

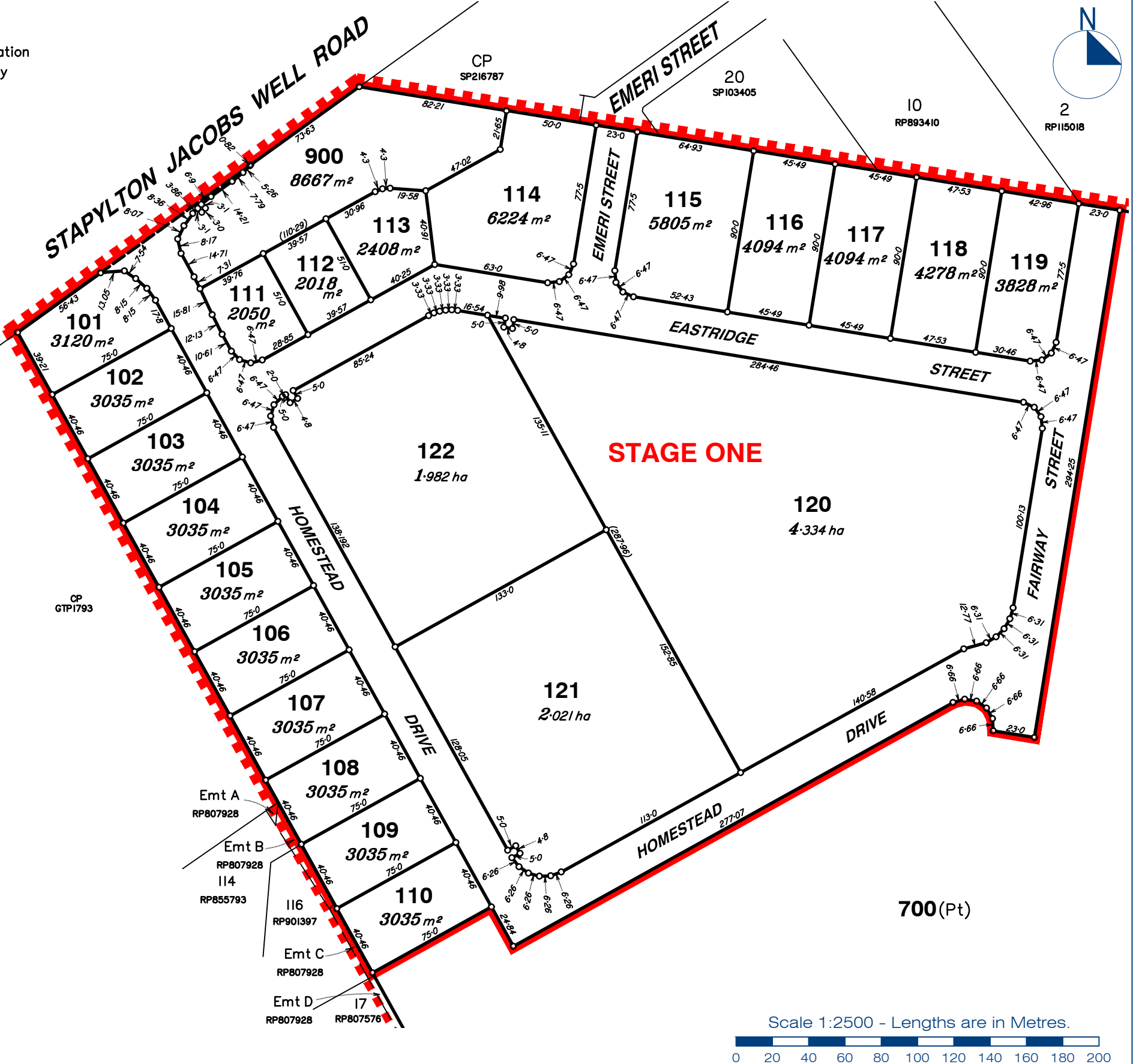
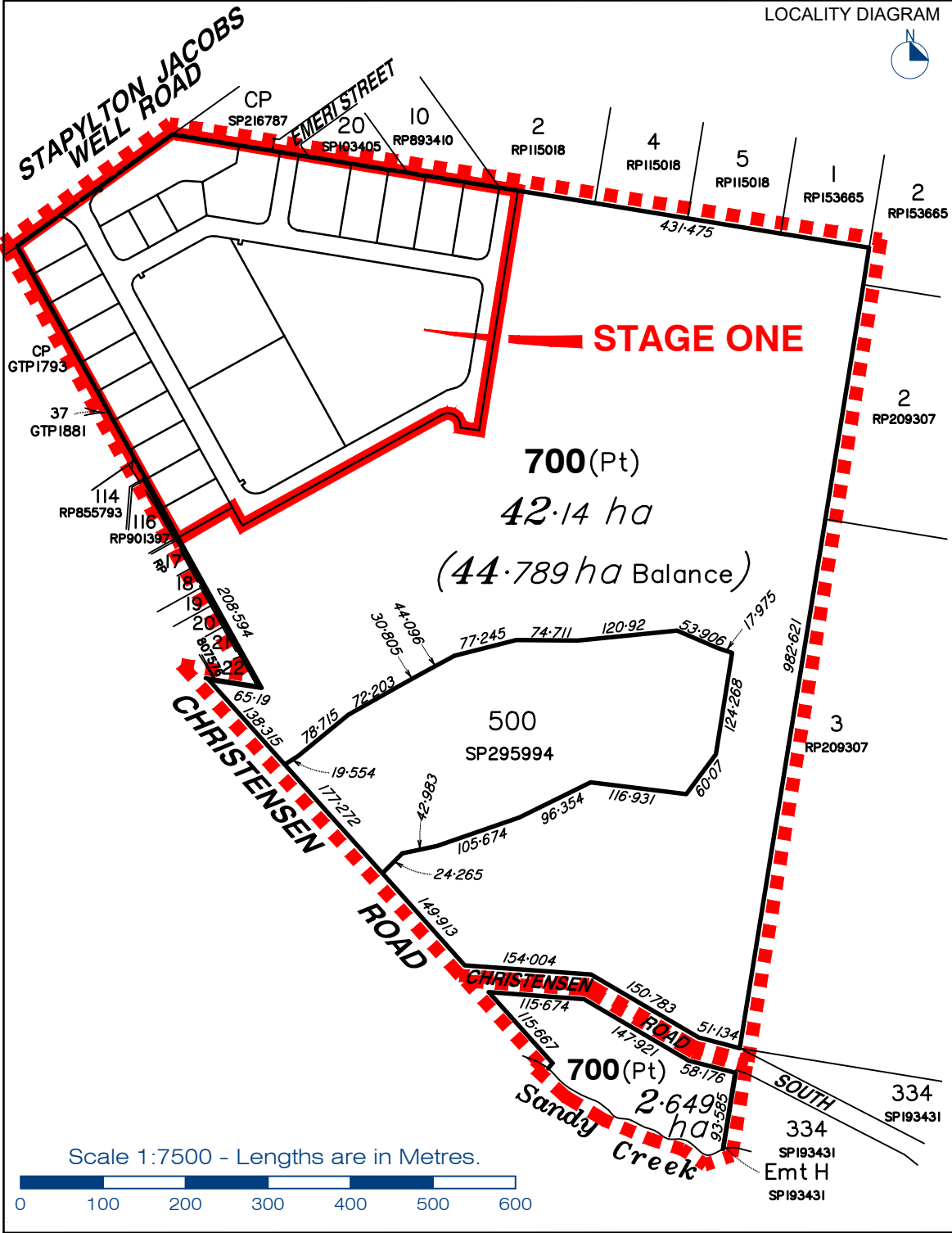


ATTACHMENT 5

AMENDED ROL PLAN

DEVELOPMENT SUMMARY				
Total Site Area 64.239Ha				
LOT YIELD	STAGE AREA	LOT DENSITY	AVERAGE LOT SIZE	APPROX. AREA & LENGTH OF NEW ROAD
22 Lots	19.34 ha	1.13 Lots/ha	6742m ²	3.636 Ha 1,560m

--- Limit of Application
— Stage Boundary



Scale at A3:	1:2500				
Date:	12-08-20				
Design:	ICG				
Drawn:	SJH				
Checked:	AWG				
B	12/08/2020	MINOR CHANGES TO PMTS & RMU, REMOVE EMT		SJH	AWG
A	18/12/2019	ADD PMTS IN LOTS 120 & 122		SJH	AWG
	14/11/2019	ORIGINAL ISSUE		SJH	AWG
Issue	Date	Description		DRN	CHK

Project:

VANTAGE YATALA

Client:

FRASERS PROPERTY AUSTRALIA

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All dimensions and areas are approximate only and subject to survey.
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Drawing Title:
**Proposed Staged
Reconfiguration of
Land STAGE ONE**
Cancelling Lot 501 on SP295994
Drawing No:
5941 S ROL 01 B
Revision No:



ATTACHMENT 6

AMENDED BULK EARTHWORKS PLANS

DOCUMENT TRANSMITTAL SCHEDULE

To: **City of Gold Coast Council**

Address : **PO Box 5042
GCMC 9726**

Attention: **Development Assessment**



**PROJECT: OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL
M38 INDUSTRIAL PARK YATALA**

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5941 ENG BE1 001	DRAWING INDEX AND LOCALITY PLAN	A	B	C	D	F							
5941 ENG BE1 002	GENERAL NOTES SHEET 1 OF 2	A	B	B	B	C							
5941 ENG BE1 003	GENERAL NOTES SHEET 2 OF 2	A	B	B	B	C							
5941 ENG BE1 004	LEGEND	A	B	B	B	C							
5941 ENG BE1 005	KEY PLAN LAYOUT	A	B	B	B	C							
5941 ENG BE1 010	EXISTING SURFACE AND FEATURE PLAN	A	B	B	B	C							
5941 ENG BE1 020	SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 6	A	B	B	C	D							
5941 ENG BE1 021	SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 6	A	B	B	B	C							
5941 ENG BE1 022	SEDIMENT AND EROSION CONTROL PLAN SHEET 3 OF 6	A	B	B	C	D							
5941 ENG BE1 023	SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 6	A	B	B	B	C							
5941 ENG BE1 024	SEDIMENT AND EROSION CONTROL PLAN SHEET 5 OF 6	A	B	B	B	C							
5941 ENG BE1 025	SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 6	A	B	B	B	C							
5941 ENG BE1 026	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT	A	B	C	C	D							
5941 ENG BE1 027	CONSTRUCTION PHASE SEDIMENT BASIN 1 SECTIONS	A	B	C	C	D							
5941 ENG BE1 028	CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT	A	B	C	C	D							
5941 ENG BE1 029	CONSTRUCTION PHASE SEDIMENT BASIN 2 SECTIONS	A	B	C	C	D							
5941 ENG BE1 030	SEDIMENT AND EROSION TYPICAL DETAILS	A	B	B	B	C							
5941 ENG BE1 050	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 1 OF 6	A	B	B	C	D							
5941 ENG BE1 051	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 2 OF 6	A	B	B	C	D							
5941 ENG BE1 052	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 3 OF 6	A	B	B	C	D							
5941 ENG BE1 053	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 4 OF 6	A	B	B	C	D							
5941 ENG BE1 054	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 5 OF 6	A	B	B	C	D							
5941 ENG BE1 055	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 6 OF 6	A	B	B	C	D							
5941 ENG BE1 056	BULK EARTHWORKS LAYOUT PLAN	A	B	B	B	C							
5941 ENG BE1 100	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 1 OF 6	A	B	B	C	D							
5941 ENG BE1 101	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 2 OF 6	A	B	B	B	C							
5941 ENG BE1 102	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 3 OF 6	A	B	B	C	D							
5941 ENG BE1 103	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 4 OF 6	A	B	B	B	C							
5941 ENG BE1 104	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 5 OF 6	A	B	B	B	C							
5941 ENG BE1 105	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 6 OF 6	A	B	B	B	C							
5941 ENG BE1 150	FINISHED EARTHWORKS CROSS SECTIONS SHEET 1 OF 11	A	B	B	C	D							
5941 ENG BE1 151	FINISHED EARTHWORKS CROSS SECTIONS SHEET 2 OF 11	A	B	B	C	D							
5941 ENG BE1 152	FINISHED EARTHWORKS CROSS SECTIONS SHEET 3 OF 11	A	B	B	C	D							
5941 ENG BE1 153	FINISHED EARTHWORKS CROSS SECTIONS SHEET 4 OF 11	A	B	B	C	D							
5941 ENG BE1 154	FINISHED EARTHWORKS CROSS SECTIONS SHEET 5 OF 11	A	B	B	C	D							
5941 ENG BE1 155	FINISHED EARTHWORKS CROSS SECTIONS SHEET 6 OF 11	A	B	B	B	C							

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PROJECT: OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL
M38 INDUSTRIAL PARK YATALA

Job No: 5941

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5941 ENG BE1 156	FINISHED EARTHWORKS CROSS SECTIONS SHEET 7 OF 11	A	B	B	B	C							
5941 ENG BE1 157	FINISHED EARTHWORKS CROSS SECTIONS SHEET 8 OF 11	A	B	B	B	C							
5941 ENG BE1 158	FINISHED EARTHWORKS CROSS SECTIONS SHEET 9 OF 11	A	B	B	B	C							
5941 ENG BE1 159	FINISHED EARTHWORKS CROSS SECTIONS SHEET 10 OF 11	A	B	B	B	C							
5941 ENG BE1 160	FINISHED EARTHWORKS CROSS SECTIONS SHEET 11 OF 11	A	B	B	B	C							
5941 ENG BE1 161	BULK EARTHWORKS ROAD TYPICAL SECTIONS	A	B	B	B	C							
5941 ENG BE1 162	BULK EARTHWORKS DETAILED SECTIONS SHEET 1 OF 2	-	A	A	A	B							
5941 ENG BE1 163	BULK EARTHWORKS DETAILED SECTIONS SHEET 1 OF 2	-	A	A	A	B							
5941 ENG BE1 400	CONTROL LINE LAYOUT PLAN SHEET 1 OF 2	A	B	B	C	D							
5941 ENG BE1 401	CONTROL LINE LAYOUT PLAN SHEET 2 OF 2	A	B	B	C	D							
5941 ENG BE1 402	ROAD CONTROL LINE SETOUT TABLES SHEET 1 OF 3	A	B	B	B	C							
5941 ENG BE1 403	ROAD CONTROL LINE SETOUT TABLES SHEET 2 OF 3	A	B	B	B	C							
5941 ENG BE1 404	ROAD CONTROL LINE SETOUT TABLES SHEET 3 OF 3	A	B	B	B	C							
5941 ENG BE1 405	SWALE DRAIN CONTROL LINE SETOUT TABLES	A	B	B	B	C							
5941 ENG BE1 410	HOMESTEAD DRIVE LONGITUDINAL SECTION SHEET 1 OF 3	A	B	B	B	C							
5941 ENG BE1 411	HOMESTEAD DRIVE LONGITUDINAL SECTION SHEET 2 OF 3	A	B	B	B	C							
5941 ENG BE1 412	HOMESTEAD DRIVE LONGITUDINAL SECTION SHEET 3 OF 3	A	B	B	B	C							
5941 ENG BE1 413	EASTRIDGE STREET LONGITUDINAL SECTION SHEET 1 OF 2	A	B	B	B	C							
5941 ENG BE1 414	EASTRIDGE STREET LONGITUDINAL SECTION SHEET 2 OF 2	A	B	B	B	C							
5941 ENG BE1 415	FAIRWAY STREET LONGITUDINAL SECTION SHEET 1 OF 2	A	B	B	B	C							
5941 ENG BE1 416	FAIRWAY STREET LONGITUDINAL SECTION SHEET 2 OF 2	A	B	B	B	C							
5941 ENG BE1 417	EMERI STREET EXT. LONGITUDINAL SECTION	A	B	B	B	C							
5941 ENG BE1 418	SWALE DRAIN A LONGITUDINAL SECTION SHEET 1 OF 2	A	B	B	B	C							
5941 ENG BE1 419	SWALE DRAIN A LONGITUDINAL SECTION SHEET 2 OF 2	A	B	B	B	C							
5941 ENG BE1 420	SWALE DRAIN B LONGITUDINAL SECTION	A	B	B	B	C							
5941 ENG BE1 421	BOULDER RETAINING WALL CONTROL LINE LAYOUT PLAN	A	B	B	B	C							
5941 ENG BE1 422	BOULDER RETAINING WALL TYPICAL DETAILS	A	B	B	B	C							
5941 ENG BE1 423	BOULDER RETAINING WALL LONGITUDINAL	A	B	B	B	C							
5941 ENG BE1 424	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 3 OF 6	A	B	B	B	B							
5941 ENG BE1 425	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 4 OF 6	A	B	B	B	B							
5941 ENG BE1 426	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 5 OF 6	A	B	B	B	B							
5941 ENG BE1 427	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 6 OF 6	A	B	B	B	B							
5941 ENG BE1 428	BOULDER RETAINING WALL SETOUT TABLES SHEET 1 OF 2	A	B	B	B	B							
5941 ENG BE1 429	BOULDER RETAINING WALL SETOUT TABLES SHEET 2 OF 2	A	B	B	B	B							
5941 ENG BE1 430	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11	A	B	B	B	C							
5941 ENG BE1 431	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11	A	B	B	B	C							

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5941 ENG BE1 432	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11	A	B	B	B	C							
5941 ENG BE1 433	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11	A	B	B	B	C							
5941 ENG BE1 434	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 11	A	B	B	B	C							
5941 ENG BE1 435	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11	A	B	B	B	C							
5941 ENG BE1 436	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11	A	B	B	B	C							
5941 ENG BE1 437	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11	A	B	B	B	C							
5941 ENG BE1 438	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11	A	B	B	B	C							
5941 ENG BE1 439	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11	A	B	B	B	C							
5941 ENG BE1 440	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11	A	B	B	B	C							
5941 ENG BE1 441	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 6	A	B	B	B	C							
5941 ENG BE1 442	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 6	A	B	B	B	C							
5941 ENG BE1 443	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 6	A	B	B	B	C							
5941 ENG BE1 444	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 6	A	B	B	B	C							
5941 ENG BE1 445	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 6	A	B	B	B	C							
5941 ENG BE1 446	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 6	A	B	B	B	C							
5941 ENG BE1 447	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 5	A	B	B	B	C							
5941 ENG BE1 448	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 5	A	B	B	B	C							
5941 ENG BE1 449	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 5	A	B	B	B	C							
5941 ENG BE1 450	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 5	A	B	B	B	C							
5941 ENG BE1 451	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 5	A	B	B	B	C							
5941 ENG BE1 452	EMER! STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 2	A	B	B	B	C							
5941 ENG BE1 453	EMER! STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2	A	B	B	B	C							
5941 ENG BE1 454	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11	A	B	B	B	C							
5941 ENG BE1 455	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11	A	B	B	B	C							
5941 ENG BE1 456	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11	A	B	B	B	C							
5941 ENG BE1 457	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11	A	B	B	B	C							
5941 ENG BE1 458	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 11	A	B	B	B	C							
5941 ENG BE1 459	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11	A	B	B	B	C							
5941 ENG BE1 460	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11	A	B	B	B	C							
5941 ENG BE1 461	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11	A	B	B	B	C							
5941 ENG BE1 462	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11	A	B	B	B	C							
5941 ENG BE1 463	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11	A	B	B	B	C							
5941 ENG BE1 464	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11	A	B	B	B	C							
5941 ENG BE1 465	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 3	A	B	B	B	C							
5941 ENG BE1 466	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 3	A	B	B	B	C							
5941 ENG BE1 467	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3	A	B	B	B	C							

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5941 ENG BE1 470	PRE DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT	A	B	B	B	C						
5941 ENG BE1 471	POST DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT	A	B	C	D	C						
5941 ENG BE1 570	OPERATIONAL PHASE BIORETENTION BASIN SHEET 1 OF 2	A	B	C	C	C						
5941 ENG BE1 571	OPERATIONAL PHASE BIORETENTION BASIN SHEET 2 OF 2	A	B	B	B	C						

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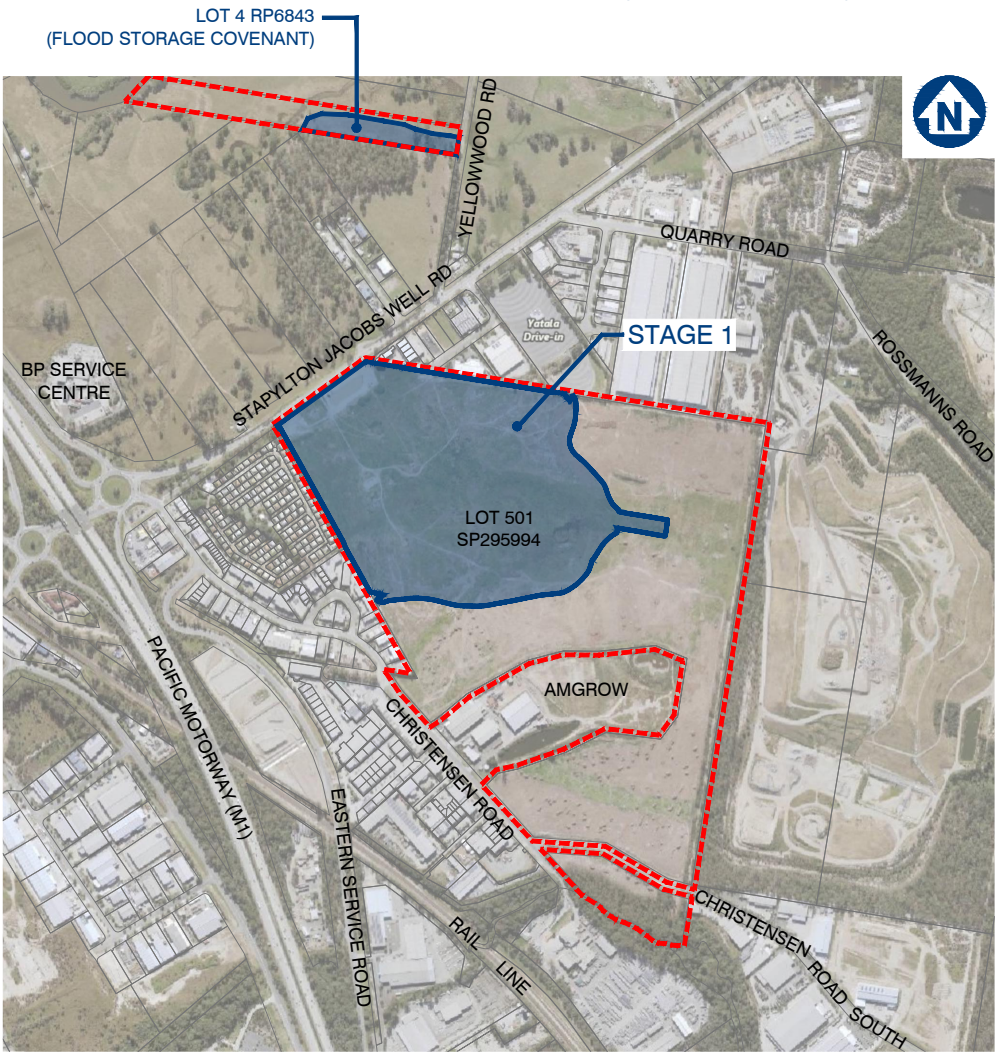
Project Manager: mitchell@gassman.com.au

Sent by: mitchell@gassman.com.au

OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL VANTAGE YATALA - STAGE 1

DRAWING INDEX		
DRAWING No.	REV No.	DRAWING TITLE
594I ENG BEI 001	E	DRAWING INDEX AND LOCALITY PLAN
594I ENG BEI 002	C	GENERAL NOTES SHEET 1 OF 2
594I ENG BEI 003	C	GENERAL NOTES SHEET 2 OF 2
594I ENG BEI 004	C	LEGEND
594I ENG BEI 005	C	KEY PLAN LAYOUT
594I ENG BEI 010	C	EXISTING SURFACE AND FEATURE PLAN
594I ENG BEI 020	D	SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 6
594I ENG BEI 021	C	SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 6
594I ENG BEI 022	D	SEDIMENT AND EROSION CONTROL PLAN SHEET 3 OF 6
594I ENG BEI 023	C	SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 6
594I ENG BEI 024	C	SEDIMENT AND EROSION CONTROL PLAN SHEET 5 OF 6
594I ENG BEI 025	C	SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 6
594I ENG BEI 026	D	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT
594I ENG BEI 027	D	CONSTRUCTION PHASE SEDIMENT BASIN 1 SECTIONS
594I ENG BEI 028	C	CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT
594I ENG BEI 029	C	CONSTRUCTION PHASE SEDIMENT BASIN 2 SECTIONS
594I ENG BEI 030	C	SEDIMENT AND EROSION TYPICAL DETAILS
594I ENG BEI 050	D	BULK EARTHWORK CUT & FILL LAYOUT PLAN SHEET 1 OF 6
594I ENG BEI 051	D	BULK EARTHWORK CUT & FILL LAYOUT PLAN SHEET 2 OF 6
594I ENG BEI 052	D	BULK EARTHWORK CUT & FILL LAYOUT PLAN SHEET 3 OF 6
594I ENG BEI 053	D	BULK EARTHWORK CUT & FILL LAYOUT PLAN SHEET 4 OF 6
594I ENG BEI 054	D	BULK EARTHWORK CUT & FILL LAYOUT PLAN SHEET 5 OF 6
594I ENG BEI 055	D	BULK EARTHWORK CUT & FILL LAYOUT PLAN SHEET 6 OF 6
594I ENG BEI 056	C	BULK EARTHWORKS LAYOUT PLAN AND DETAILS
594I ENG BEI 100	D	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 1 OF 6
594I ENG BEI 101	C	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 2 OF 6
594I ENG BEI 102	D	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 3 OF 6
594I ENG BEI 103	C	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 4 OF 6
594I ENG BEI 104	C	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 5 OF 6
594I ENG BEI 105	C	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 6 OF 6
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594I ENG BEI 151	D	FINISHED EARTHWORKS CROSS SECTIONS SHEET 2 OF 11
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594I ENG BEI 154	D	FINISHED EARTHWORKS CROSS SECTIONS SHEET 5 OF 11
594I ENG BEI 155	C	FINISHED EARTHWORKS CROSS SECTIONS SHEET 6 OF 11
594I ENG BEI 156	C	FINISHED EARTHWORKS CROSS SECTIONS SHEET 7 OF 11
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594I ENG BEI 158	C	FINISHED EARTHWORKS CROSS SECTIONS SHEET 9 OF 11
594I ENG BEI 159	C	FINISHED EARTHWORKS CROSS SECTIONS SHEET 10 OF 11
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594I ENG BEI 161	C	BULK EARTHWORKS ROAD TYPICAL SECTIONS
594I ENG BEI 162	B	BULK EARTHWORKS DETAILED SECTIONS SHEET 1 OF 2
594I ENG BEI 163	B	BULK EARTHWORKS DETAILED SECTIONS SHEET 1 OF 2
594I ENG BEI 400	D	CONTROL LINE LAYOUT PLAN SHEET 1 OF 2
594I ENG BEI 401	D	CONTROL LINE LAYOUT PLAN SHEET 2 OF 2
594I ENG BEI 402	C	ROAD CONTROL LINE SETOUT TABLES SHEET 1 OF 3
594I ENG BEI 403	C	ROAD CONTROL LINE SETOUT TABLES SHEET 2 OF 3
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594I ENG BEI 405	C	SWALE DRAIN CONTROL LINE SETOUT TABLES
594I ENG BEI 410	C	HOMESTEAD DRIVE LONGITUDINAL SECTION SHEET 1 OF 3
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594I ENG BEI 412	C	HOMESTEAD DRIVE LONGITUDINAL SECTION SHEET 3 OF 3
594I ENG BEI 413	C	EASTRIDGE STREET LONGITUDINAL SECTION SHEET 1 OF 2
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594I ENG BEI 416	C	FAIRWAY STREET LONGITUDINAL SECTION SHEET 2 OF 2
594I ENG BEI 417	C	EMERI STREET EXT. LONGITUDINAL SECTION
594I ENG BEI 418	C	SWALE DRAIN A LONGITUDINAL SECTION SHEET 1 OF 2
594I ENG BEI 419	C	SWALE DRAIN A LONGITUDINAL SECTION SHEET 2 OF 2
594I ENG BEI 420	C	SWALE DRAIN B LONGITUDINAL SECTION
594I ENG BEI 421	C	BOULDER RETAINING WALL CONTROL LINE LAYOUT PLAN
594I ENG BEI 422	C	BOULDER RETAINING WALL TYPICAL DETAILS
594I ENG BEI 423	C	BOULDER RETAINING WALL LONGITUDINAL SECTION
594I ENG BEI 424	B	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 3 OF 6 (OMITTED)
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594I ENG BEI 427	B	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 6 OF 6 (OMITTED)
594I ENG BEI 428	B	BOULDER RETAINING WALL SETOUT TABLES SHEET 1 OF 1 (OMITTED)
594I ENG BEI 430	C	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11
594I ENG BEI 431	C	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11
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594I ENG BEI 440	C	HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11
594I ENG BEI 441	C	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 6
594I ENG BEI 442	C	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 6
594I ENG BEI 443	C	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 6
594I ENG BEI 444	C	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 6
594I ENG BEI 445	C	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 6
594I ENG BEI 446	C	EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 6
594I ENG BEI 447	C	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 5
594I ENG BEI 448	C	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 5
594I ENG BEI 449	C	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 5
594I ENG BEI 450	C	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 5
594I ENG BEI 451	C	FAIRWAY STREET BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 5
594I ENG BEI 452	C	EMERI STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 2
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594I ENG BEI 454	C	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11
594I ENG BEI 455	C	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11
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594I ENG BEI 459	C	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11
594I ENG BEI 460	C	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11
594I ENG BEI 461	C	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11
594I ENG BEI 462	C	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11
594I ENG BEI 463	C	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11
594I ENG BEI 464	C	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11
594I ENG BEI 465	C	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 3
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594I ENG BEI 467	C	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3
594I ENG BEI 470	C	PRE DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT
594I ENG BEI 471	E	POST DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT
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594I ENG BEI 571	B	OPERATIONAL PHASE BIORETENTION BASIN SHEET 2 OF 2



LOCALITY PLAN
SCALE 1: 8000 (A1)

CLIENT



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

SITE ADDRESS

LOT 501 on SP295994
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON QLD 4207 and

LOT 4 on RP6843
31 YELLOWWOOD ROAD
STAPYLTON QLD 4207

GENERAL NOTES

1. **CONTRACT DOCUMENTATION**
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATION AND CoGC STANDARD DRAWINGS AND SPECIFICATIONS.
2. **DATUM**
LEVELS SHOWN ON THE PLANS ARE A.H.D.
3. **SURVEY SETOUT**
THE SURVEY SET OUT INFORMATION TO ALLOW THE CONTRACTOR TO ACCURATELY SET OUT THE WORKS HAS BEEN ESTABLISHED ON SITE BY THE PRINCIPAL’S SURVEYOR. THE CONTRACTOR IS NOT TO SCALE FROM THESE PLANS AS A MEANS OF OBTAINING SETOUT INFORMATION.
4. **EXISTING SURVEY CONTROL STATIONS**
IT IS THE CONTRACTOR’S RESPONSIBILITY TO ENSURE THAT EXISTING SURVEY CONTROL STATIONS ARE NOT DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES. SHOULD THE CONTRACTOR IDENTIFY ANY CONFLICT BETWEEN EXISTING SURVEY CONTROL AND THE REQUIRED CONSTRUCTION ACTIVITIES THE SUPERINTENDENT IS TO BE NOTIFIED IMMEDIATELY.
5. **EXISTING SERVICES**
THE LOCATION OF EXISTING SERVICES WHERE SHOWN ON THE PLANS ARE INDICATIVE ONLY. IT IS THE CONTRACTOR’S RESPONSIBILITY TO CONTACT THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE EXISTING SERVICES.
6. **SITE ACCESS**
THE CONTRACTOR SHALL ONLY GAIN ACCESS TO THE SITE VIA ACCESS LOCATIONS APPROVED BY THE SUPERINTENDENT. FREEDOM OF ACCESS TO OTHER WORK AREAS ON THE SITE SHALL BE MAINTAINED AT ALL TIMES.
7. **PROVISION FOR TRAFFIC**
PROVISION FOR TRAFFIC ON LOCAL ROADS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND CoGC COUNCIL REQUIREMENTS.
8. **WORK EXTENT**
THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORKS AREAS UNDER THE CONTRACT. AT NO TIME IS THE CONTRACTOR TO ENTER ADJOINING PROPERTIES OR CONTRACT AREAS WITHOUT THE WRITTEN AUTHORISATION OF THE SUPERINTENDENT.
9. **TESTING**
ALL TESTING IS TO BE CARRIED OUT BY AN APPROVED N.A.T.A TESTING AUTHORITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND REQUIREMENTS OF CoGC COUNCIL.
10. **"AS CONSTRUCTED" SURVEY**
"AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE PRINCIPAL’S SURVEYOR AS WORK PROCEEDS. THE CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE TO THE PRINCIPAL’S SURVEYOR ON WHEN THIS IS REQUIRED TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF CoGC COUNCIL.
11. **MAINTENANCE OF SITE CONDITION**
AT THE COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND CoGC.

