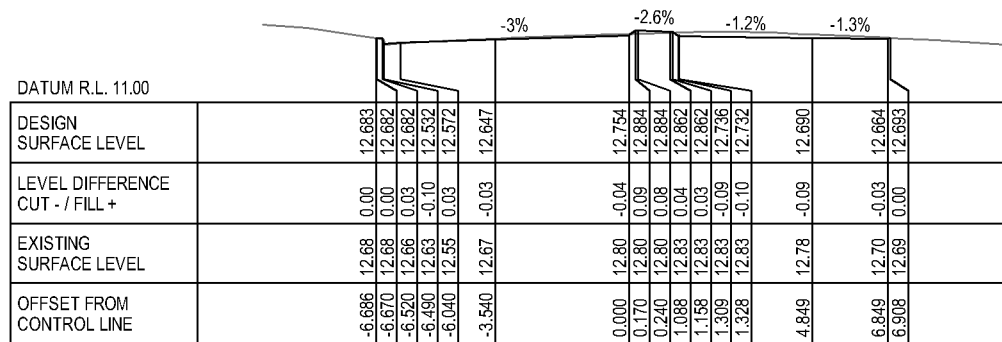
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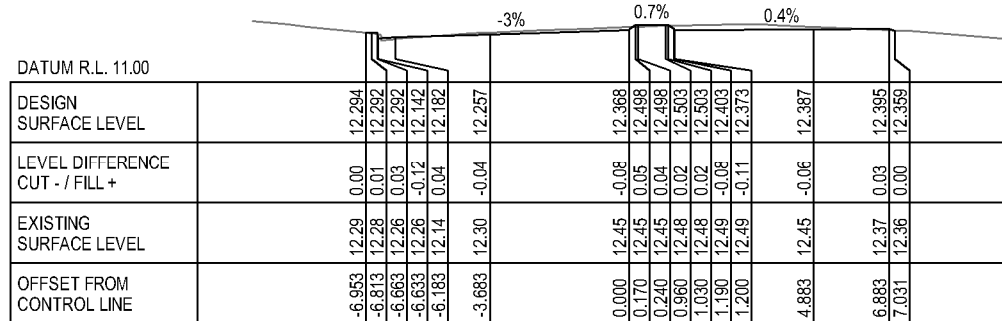
Client MAITLAND CITY COUNCIL
Project HAUSSMAN DRIVE ROAD UPGRADE
Title CROSS SECTIONS - HAUSSMAN DRIVE
SHEET 27 OF 35

Original Size A3 Drawing No: 22-18378-C096

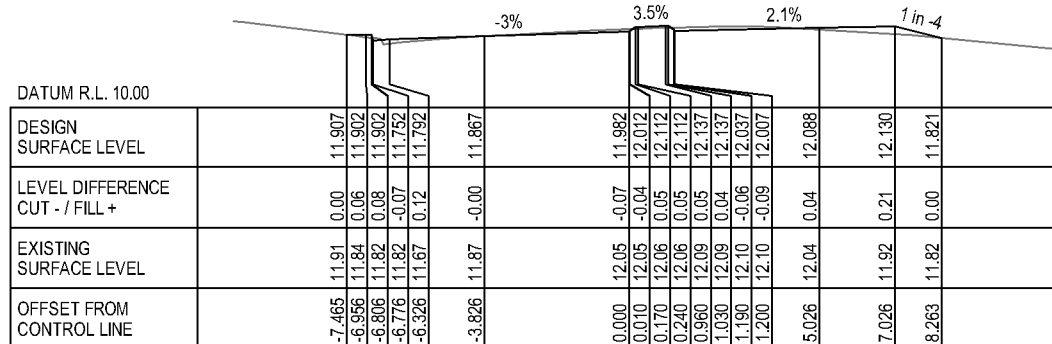
Rev: C



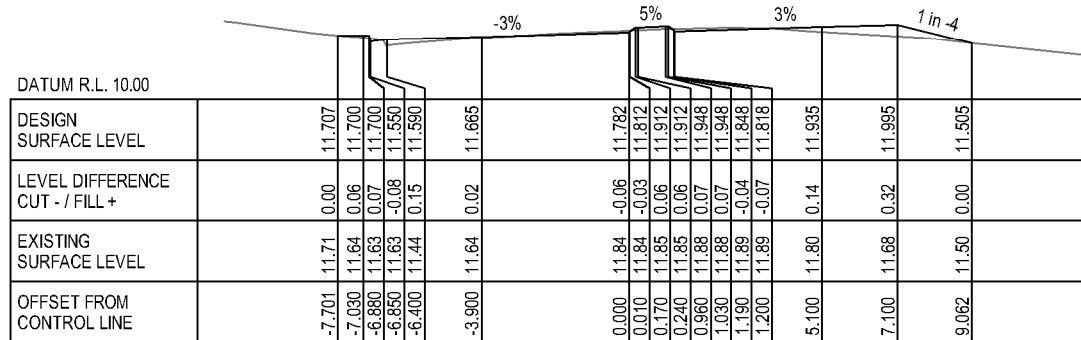
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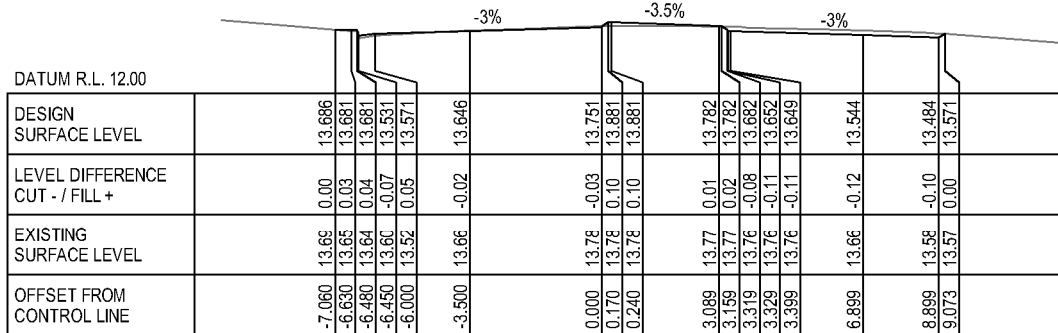
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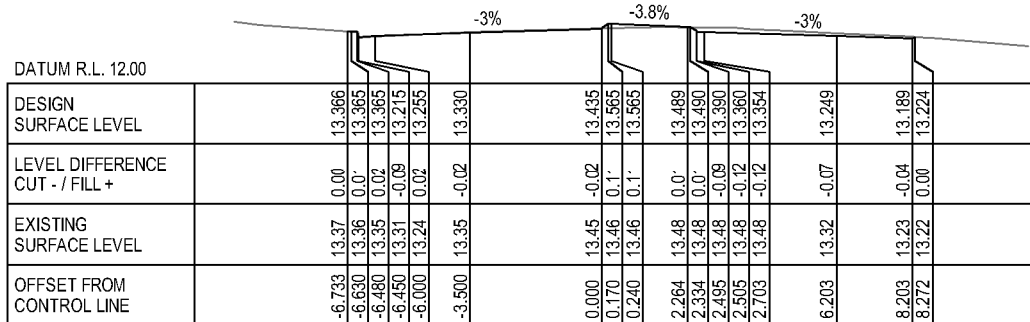
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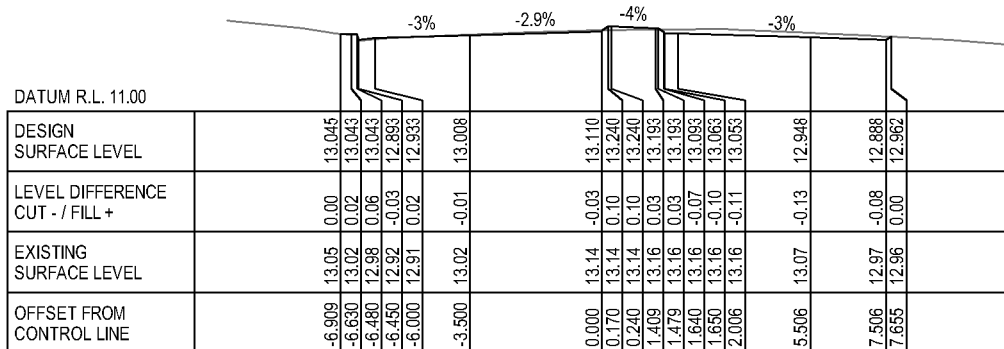
CH 1624.833