EARTHWORKS

1. **PRECEDENCE**
EARTHWORKS SPECIFICATION PREPARED BY PROJECT GEOTECHNICAL ENGINEER TO TAKE PRECEDENCE OVER STANDARD COUNCIL EARTHWORKS NOTES.
2. **TOPSOIL STRIPPING**
TOPSOIL SHALL BE STRIPPED ACROSS THE ENTIRE LIMIT OF THE EARTHWORKS CUT AND FILL AREAS AND SHALL BE STOCKPILED IN A LOCATION APPROVED BY THE SUPERINTENDENT. THE EXISTING STRATA IS TO BE TREATED IN ACCORDANCE WITH THE SPECIFICATION PRIOR TO PLACING ANY FILL.
3. **EARTHWORKS LEVELS**
EARTHWORKS LEVELS SHOWN ON THE DRAWING ARE TO FINISHED SURFACE LEVELS AND INCLUDE 100mm OF TOPSOIL. THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCY BEFORE COMMENCEMENT OF CONSTRUCTION.
4. **UNDESIRABLE MATERIAL**
THE ENTIRE SITE/WORK AREAS SHALL BE CLEARED OF ALL UNDESIRABLE MATTER. THIS SHALL INCLUDE DEAD TIMBER, GRASS, OLD FOUNDATIONS, CONCRETE, MASONRY REMAINS, GARBAGE, DEBRIS AND ALL OTHER OBSTRUCTIONS TO THE WORKS UNLESS NOTED OTHERWISE. HOLES LEFT BY THE REMOVAL OF ANY OF THE ABOVE SHALL BE FILLED WITH APPROVED COMPACTED MATERIAL WITH PROPERTIES AT LEAST SIMILAR TO INSITU SOILS.
5. **COMPACTION STANDARD**
FILL MATERIAL SHALL BE COMPACTED TO THE FOLLOWING STANDARD, WHERE DRY DENSITY RATIO IS DETERMINED IN ACCORDANCE WITH AS 1289 USING STANDARD COMPACTION METHODS.

a. 100% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 80% IN COHESIONLESS MATERIAL FOR ROAD SUBGRADE.

b. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 65% IN COHESIONLESS MATERIAL FOR ALL AREAS OTHER THAN THE ROADWAY AND BUILDING PADS.

c. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 70% IN COHESIONLESS MATERIAL FOR BUILDING PADS.
5. **PAVEMENT DEPTHS**
EARTHWORKS VOLUMES DO NOT INCLUDE DESIGN PAVEMENT DEPTHS AS INDICATED ON THE TYPICAL BULK EARTHWORKS ROAD SECTION.
6. **TESTING**
ALL EARTHWORKS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 3798 UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A TESTING AUTHORITY.
7. **ROCK**
THE CONTRACTOR IS TO INCLUDE ROCK EXCAVATION AS PART OF THEIR EARTHWORKS RATES UNLESS SCHEDULED OTHERWISE WITHIN THE CONTRACT DOCUMENT.

8. **DAMS AND PONDS**
WHERE POSSIBLE, WATER FROM DAMS AND PONDS SHALL BE MAINTAINED AND UTILISED FOR CONSTRUCTION PURPOSES AND DUST SUPPRESSION. DAMS AND PONDS NOT TO BE RETAINED SHALL BE DEWATERED, CLEARED OF ANY FOREIGN MATTER AND ORGANIC MATERIAL WITH THIS MATERIAL TO BE REMOVED OFF SITE.
9. **RETAINING STRUCTURES**
THE DESIGN AND STRUCTURAL CERTIFICATION OF RETAINING STRUCTURES SHALL BE UNDERTAKEN BY THE CONTRACTOR’S STRUCTURAL ENGINEER (RPEQ) IN CONSULTATION WITH THE PROJECT’S CIVIL ENGINEER AND LANDSCAPE CONSULTANT. THE CONTRACTOR IS RESPONSIBLE FOR THE SUBMISSION AND APPROVAL COORDINATION OF THE ASSOCIATED DRAWINGS AND CERTIFICATION TO GCCC. A COPY OF THIS SUBMISSION IS TO BE PROVIDED TO THE SUPERINTENDENT.
10. **TOPSOIL REPLACEMENT**
ALL BATTERS AND ALLOTMENT CUT & FILL AREAS SHALL BE TOP SOILED FROM ONSITE STOCKPILES. IF DIRECTED BY THE SUPERINTENDENT THE TOPSOIL SHALL BE SCREENED PRIOR TO PLACING. THE CONTRACTOR SHALL ALLOW IN THEIR RATE FOR SCREENING AND THE DISPOSAL OF REJECT MATERIAL TO TIP OFFSITE INCLUDING ALL FEES. THE CONTRACTOR MUST ENSURE THAT THE STRIPPING SHALL BE UNDERTAKEN IN SUCH A MANNER AS TO AVOID CONTAMINATION BY OVER CUTTING. IF TOPSOIL IS CONTAMINATED BY OVER CUTTING AND DETERMINED NOT SUITABLE FOR REUSE BY THE SUPERINTENDENT, THE CONTRACTOR SHALL BEAR THE COST OF REMOVAL FROM SITE OF ALL CONTAMINATED TOPSOIL AND THE COST TO SUPPLY AND IMPORT SUITABLE TOPSOIL FOR RE–SPREADING.
11. **GRASSING / SEEDING**
ALL CUT & FILL AREAS AND DISTURBED AREAS SHALL BE GRASSED OR SEEDDED TO THE SATISFACTION OF THE SUPERINTENDENT.
12. **STOCKPILES**
ALL MATERIAL/SPOIL ARISING FROM WORKS ON SITE SHALL BE COMPACTED TO AN APPROPRIATE STANDARD WITHIN THE FILL AREAS OF FUTURE STAGES AS NOMINATED BY THE SUPERINTENDENT. THE CONTRACTOR IS NOT TO CREATE STOCKPILES OF SURPLUS MATERIALS UNLESS WRITTEN AUTHORIZATION IS RECEIVED FROM THE SUPERINTENDENT.

SEDIMENT AND EROSION

1. THE OBJECTIVES OF THE EROSION AND SEDIMENT CONTROL PROGRAM ARE:

a. ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AT NON–EROSIVE FLOW VELOCITIES.

b. MINIMISE SOIL EROSION FROM WATER AND WIND

c. MINIMISE ADVERSE EFFECTS OF SEDIMENT RUNOFF.

d. MINIMISE OR PREVENT ENVIRONMENTAL HARM ASSOCIATED WITH DISCHARGE FROM THE CONSTRUCTED SITE.

e. ENSURE THAT THE VALUE AND USE OF RESIDENTIAL AND INDUSTRIAL PROPERTIES ADJACENT TO THE DEVELOPMENT ARE NOT DIMINISHED AS A RESULT OF THE MIGRATION OF SEDIMENT FROM THE DEVELOPMENT.
2. THE EROSION AND SEDIMENT CONTROL PROGRAM SHALL COMPLY WITH THE ENVIRONMENTAL BEST ENGINEERING GUIDELINES FOR QUEENSLAND CONSTRUCTION SITES. THE CURRENT INSTITUTION OF ENGINEERS AUSTRALIA AND LOCAL AUTHORITY GUIDELINES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTIONS INCLUDING THE MAINTENANCE PERIOD. NOTWITHSTANDING THE FINISHED EARTHWORK DESIGN SHOWN ON THE DRAWINGS THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT ADDITIONAL SEDIMENT CONTROL MEASURES AND DEVICES USING BEST PRACTICES AS NECESSARY TO MINIMISE THE QUANTITY LEAVING THE SITE DURING CONSTRUCTION AND UPON COMPLETION OF EARTHWORKS.
3. THE CONTRACTOR IS TO FOLLOW CONSTRUCTION PHASE AS OUTLINED IN THE CONSTRUCTION SEQUENCE/SILT MANAGEMENT PROGRAM. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED, CLEANED AND/OR REPLACED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 50%. ALL PERIMETER BANK/SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION AND GULLY INLETS. INLETS TO HAVE SILT PROTECTION IN ACCORDANCE WITH KERB INLET PROTECTION DETAIL AT LOCATIONS SHOWN OR AS INDICATED BY THE ENGINEER.
4. PRIOR TO THE COMMENCEMENT OF EARTHWORKS, THE CONTRACTOR IS TO CARRY OUT SOIL TESTING (IF REQUIRED BY SUPERINTENDENT) TO DETERMINE THE DISPERSIVE CHARACTERISTICS OF THE SOIL AND RESULTS TO BE GIVEN TO THE ENGINEERS SO THE FINALIZATION OF THE EROSION AND SEDIMENT CONTROL PLAN CAN BE COMPLETE.
5. TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN LOCATIONS AGREED WITH THE SUPERINTENDENT. CLEARING OF SITE AND STOCKPILE AREAS TO BE AS DIRECTED BY THE SUPERVISING ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST AT ALL TIMES INCLUDING WEEKENDS AND PUBLIC HOLIDAYS.
6. SUITABLE ACCESS SHALL BE PROVIDED TO ALLOW MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES (IT IS TO BE NOTED THAT CLEARING SHALL ONLY OCCUR IN AREAS WHERE THERE IS NO OTHER ALTERNATIVE TO GAIN ACCESS TO THE LOCATION OF THE SEDIMENT CONTROL DEVICES). APPROVAL FOR REMOVAL OF PROTECTED SIZE VEGETATION MUST BE OBTAINED PRIOR TO CLEARING.
7. ROCK BUNDS TO BE PLACED AROUND ALL HEADWALLS DURING CONSTRUCTION.
8. 0.8m TURF IS TO BE PLACED BEHIND ON ALL BATTERS WITHIN PRIVATE OPEN SPACE STEEPER THAN 1:4 UNLESS OTHERWISE NOTED. THE EXTENT OF GRASSING SHALL BE DETERMINED BY THE ENGINEER AND SHALL BE SEEDDED, AS SPECIFIED, WITHIN 7 DAYS OF FINAL TRIMMING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT GRASS STRIKE RATES ARE ACHIEVED AT ON AND OFF MAINTENANCE INSPECTION IN ACCORDANCE WITH COUNCIL REQUIREMENTS.
9. TURF IS TO BE PLACED FROM BACK OF KERB TO ROAD RESERVE BOUNDARY ON ALL ROADS AFTER EARTHWORKS ARE COMPLETE.
10. GEO–FABRIC LINING OF CHANNELS AND CHECK DAMS MAY BE REQUIRED SUBJECT TO THE SITE CONDITIONS.
11. FILLING AND OR MAINTENANCE OF EXISTING AND OR SEDIMENT BASINS MAY REQUIRE FLOCCULATION.
12. BATTERS WITHIN PUBLIC OPEN SPACE TO BE VEGETATED IN ACCORDANCE WITH THE APPROVED OPEN SPACE MANAGEMENT PLAN (OSMP).
13. IT IS THE CONTRACTOR’S RESPONSIBILITY TO CLEAN OUT GPT’S, SEDIMENT FOREBAYS AND ALL OTHER SEDIMENT CONTROL DEVICES DURING CONSTRUCTION AND PRIOR BOTH ON AND OFF MAINTENANCE INSPECTIONS WITH CoGC. THE CONTRACTOR SHALL ALLOW FOR THE COST OF THESE WORKS WITHIN THEIR SUBMITTED TENDER PRICE.

CONSTRUCTION SEQUENCE/SILT MANAGEMENT PROGRAM

1. **PRE START**

a. ERECT SITE SIGNAGE, CONSTRUCT ENTRY AND EXIT POINT AS INDICATED CONSTRUCT VEHICLE WASH–DOWN AREA AND ASSOCIATED SILT MANAGEMENT DEVICES.

b. CONSTRUCT SITE OFFICE AND STORAGE COMPOUND AREA

c. ERECT SILT FENCE AT LOW POINTS OF THE SITE AS DEMONSTRATED

d. ERECT TEMPORARY TREE PROTECTION FENCING FOR VEGETATION TO BE RETAINED IN ACCORDANCE WITH AN OPW (TREE CLEARING) APPROVAL OR IN ACCORDANCE WITH AS4970 PROTECTION OF TREES ON DEVELOPMENT SITE.

e. CONSTRUCT ROCK CHECK DAMS AND SILT FENCE DOWN STREAM OF BASIN.

f. CONSTRUCT BASIN TO FULL DEPTH.

g. CONSTRUCT BALANCE OF BASIN IN CONJUNCTION WITH CLEARING AND BULK EARTHWORKS OPERATIONS.

h. BASIN TO BE UTILISED AS A TEMPORARY SEDIMENT BASIN. DO NOT FILL IN FILTRATION MATERIAL UNTIL CONSTRUCTION OF DEVELOPMENT IS COMPLETE.
2. **CLEARING AND BULK EARTHWORKS**
THERE SHALL BE NO CLEARING OF PROTECTED SITE VEGETATION WITHOUT AN APPROVED TREE CLEARING PLAN WHICH SHALL BE IN ACCORDANCE WITH AS4970. SILT FENCE, SAND BAGS AND EARTH RILLS WITHIN ROADS TO BE ERECTED AS INDICATED OR REQUIRED DURING CLEARING & EARTHWORKS. SUPERINTENDENT TO CONFIRM THE EXTENT OF CLEARING PRIOR TO COMMENCEMENT OF WORKS.
3. **CONSTRUCTION OF SEWER/ROOFWATER / STORMWATER /SERVICES**
EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE OF TRENCH AND TO PROTECT PIPE WORK AND DIRECT SURFACE MATERIAL AWAY FROM EXCAVATIONS. TOPSOIL AND GRASS SEED AREAS IN ALLOTMENTS IMMEDIATELY AFTER COMPLETING THE SEWER AND ROOFWATER DRAINAGE CONSTRUCTION. DEPRESS GROUND AROUND TEMPORARY FIELD INLETS TO CREATE SILT POND.
4. **CONSTRUCTION – SEDIMENT BASINS**
SEDIMENT BASIN TO BE CONSTRUCTED TO THE EARTHWORK PROFILES SHOWN. STORMWATER OUTLET PIPES TO BE TEMPORARY BLOCKED OFF UNTIL DECOMMISSIONING OF SEDIMENT BASIN (SUBSEQUENT TO CONSTRUCTION OF ALL STAGES). PLACE SPOIL FROM SEDIMENT BASIN INTO ALLOCATED AREAS AS ENGINEERED FILL IN ACCORDANCE WITH THE STAGING ORDER. SEDIMENT BASIN SHALL ONLY BE REMOVED AFTER APPROVAL BY SUPERINTENDENT AND COUNCIL.
5. **CONSTRUCTION – STOCKPILING**
TEMPORARY SILT FENCE TO BE ERECTED 5m FROM TOE OF BATTER ON LOW SIDE OF STOCKPILING. STOCKPILE SITE TO BE CLEARED OF ADJACENT PROPERTY BOUNDARIES SO AS NOT TO CAUSE NUISANCE TO ADJOINING PROPERTIES. NO STOCKPILES ARE TO BE LOCATED WITHIN THE DRIP ZONE OR STRUCTURAL ROOT ZONE OF ANY RETAINED VEGETATION.
6. **CONSTRUCTION – ROADWORKS**
SILT FENCES TO ALLOTMENTS TO BE ERECTED. KERB INLET PROTECTION TO BE PROVIDED TO ALL GULLIES.
7. **CONSTRUCTION – ALLOTMENTS**
TOPSOIL AND SEED ALLOTMENTS. SILT FENCES TO ALLOTMENTS TO BE RE–ERECTED. COVERS TO GULLY GRATES TO BE REMOVED IF THE SUPERINTENDENT INDICATE THE GRASS STRIKE IS SUFFICIENT (80% WITHIN 30 CALENDAR DAYS OF FINAL ALLOTMENT RIMMING).
8. **POST CONSTRUCTION – ALLOTMENTS**
TOPSOIL AND GRASS SEED ALL ALLOTMENTS. COVERS TO GULLY GRATES TO BE REMOVED IF THE SUPERINTENDENT INDICATES THE GRASS STRIKE IS SUFFICIENT (80% WITHIN 30 CALENDAR DAYS OF FINAL ALLOTMENT TRIMMING).
9. **POST CONSTRUCTION – BASIN**
BASIN TO CONTINUE ACTING AS SEDIMENT BASIN UNTIL COMPLETION OF ALL STAGES.
10. **POST CONSTRUCTION – ROAD RESERVES**
TOPSOIL AND TURFING IS TO BE PROVIDED BEHIND KERB.
11. **MAINTENANCE (PRE TO POST CONSTRUCTION)**
THE SILT FENCES ARE TO BE INSPECTED WEEKLY. ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY. SILT AFTER RAIN IS TO BE CLEANED FROM STREETS AND ALLOTMENTS IMMEDIATELY AND CORRECTIVE ACTION TAKEN TO AVOID A RE–OCCURRENCE OF THE FAILURE.
12. **BASIN CONSTRUCTION**
PRIOR TO COMMENCING CONSTRUCTION OF THE DETENTION BASIN THE DIVERSION OF SURFACE WATER FROM THE PROPOSED WORK AREAS, USING MEASURES SUCH AS OPEN DRAINS/SUMPS, ARE REQUIRED TO AID IN SITE DE–WATERING. BASIN TO CONTINUE ACTING AS SEDIMENT BASIN UNTIL 85% OF CATCHMENT CONSTRUCTION IS COMPLETE. THE CLAY FILLING FOR THE BASIN WALLS SHALL BE PLACED IN HORIZONTAL LAYERS OF 200mm THICKNESS AND COMPACTED TO DENSITY RATIO WITHIN THE RANGE 98%–102% STANDARD COMPACTION (AS 1289.5.1.1). PLACEMENT MOISTURE CONTENT SHOULD BE WITHIN THE RANGE OMC –1% TO OMC –2% (WHERE OMC = OPTIMUM MOISTURE CONTENT FOR STANDARD COMPACTION). CONTRACTOR TO PROVIDE SAFETY FENCING TO BASIN DURING CONSTRUCTION AND APPROPRIATE SIGNAGE (PERMANENT OR TEMPORARY).



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Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:
Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
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Contour interval: -
PSM: -
RL: -

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DRAWING TITLE

GENERAL NOTES
SHEET 1 OF 2

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
ISSUE	Date	Description	DRN	CHK

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Scale at A1: NOT APPLICABLE	
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Signed:	
Date:	19-08-2020

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HES BASIN GENERAL NOTES

AUTO DOSER

1. PROVIDED AS EITHER 'FLOC BOX' OR 'IFOD–RAIN' DOSING UNIT OR APPROVED EQUIVALENT TO MANUFACTURERS SPECIFICATION.
2. DOSER AND SUPPLY OF FLOCCULANT TO BE PROVIDED ON LEVEL PAD 4mX4m WITHIN 10m OF DOSING POINT.
3. ALL–WEATHER ACCESS TRACK TO BE PROVIDED TO DOSER.
4. FLOCCULANT PROVIDED AS TURBICLEAR (ACH) OR APPROVED EQUIVALENT. IF ALTERNATIVE FLOCCULANT USED THEN THE BASIN SIZE IS TO BE INCREASED ACCORDING TO JAR SETTLEMENT TEST (REFER TO TABLE BELOW).

JAR SETTLEMENT AFTER 15 MINS	MULTIPLICATION FACTOR TO SETTLING ZONE
(mm)	VOLUME
50	x3.0
75	x2.0
100	x1.5
150	x1.0

BASIN CONSTRUCTION

MATERIALS

5. EARTH FILL: CLEAN SOIL WITH EMERSION CLASS 2(1), 3, 4 OR 5 AND FREE OF ROOTS, WOODY VEGETATION, ROCKS AND OTHER UNSUITABLE MATERIAL. SOIL WITH EMERSION CLASS 4 AND 5 MAY NOT BE SUITABLE DEPENDING ON PARTICLE SIZE DISTRIBUTION AND DEGREE OF DISPERSION. CLASS 2 (1) SHOULD ONLY BE USED UPON RECOMMENDATION FROM GEOTECHNICAL SPECIALIST.
6. SPILLWAY ROCK: HARD, ANGULAR, DURABLE, WEATHER RESISTANT AND EVENLY GRADED ROCK WITH 50% BY WEIGHT LARGER THAN THE SPECIFIED NOMINAL (D50) ROCK SIZE. LARGE ROCK SHOULD DOMINATE, WITH SUFFICIENT SMALL ROCK TO FILL THE VOIDS BETWEEN LARGER ROCK. THE DIAMETER OF THE LARGEST ROCK SHOULD BE NO LARGER THAN 1.5 TIMES THE NOMINAL ROCK SIZE. THE SPECIFIC GRAVITY SHOULD BE AT LEAST 2.5.
7. GEOTEXTILE FABRIC: HEAVY DUTY, NEEDLE–PUNCHED, NON–WOVEN CLOTH, MINIMUM 'BIDIM' A24 OR EQUIVALENT.

CONSTRUCTION

8. NOTWITHSTANDING ANY DESCRIPTION CONTAINED WITH APPROVED PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING THEMSELVES AS TO THE NATURE AND EXTENT OF THE SPECIFIED WORKS AND THE PHYSICAL AND LEGAL CONDITIONS UNDER WHICH THE WORKS WILL BE CARRIED OUT. THIS SHALL INCLUDE MEANS OF ACCESS, EXTENT OF CLEARING, NATURE OF THE MATERIALS TO BE EXCAVATED, TYPE AND SIZE OF MECHANICAL PLANT REQUIRED, LOCATION AND SUITABILITY OF WATER SUPPLY FOR CONSTRUCTION AND TESTING PURPOSES, AND ANY OTHER LIKELY MATTERS AFFECTING THE CONSTRUCTION OF THE WORKS.
9. REFER TO APPROVED PLANS FOR LOCATION, DIMENSIONS, AND CONSTRUCTION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON–SITE OFFICER FOR ASSISTANCE.
10. BEFORE STARTING ANY CLEARING OR CONSTRUCTION, ENSURE ALL THE NECESSARY MATERIALS AND COMPONENTS ARE ON THE SITE TO AVOID DELAYS IN COMPLETING THE SEDIMENT BASIN ONCE WORKS BEGIN.
11. INSTALL REQUIRED SHORT TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE PROPOSED EARTHWORKS TO CONTROL SEDIMENT RUNOFF DURING CONSTRUCTION OF THE BASIN.
12. THE AREA TO BE COVERED BY THE EMBANKMENT, BORROW PITS AND INCIDENTAL WORKS, TOGETHER WITH AN AREA EXTENDING BEYOND THE LIMITS OF EACH FOR A DISTANCE NOT EXCEEDING FIVE (5) METRES ALL AROUND MUST BE CLEARED OF ALL TREES, SCRUB, STUMPS, ROOTS, DEAD TIMBER AND RUBBISH AND DISPOSED OF IN A SUITABLE MANNER. DELAY CLEARING THE MAIN BASIN AREA UNTIL THE EMBANKMENT IS COMPLETE.
13. ENSURE ALL HOLES MADE BY GRUBBING WITHIN THE EMBANKMENT FOOTPRINT ARE FILLED WITH SOUND MATERIAL, ADEQUATELY COMPACTED, AND FINISHED FLUSH WITH THE NATURAL SURFACE.

CUT–OFF TRENCH

14. BEFORE CONSTRUCTION OF THE CUT–OFF TRENCH OR ANY ANCILLARY WORKS WITHIN THE EMBANKMENT FOOTPRINT, ALL GRASS GROWTH AND TOPSOIL MUST BE REMOVED FROM THE AREA TO BE OCCUPIED BY THE EMBANKMENT AND MUST BE DEPOSITED CLEAR OF THIS AREA AND RESERVED FOR TOPDRESSING THE COMPLETED EMBANKMENT.

15. EXCAVATE A CUT–OFF TRENCH ALONG THE CENTRE LINE OF THE EARTH FILL EMBANKMENT. CUT THE TRENCH TO STABLE SOIL MATERIAL, BUT IN NO CASE MAKE IT LESS THAN 600mm DEEP. THE CUT–OFF TRENCH MUST EXTEND INTO BOTH ABUTMENTS TO AT LEAST THE ELEVATION OF THE OUTLET SPILLWAY CREST. MAKE THE MINIMUM BOTTOM WIDTH WIDE ENOUGH TO PERMIT OPERATION OF THE EXCAVATION AND COMPACTION EQUIPMENT, BUT IN NO CASE LESS THAN 600mm. MAKE THE SIDE SLOPES OF THE TRENCH NO STEEPER THAN 1: 2 (H: V).
16. ENSURE ALL WATER, LOOSE SOIL, AND ROCK ARE REMOVED FROM THE TRENCH BEFORE BACKFILLING COMMENCES. THE CUT–OFF TRENCH MUST BE BACKFILLED WITH SELECT EARTH–FILL OF THE TYPE SPECIFIED FOR THE EMBANKMENT, AND THIS SOIL MUST HAVE A MOISTURE CONTENT AND DEGREE OF COMPACTION THE SAME AS SPECIFIED FOR THE CORE ZONE.
17. MATERIAL EXCAVATED FROM THE CUT–OFF TRENCH MAY BE USED IN THE CONSTRUCTION OF THE EMBANKMENT PROVIDED IT IS SUITABLE AND IT IS PLACED IN THE CORRECT ZONE ACCORDING TO ITS CLASSIFICATION.

EMBANKMENT

18. SCARIFY AREAS ON WHICH FILL IS TO BE PLACED BEFORE PLACING THE FILL.
19. ENSURE ALL FILL MATERIAL USED TO FORM THE EMBANKMENT MEETS THE SPECIFICATIONS CERTIFIED BY A SOIL SCIENTIST OF GEOTECHNICAL SPECIALIST.
20. THE FILL MATERIAL MUST CONTAIN SUFFICIENT MOISTURE SO IT CAN BE FORMED BY HAND INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL, IT IS TOO WET FOR PROPER COMPACTION. PLACE FILL MATERIAL IN 150 TO 200mm CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL AREA AND THEN COMPACT BEFORE PLACEMENT OF FURTHER FILL.
21. UNLESS SPECIFIED ON THE APPROVED PLANS, COMPACT THE SOIL AT ABOUT 1% TO 2% WET OPTIMUM AND TO 95% MODIFIED OR 100% STANDARD COMPACTION.
22. WHERE BOTH DISPERSIVE AND NON–DISPERSIVE CLASSIFIED EARTH–FILL MATERIALS ARE AVAILABLE, NON–DISPERSIVE EARTH–FILL MUST BE USED IN THE CORE ZONE. THE REMAINING CLASSIFIED EARTH–FILL MATERIALS MUST ONLY BE USED AS DIRECTED BY THE SITE SUPERINTENDENT.
23. WHERE SPECIFIED, CONSTRUCT THE EMBANKMENT TO AN ELEVATION 10% HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLING; OTHERWISE FINISHED DIMENSIONS OF THE EMBANKMENT AFTER SPREADING OF TOPSOIL MUST CONFORM TO THE DRAWING WITH A TOLERANCE OF 75mm FROM SPECIFIED DIMENSIONS.
24. ENSURE DEBRIS AND OTHER UNSUITABLE BUILDING WASTE IS NOT PLACED WITHIN THE EARTH EMBANKMENT.
25. AFTER COMPLETION OF THE EMBANKMENT ALL LOOSE UNCOMPACTED EARTH–FILL MATERIAL ON THE UPSTREAM AND DOWNSTREAM BATTER MUST BE REMOVED PRIOR TO SPREADING TOPSOIL.
26. TOPSOIL AND RE–VEGETATE/STABILISE ALL EXPOSED EARTH AS DIRECTED WITHIN THE APPROVED PLANS.

ESTABLISHING THE SETTLING POND

27. THE AREA TO BE COVERED BY THE STORED WATER OUTSIDE OF THE LIMITS OF THE BORROW PITS MUST BE CLEARED OF RUBBISH. TREES MUST BE CUT DOWN STUMP HIGH AND REMOVED FROM THE IMMEDIATE VICINITY OF THE WORK.
28. ESTABLISH ALL REQUIRED INFLOW CHUTES AND INLET BAFFLES IF SPECIFIED TO ENABLE WATER TO DISCHARGE INTO THE BASIN IN A MANNER THAT WILL NOT CAUSE SOIL EROSION OR THE RE–SUSPENSION OF SETTLED SEDIMENT.
29. INSTALL A SEDIMENT STORAGE LEVEL MARKER POST WITH A CROSS MEMBER SET JUST BELOW THE TOP OF THE SEDIMENT STORAGE ZONE (AS SPECIFIED ON THE APPROVED PLANS). USE AT LEAST A 75mm WIDE POST FIRMLY SET INTO THE BASIN FLOOR.
30. IF SPECIFIED, INSTALL INTERNAL SETTLING POND BAFFLES. ENSURE THE CREST OF THESE BAFFLES IS SET LEVEL WITH, OR JUST BELOW, THE ELEVATION OF THE EMERGENCY SPILLWAY.
31. INSTALL ALL APPROPRIATE MEASURES TO MINIMISE SAFETY RISK TO ON–SITE PERSONNEL AND THE PUBLIC CAUSED BY THE PRESENCE OF THE SETTLING POND. AVOID STEEP, SMOOTH INTERNAL SLOPES. APPROPRIATELY FENCE THE SETTLING POND AND POST WARNING SIGNS IF UNSUPERVISED PUBLIC ACCESS IS LIKELY OR THERE IS CONSIDERED TO BE AN UNACCEPTABLE RISK TO THE PUBLIC.