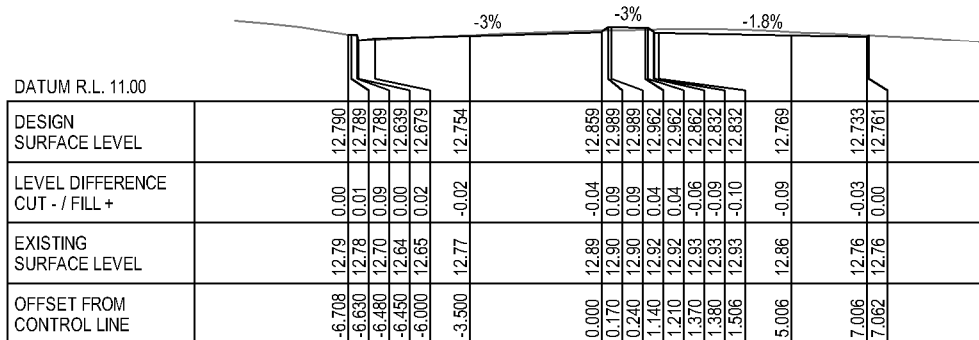
CH 1680



CH 1670



CH 1660



CH 1652.833

CROSS SECTIONS

HAUSSMAN DRIVE

SCALE 1:200

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
B	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
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Designer N. HINCKS

Drafting
CheckDesign
Check

Approved
(Project Director)

Date

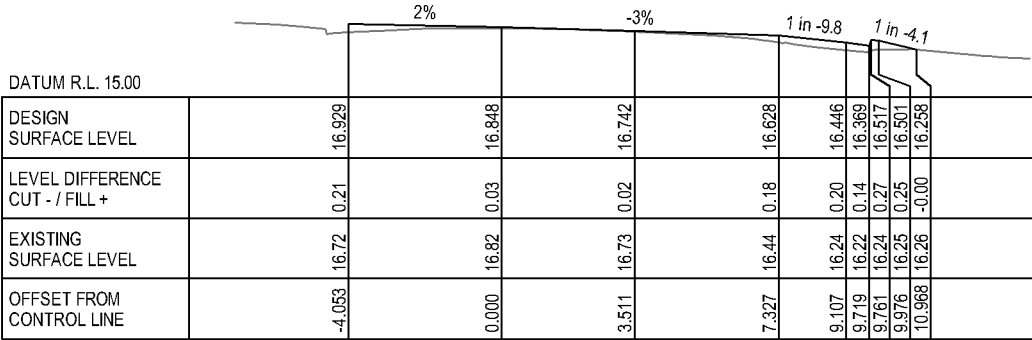
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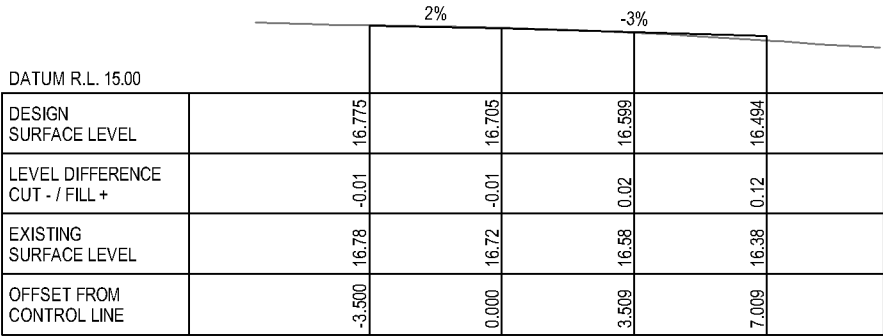
Client	MAITLAND CITY COUNCIL
Project	HAUSSMAN DRIVE ROAD UPGRADE
Title	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 28 OF 35