SPILLWAY CONSTRUCTION

32. THE SPILLWAY MUST BE EXCAVATED AS SHOWN ON THE PLANS, AND THE EXCAVATED MATERIAL IF CLASSIFIED AS SUITABLE, MUST BE USED IN THE EMBANKMENT, AND IF NOT SUITABLE IT MUST BE DISPOSED OF INTO SPOIL HEAPS.
33. ENSURE EXCAVATED DIMENSIONS ALLOW ADEQUATE BOXING–OUT SUCH THAT THE SPECIFIED ELEVATIONS, GRADES, CHUTE WIDTH, AND ENTRANCE AND EXIT SLOPES FOR THE EMERGENCY SPILLWAY WILL BE ACHIEVED AFTER PLACEMENT OF THE ROCK OR OTHER SCOUR PROTECTION MEASURES AS SPECIFIED IN THE PLANS.
34. PLACE SPECIFIED SCOUR PROTECTION MEASURES ON THE EMERGENCY SPILLWAY. ENSURE THE FINISHED GRADE BLENDS WITH THE SURROUNDING AREA TO ALLOW A SMOOTH FLOW TRANSITION FROM SPILLWAY TO DOWNSTREAM CHANNEL.
35. IF A SYNTHETIC FILTER FABRIC UNDERLAY IS SPECIFIED, PLACE THE FABRIC DIRECTLY ON THE PREPARED FOUNDATION. IF MORE THAN 1 SHEET OF FILTER FABRIC IS REQUIRED, OVERLAP THE EDGES BY AT LEAST 300mm AND PLACE ANCHOR PINS AT MINIMUM 1m SPACING ALONG THE OVERLAP. BURY THE UPSTREAM END OF THE FILTER FABRIC A MINIMUM 300mm BELOW GROUND AND WHERE NECESSARY, BURY THE LOWER END OF THE FABRIC OR OVERLAP A MINIMUM 300mm OVER THE NEXT DOWNSTREAM SECTION AS REQUIRED. ENSURE THE FILTER FABRIC EXTENDS AT LEAST 1000mm UPSTREAM OF THE SPILLWAY CREST.
36. TAKE CARE NOT TO DAMAGE THE FABRIC DURING OR AFTER PLACEMENT. IF DAMAGE OCCURS, REMOVE THE ROCK AND REPAIR THE SHEET BY ADDING ANOTHER LAYER OF FABRIC WITH A MINIMUM OVERLAP OF 300mm AROUND THE DAMAGED AREA. IF EXTENSIVE DAMAGE IS SUSPECTED, REMOVE AND REPLACE THE ENTIRE SHEET.
37. WHERE LARGE ROCK IS USED, OR MACHINE PLACEMENT IS DIFFICULT, A MINIMUM 100mm LAYER OF FINE GRAVEL, AGGREGATE, OR SAND MAY BE NEEDED TO PROTECT THE FABRIC.
38. PLACEMENT OF ROCK SHOULD FOLLOW IMMEDIATELY AFTER PLACEMENT OF THE FILTER FABRIC. PLACE ROCK SO THAT IT FORMS A DENSE, WELL GRADED MASS OF ROCK WITH A MINIMUM OF VOIDS. THE DESIRED DISTRIBUTION OF ROCK THROUGHOUT THE MASS MAY BE OBTAINED BY SELECTIVE LOADING AT THE QUARRY AND CONTROLLED DUMPING DURING FINAL PLACEMENT.
39. THE FINISHED SLOPE SHOULD BE FREE OF POCKETS OF SMALL ROCK OR CLUSTERS OF LARGE ROCKS. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE PROPER DISTRIBUTION OF ROCK SIZES TO PRODUCE A RELATIVELY SMOOTH, UNIFORM SURFACE. THE FINISHED GRADE OF THE ROCK SHOULD BLEND WITH THE SURROUNDING AREA. NO OVER FALL OR PROTRUSION OF ROCK SHOULD BE APPARENT.
40. ENSURE THAT THE FINAL ARRANGEMENT OF THE SPILLWAY CREST WILL NOT PROMOTE EXCESSIVE FLOW THROUGH THE ROCK SUCH THAT THE WATER CAN BE RETAINED WITHIN THE SETTLING BASIN AT THE ELEVATION NO LESS THAN 50mm ABOVE OF BELOW THE NOMINATED SPILLWAY CREST ELEVATION.



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STAGE 1

Site Address:
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ROAD, STAPYLTON QLD 4207

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SHEET 2 OF 2

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B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

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Scale at A1: NOT APPLICABLE	
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Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 003 Rev. No: C

	OVERLAND FLOW PATH/SWALE
	CATCH DRAIN (NOT LINED)
	DIVERSION CHANNEL
	TABLE DRAIN
	STREAM INVERT
	CATCH DRAIN (CONCRETE LINED)
	SUBSOIL DRAINAGE
	SAWCUT
	SEDIMENT FENCE
	CHAINWIRE FENCE
	WOODEN FENCE
	BRIFEN WIRE SAFETY BARRIER
	GUARDRAIL (STANDARD)
	RETAINING WALL (PILED)
	RETAINING WALL (WITH FOOTINGS)
	RETAINING WALL
	ROCKBLOCK RETAINING WALL
	TOP OF BATTER / BERM
	NOISE WALL
	EDGE OF VEGETATION
	PROPERTY LINE
	PROPERTY LINE WITH FENCE
	PROPOSED KERB, FOOTPATH
	CONTROL LINE / CENTER OF ROAD
	RAILWAY (MAJOR)
	RAILWAY (MINOR)
	EXISTING PROPERTY LINE
	EXISTING PROPERTY LINE WITH FENCE
	EXISTING KERB, FOOTPATH
	EXISTING EDGE OF BITUMEN
	EXISTING RAILWAY (MAJOR)
	EXISTING RAILWAY (MINOR)
	LIMIT OF WORKS
	LIMIT OF SITE
	CATCHMENT BOUNDARY
	EXISTING CONTOURS
	DESIGN CONTOURS

RM	RM	RM		PROPOSED RISING MAIN
S	S	S	S	PROPOSED SEWER
				PROPOSED STORMWATER
SW	SW	SW	SW	PROPOSED ROOFWATER
SW	SW	SW	SW	PROPOSED ROOFWATER
SS	SS	SS	SS	PROPOSED SUBSOIL
W	W	W	W	PROPOSED WATER
W	W	W	W	PROPOSED RECYCLED WATER
OIL	OIL	OIL	OIL	PROPOSED OIL
F	F	F	F	PROPOSED FUEL
G	G	G	G	PROPOSED GAS
P	P	P	P	PROPOSED PIPELINE
HV	HV	HV	HV	PROPOSED HIGH VOLTAGE ELECTRICITY
E	E	E	E	PROPOSED UNDERGROUND ELECTRICITY
E	E	E	E	PROPOSED OVERHEAD ELECTRICITY
L	L	L	L	PROPOSED LIGHTING
T	T	T	T	PROPOSED TELSTRA
C	C	C	C	PROPOSED COMMUNICATIONS
GE	GE	GE	GE	PROPOSED GAS, ELECT
GT	GT	GT	GT	PROPOSED GAS, TELSTRA
ET	ET	ET	ET	PROPOSED ELECT, TELSTRA
GET	GET	GET	GET	PROPOSED GAS, ELECTRICITY, TELSTRA
RM	RM	RM		EXISTING RISING MAIN
S	S	S	S	EXISTING SEWER
				EXISTING STORMWATER
SW	SW	SW	SW	EXISTING ROOFWATER
SW	SW	SW	SW	EXISTING SUBSOIL
W	W	W	W	EXISTING WATER
W	W	W	W	EXISTING RECYCLED WATER
OIL	OIL	OIL	OIL	EXISTING OIL
F	F	F	F	EXISTING FUEL
G	G	G	G	EXISTING GAS
P	P	P	P	EXISTING PIPELINE
HV	HV	HV	HV	EXISTING HIGH VOLTAGE ELECTRICITY
E	E	E	E	EXISTING UNDERGROUND ELECTRICITY
E	E	E	E	EXISTING OVERHEAD ELECTRICITY
L	L	L	L	EXISTING LIGHTING
T	T	T	T	EXISTING TELSTRA
C	C	C	C	EXISTING COMMUNICATIONS
GE	GE	GE	GE	EXISTING GAS, ELECT
GT	GT	GT	GT	EXISTING GAS, TELSTRA
ET	ET	ET	ET	EXISTING ELECT, TELSTRA
GET	GET	GET	GET	EXISTING GAS, ELECTRICITY, TELSTRA

BK(A)	BARRIER KERB (A)
BK(B)	BARRIER KERB (B)
BK(G)	BARRIER KERB (G)
MK(D)	MOUNTABLE KERB (D)
SMK(C)	SEMI MOUNTABLE KERB (C)
ER(E)	EDGE RESTRAINT (E)
KER(F)	KERB EDGE RESTRAINT (F)
RK&C(H)	ROLL TOP KERB & CHANNEL (H)
BK&C(J)	BARRIER KERB & CHANNEL (J)
ERH	KERB EDGE RESTRAINT (HIGH)
ERL	KERB EDGE RESTRAINT (LOW)
CS(K/L)	CHANNEL SECTION (K/L)
PMB	PRECAST MOTOR BED
DD	DISH DRAIN
K&G	KERB AND GUTTER
K&T	KERB AND TOE
KO	KERB ONLY
MK	MOUNTABLE KERB
RK	ROLL KERB
□	EXISTING SIGN
●	PROPOSED SIGN
○ BIN	PROPOSED ROAD EDGE GUIDE POST
□ PB	EXISTING BIN
□ T	POST BOX
●	TELEPHONE BOX
● MP	TELSTRA PIT
● WM	TELSTRA MARKER POST
● V	WATER METER
● F.H.	WATER VALVE
○ TAP	FIRE HYDRANT
●	WATER TAP
●	WATER HYDRANT
●	WATER TEE
●	WATER REDUCER
●	WATER ENDCAP
●	WATER CONNECTION
---	WATER CROSSING
---	WATER DICL
●	SEWER MANHOLE
●	SEWER RODDING END
●	SEWER BEND
●	SEWER MAINTENANCE SHAFT
●	SEWER 'T' END
●	SEWER SLUICE VALVE
●	SEWER PIT
●	SEWER PUMP STATION
●	TEMPORARY SEWER PUMP STATION
●	SEWER / STORMWATER PIT NO/LINE
●	SETOUT POINT
●	OFFSET PIT WITH GRATE
●	IN LINE PIT WITH GRATE
●	JUNCTION PIT
●	LETTERBOX PIT
●	GRATED INLET PIT
●	MANHOLE
● MEDIUM	GULLY PIT (LIP INLINE) BARRIER KERB
● MEDIUM	GULLY PIT (LIP INLINE) BARRIER KERB
● MEDIUM	GULLY PIT (LIP INLINE) ROLL TOP KERB
● MEDIUM	GULLY PIT (LIP INLINE) ROLL TOP KERB
● MEDIUM	GULLY PIT (KERB INLINE) – GRADE
● MEDIUM	GULLY PIT (KERB INLINE) – SAG
●	INFILTRATION TRENCH
●	HEADWALL
●	GROSS POLLUTANT TRAP
●	STORMWATER CHAMBER

	BUND
	POWER POLE
	POWER POLE WITH LIGHT
	LIGHT POLE
	STAY POLE
	LIGHT POLE WITH EXTENSION
	ELECTRICAL INSPECTION BOX
	ELECTRICAL POLE
	ELECTRICAL TURRET
	TRAFFIC SIGNAL
	MAIN ROADS PIT
	TANGENT POINT
	KERB RETURN NO.
	PRAM RAMP
	GRAVEL ROCK CHECK DAM
	MESH & GRAVEL INLET FILTER
	STORMWATER INLET FILTER
	DIRECTION OF OVERLAND FLOW
	VEHICLE SHAKEDOWN
	GATE
	NOT IN SCOPE OF WORKS
	DEMOLITION
	PROPOSED CONCRETE FOOTPATH
	SCOUR PROTECTION
	TREES
	TADPOLE

Client:



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LEGEND

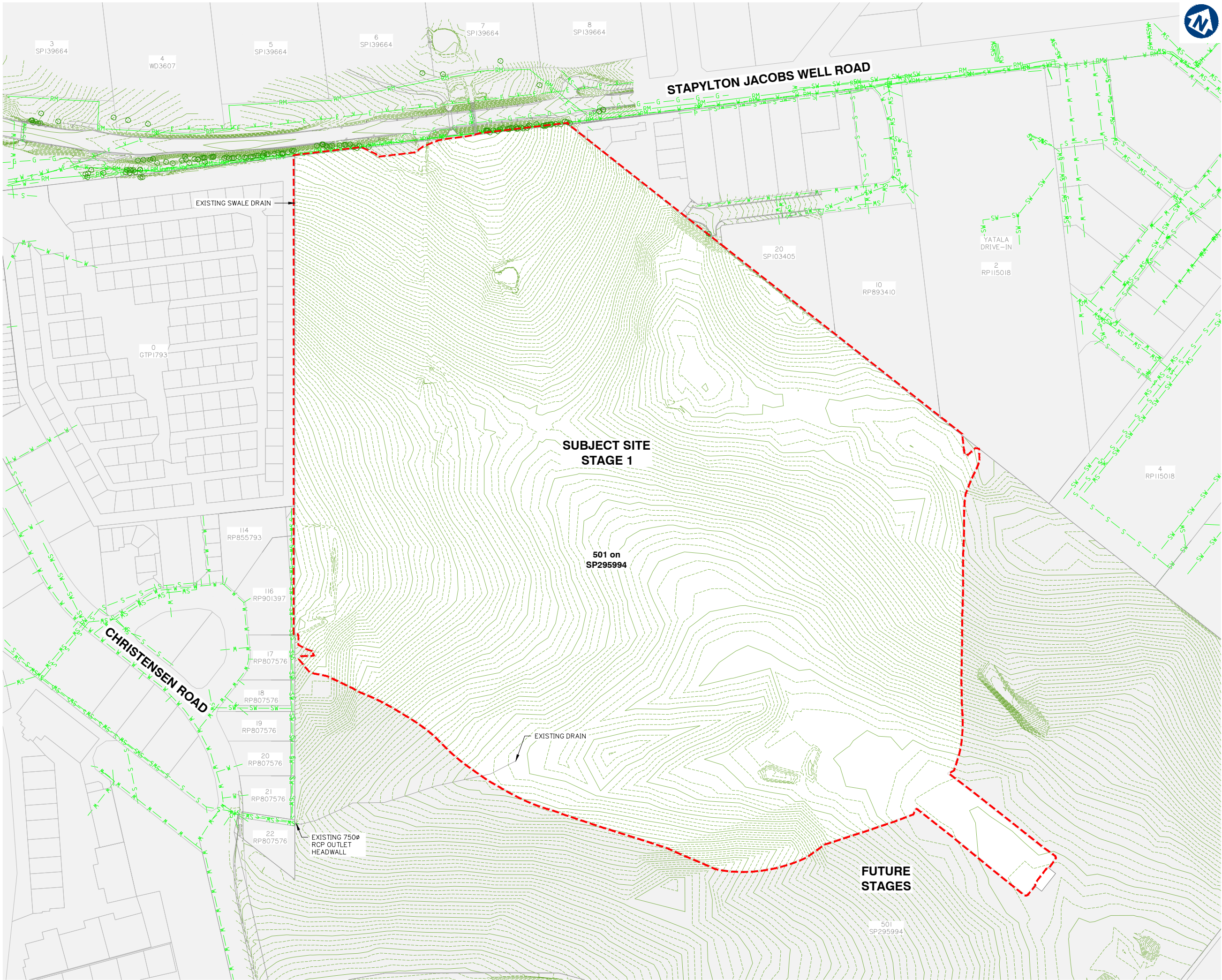
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5941 ENG BE1 004	C



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**EXISTING SURFACE AND
FEATURE PLAN**

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SCALE IN METRES



1:1500 (FULL SIZE A1)
1:3000 (HALF SIZE A3)

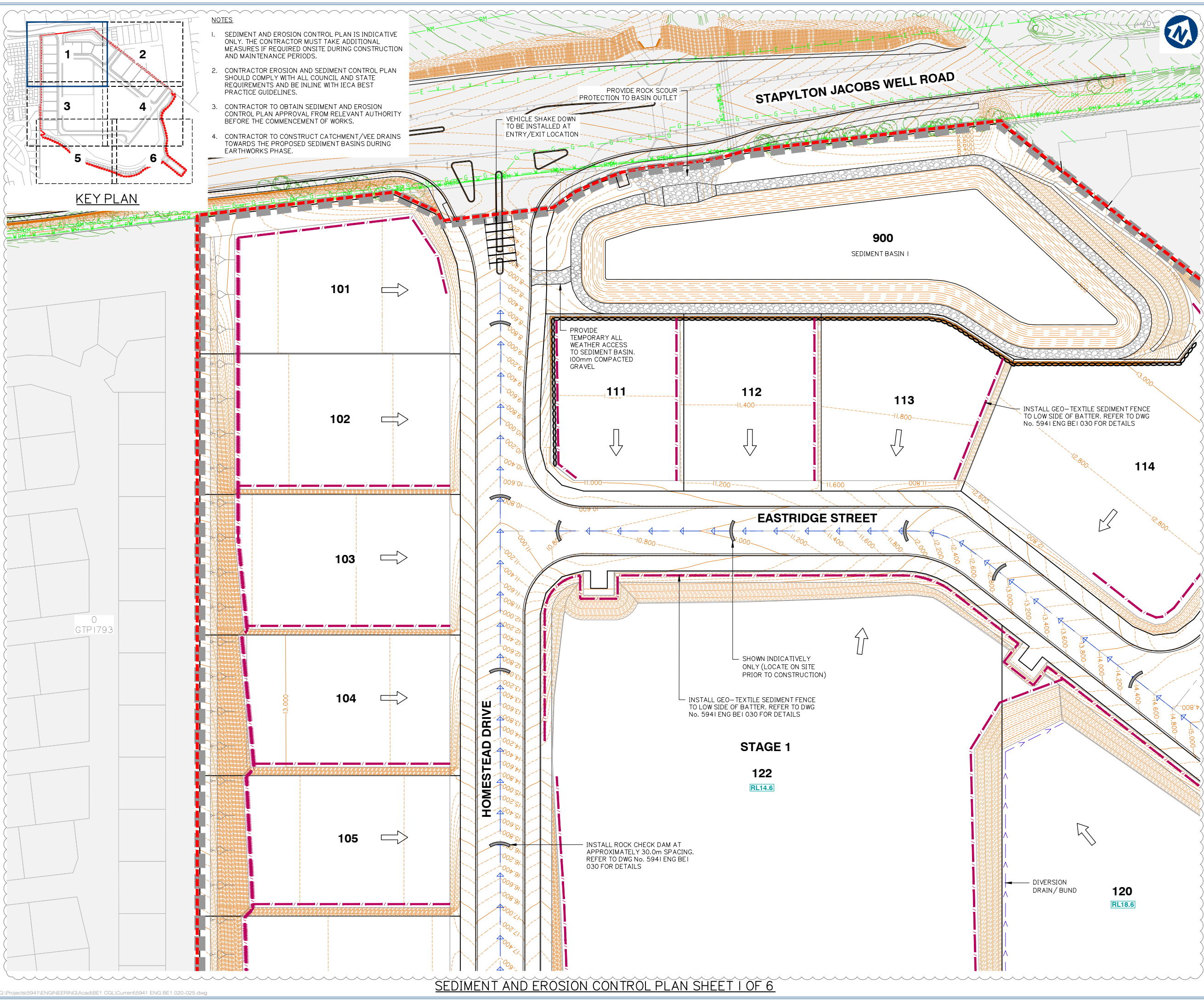
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

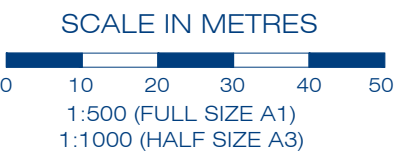
Drawing No:
5941 ENG BE1 010

Rev. No:
C

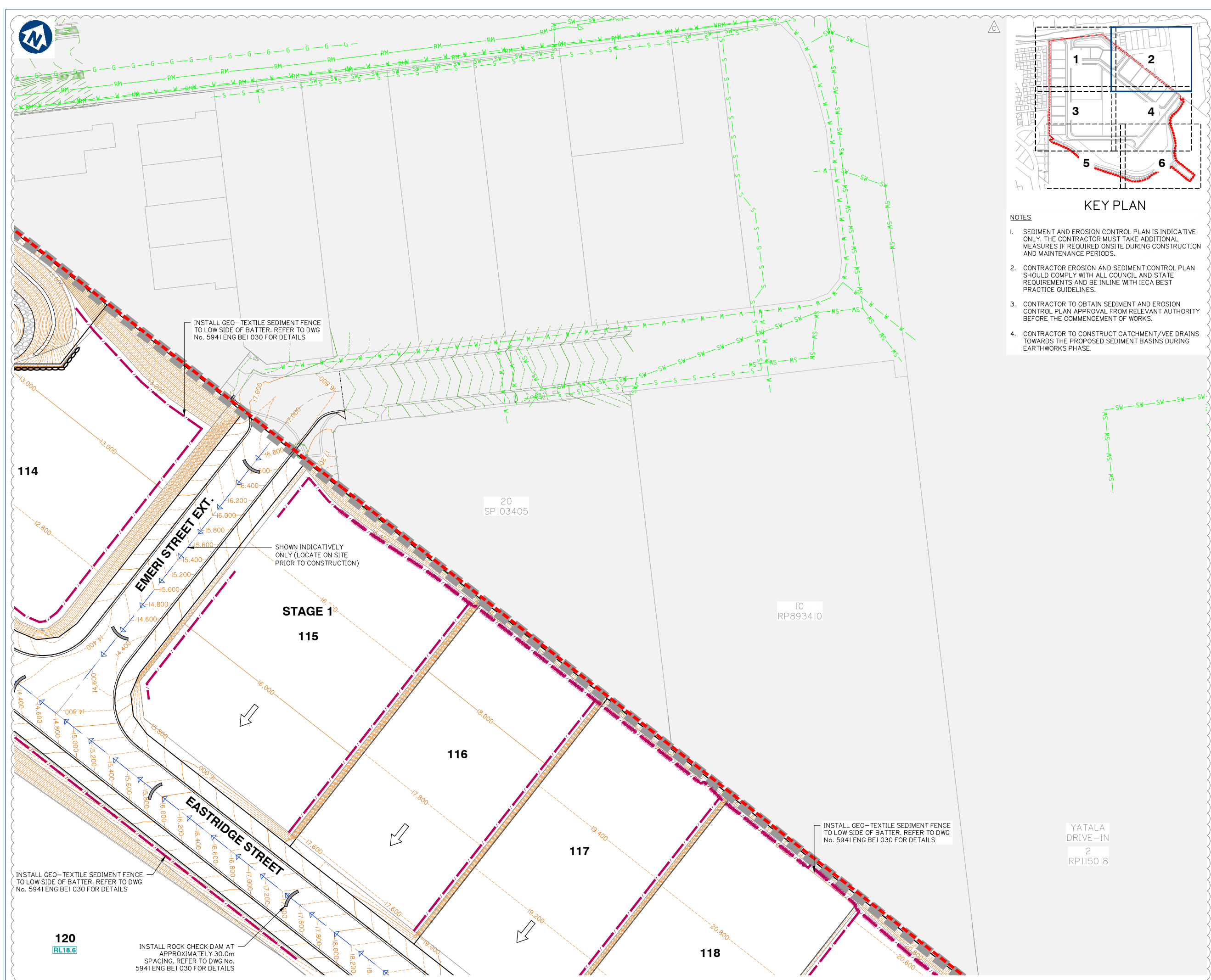
EXISTING SURFACE AND FEATURE PLAN



Issue	Date	Description	DRN	CHK
D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG



Scale at A1:	1:500
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020



NOTES

1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
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3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
4. CONTRACTOR TO CONSTRUCT CATCHMENT /VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.



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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA**
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI:	-

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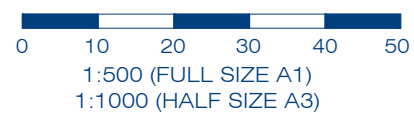
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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 2 OF 6

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

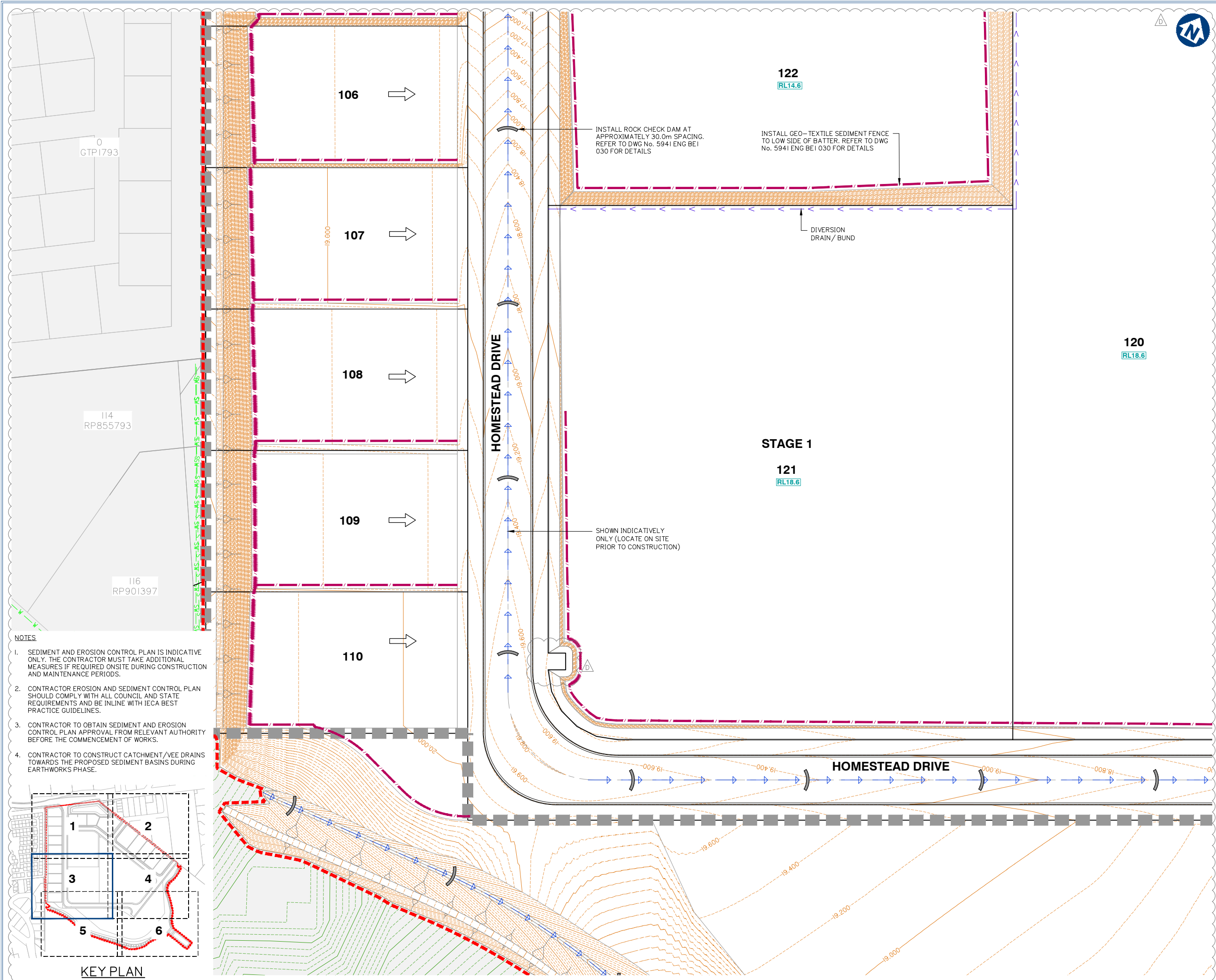
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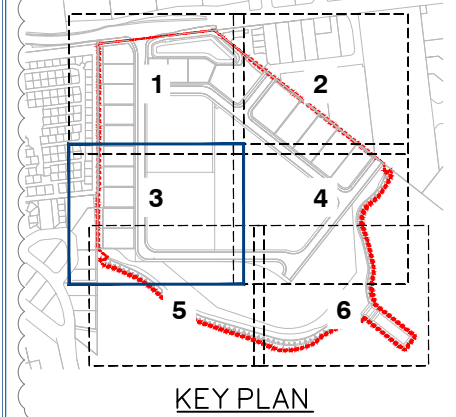
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. No:
5941 ENG BE1 021	C



- NOTES**
1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
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 3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
 4. CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.