Original Size
A3 Drawing No: **22-18378-C097**

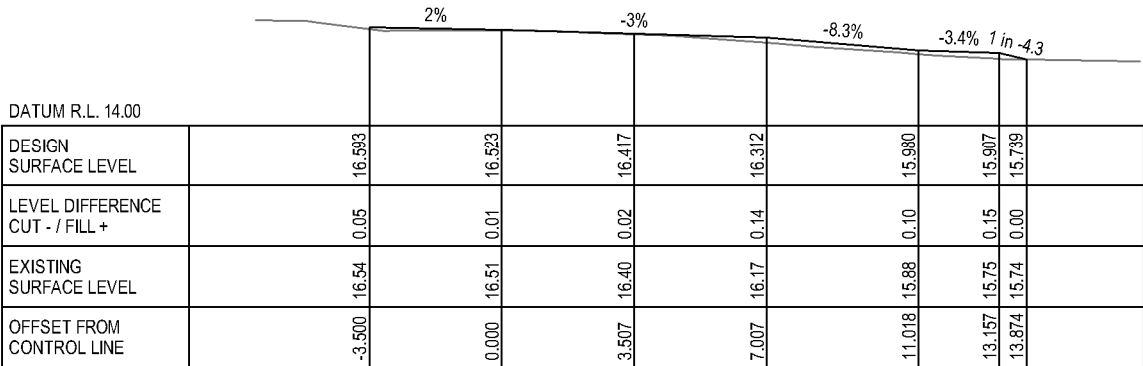
Rev: C



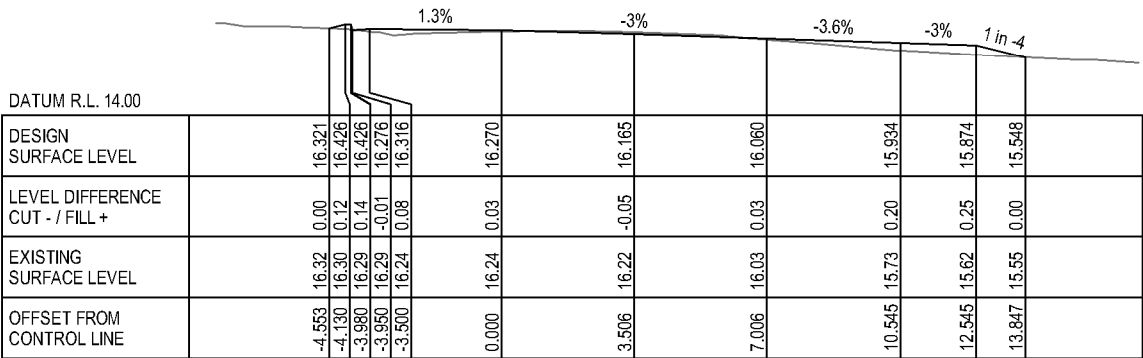
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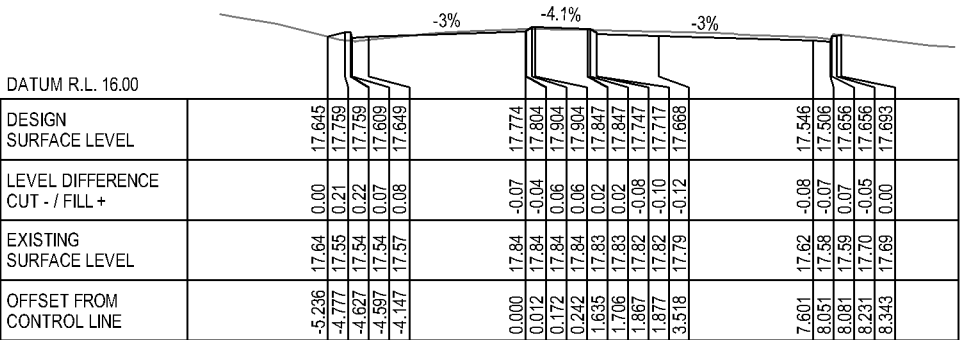
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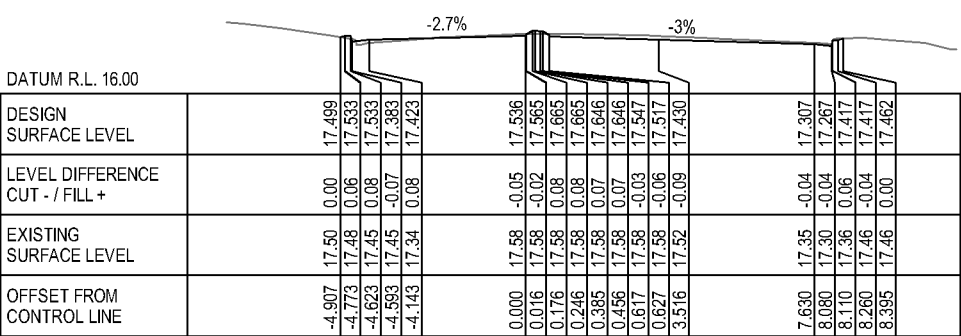
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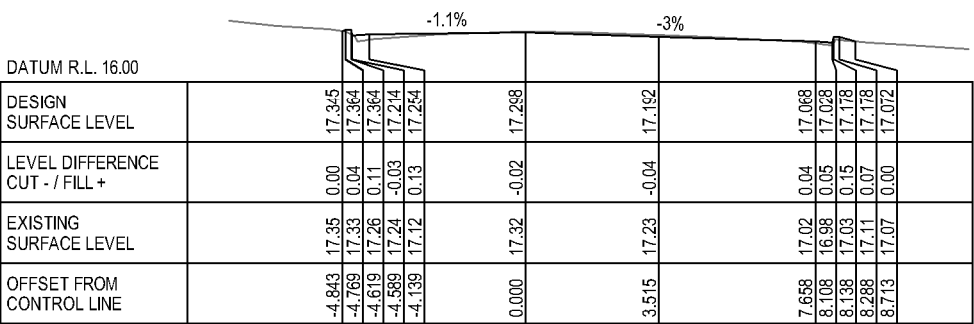
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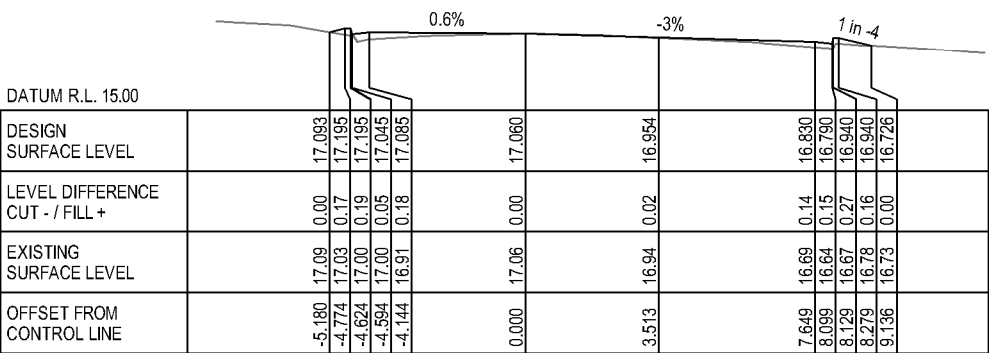
CH 1980