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Client:



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Project: VANTAGE YATALA STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL ROAD & 31 YELLOWWOOD ROAD, STAPYLTON QLD 4207

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RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
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DRAWING TITLE
SEDIMENT AND EROSION CONTROL
PLAN SHEET 3 OF 6

D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

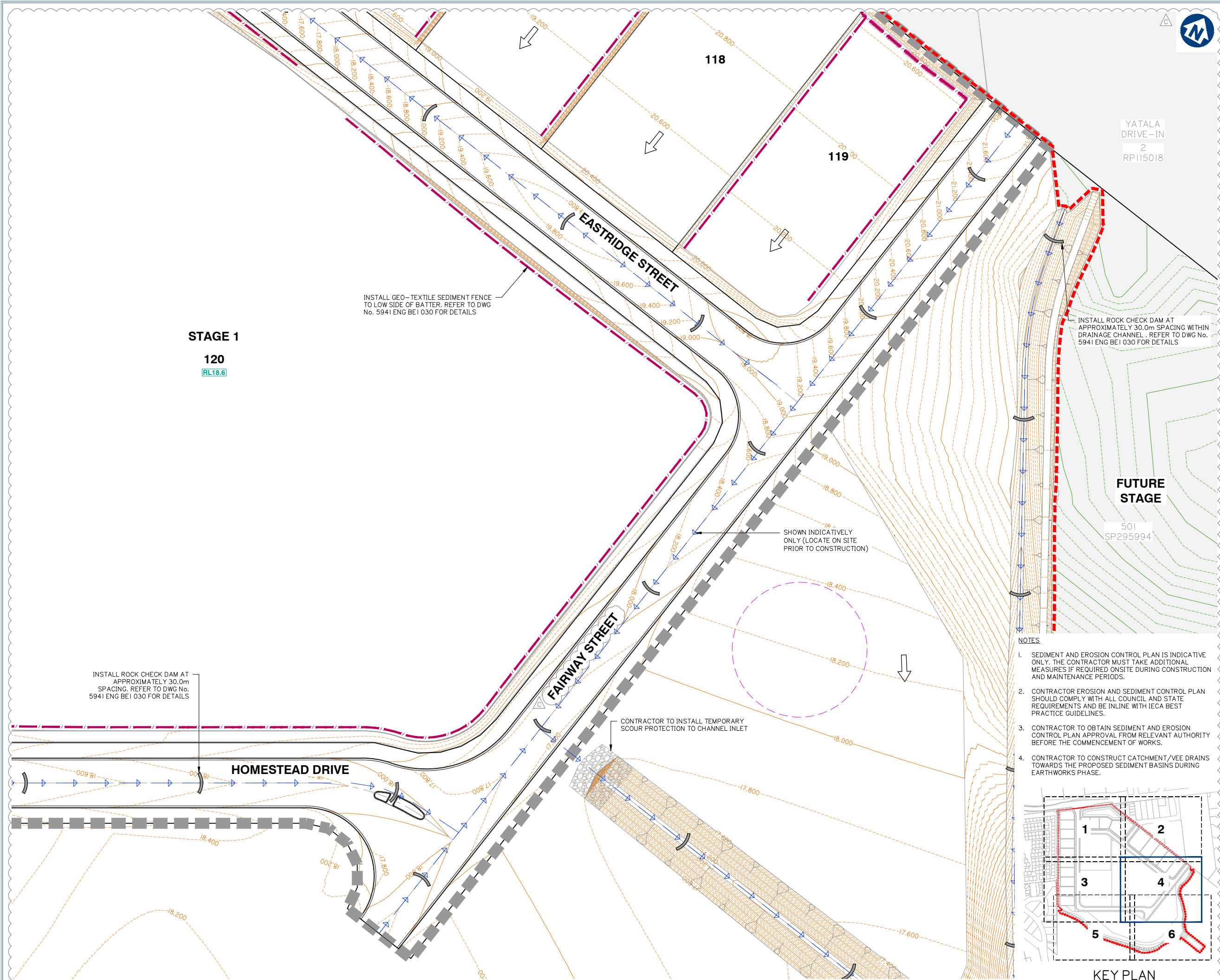
SCALE IN METRES



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1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	5941 ENG BE1 022	Rev. No:	D
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STAGE 1

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SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 6

Issue	Date	Description	IG	MG	JRG	CHK
C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG		
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-12-2019	ORIGINAL ISSUE	JRG	MG		

SCALE IN METRES

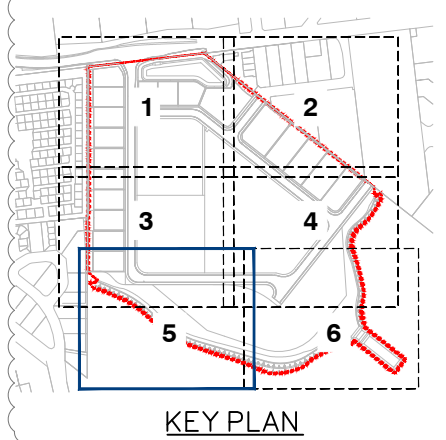
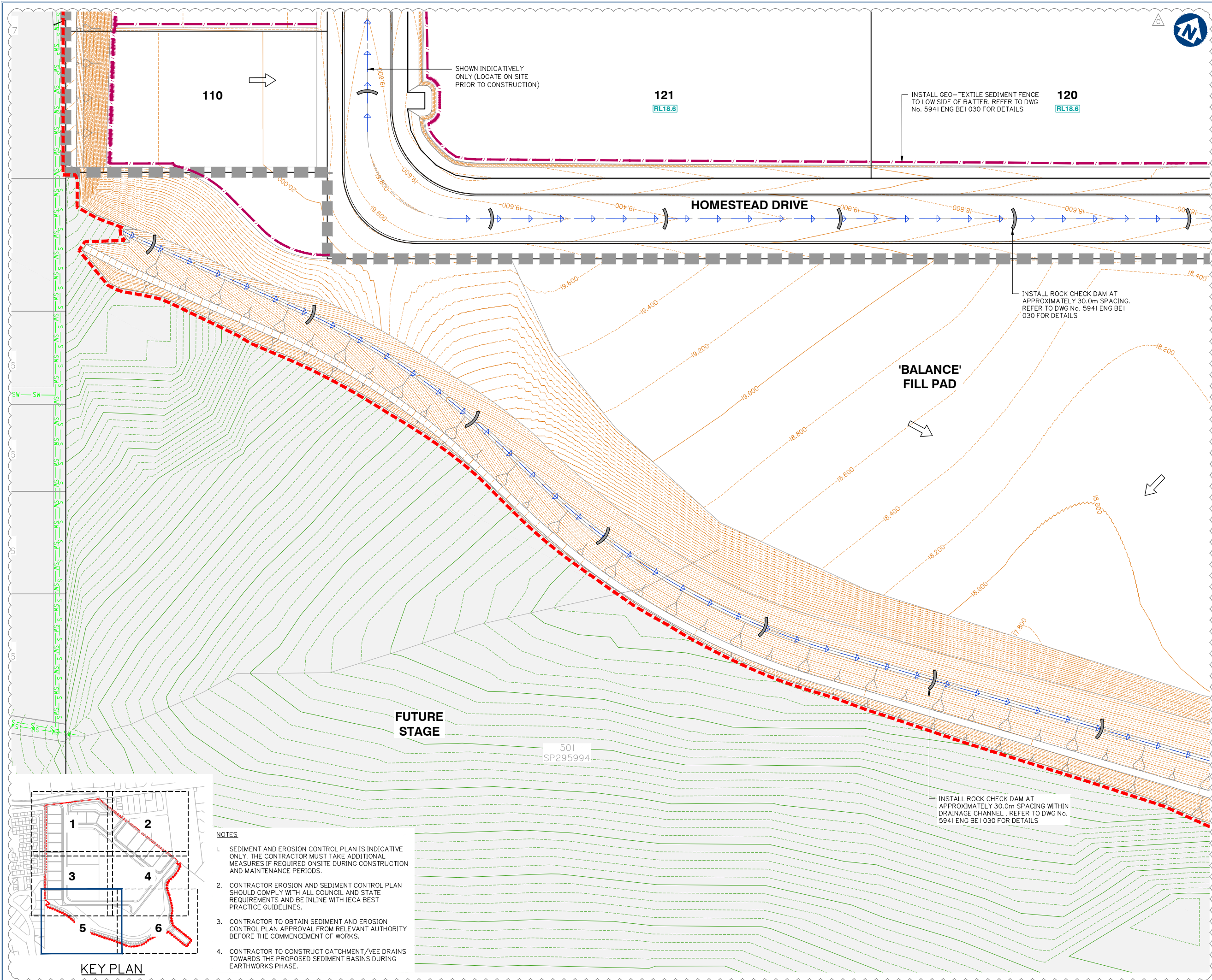


Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:
5941 ENG BE1 023

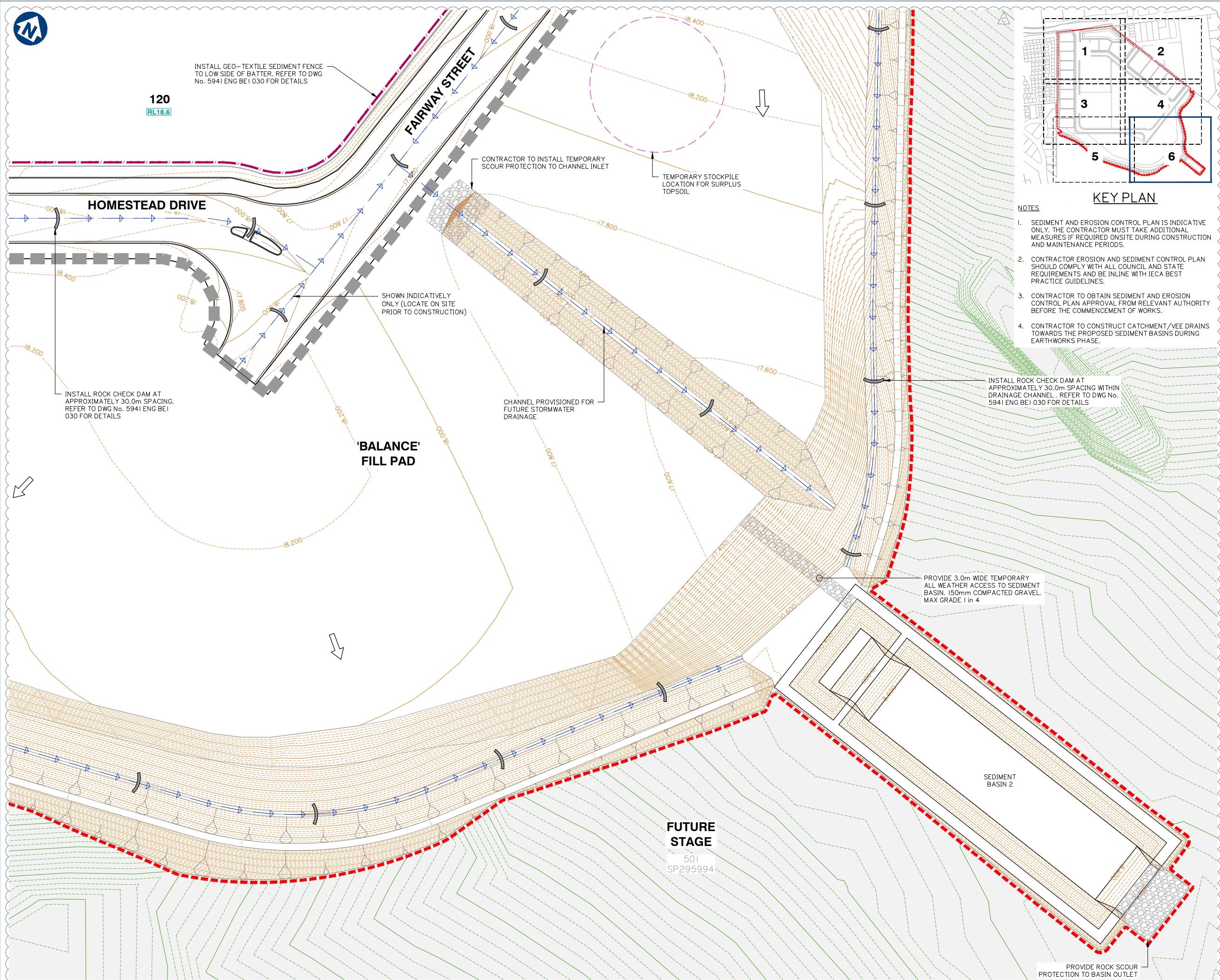
Rev. No:
C



- NOTES
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Issue	Date	Description	Author	Checked
C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG

Scale at A1:	1:500
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
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Date:	19-08-2020



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STAGE 1

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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 6 OF 6

G	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS		BA	M
B	20-09-2020	INFORMATION REQUEST RESPONSE		IG	M
A		ORIGINAL ISSUE		JRG	M
I	20-12-2019	Description		DRN	CH

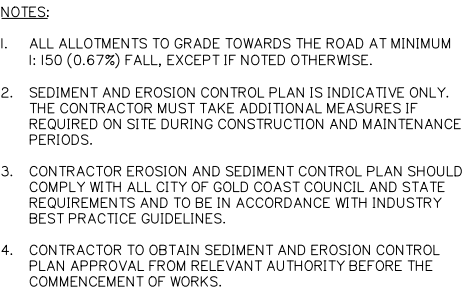
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. No:
5941 ENG BE1 025	C



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STAGE 1

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT

D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	M	C
C	12-03-2020	INFORMATION REQUEST RESPONSE	SK	M	C
B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	M	C
A	20-12-2019	ORIGINAL ISSUE	JRG	M	C
Issue	Date	Description	DRN	CH	

SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2020

Drawing No:	Rev. No:
5941 ENG BE1 026	D

CONSTRUCTION PHASE SEDIMENT BASIN LAYOUT

SCALE 1:500 (AI)

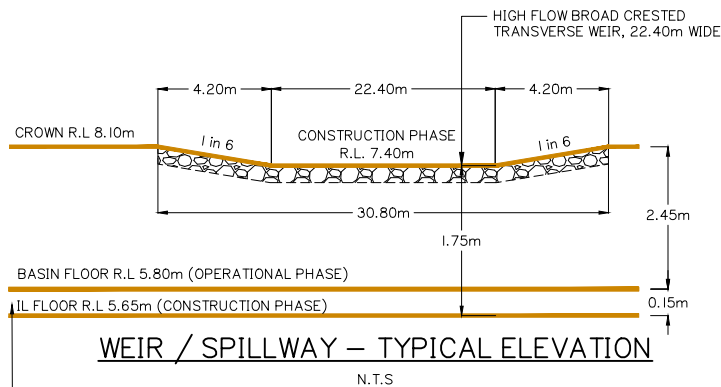
SEDIMENT BASIN DESIGN							
BASIN ID	SELECT DURATION OF CATCHMENT DISTURBANCE	IS DEWATERING OF TRENCHES REQUIRED?	EQUIPMENT LEASE OR PURCHASE?	SELECT CATCHMENT SCALE	DO ALL FLOWS ENTER BASIN AT SINGLE POINT?	BASIN TYPE	DOSING EQUIPMENT
No. 1	> 12 MONTHS	NO	LEASE	> 5Ha	NO	TYPE A	IFOD—RAIN

BASIN ID	CATCHMENT AREA	DESIGN EVENT	$I_{x,yr}$ 24 hr	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W: L	OPTIMUM LOW-FLOW DECAT RATE	SELECTED LOW-FLOW DECAT RATE (Q_A)	MIN SETTLING ZONE VOLUME (Min V_s)	MIN SETTLING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m³)	(m²)	
No. 1	15.071	I	4.53	20	11150	1.3	4.8	9	9	3704	1512	VOLUME

	SETTLING ZONE				FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
BASIN ID	ACTUAL SETTLING ZONE VOLUME (V _s)	ACTUAL SETTLING ZONE AREA (A _s)	SCOUR VELOCITY	DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH	
	(m ³)	(m ²)	(m/s)	(m)	(m ³)	(m ³)	(m)	(1:X)	(m)	(m)	(m)	
No. 1	3704	2827	0.009	0.22	370	1111	0.47	3	28.2	135.4	2.00	

		SPILLWAY									
BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C ₀	C	t _c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m ³ /s)	(m)	(m)	(m)	(m)
No. 1	> 12 MONTHS	1:50	0.85	0.98	20.00	160.00	6.55	0.25	30.80	7.40	8.10

BASIN ID	SETTLING ZONE (incl. sediment storage)				FOREBAY				HYDRAULIC CONTROLS			
	VOLUME (m³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	VOLUME (m³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	SPILLWAY CREST LENGTH (m)	SPILLWAY CREST (RL)	EMBANKMENT (RL)	LEVEL SPREADER CREST (RL)
No.1	5185.2	135.4	28.2	2.00	763.40	13.5	28.2	2.00	30.8	7.40	8.10	7.60



MAINTENANCE ACCESS TRACK – TYPICAL SECTION

N.T.S

IF FURTHER SEDIMENT STORAGE VOLUME IS REQUIRED, CONTRACTOR SHALL SEEK THE APPROVAL OF THE SUPERINTENDENT TO EXCAVATE TO SUBGRADE LEVEL OF THE FUTURE BIO-RETENTION BASIN FILTER LAYER (TO A LEVEL NOT LOWER THAN RL 4.80m)

CONSTRUCTION PHASE SEDIMENT BASIN LAYOUT

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA STAGE 1**

Site Address:
60 STAPYLTON JACOBS WELL ROAD & 31 YELLOWWOOD ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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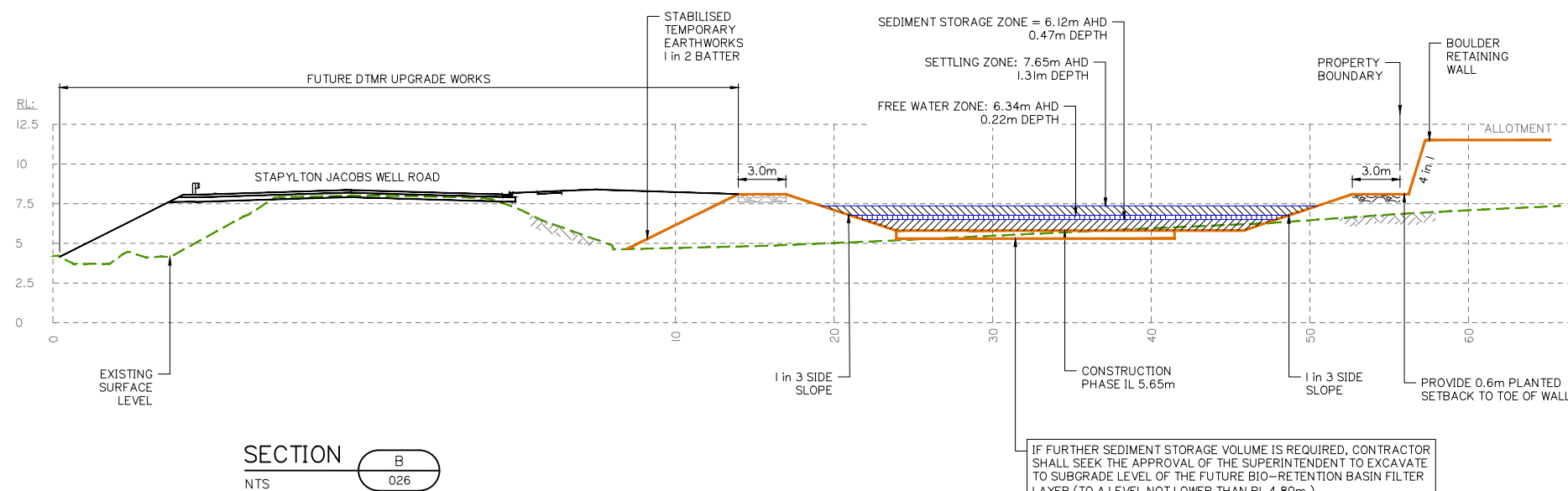
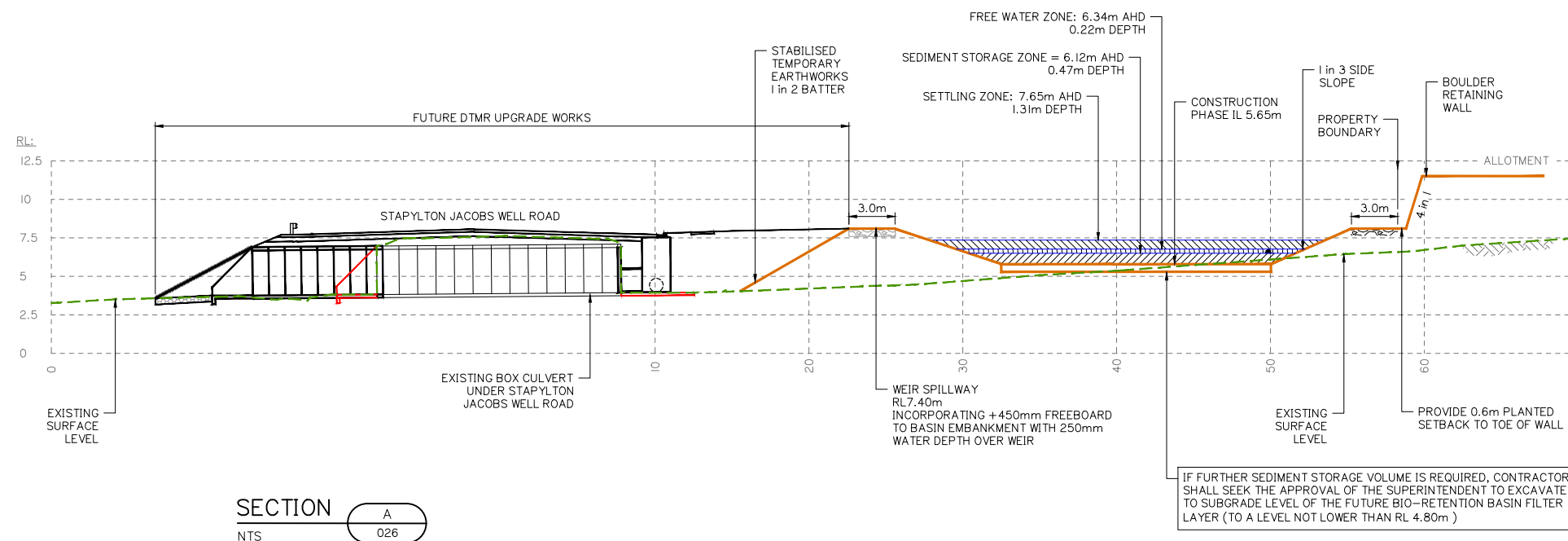
DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
SECTIONS

D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
C	12-03-2020	INFORMATION REQUEST RESPONSE	SK	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

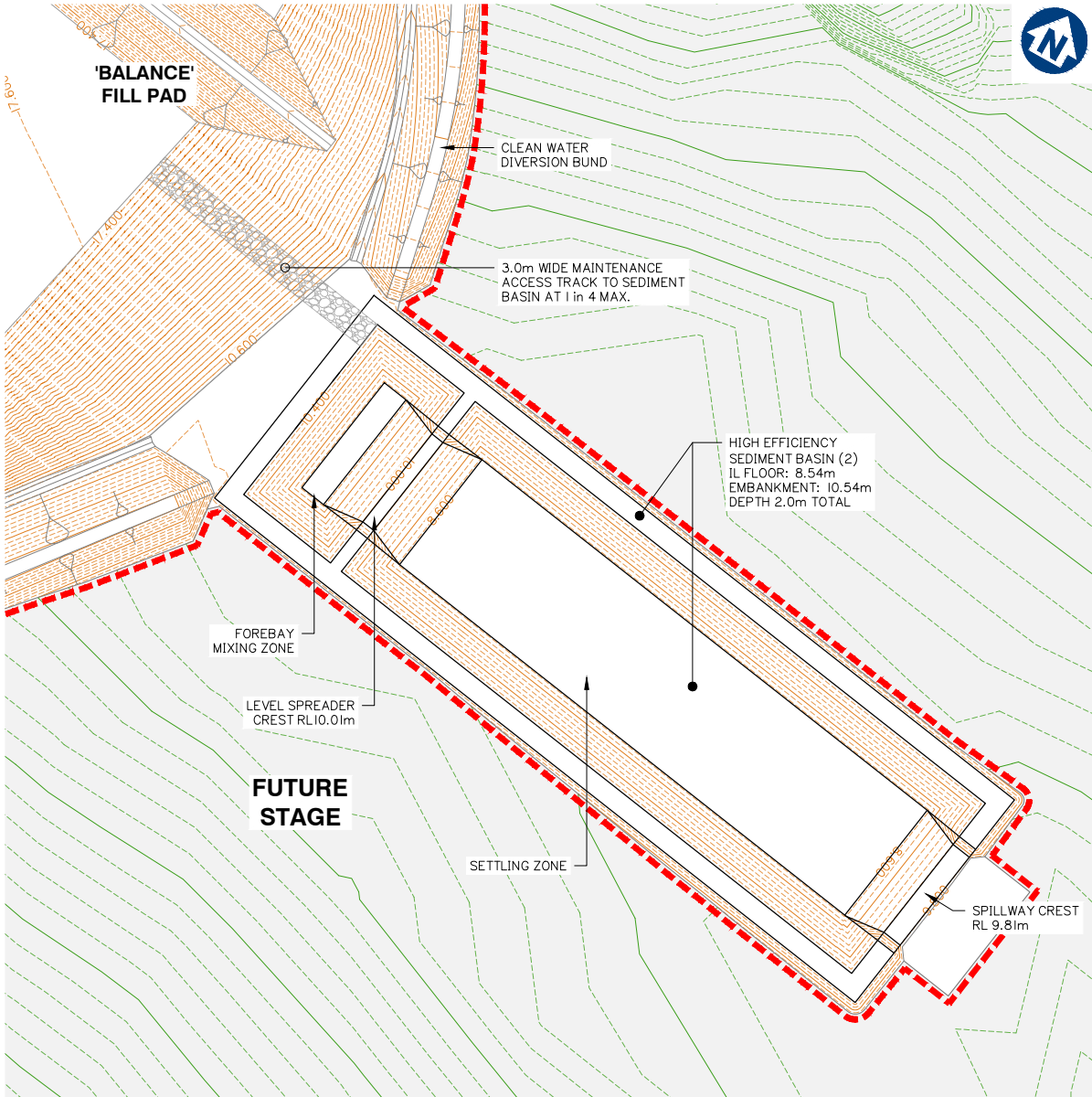
NOT TO SCALE

Scale at A1:	NTS
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2020

Drawing No: 5941 ENG BE1 027 Rev. No: D



CONSTRUCTION PHASE SEDIMENT BASIN 1 SECTIONS



CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT
SCALE 1: 500 (A1)

DESIGN SEDIMENT BASIN PARAMETERS												
BASIN ID	SETTLING ZONE (incl. sediment storage)				FOREBAY				HYDRAULIC CONTROLS			
	VOLUME (m³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	VOLUME (m³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	SPILLWAY CREST LENGTH (m)	SPILLWAY CREST (RL)	EMBANKMENT (RL)	LEVEL SPREADER CREST (RL)
No.2	4113.1	94.0	31.3	2.00	589.57	9.4	31.3	2.00	19.1	9.81	10.54	10.01

BASIN ID	SELECT DURATION OF CATCHMENT DISTURBANCE	IS DEWATERING OF TRENCHES REQUIRED?	EQUIPMENT LEASE OR PURCHASE?	SELECT CATCHMENT SCALE	DO ALL FLOWS ENTER BASIN AT SINGLE POINT?	BASIN TYPE	DOSING EQUIPMENT	DEWATERING EQUIPMENT
No. 2	> 12 MONTHS	NO	LEASE	> 5Ha	NO	TYPE A	IFOD-RAIN	2.00

BASIN ID	CATCHMENT AREA	DESIGN EVENT	I_x yr. 24 hr	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W: L	OPTIMUM LOW-FLOW DECAN T RATE	SELECTED LOW-FLOW DECAN T RATE (Q_d)	MIN SETT LING ZONE VOLUME (Min V_s)	MIN SETT LING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m³)	(m²)	
No. 2	11,955	1	4.53	20	11150	1.3	3	13	9	2938	1200	VOLUME

BASIN ID	SETTLING ZONE			FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	ACTUAL SETT LING ZONE VOLUME (V_s)	ACTUAL SETT LING ZONE AREA (A_s)	SCOUR VELOCITY	DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
	(m³)	(m²)	(m/s)	(m)	(m³)	(m³)	(m)	(1: X)	(m)	(m)	(m)
No. 2	2938	2260	0.007	0.22	294	881	0.48	3	31.3	94.0	2.00

	SPILLWAY										
BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C ₁₀	C	t _c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m ³ /s)	(m)	(m)	(m)	(m)
No. 2	> 12 MONTHS	1: 50	0.88	1.01	25.00	143.00	4.81	0.28	19.10	9.81	10.54

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA**
STAGE 1

Site Address:
**60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207**

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 2
LAYOUT

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue:	Date	Description	DRN	CHK

SCALE IN METRES

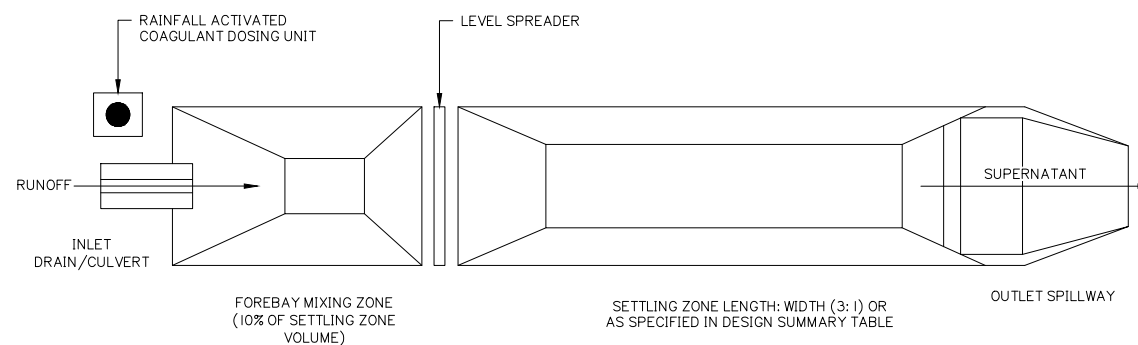
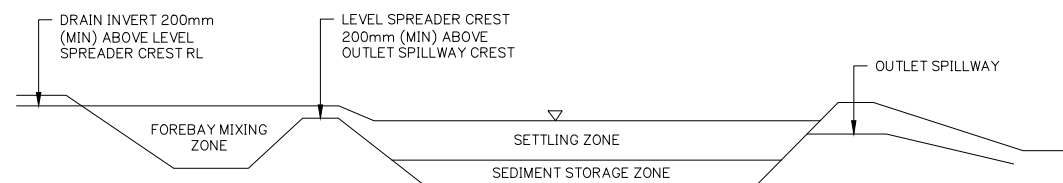
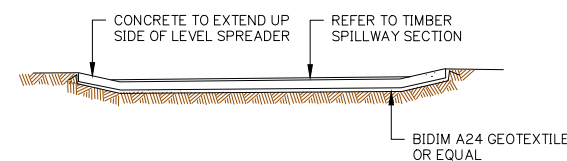
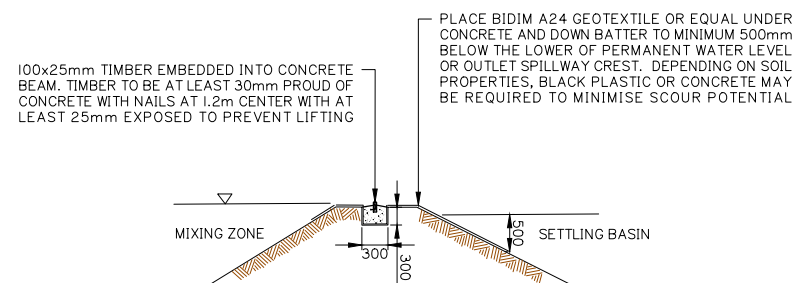
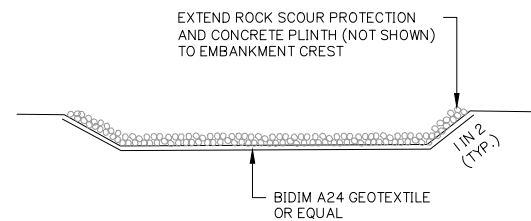
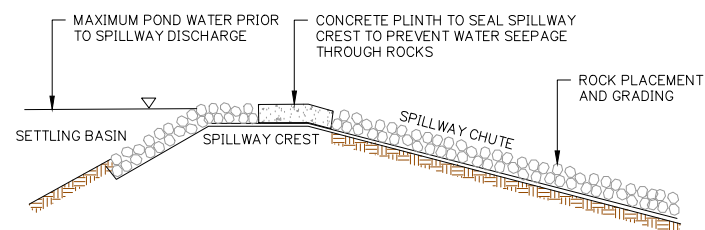


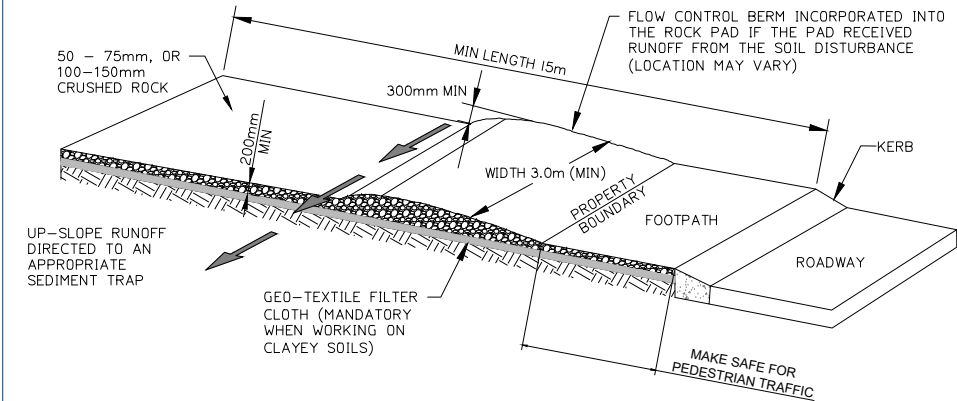
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

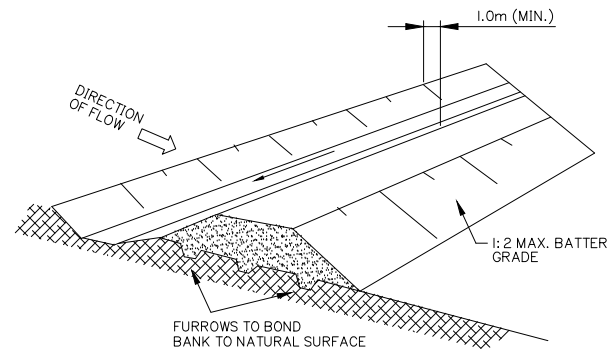
Drawing No: 5941 ENG BE1 028
Rev. No: C





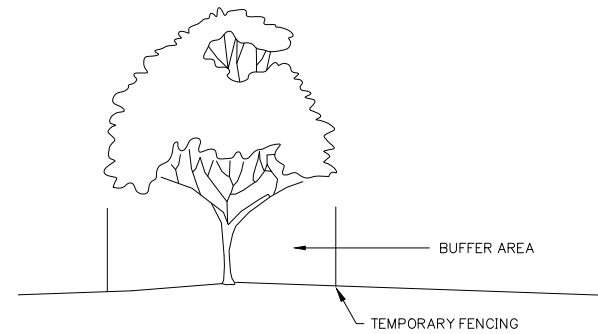
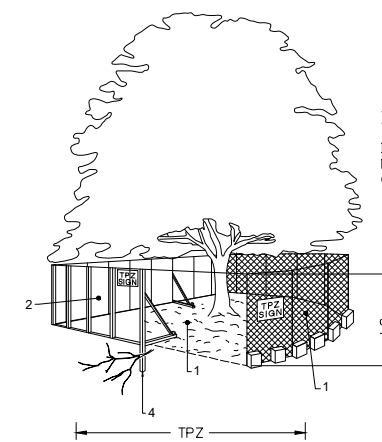
ENTRY/EXIT PAD FOR CONSTRUCTION SITE

NOT TO SCALE



DIVERSION DRAIN

NOT TO SCALE



FENCING AS PER AS: 4970

1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET.
2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THIS FENCING MATERIAL ALSO PREVENTS BUILDING MATERIALS OR SOIL ENTERING THE TPZ.
3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF THE PROJECT ARBORIST.) NO EXCAVATION, CONSTRUCTION ACTIVITY, GRADE CHANGES, SURFACE TREATMENT OR STORAGE OF MATERIALS OF ANY KIND IS PERMITTED WITHIN THE TPZ.
4. BRACING IS PERMITTED WITHIN THE TPZ. INSTALLATION OF SUPPORTS SHOULD AVOID DAMAGING ROOTS.
5. THE CONSTRUCTION CONTRACTOR IS NOT TO UNDERTAKE ANY PRUNING OF TREES. TREE MANAGEMENT IS TO BE UNDERTAKEN BY A SUITABLY QUALIFIED ARBORIST.
6. NO STOCKPILE/S ARE PERMITTED WITHIN THE ZONE OF ANY RETAINED VEGETATION WITHOUT SUPERVISION AND AUTHORIZATION OF THE SUPERVISING ARBORIST.
7. NO CLEARING OF PROTECTED SIZE VEGETATION IS TO OCCUR WITHOUT APPROVAL FROM LOGAN CITY COUNCIL.