CH 1970



CH 1960



CH 1950

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		
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Designer N. HINCKS

Drafting Check

Design Check

Approved (Project Director)

Date

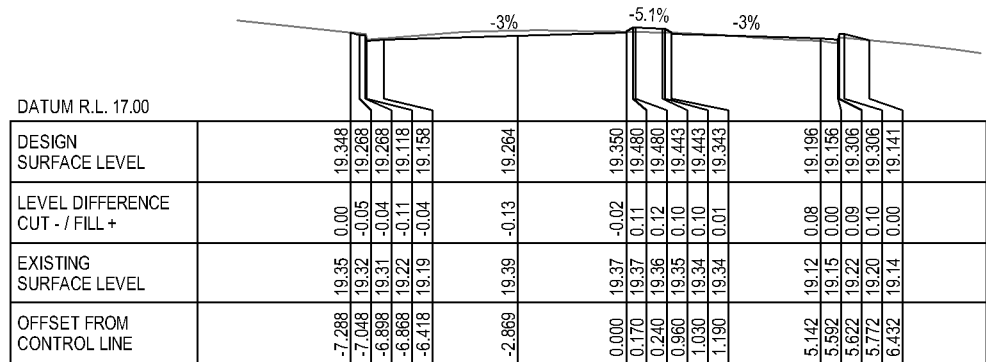
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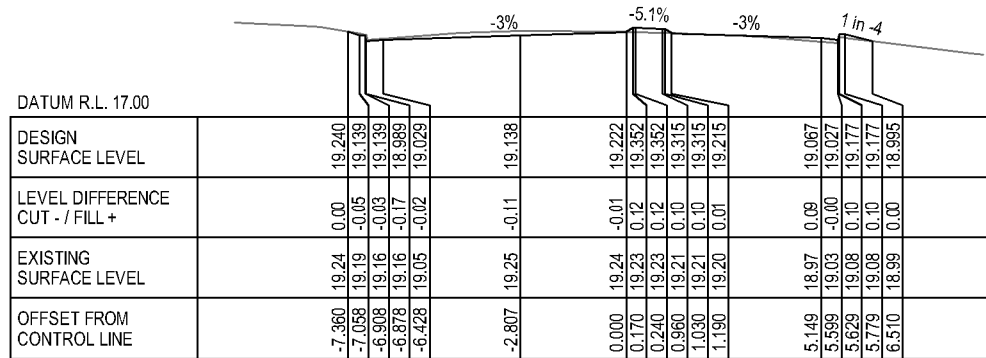
Client MAITLAND CITY COUNCIL
Project HAUSSMAN DRIVE ROAD UPGRADE
Title CROSS SECTIONS - HAUSSMAN DRIVE
SHEET 32 OF 35