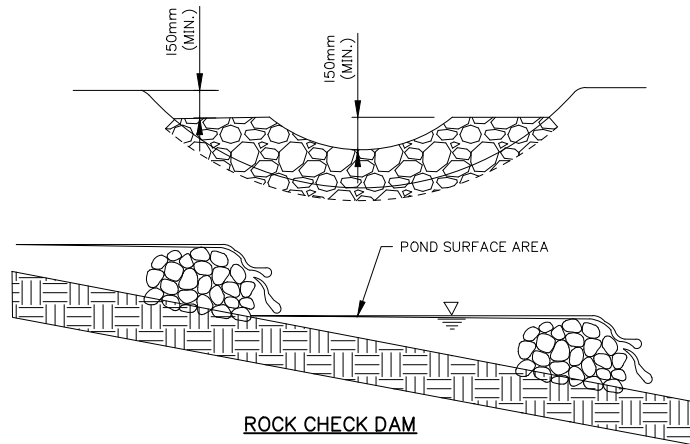
DETERMINING THE TPZ

THE RADIUS OF THE TPZ IS CALCULATED FOR EACH TREE BY MULTIPLYING ITS DBH X 12 = TRUNK DIAMETER MEASURED AT 1.4M ABOVE GROUND. RADIUS IS MEASURED FROM THE CENTRE OF THE STEM AT GROUND LEVEL.

A TPZ SHOULD NOT BE LESS THAN 2M NOR GREATER THAN 15M (EXCEPT WHERE CROWN PROTECTION IS REQUIRED). THE TPZ OF PALMS, OTHER MONOCOTS, CYCADS AND TREE FERNS SHOULD NOT BE LESS THAN 1M OUTSIDE THE CROWN PROJECTION.

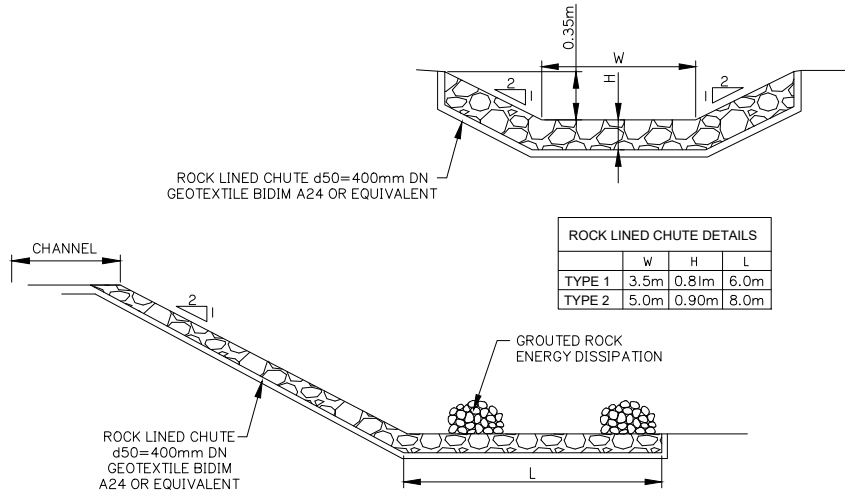
PROTECTIVE FENCING

NOT TO SCALE



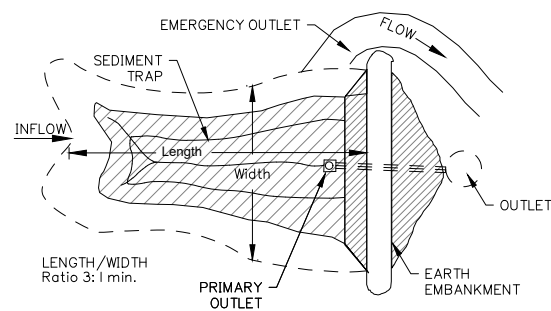
ROCK CHECK DAM

NOT TO SCALE



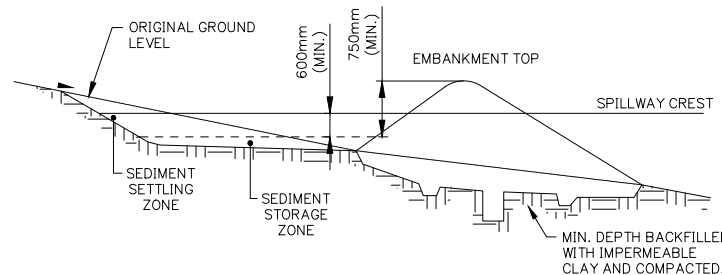
ROCK LINED CHUTE

NOT TO SCALE



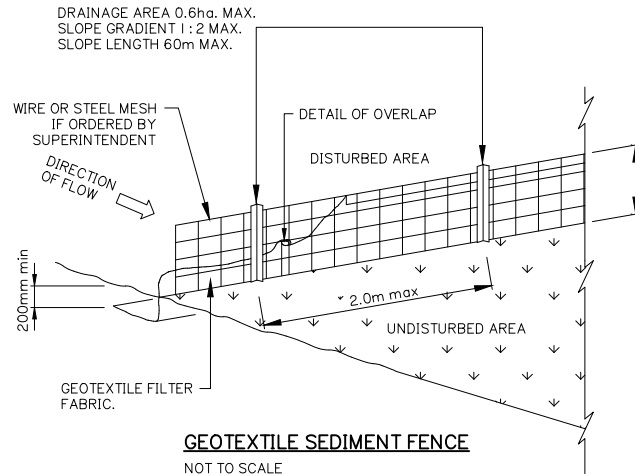
TYPICAL SEDIMENT BASIN

NOT TO SCALE



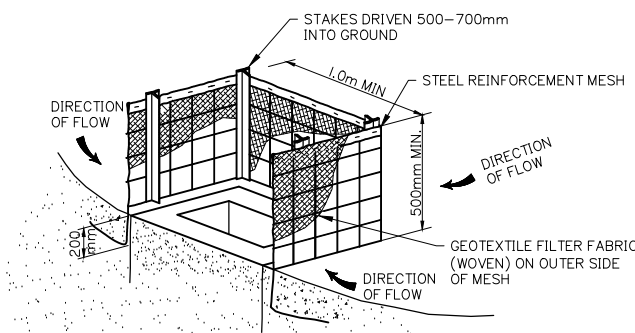
TYPICAL SECTION VEE DRAIN

NOT TO SCALE



GEOTEXTILE SEDIMENT FENCE

NOT TO SCALE



STORMWATER INLET - SEDIMENT TRAP

NOTE: FOURTH SIDE OF TRAP NOT SHOWN FOR CLARITY

SEDIMENT AND EROSION TYPICAL DETAILS

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA STAGE 1**

Site Address:
60 STAPYLTON JACOBS WELL ROAD & 31 YELLOWWOOD ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

SEDIMENT AND EROSION TYPICAL DETAILS

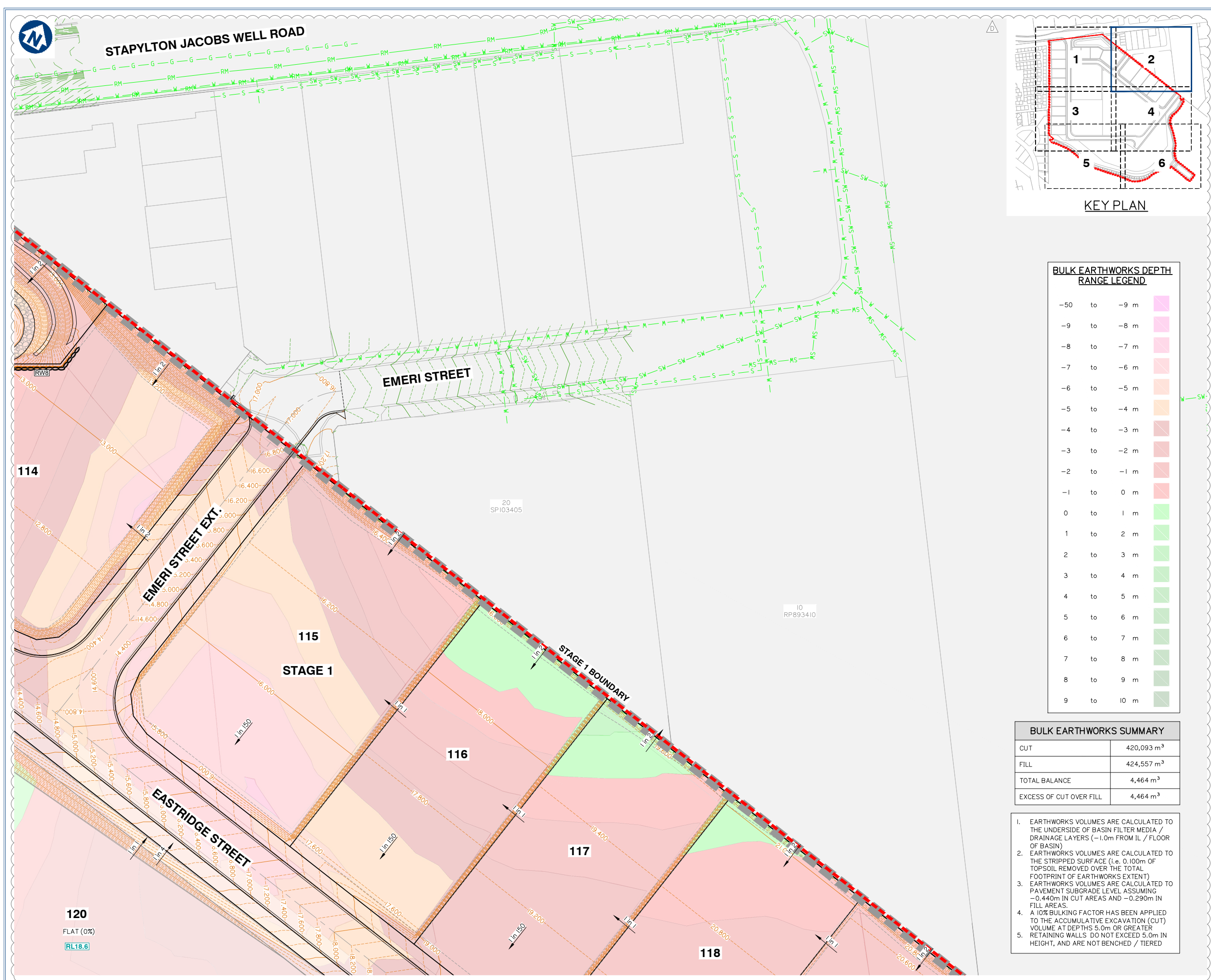
Rev	Date	Description	By	Check
C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

NOT APPLICABLE

Scale at A1:	NOT APPLICABLE
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 030 Rev. No: C



-50	to	-9 m
-9	to	-8 m
-8	to	-7 m
-7	to	-6 m
-6	to	-5 m
-5	to	-4 m
-4	to	-3 m
-3	to	-2 m
-2	to	-1 m
-1	to	0 m
0	to	1 m
1	to	2 m
2	to	3 m
3	to	4 m
4	to	5 m
5	to	6 m
6	to	7 m
7	to	8 m
8	to	9 m
9	to	10 m

1. EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF BASIN FILTER MEDIA / DRAINAGE LAYERS (-1.0m FROM IL / FLOOD OF BASIN)
2. EARTHWORKS VOLUMES ARE CALCULATED TO THE STRIPPED SURFACE (i.e. 0.100m OF TOPSOIL REMOVED OVER THE TOTAL FOOTPRINT OF EARTHWORKS EXTENT)
3. EARTHWORKS VOLUMES ARE CALCULATED TO PAVEMENT SUBGRADE LEVEL ASSUMING -0.440m IN CUT AREAS AND -0.290m IN FILL AREAS.
4. A 10% BULKING FACTOR HAS BEEN APPLIED TO THE ACCUMULATIVE EXCAVATION (CUT) VOLUME AT DEPTHS 5.0m OR GREATER
5. RETAINING WALLS DO NOT EXCEED 5.0m IN HEIGHT, AND ARE NOT BENCHED / TIERED

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Client:



Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL

Level Datum:
Meridian:
Contour Interval:
PSM:
RI :

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DRAWING TITLE
BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
2 OF 6

D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
ISSUE	Date	Description	DRN	CHI	

SCALE IN METRES



1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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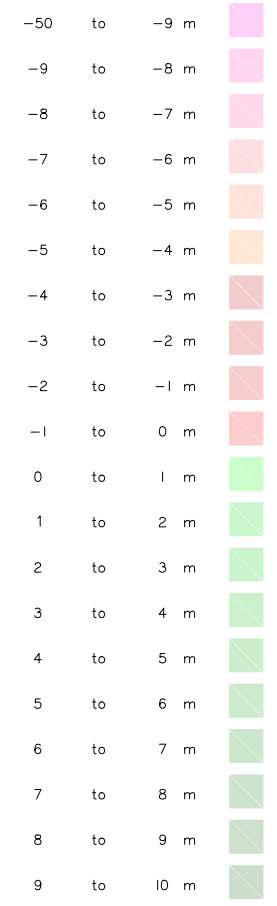
RPEQ:	16939
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Signed:	
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Date:	19-08-2020
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Drawing No:
5941 ENG BE1 051

Rev. No:
D



1. EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF BASIN FILTER MEDIA / DRAINAGE LAYERS (–1.0m FROM IL / FLOOR OF BASIN)
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KEY PLAN

Client:

 **FRASERS
PROPERTY**

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
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DRAWING TITLE
BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
4 OF 6

D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS		BA
C	06-04-2020	FURTHER INFORMATION REQUEST RESPONSE		BA
A	20-02-2020	INFORMATION REQUEST RESPONSE		IG
Lue	20-12-2019	ORIGINAL ISSUE		JRG
	Date	Description		DRN

SCALE IN METRES

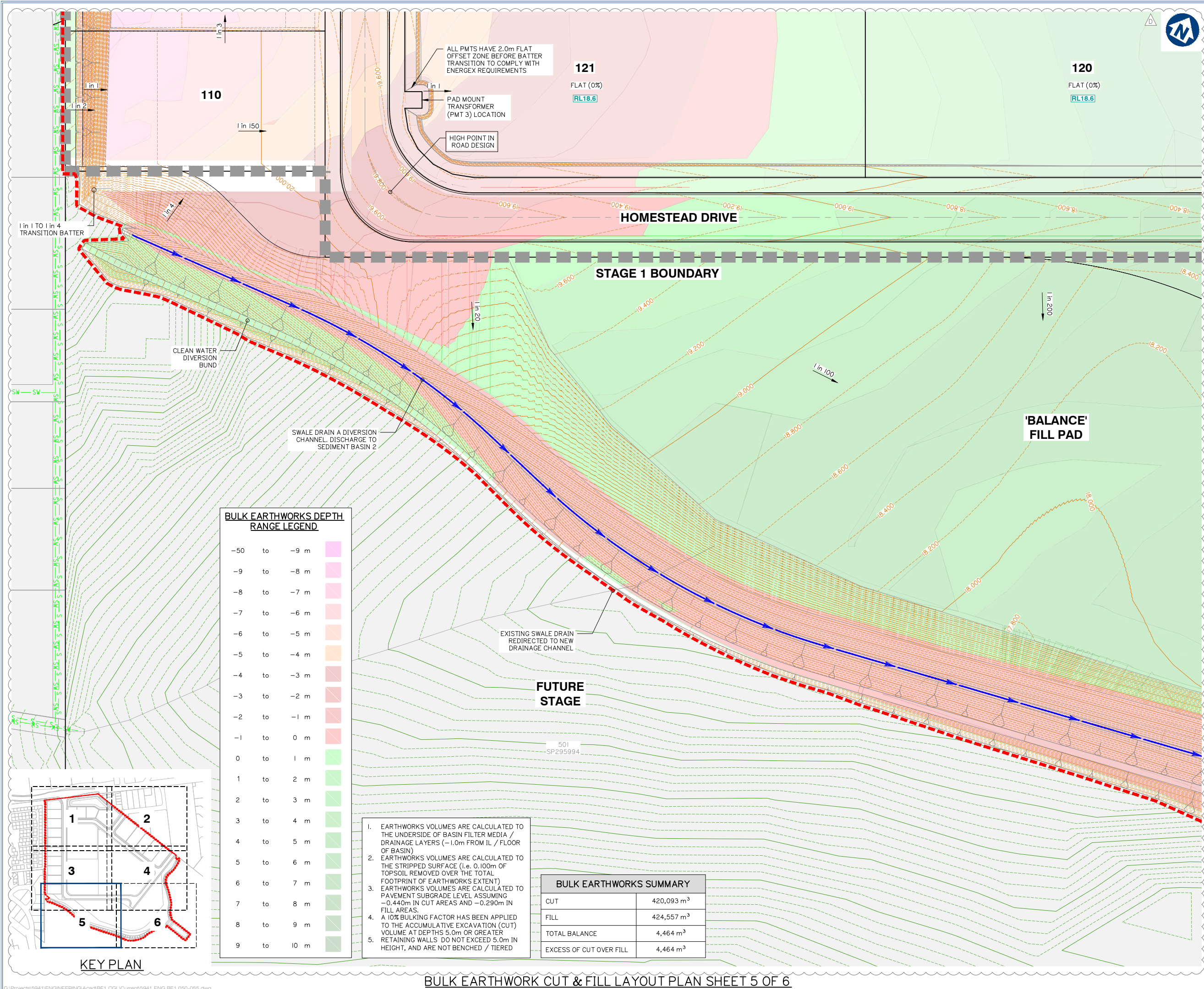


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1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. No:
5941 ENG BE1 053	D



Issue	Date	Description	DRN	CHK
D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG

Scale at A1:	1:500
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020



HOMESTEAD DRIVE

STAGE 1

A map of the Stage 1 Boundary area. The map shows a green area with a black line representing the Stage 1 Boundary. To the left of the boundary is Fairway Street. The map includes several lot numbers: 18.000, 17.000, 16.000, 15.000, 14.000, 13.000, 12.000, 11.000, 10.000, 9.000, 8.000, 7.000, 6.000, 5.000, 4.000, 3.000, 2.000, 1.000, and 0.000. The map also shows a network of roads and a grid of lots.

**'BALANCE'
FILL PAD**

SWALE DRAIN C. DIVERSION
CHANNEL, DISCHARGE TO
SEDIMENT BASIN 2

SWALE DRAIN B. DIVERSION
CHANNEL, DISCHARGE TO
SEDIMENT BASIN 2

— CLEAN WATER

3.0m WIDE MAINTENANCE
ACCESS TRACK TO SEDIMENT
BASIN AT 1 in 4 MAX.

HIGH EFFICIENCY
SEDIMENT BASIN (2)
IL FLOOR: 8.54m
EMBANKMENT: 10.54m
DEPTH 2.0m TOTAL
1 in 3 SIDE SLOPES

FOREIGN MIXING ZONE

LEVEL SPREADER
CREST RL10.01m

**FUTURE
STAGE**

501
SP295994

1. EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF BASIN FILTER MEDIA / DRAINAGE LAYERS (—1.0m FROM IL / FLOOR OF BASIN)
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5. RETAINING WALLS DO NOT EXCEED 5.0m IN HEIGHT, AND ARE NOT BENCHED / TIRED

BULK EARTHWORKS SUMMARY

CUT	420,093 m ³
FILL	424,557 m ³
TOTAL BALANCE	4,464 m ³
EXCESS OF CUT OVER FILL	4,464 m ³

BULK EARTHWORKS DEPTH RANGE LEGEND

-50	to	-9 m	
-9	to	-8 m	
-8	to	-7 m	
-7	to	-6 m	
-6	to	-5 m	
-5	to	-4 m	
-4	to	-3 m	
-3	to	-2 m	
-2	to	-1 m	
-1	to	0 m	
0	to	1 m	
1	to	2 m	
2	to	3 m	
3	to	4 m	
4	to	5 m	
5	to	6 m	
6	to	7 m	
7	to	8 m	
8	to	9 m	
9	to	10 m	



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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA** 
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RI: -

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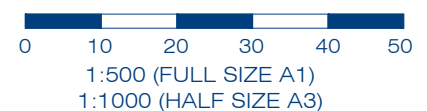
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
6 OF 6

D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG			
C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG			
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG			
A	20-12-2019	ORIGINAL ISSUE	JG	MG			
ISSUE	Date	Description	DRN	CHK			

SCALE IN METRES



Scale at A1:	1:500
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Designed:	IG
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Drafted:	JRG
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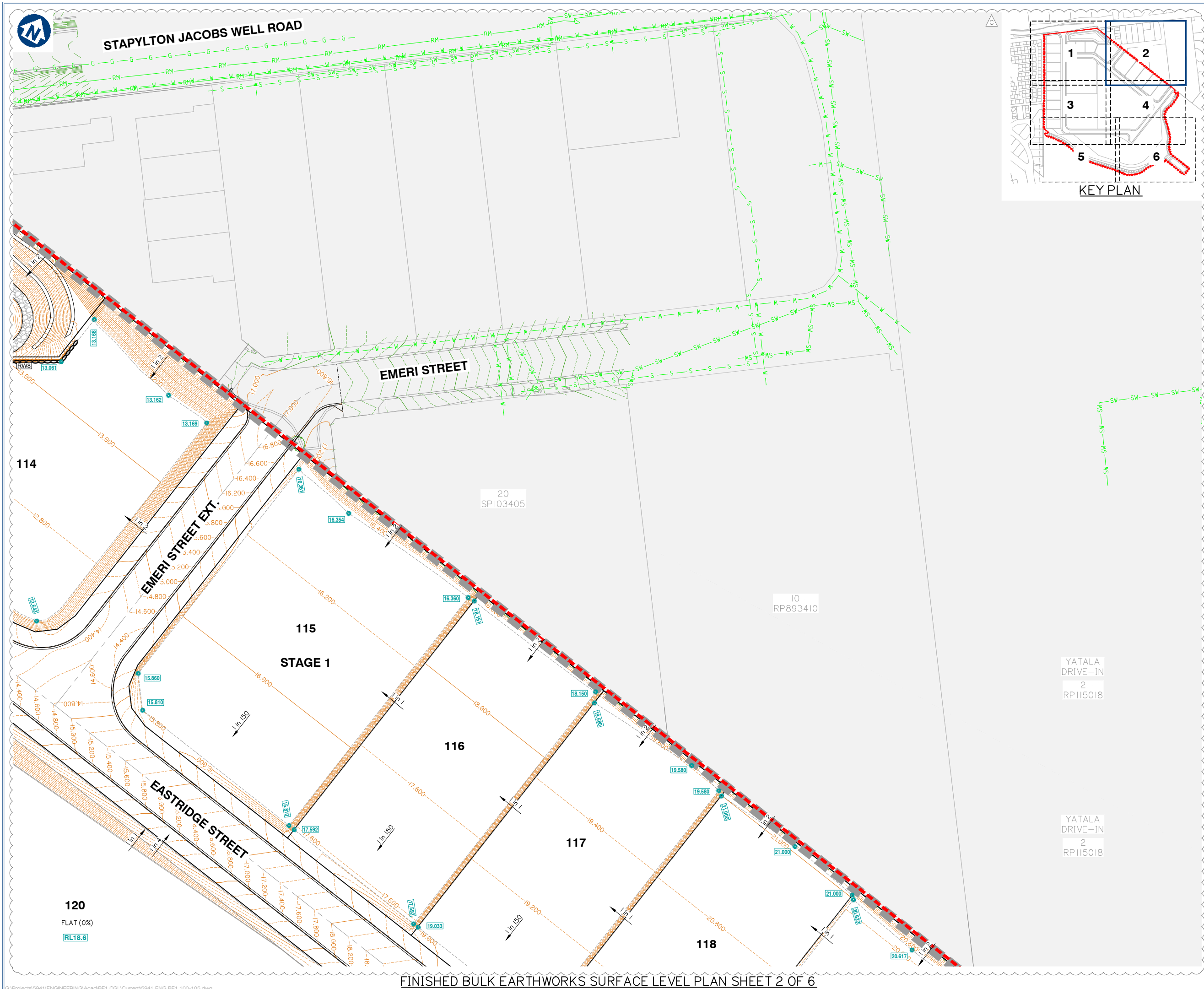
Approved:	MG
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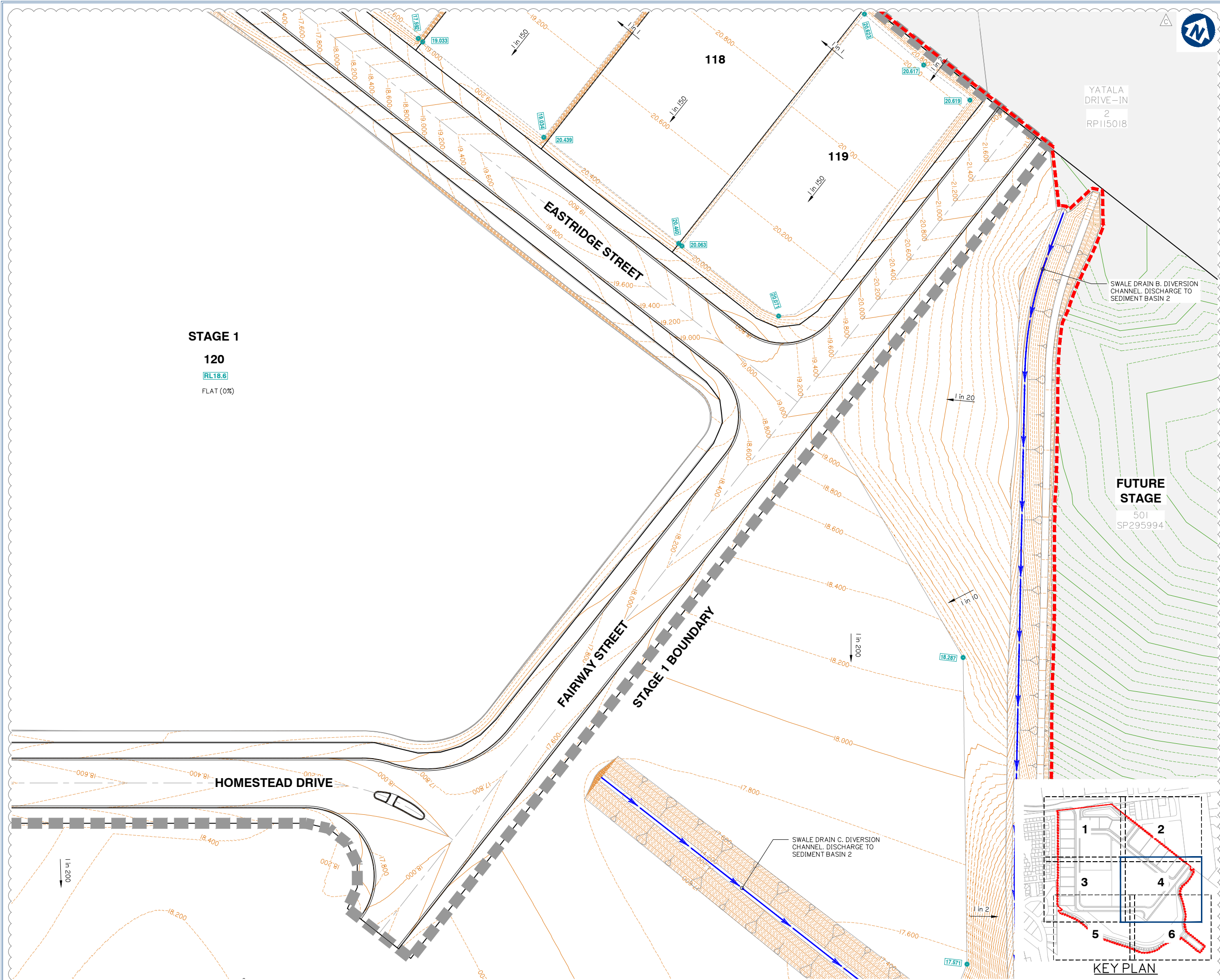
RPEQ:	16939
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Signed:	
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Date:	19-08-2020
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Drawing No:	Rev. No:
5941 ENG BE1 055	D





STAGE 1

120

RL18.6

FLAT (0%)



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Project: VANTAGE YATALA
STAGE 1

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ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

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PSM: -
RL: -

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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 4 OF 6

Issue	Date	Description	DRN	CHK
C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG

SCALE IN METRES



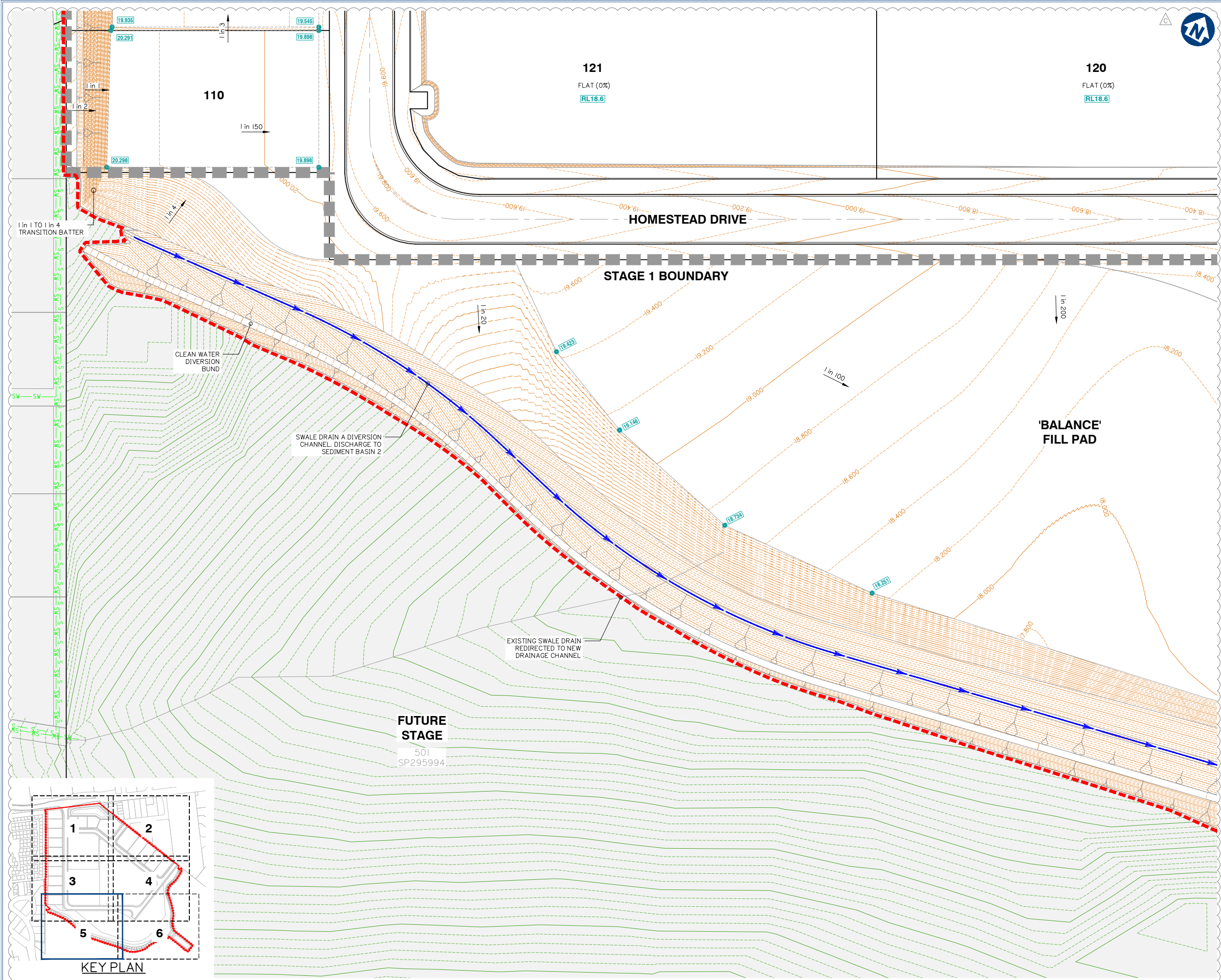
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:
5941 ENG BE1 103

Rev. No:
C



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Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501, 4
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Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
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PSM: -
RL: -

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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 5 OF 6

Issue	Date	Description	IG	MG	JRG	CHK
C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG		
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-12-2019	ORIGINAL ISSUE	JRG	MG		

SCALE IN METRES



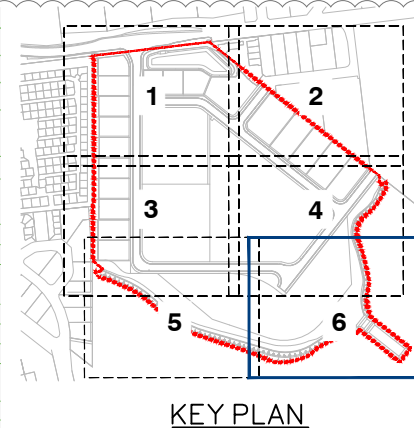
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:
5941 ENG BE1 104

Rev. No:
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60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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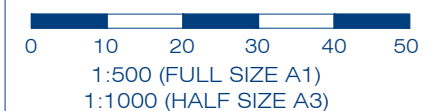
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 6 OF 6

[illegible]

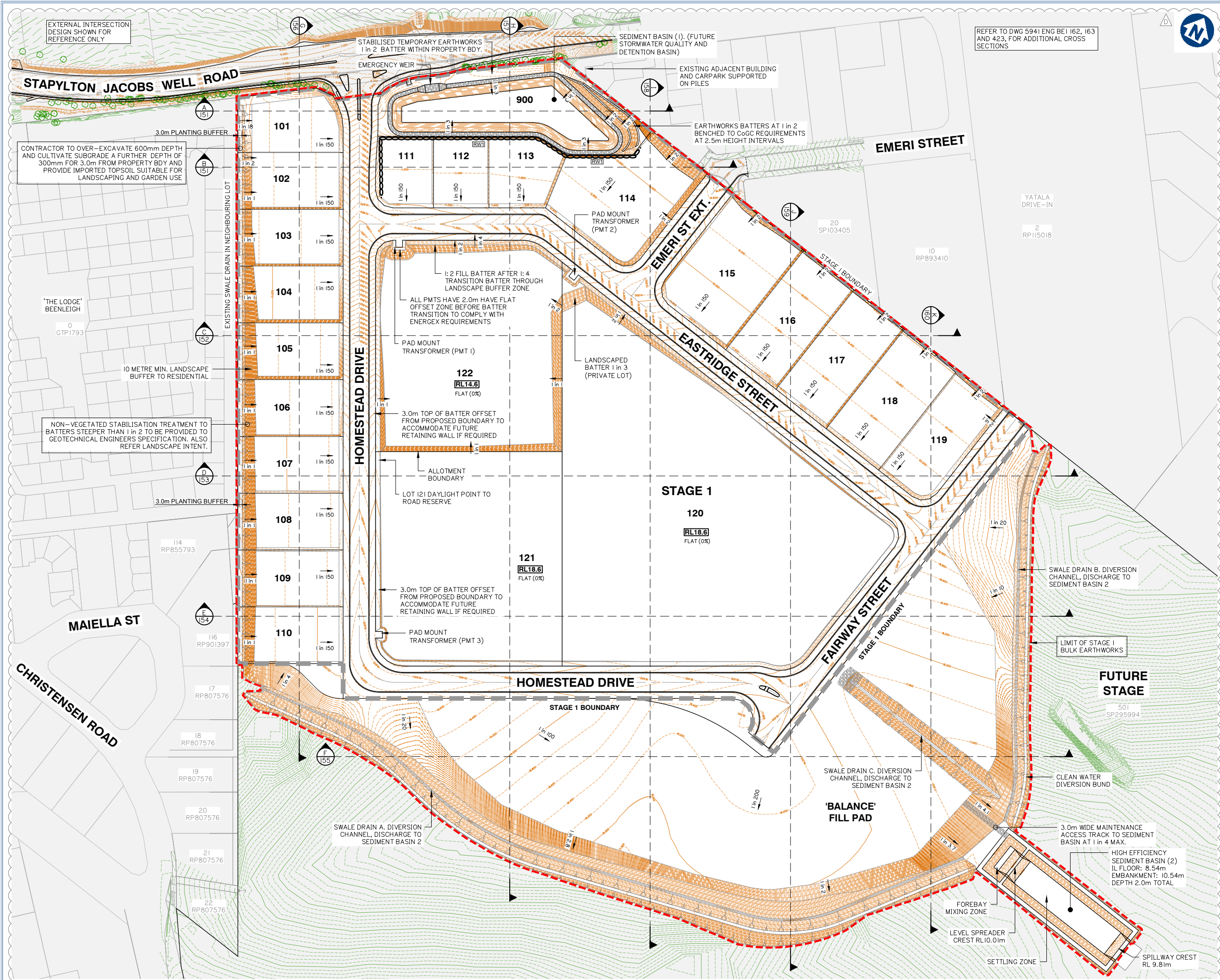
SCALE IN METRES



Scale at A1:	1:500
--------------	-------

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. No:
5941 ENG BE1 105	C



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA**
STAGE 1

Site Address:
**60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207**

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
**FINISHED EARTHWORKS
CROSS SECTIONS SHEET
1 OF 11**

Rev	Date	Description	By	Check
D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



1:1250 (FULL SIZE A1)
1:2500 (HALE SIZE A3)

Scale at A1: 1:1250

Designed: IG

Drafted: JRG

Approved: MG

RPEQ: 16939

Signed: *[Signature]*

Date: 19-08-2020

Drawing No:
5941 ENG BE1 150

Rev. No:
D



Project: **VANTAGE YATALA** 
STAGE 1

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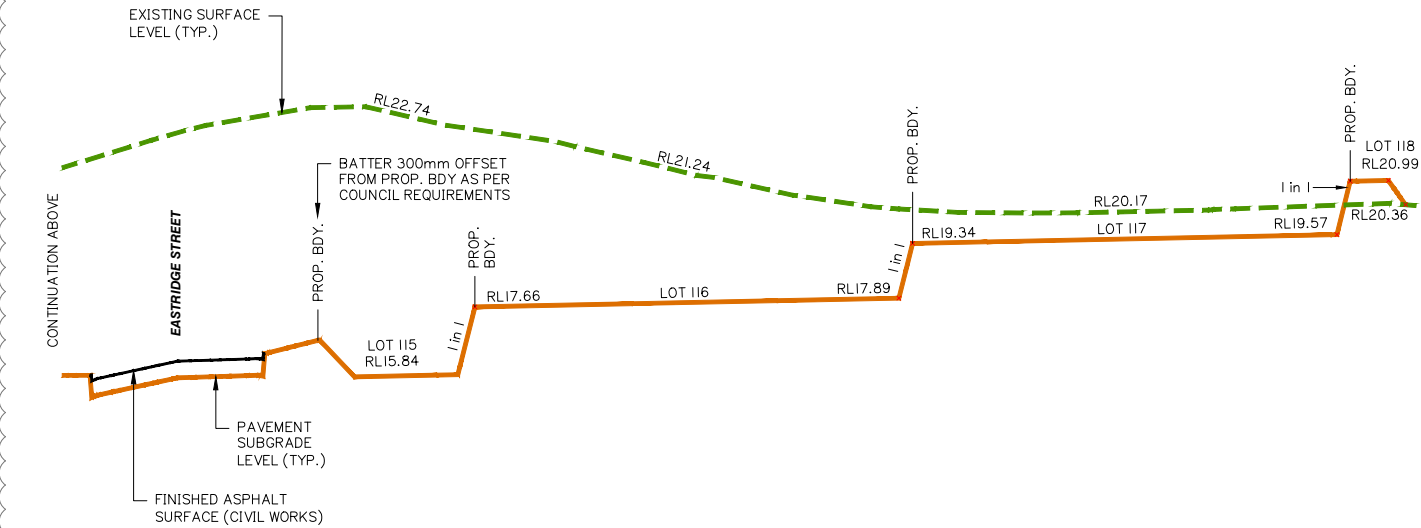
[illegible]SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

VERT: 

Date:	19-08-2020
-------	------------

FINISHED EARTHWORKS CROSS SECTIONS SHEET 3 OF 11



SECTION _____

SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION

C
150



Project: **VANTAGE YATALA** 
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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BE PRINTED IN COLOUR

RPD:
 Lot: 501, 4
 Plan: SP295994, RP6843
 Local Authority: CITY OF GOLD COAST
 COUNCIL
 Level Datum: AHD
 Meridian: -
 Contour Interval: -
 DSM: -
 L: -

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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
4 OF 11

19-08-2020	MINOR CHANGE TO BULK EARTHWORKS		BA
09-04-2020	FURTHER INFORMATION REQUEST RESPONSE		BA
20-02-2020	INFORMATION REQUEST RESPONSE		IG
20-12-2019	ORIGINAL ISSUE		JRG
Date	Description		DRN

SCALE IN METRES

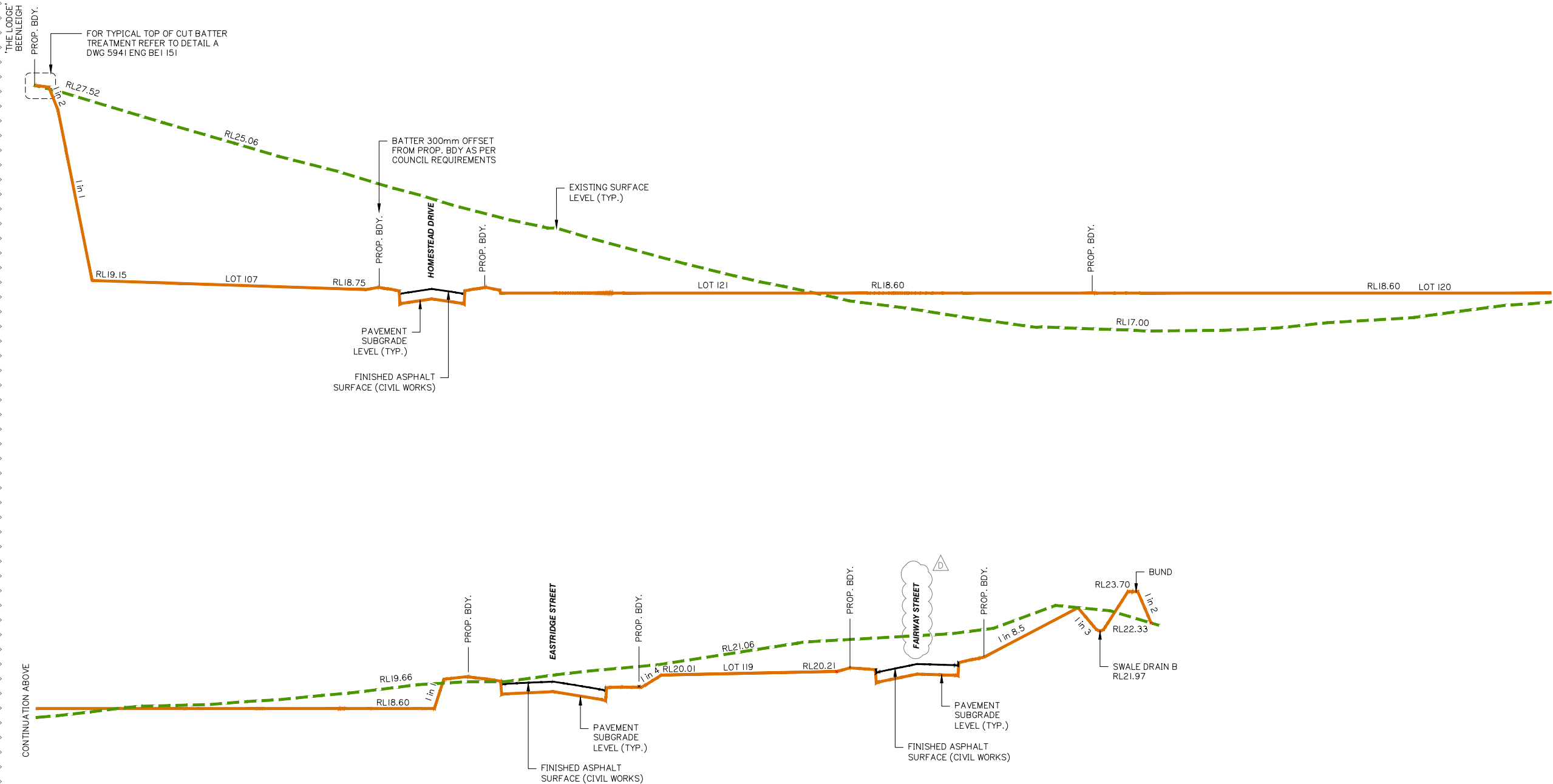
Scale 1:500 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

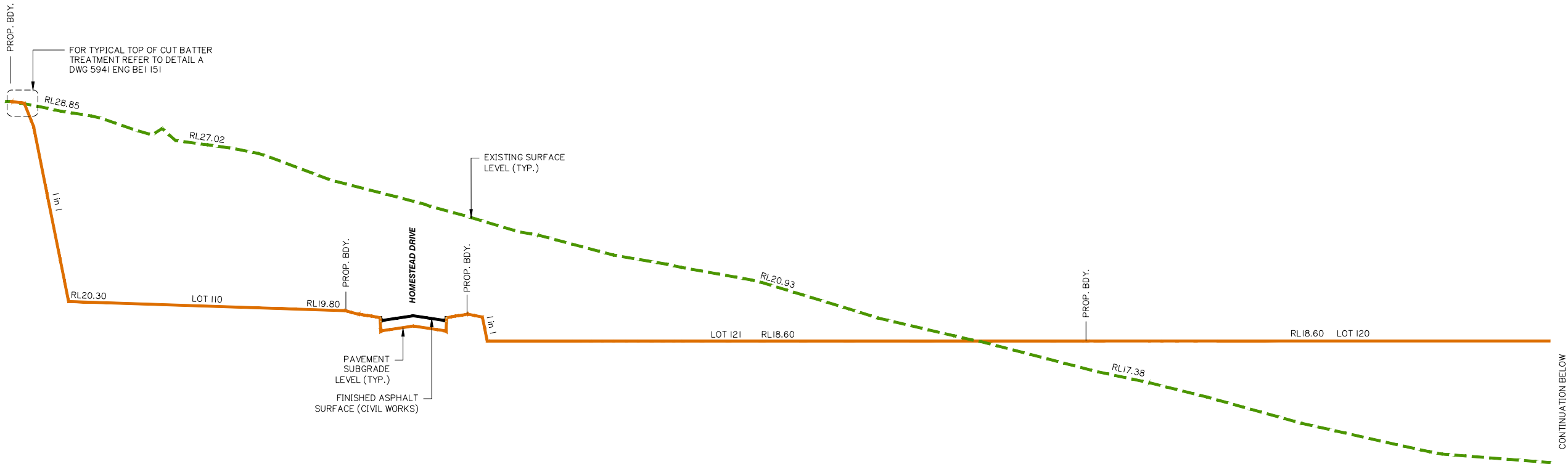
Designed:	IG
Drafted:	JRG
Approved:	MG
PEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. N
041 ENG BE1 153	D



SECTION D
SCALE: 150

SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION



SECTION E
SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
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Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
5 OF 11

D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

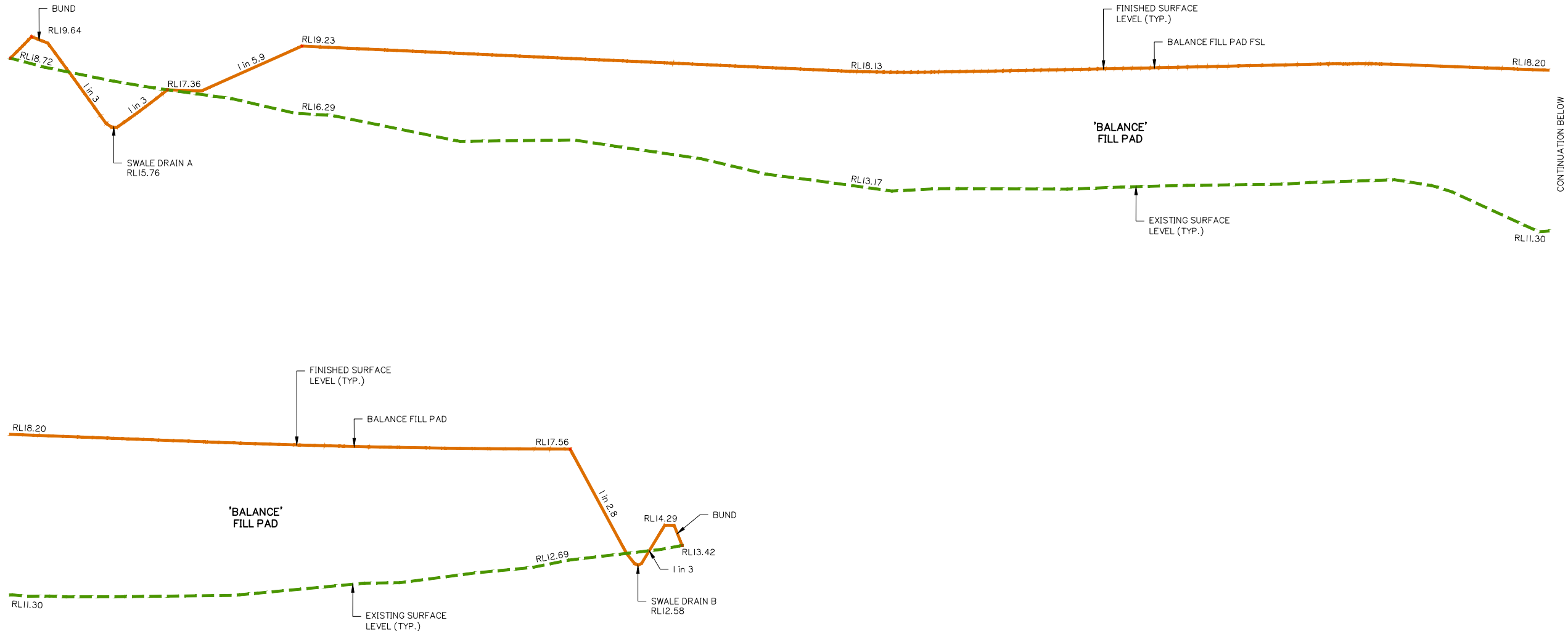
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 154
Rev. No: D



SECTION F
SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION

Client:



Project: VANTAGE YATALA STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:
Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
6 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



Scale at A1:	AS SHOWN
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 155 Rev. No: C



Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

RPD:
 Lot: 501, 4
 Plan: SP295994, RP6843
 Local Authority: CITY OF GOLD COAST
 COUNCIL
 Level Datum: AHD
 Meridian: -
 Contour Interval: -
 DSM: -
 L: -

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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
7 OF 11

SCALE IN METRES

HOZ: Scale 1:500 - Lengths are in Metres.



A horizontal scale bar with a black line and white tick marks. The line is divided into 7 equal segments by 8 tick marks. The segments are numbered 0 through 7 below the line. The total length of the bar is 35 units.

VERT: Scale 1:100 - Lengths are in Metres.

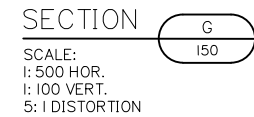


A vertical scale bar with a black line and white tick marks. The line is divided into 7 equal segments by 8 tick marks. The segments are numbered 0 through 7 to the left of the line. The total length of the bar is 7 units.

Designed:	IG
Drafted:	JRG
Approved:	MG
PEQ:	16939
Signed:	
Date:	19-08-2020

Profile view of the proposed road grade. The vertical axis represents elevation in feet above sea level. The horizontal axis represents stationing. The profile shows the existing surface level (dashed green line) and the proposed finished surface level (solid orange line). The proposed grade includes vertical curves with 1 in 14 slopes. The profile is divided into lots 101 through 107, with elevations and stationing marked at lot boundaries and vertical curve points.

Station	Existing Surface Level (ft)	Proposed Surface Level (ft)	Notes
101+00	RL 9.66	RL 9.66	Lot 101 boundary
102+00	RL 9.68	RL 9.68	Lot 102 boundary
103+00	RL 11.21	RL 11.21	Lot 103 boundary
104+00	RL 12.87	RL 12.87	Lot 104 boundary
105+00	RL 15.30	RL 15.30	Lot 105 boundary
106+00	RL 17.75	RL 17.75	Lot 106 boundary
107+00	RL 18.94	RL 18.94	Lot 107 boundary



FINISHED EARTHWORKS CROSS SECTIONS SHEET 7 OF 11



Project: **VANTAGE YATALA** 
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:
 Lot: 501, 4
 Plan: SP295994, RP6843
 Local Authority: CITY OF GOLD COAST
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 Level Datum: AHD
 Meridian: -
 Contour Interval: -
 DSM: -
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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
8 OF 11

19-09-2020	MINOR CHANGE TO BULK EARTHWORKS	BA
20-02-2020	INFORMATION REQUEST RESPONSE	IG
20-12-2019	ORIGINAL ISSUE	JRG
Date	Description	DRN

SCALE IN METRES

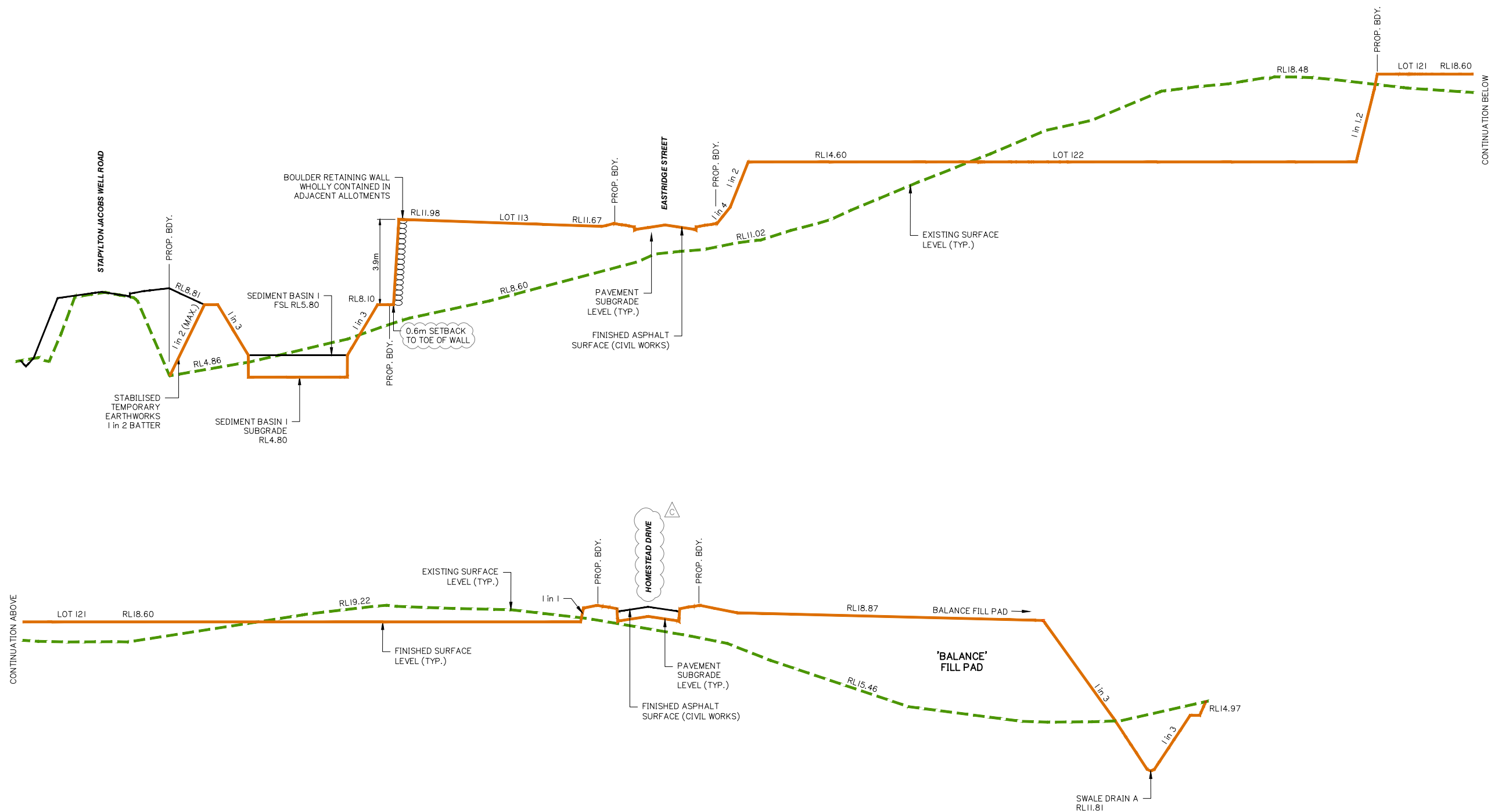
Scale 1:500 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
PEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. No.
041 ENG BE1 157	C