Original Size A3 Drawing No: 22-18378-C101

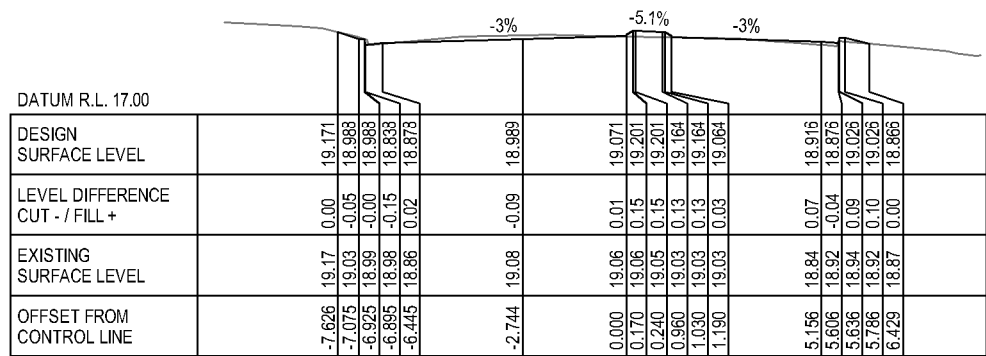
Rev: C



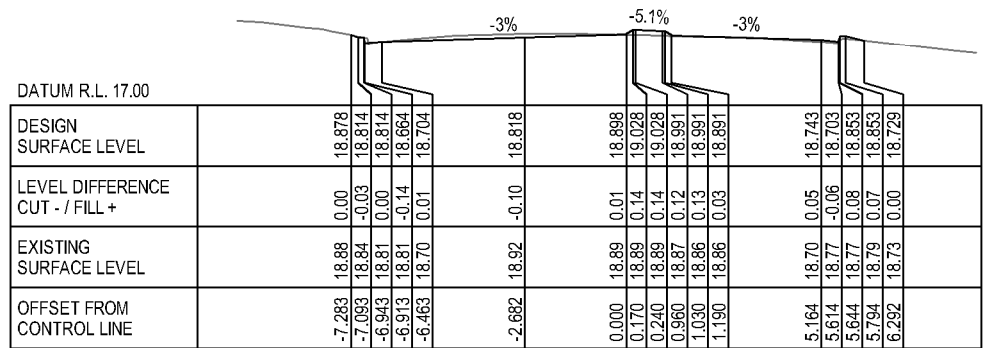
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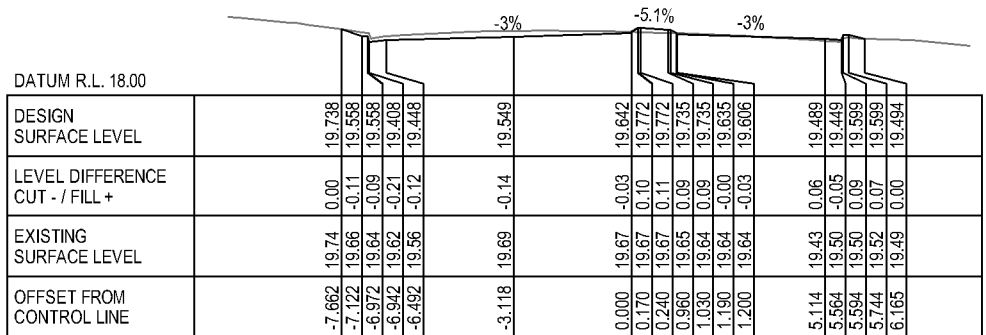
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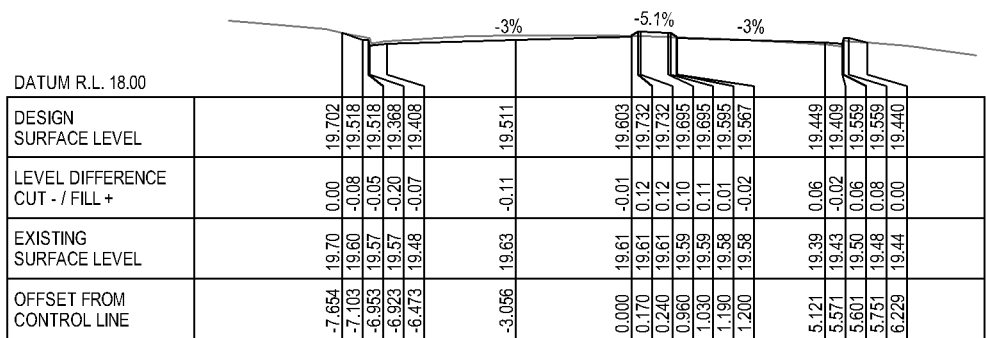
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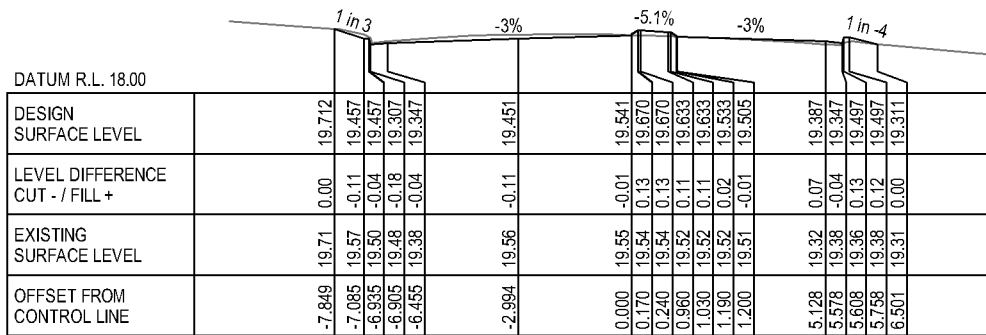
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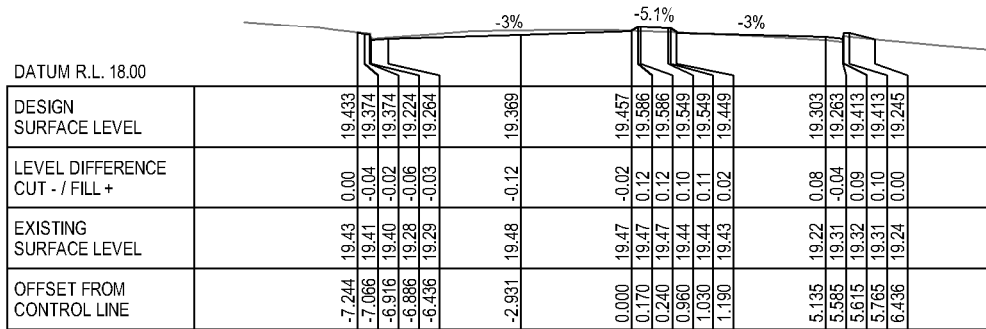
CH 2100



CH 2090



CH 2080



CH 2070

CROSS SECTIONS

HAUSSMAN DRIVE

SCALE 1:200

C	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
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Drawn R. COCKS

Designer N. HINCKS

Drafting
Check

Design	
Check	

(Project Director)
Date

Client **MAITLAND CITY COUNCIL**
Project **HAUSSMAN DRIVE ROAD UPGRADE**
Title **CROSS SECTIONS - HAUSSMAN DRIVE**
SHEET 34 OF 35

Original Size
A3 Drawing No: **22-18378-C103**

Rev: C