SECTION _____

SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION

H
150

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA
STAGE 1**

Site Address:
**60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207**

*THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR*

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
**FINISHED EARTHWORKS
CROSS SECTIONS SHEET
9 OF 11**

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

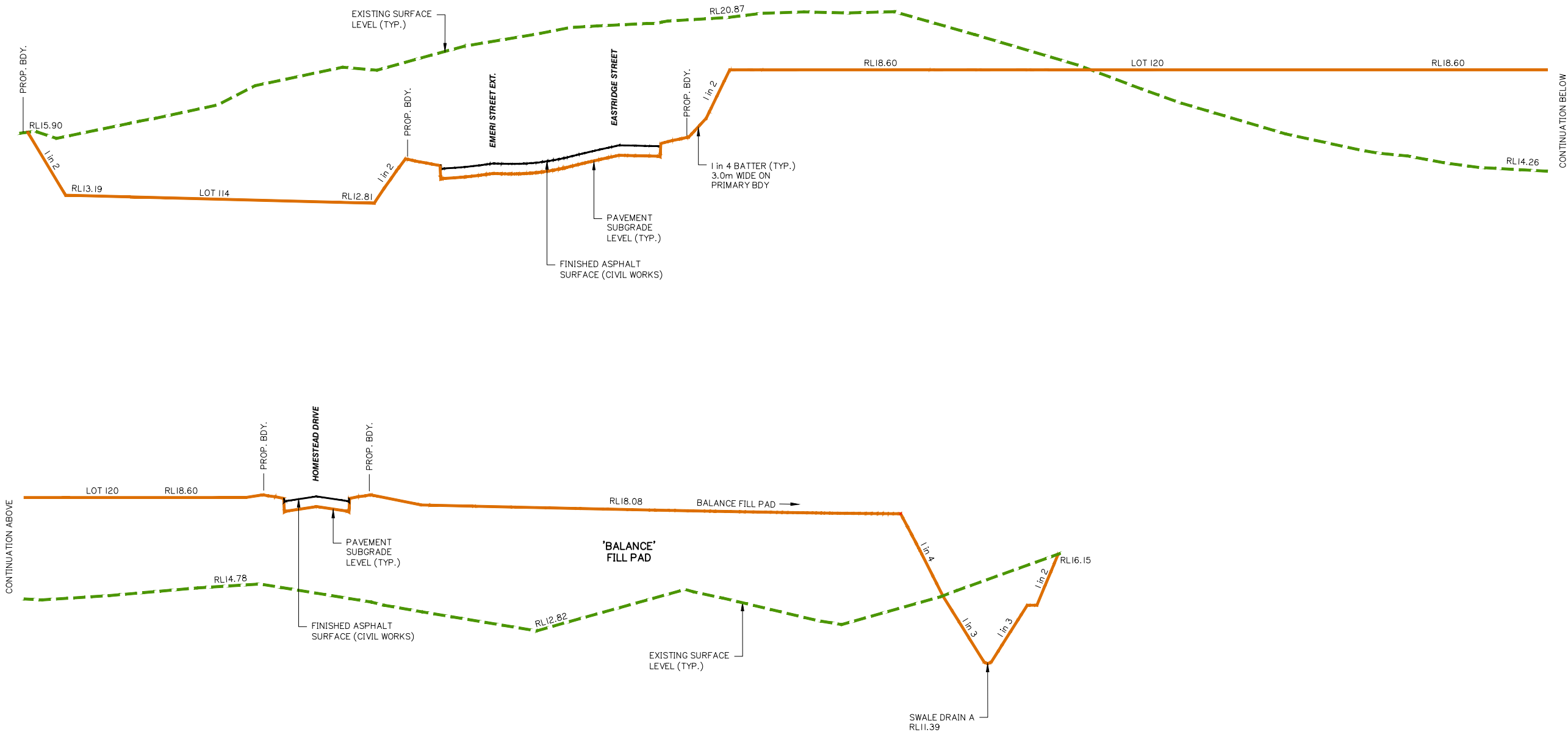
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: **AS SHOWN**

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: **5941 ENG BE1 158** Rev. No: **C**



SECTION

SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA
STAGE 1**

Site Address:
**60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207**

*THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
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Contour interval: -
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DRAWING TITLE
**FINISHED EARTHWORKS
CROSS SECTIONS SHEET
10 OF 11**

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

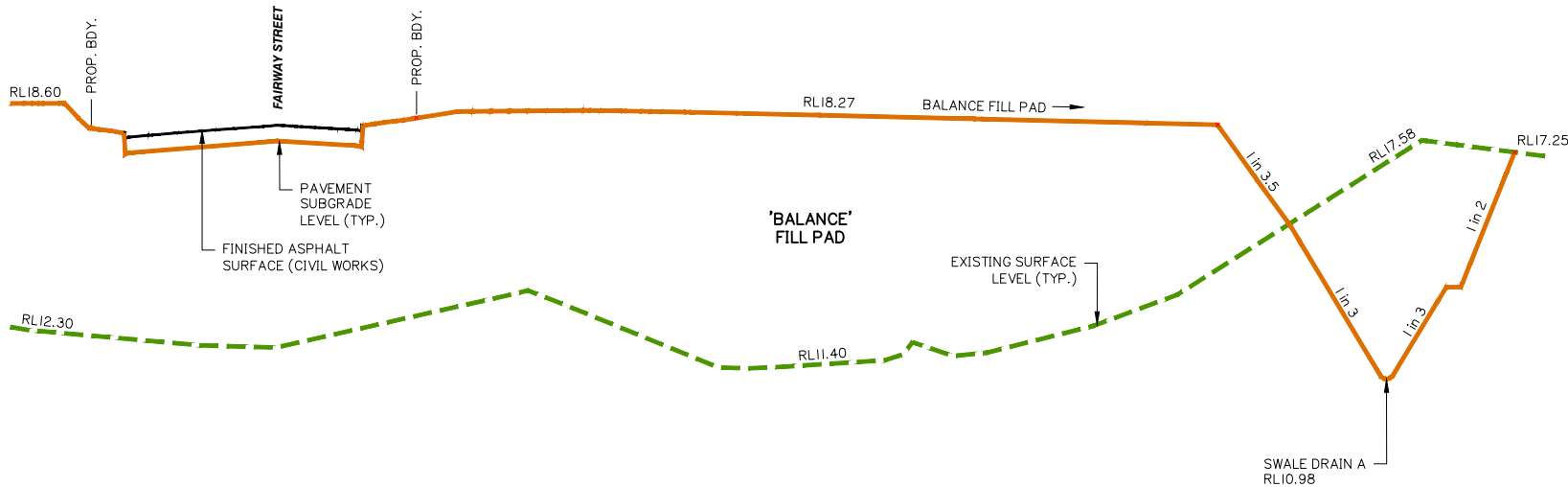
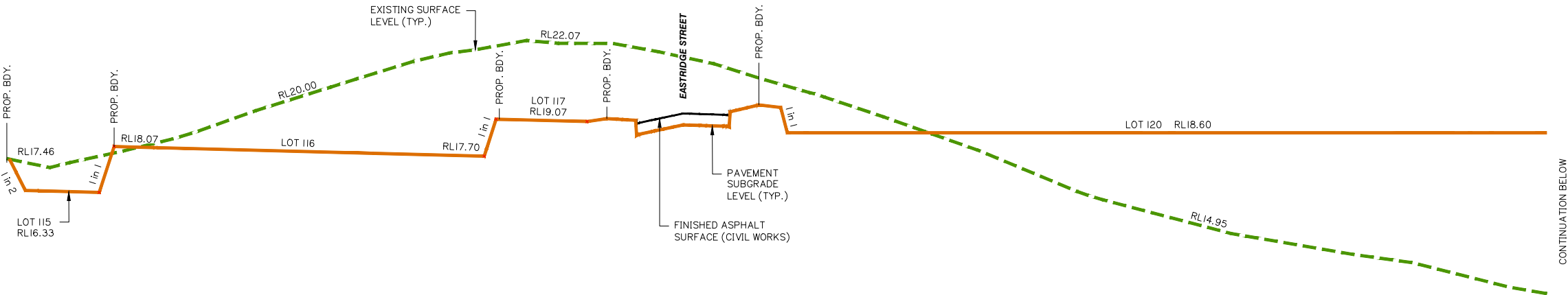
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

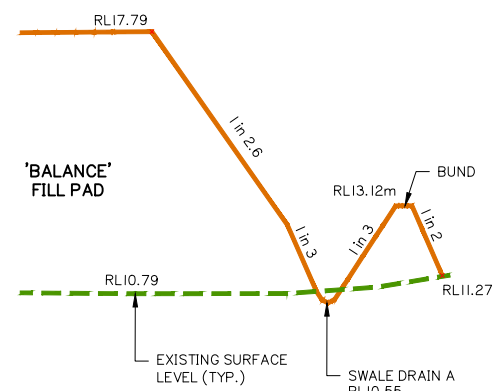
Scale at A1: **AS SHOWN**

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: **5941 ENG BE1 159** Rev. No: **C**



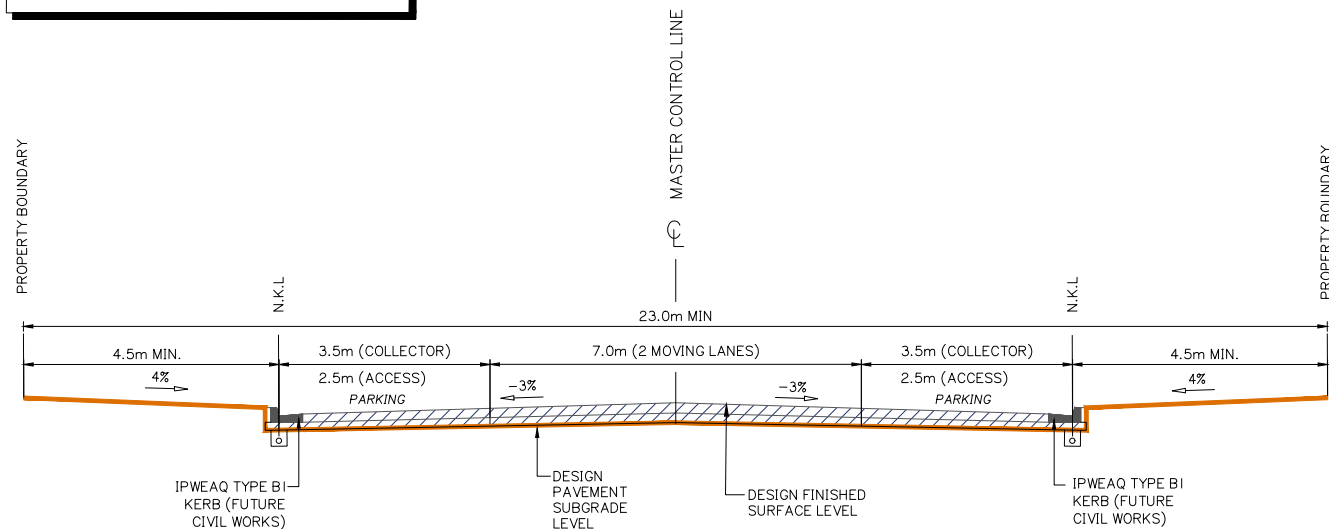
SECTION
SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION



FINISHED EARTHWORKS CROSS SECTIONS SHEET 11 OF 11

Drawing No:	Rev. No:
5941 ENG BE1 160	C

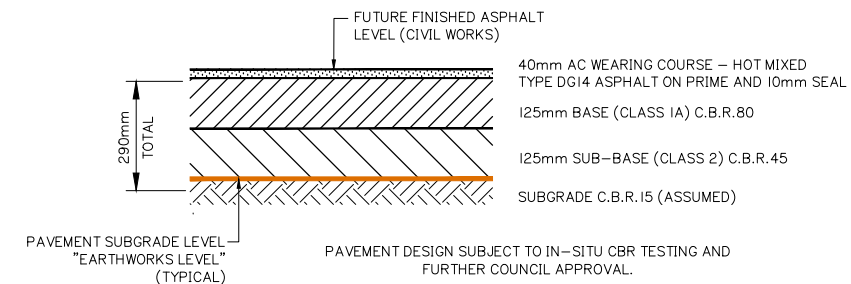
ONLY THE BULK EARTHWORKS IS APPLICABLE.
A SEPARATE APPLICATION WILL BE SUBMITTED
FOR THE CIVIL ROADWORKS ASSOCIATED WITH
THE RECONFIGURATION OF LOTS.



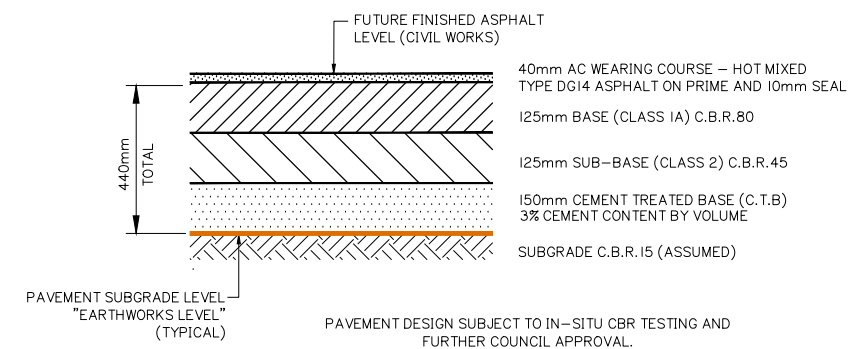
TYPICAL CROSS SECTION – INDUSTRIAL / COMMERCIAL
COLLECTOR AND ACCESS STREETS (23.0m)

HOMESTEAD DRIVE, EASTRIDGE STREET, FAIRWAY STREET, EMERI STREET EXT.

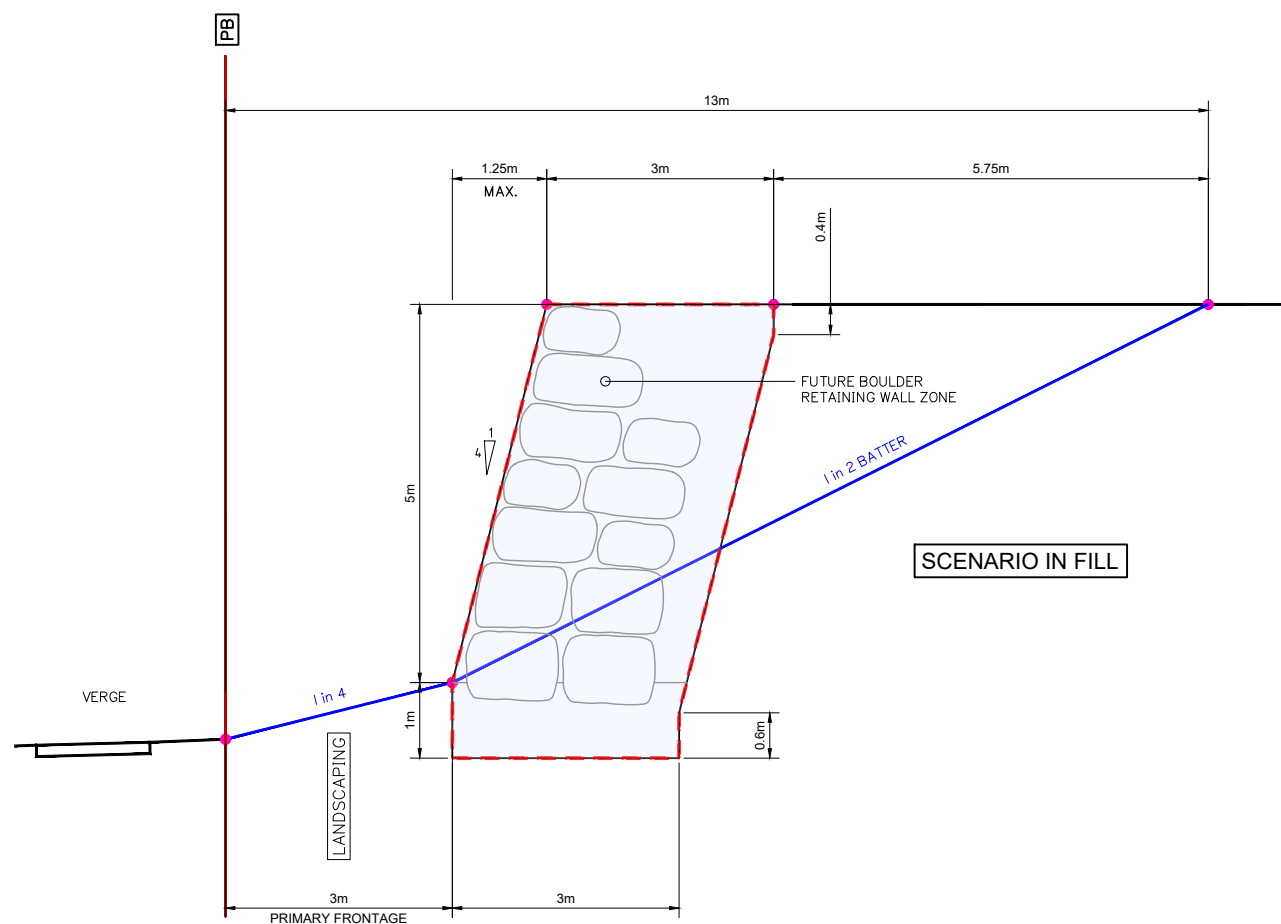
REFER ALSO CoGC STD DWG 05-02-2004 FOR DETAILS



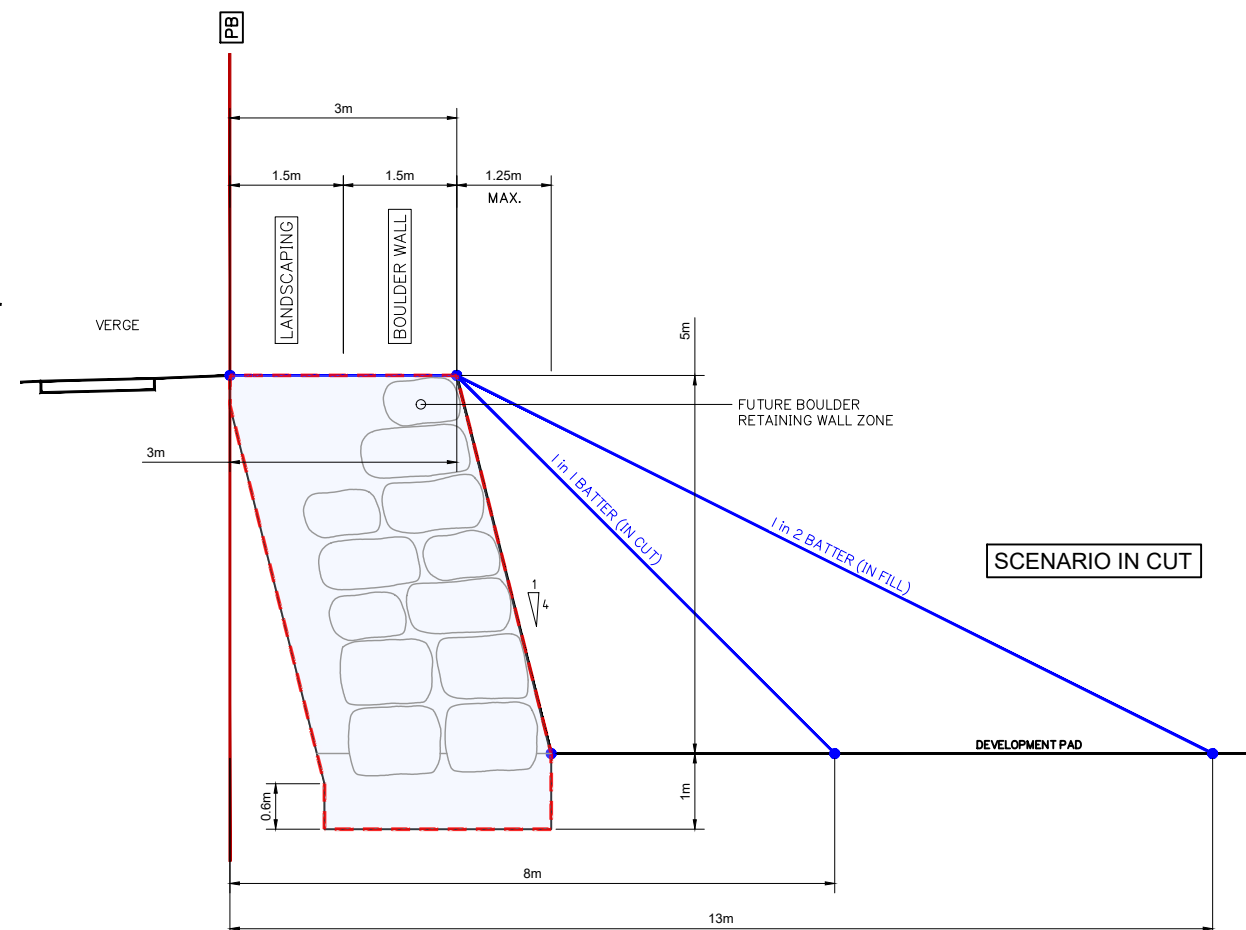
NOMINAL ROAD PAVEMENT DETAIL – IN FILL AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET N.T.S



NOMINAL ROAD PAVEMENT DETAIL – IN CUT AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET N.T.S



TYPICAL SECTION OF:
BOULDER RETAINING WALL (2.5m to 5.0m MAXIMUM HEIGHT)
SHOWING TOE OF EMBANKMENT OFFSET FOR TEMPORARY CONSTRUCTION BATTERS – IN FILL



TYPICAL SECTION OF:
BOULDER RETAINING WALL (2.5m to 5.0m MAXIMUM HEIGHT)
SHOWING TOE OF EMBANKMENT OFFSET FOR TEMPORARY CONSTRUCTION BATTERS – IN CUT



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA** 
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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Lot: 501, 4
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Meridian: -
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RL: -

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DRAWING TITLE

BULK EARTHWORKS ROAD TYPICAL SECTIONS

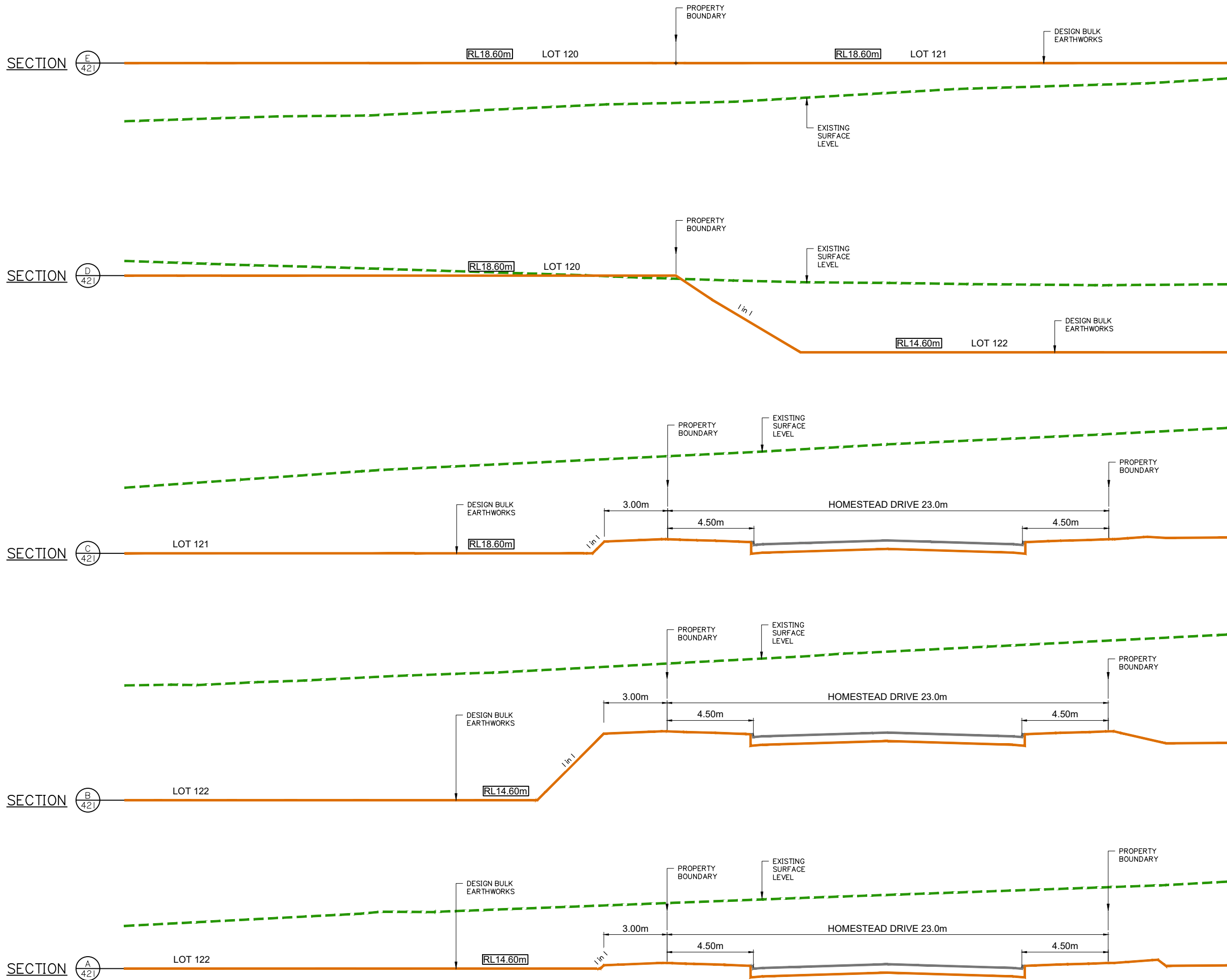
C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS		BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE		IG	MG
A	20-12-2019	ORIGINAL ISSUE		JIS	MG
Issue	Date	Description		DRN	CHK

NOT APPLICABLE

Scale at A1:	NOT APPLICABLE
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. No:
5941 ENG BE1 161	C



BULK EARTHWORKS DETAILED SECTIONS SHEET 1 OF 2



planning | environment | landscape | engineering | survey
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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501, 4
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Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
BULK EARTHWORKS
DETAILED SECTIONS
SHEET 1 OF 2

B	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS			BA MG
A	20-12-2019	ORIGINAL ISSUE			JRG MG
Issue	Date	Description			DRN CHK

SCALE IN METRES



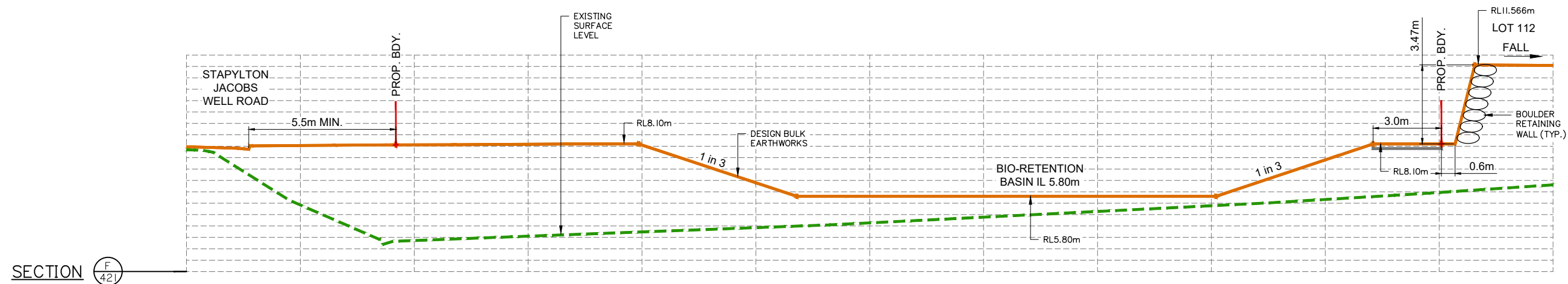
1:100 (FULL SIZE A1)
1:200 (HALF SIZE A3)

Scale at A1: 1:100

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:
5941 ENG BE1 162

Rev. No:
B





Client:



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(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA**
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

CONTROL LINE LAYOUT
PLAN SHEET 1 OF 2

D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



1:1000 (FULL SIZE A1)
1:2000 (HALF SIZE A3)

Scale at A1: 1:1000

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	19-08-2020
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Drawing No:
5941 ENG BE1 400

Rev. No:
D





HOMESTEAD DRIVE – CONTROL LINE SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	FSL HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2186.394	7037.296	7.396	151°00'47.03"			
	10.000	2191.240	7028.549	7.091	151°00'47.03"			
	20.000	2196.086	7019.801	6.930	151°00'47.03"			
	30.000	2200.932	7011.054	7.359	151°00'47.03"			
	40.000	2205.778	7002.307	7.947	151°00'47.03"			
	50.000	2210.625	6993.559	8.482	151°00'47.03"			
	60.000	2215.471	6984.812	8.961	151°00'47.03"			
	70.000	2220.317	6976.065	9.395	151°00'47.03"			
	80.000	2225.163	6967.317	9.824	151°00'47.03"			
	90.000	2230.009	6958.570	10.217	151°00'47.03"			
	100.000	2234.855	6949.823	10.558	151°00'47.03"			
	110.000	2239.701	6941.076	10.860	151°00'47.03"			
	120.000	2244.547	6932.328	11.161	151°00'47.03"			
	130.000	2249.393	6923.581	11.527	151°00'47.03"			
	140.000	2254.239	6914.834	12.013	151°00'47.03"			
	150.000	2259.086	6906.086	12.600	151°00'47.03"			
	160.000	2263.932	6897.339	13.200	151°00'47.03"			
	170.000	2268.778	6888.592	13.800	151°00'47.03"			
	180.000	2273.624	6879.844	14.401	151°00'47.03"			
	190.000	2278.470	6871.097	15.001	151°00'47.03"			
	200.000	2283.316	6862.350	15.601	151°00'47.03"			
	210.000	2288.162	6853.603	16.201	151°00'47.03"			
	220.000	2293.008	6844.855	16.754	151°00'47.03"			
	230.000	2297.854	6836.108	17.222	151°00'47.03"			
	240.000	2302.700	6827.361	17.604	151°00'47.03"			
	250.000	2307.547	6818.613	17.913	151°00'47.03"			
	260.000	2312.393	6809.866	18.212	151°00'47.03"			
	270.000	2317.239	6801.119	18.460	151°00'47.03"			
	280.000	2322.085	6792.371	18.624	151°00'47.03"			
	290.000	2326.931	6783.624	18.723	151°00'47.03"			
	300.000	2331.777	6774.877	18.815	151°00'47.03"			
	310.000	2336.623	6766.129	18.907	151°00'47.03"			
	320.000	2341.469	6757.382	19.000	151°00'47.03"			
	330.000	2346.315	6748.635	19.092	151°00'47.03"			
	340.000	2351.161	6739.888	19.185	151°00'47.03"			
	350.000	2356.008	6731.140	19.277	151°00'47.03"			
	360.000	2360.854	6722.393	19.370	151°00'47.03"			
	370.000	2365.700	6713.646	19.462	151°00'47.03"			
	380.000	2370.546	6704.898	19.554	151°00'47.03"			
	390.000	2375.392	6696.151	19.636	151°00'47.03"			
	400.000	2380.238	6687.404	19.702	151°00'47.03"			
	410.000	2385.084	6678.656	19.753	151°00'47.03"			
TC	418.614	2389.259	6671.122	19.784	151°00'47.03"			
	420.000	2389.964	6669.928	19.788	147°50'11.49"			
	430.000	2396.817	6662.738	19.807	124°55'05.57"			
IP 2	438.249	2401.374	6649.253	19.811		R = –25.000	39.270	89°59'59.86"
	440.000	2405.929	6658.783	19.811	101°59'59.65"			
	450.000	2415.862	6658.689	19.799	79°04'53.73"			
CT	457.884	2423.242	6661.369	19.778	61°00'47.17"			
	460.000	2425.093	6662.394	19.771	61°00'47.17"			
	470.000	2433.840	6667.240	19.728	61°00'47.17"			
	480.000	2442.588	6672.086	19.669	61°00'47.17"			
	490.000	2451.335	6676.932	19.606	61°00'47.17"			
	500.000	2460.082	6681.778	19.542	61°00'47.17"			
	510.000	2468.830	6686.625	19.478	61°00'47.17"			
	520.000	2477.577	6691.471	19.414	61°00'47.17"			
	530.000	2486.324	6696.317	19.350	61°00'47.17"			
	540.000	2495.072	6701.163	19.287	61°00'47.17"			
	550.000	2503.819	6706.009	19.223	61°00'47.17"			
	560.000	2512.566	6710.855	19.159	61°00'47.17"			
	570.000	2521.314	6715.701	19.095	61°00'47.17"			
	580.000	2530.061	6720.547	19.031	61°00'47.17"			
	590.000	2538.808	6725.393	18.968	61°00'47.17"			
	600.000	2547.555	6730.239	18.904	61°00'47.17"			
	610.000	2556.303	6735.085	18.840	61°00'47.17"			
	620.000	2565.050	6739.932	18.776	61°00'47.17"			
	630.000	2573.797	6744.778	18.712	61°00'47.17"			
	640.000	2582.545	6749.624	18.648	61°00'47.17"			
	650.000	2591.292	6754.470	18.585	61°00'47.17"			
	660.000	2600.039	6759.316	18.521	61°00'47.17"			
	670.000	2608.787	6764.162	18.457	61°00'47.17"			
	680.000	2617.534	6769.008	18.393	61°00'47.17"			
	690.000	2626.281	6773.854	18.330	61°00'47.17"			
	700.000	2635.028	6778.700	18.267	61°00'47.17"			

HOMESTEAD DRIVE – CONTROL LINE SETOUT TABLE (CONT.)								
PT	CHAINAGE	EASTING	NORTHING	FSL HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
TC	700.654	2635.601	6779.017	18.263	61°00'47.17"			
	710.000	2644.120	6782.832	18.205	70°44'55.86"			
IP 3	718.993	2652.264	6788.249	18.149		R = 55.000	36.676	38°12'26.65"
	720.000	2653.808	6785.255	18.143	81°09'58.55"			
	730.000	2663.774	6785.886	18.081	91°35'01.24"			
CT	737.331	2671.067	6785.197	18.035	99°13'13.83"			
	740.000	2673.702	6784.769	18.019	99°13'13.83"			
IP 4	744.473	2678.117	6784.052	17.991	99°13'13.83"			

FSL HEIGHT INDICATED IN TABLES,
NOT SUBGRADE LEVEL



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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE
ROAD CONTROL LINE
SETOUT TABLES SHEET
1 OF 3

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES
NOT APPLICABLE

Scale at A1: NOT APPLICABLE

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 402
Rev. No: C



EASTRIDGE STREET – CONTROL LINE SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	FSL HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2243.127	6934.892	11.072	61°00'44.11"			
	10.000	2251.874	6939.738	10.928	61°00'44.11"			
	20.000	2260.622	6944.584	10.805	61°00'44.11"			
	30.000	2269.369	6949.430	10.810	61°00'44.11"			
	40.000	2278.116	6954.276	10.879	61°00'44.11"			
	50.000	2286.863	6959.123	10.948	61°00'44.11"			
	60.000	2295.611	6963.969	11.018	61°00'44.11"			
	70.000	2304.358	6968.815	11.087	61°00'44.11"			
	80.000	2313.105	6973.661	11.191	61°00'44.11"			
	90.000	2321.852	6978.508	11.345	61°00'44.11"			
100.000	2330.599	6983.354	11.550	61°00'44.11"				
110.000	2339.347	6988.200	11.807	61°00'44.11"				
120.000	2348.094	6993.046	12.102	61°00'44.11"				
TC	120.021	2348.113	6993.057	12.103	61°00'44.11"			
IP 2	128.357	2355.687	6997.253	12.351		R = 25,000	16.672	38°12'31.40"
CT	130.000	2357.564	6996.046	12.400	83°52'53.88"			
	136.693	2364.234	6995.865	12.599	99°13'15.51"			
	140.000	2367.498	6995.336	12.698	99°13'15.51"			
	150.000	2377.369	6993.733	12.996	99°13'15.51"			
	160.000	2387.240	6992.131	13.294	99°13'15.51"			
	170.000	2397.111	6990.528	13.592	99°13'15.51"			
	180.000	2406.982	6988.926	13.890	99°13'15.51"			
	190.000	2416.852	6987.323	14.189	99°13'15.51"			
	200.000	2426.723	6985.721	14.487	99°13'15.51"			
	210.000	2436.594	6984.119	14.787	99°13'15.51"			
	220.000	2446.465	6982.516	15.087	99°13'15.51"			
	230.000	2456.335	6980.914	15.391	99°13'15.51"			
	240.000	2466.206	6979.311	15.700	99°13'15.51"			
	250.000	2476.077	6977.709	16.014	99°13'15.51"			
	260.000	2485.948	6976.106	16.331	99°13'15.51"			
	270.000	2495.819	6974.504	16.647	99°13'15.51"			
	280.000	2505.689	6972.902	16.964	99°13'15.51"			
	290.000	2515.560	6971.299	17.280	99°13'15.51"			
	300.000	2525.431	6969.697	17.597	99°13'15.51"			
	310.000	2535.302	6968.094	17.913	99°13'15.51"			
	320.000	2545.172	6966.492	18.230	99°13'15.51"			
	330.000	2555.043	6964.889	18.547	99°13'15.51"			
	340.000	2564.914	6963.287	18.863	99°13'15.51"			
	350.000	2574.785	6961.685	19.180	99°13'15.51"			
	360.000	2584.656	6960.082	19.471	99°13'15.51"			
	370.000	2594.526	6958.480	19.692	99°13'15.51"			
	380.000	2604.397	6956.877	19.843	99°13'15.51"			
	390.000	2614.268	6955.275	19.924	99°13'15.51"			
	400.000	2624.139	6953.672	19.934	99°13'15.51"			
	410.000	2634.009	6952.070	19.873	99°13'15.51"			
420.000	2643.880	6950.468	19.743	99°13'15.51"				
430.000	2653.751	6948.865	19.542	99°13'15.51"				
440.000	2663.622	6947.263	19.274	99°13'15.51"				
450.000	2673.493	6945.660	19.035	99°13'15.51"				
460.000	2683.363	6944.058	19.012	99°13'15.51"				
470.000	2693.234	6942.455	19.084	99°13'15.51"				
480.000	2703.105	6940.853	19.156	99°13'15.51"				
IP 3	480.461	2703.560	6940.779	19.160	99°13'15.51"			

FAIRWAY STREET – CONTROL LINE SETOUT TABLE					
PT	CHAINAGE	EASTING	NORTHING	FSL HEIGHT	BEARING
IP 1	-13.000	2721.908	7053.800	21.268	189°13'15.46"
	-10.000	2721.427	7050.839	21.427	189°13'15.46"
	0.000	2719.825	7040.968	21.739	189°13'15.46"
	10.000	2718.222	7031.097	21.712	189°13'15.46"
	20.000	2716.620	7021.226	21.442	189°13'15.46"
	30.000	2715.017	7011.356	21.162	189°13'15.46"
	40.000	2713.415	7001.485	20.881	189°13'15.46"
	50.000	2711.813	6991.614	20.601	189°13'15.46"
	60.000	2710.210	6981.743	20.320	189°13'15.46"
	70.000	2708.608	6971.873	20.040	189°13'15.46"
IP 2	80.000	2707.005	6962.002	19.759	189°13'15.46"
	90.000	2705.403	6952.131	19.479	189°13'15.46"
	100.000	2703.800	6942.260	19.198	189°13'15.46"
	101.500	2703.560	6940.779	19.156	
	110.000	2702.198	6932.389	18.918	189°13'15.11"
	120.000	2700.596	6922.519	18.681	189°13'15.11"
	130.000	2698.993	6912.648	18.517	189°13'15.11"
	140.000	2697.391	6902.777	18.413	189°13'15.11"
	150.000	2695.788	6892.906	18.315	189°13'15.11"
	160.000	2694.186	6883.036	18.217	189°13'15.11"
	170.000	2692.584	6873.165	18.119	189°13'15.11"
	180.000	2690.981	6863.294	18.021	189°13'15.11"
	190.000	2689.379	6853.423	17.923	189°13'15.11"
	200.000	2687.776	6843.552	17.832	189°13'15.11"
	210.000	2686.174	6833.682	17.774	189°13'15.11"
	220.000	2684.572	6823.811	17.754	189°13'15.11"
	230.000	2682.969	6813.940	17.770	189°13'15.11"
	240.000	2681.367	6804.069	17.822	189°13'15.11"
	250.000	2679.764	6794.199	17.904	189°13'15.11"
	260.000	2678.162	6784.328	17.989	189°13'15.11"
270.000	2676.560	6774.457	18.074	189°13'15.11"	
280.000	2674.957	6764.586	18.158	189°13'15.11"	
290.000	2673.355	6754.715	18.243	189°13'15.11"	
300.000	2671.752	6744.845	18.328	189°13'15.11"	

FSL HEIGHT INDICATED IN TABLES,
NOT SUBGRADE LEVEL



planning | environment | landscape | engineering | survey
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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA**
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL

Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE
ROAD CONTROL LINE
SETOUT TABLES SHEET
2 OF 3

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MC	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MJ	
A	20-12-2019	ORIGINAL ISSUE	JG	MJ	
Issue	Date	Description	DRN	CH	

SCALE IN METRES

NOT APPLICABLE

Scale at A1: NOT APPLICABLE

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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RPEQ:	16939
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Signed: 

Date:	19-08-2020
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Drawing No:	Rev. No:
5941 ENG BE1 403	C

EMERI STREET EXTENSION – CONTROL LINE SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	FSL HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2437.631	6983.950	14.818	9°13'15.46"			
	10.000	2439.234	6993.821	14.689	9°13'15.46"			
	20.000	2440.836	7003.692	14.560	9°13'15.46"			
	30.000	2442.438	7013.562	14.524	9°13'15.46"			
	40.000	2444.041	7023.433	14.799	9°13'15.46"			
	50.000	2445.643	7033.304	15.166	9°13'15.46"			
	60.000	2447.246	7043.175	15.534	9°13'15.46"			
	70.000	2448.848	7053.046	15.902	9°13'15.46"			
	80.000	2450.451	7062.916	16.270	9°13'15.46"			
	90.000	2452.053	7072.787	16.637	9°13'15.46"			
	100.000	2453.655	7082.658	16.922	9°13'15.46"			
IP 2	100.500	2453.735	7083.151	16.931				
TC	108.617	2455.036	7091.164	17.010	9°13'18.14"			
	110.000	2455.305	7092.520	17.010	13°10'58.86"			
IP 3	116.386	2456.348	7099.243	16.964		R = 20.000	15.538	44°30'49.22"
	120.000	2459.875	7101.297	16.902	41°49'51.26"			
CT	124.155	2462.948	7104.085	16.800	53°44'07.36"			
IP 4	125.961	2464.403	7105.153	16.745	53°44'07.36"			

FSL HEIGHT INDICATED IN TABLES,
NOT SUBGRADE LEVEL

Client:



Project: VANTAGE YATALA STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:
Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
ROAD CONTROL LINE
SETOUT TABLES SHEET
3 OF 3

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS			BA MG
B	20-02-2020	INFORMATION REQUEST RESPONSE			IG MG
A	20-12-2019	ORIGINAL ISSUE			JRG MG
Issue	Date	Description			DRN CHK

SCALE IN METRES
NOT APPLICABLE

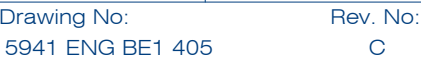
Scale at A1:		NOT APPLICABLE
Designed:	IG	
Drafted:	JRG	
Approved:	MG	
RPEQ:	16939	
Signed:		
Date:	19-08-2020	

Drawing No: 5941 ENG BE1 404
Rev. No: C



SWALE DRAIN CONTROL LINE SETOUT TABLES

CONTROL LINE SETOUT TABLE – SWALE DRAIN C								
PT	CHAINAGE	EASTING	NORTHING	FSL HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2706.571	6820.143	14.476	99°13'15.46"			
	10.000	2716.442	6818.541	14.376	99°13'15.46"			
	20.000	2726.312	6816.938	14.276	99°13'15.46"			
	30.000	2736.183	6815.336	14.176	99°13'15.46"			
	40.000	2746.054	6813.733	14.076	99°13'15.46"			
	50.000	2755.925	6812.131	13.976	99°13'15.46"			
	60.000	2765.796	6810.528	13.876	99°13'15.46"			
	70.000	2775.666	6808.926	13.776	99°13'15.46"			
	80.000	2785.537	6807.324	13.676	99°13'15.46"			
	90.000	2795.408	6805.721	13.576	99°13'15.46"			
	100.000	2805.279	6804.119	13.476	99°13'15.46"			
	110.000	2815.149	6802.516	13.376	99°13'15.46"			
	120.000	2825.020	6800.914	13.276	99°13'15.46"			
	130.000	2834.891	6799.311	13.176	99°13'15.46"			
IP 2	135.587	2840.406	6798.416	13.120	99°13'15.46"			



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)
VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)

DATUM RL = 1.000

FINISHED SURFACE LEVEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

ISSUED FOR APPROVAL
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
HOMESTEAD DRIVE
LONGITUDINAL SECTION
SHEET 1 OF 3

Issue	Date	Description	DRN	CHK
C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:50 - Lengths are in Metres.
VERT: 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

Scale at A1: AS SHOWN

Designed: IG

Drafted: JRG

Approved: MG

RPEQ: 16939

Signed:

Date: 19-08-2020

Drawing No:
5941 ENG BE1 410

Rev. No:
C



Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

RPD:
 lot: 501, 4
 Plan: SP295994, RP6843
 Local Authority: CITY OF GOLD COAST
 COUNCIL
 Level Datum: AHD
 Meridian: -
 Contour Interval: -
 DSM: -
 L: -

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DRAWING TITLE
ROAD LONGITUDINAL
SECTION - HOMESTEAD DRIVE
SHEET 2 OF 3

19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA
20-02-2020	INFORMATION REQUEST RESPONSE	IG
20-12-2019	ORIGINAL ISSUE	JRG
Date	Description	DRN

SCALE IN METRES

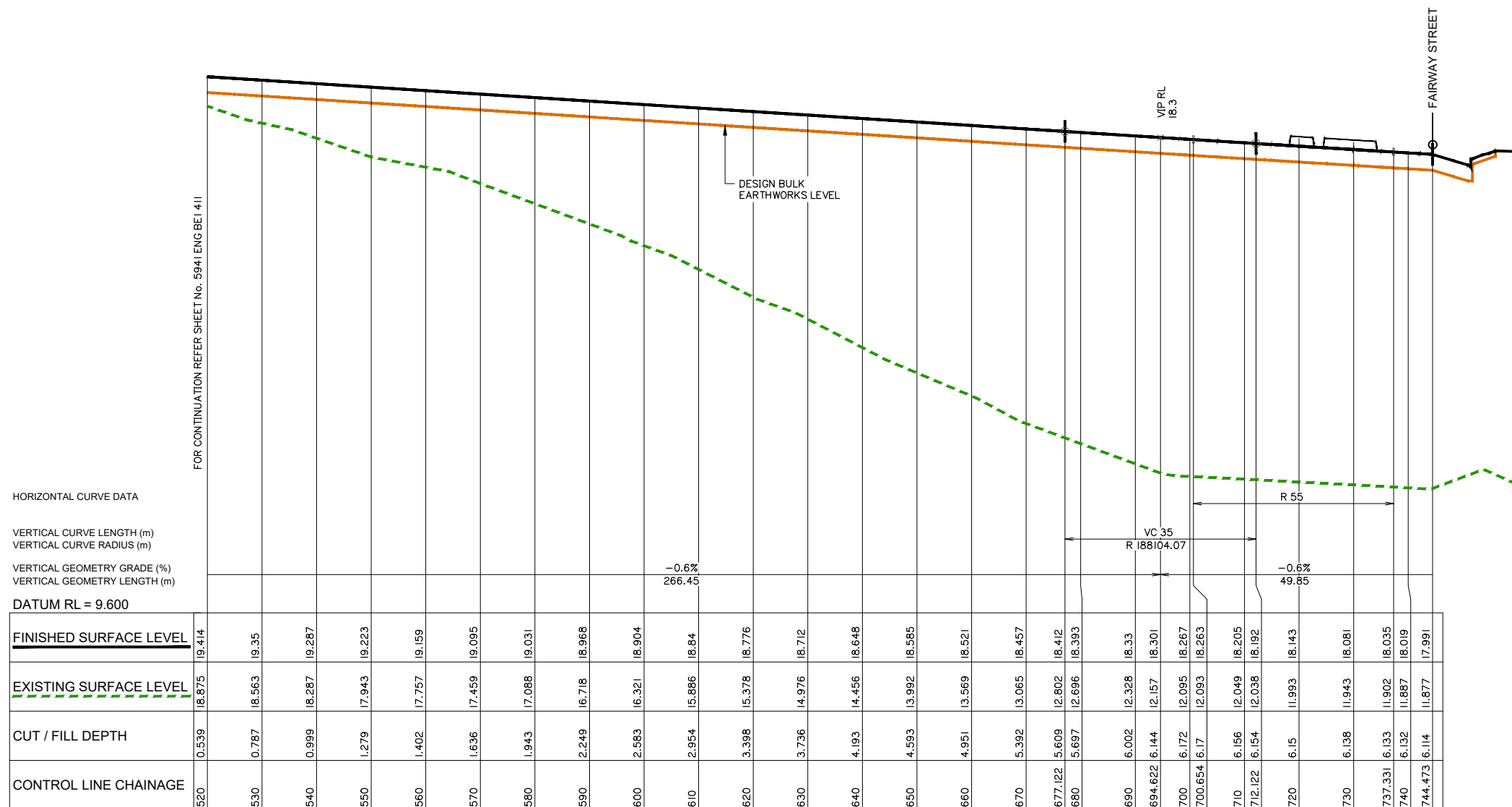
Scale 1:500 - Lengths are in Metres.

HOZ: 

VERT: 

Designed:	IG
Drafted:	JRG
Approved:	MG
PEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. N
041 ENG BE1 412	C



HOMESTEAD DRIVE LONGITUDINAL SECTION SHEET 3 OF 3



Project: **VANTAGE YATALA** 
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:
 Lot: 501, 4
 Plan: SP295994, RP6843
 Local Authority: CITY OF GOLD COAST
 COUNCIL
 Level Datum: AHD
 Meridian: -
 Contour Interval: -
 DSM: -
 L: -

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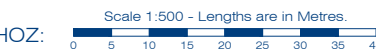
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DRAWING TITLE
EASTRIDGE STREET
LONGITUDINAL SECTION
SHEET 1 OF 2

19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA
20-02-2020	INFORMATION REQUEST RESPONSE	IG
20-12-2019	ORIGINAL ISSUE	JRG
Date	Description	DRN

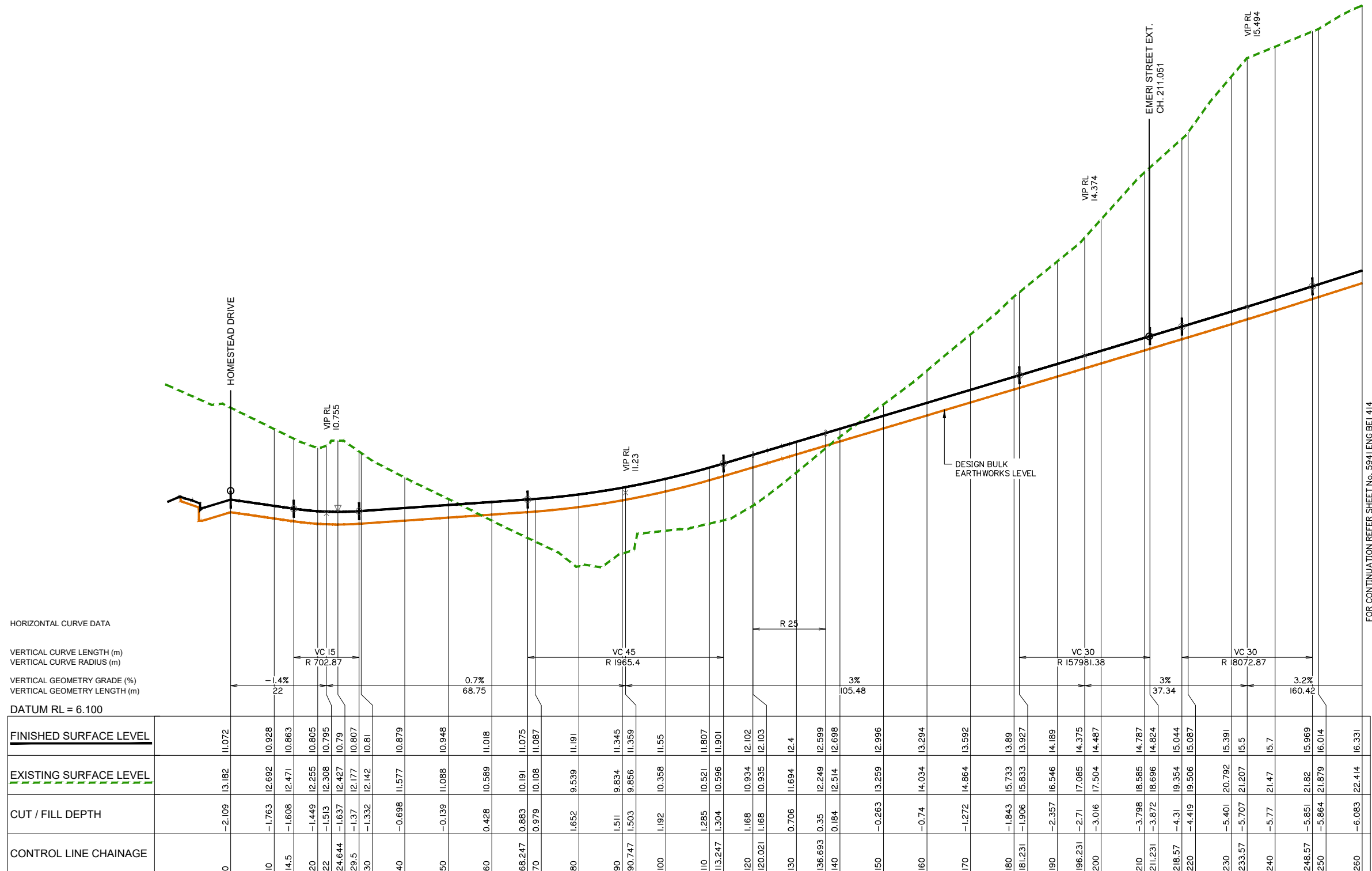
SCALE IN METRES



Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
PEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. N
041 ENG BE1 413	C



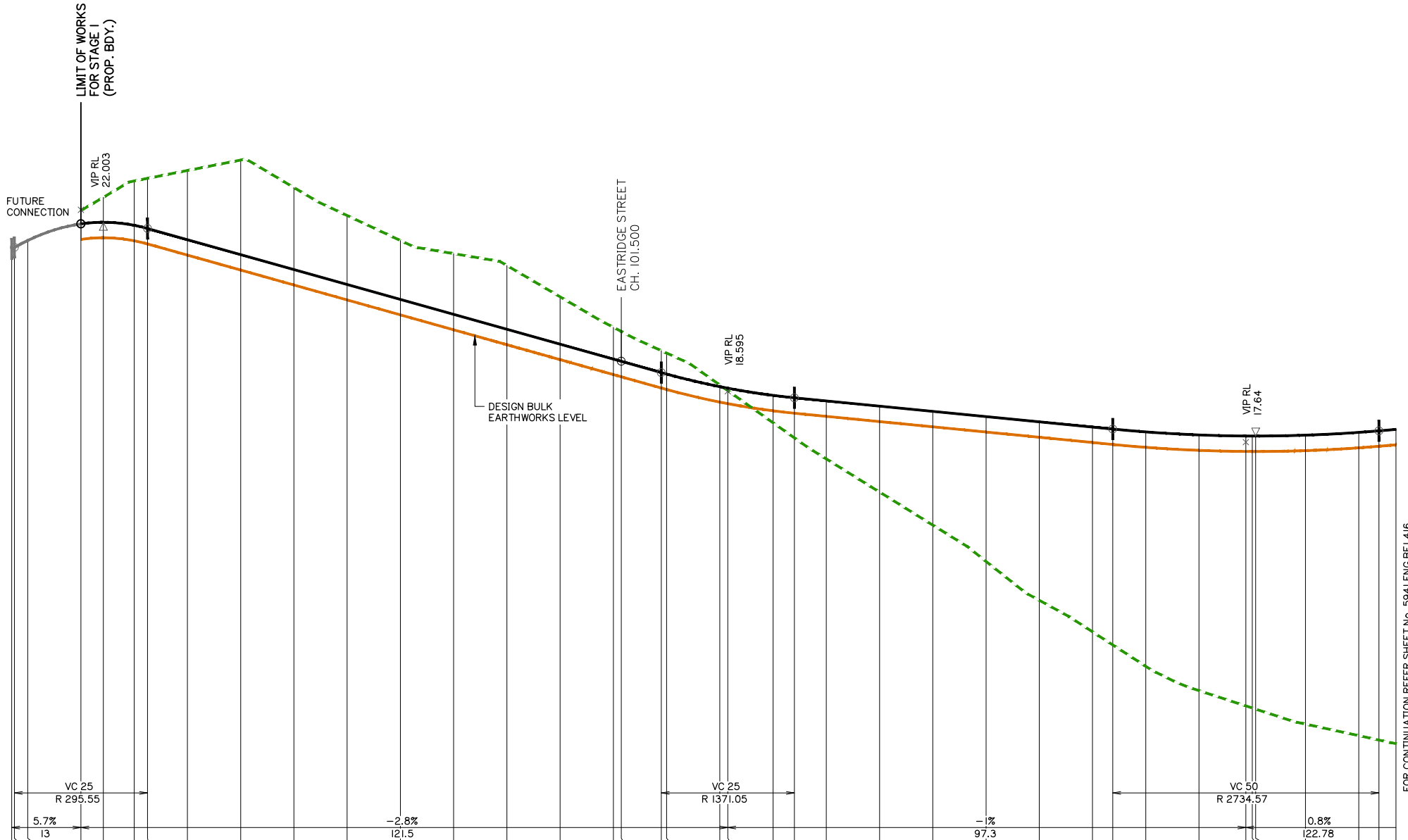
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HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)
VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)

DATUM RL = 9.700

FINISHED SURFACE LEVEL	21.268	21.296	21.427	21.739	21.769	21.712	21.652	21.442	21.162	20.881	20.601	20.32	20.04	19.759	19.479	19.198	19.156	18.946	18.918	18.681	18.652	18.517	18.472	18.413	18.315	18.217	18.119	18.021	17.923	17.885	17.832	17.774	17.754	17.754	17.754	17.77	17.822	17.852	17.879
EXISTING SURFACE LEVEL					22.238	22.544	22.594	22.741	22.938	22.421	21.896	21.427	21.18	20.956	20.369	19.797	19.717	19.357	19.312	18.712	18.606	18.003	17.719	17.323	16.702	16.081	15.399	14.668	14.077	13.831	13.429	12.972	12.685	12.646	12.625	12.344	12.126	12.043	11.977
CUT / FILL DEPTH					-0.469	-0.832	-0.941	-1.299	-1.776	-1.54	-1.295	-1.107	-1.14	-1.197	-0.89	-0.598	-0.561	-0.412	-0.394	-0.031	0.046	0.515	0.753	1.09	1.613	2.137	2.72	3.352	3.846	4.055	4.402	4.802	5.069	5.108	5.129	5.426	5.696	5.808	5.902
CONTROL LINE CHAINAGE	-13	-12.5	-10	0	4.21	10	12.5	20	30	40	50	60	70	80	90	100	101.5	109	110	120	121.5	130	134	140	150	160	170	180	190	193.8	200	210	218.8	220	220.64	230	240	243.8	247



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
FAIRWAY STREET
LONGITUDINAL SECTION
SHEET 1 OF 2

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

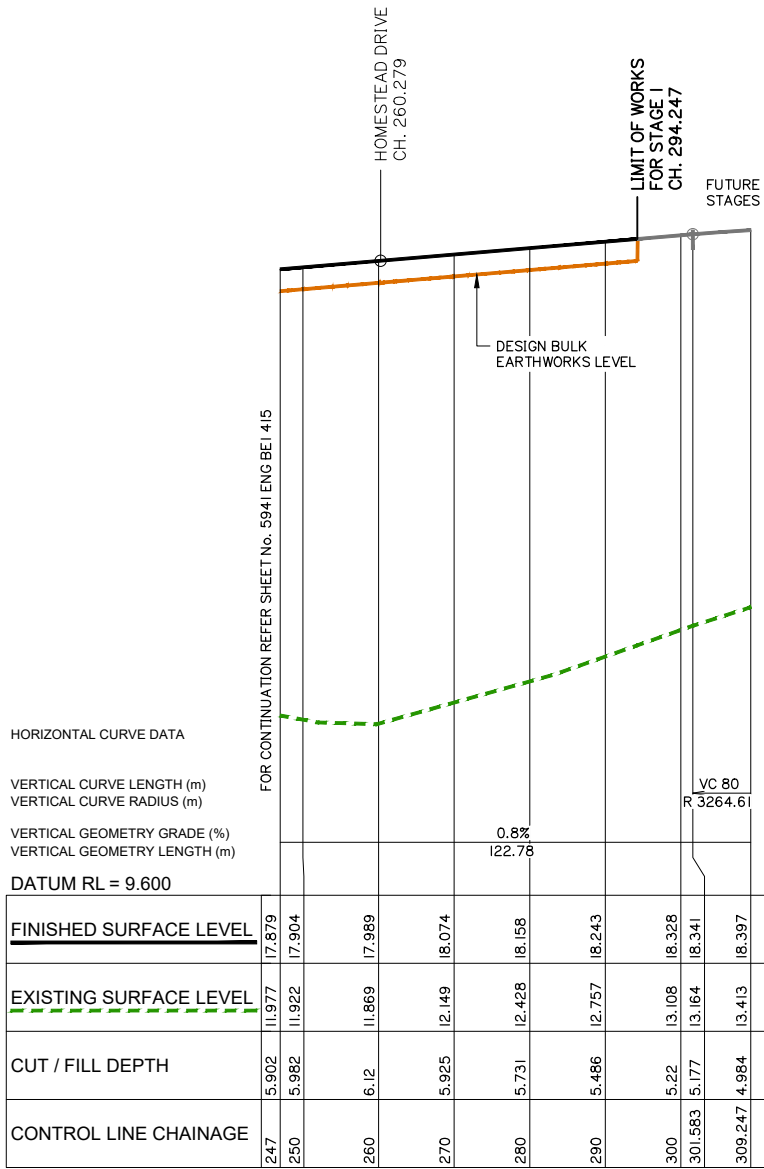
SCALE IN METRES

Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40
Scale 1:50 - Lengths are in Metres.
VERT: 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 415
Rev. No: C



Client:



FRASERS PROPERTY
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Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
FAIRWAY STREET
LONGITUDINAL SECTION
SHEET 2 OF 2

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

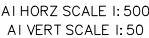
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

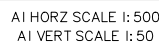
Scale 1:50 - Lengths are in Metres.
VERT: 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 416
Rev. No: C





Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VANTAGE YATALA**
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE

SWALE DRAIN B LONGITUDINAL SECTION

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:50 - Lengths are in Metres.
VERT: 0 0.5 1 1.5 2 2.5 3 3.5 4

Scale at A1: **AS SHOWN**

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:
5941 ENG BE1 420

Rev. No:
C

HORIZONTAL CURVE DATA

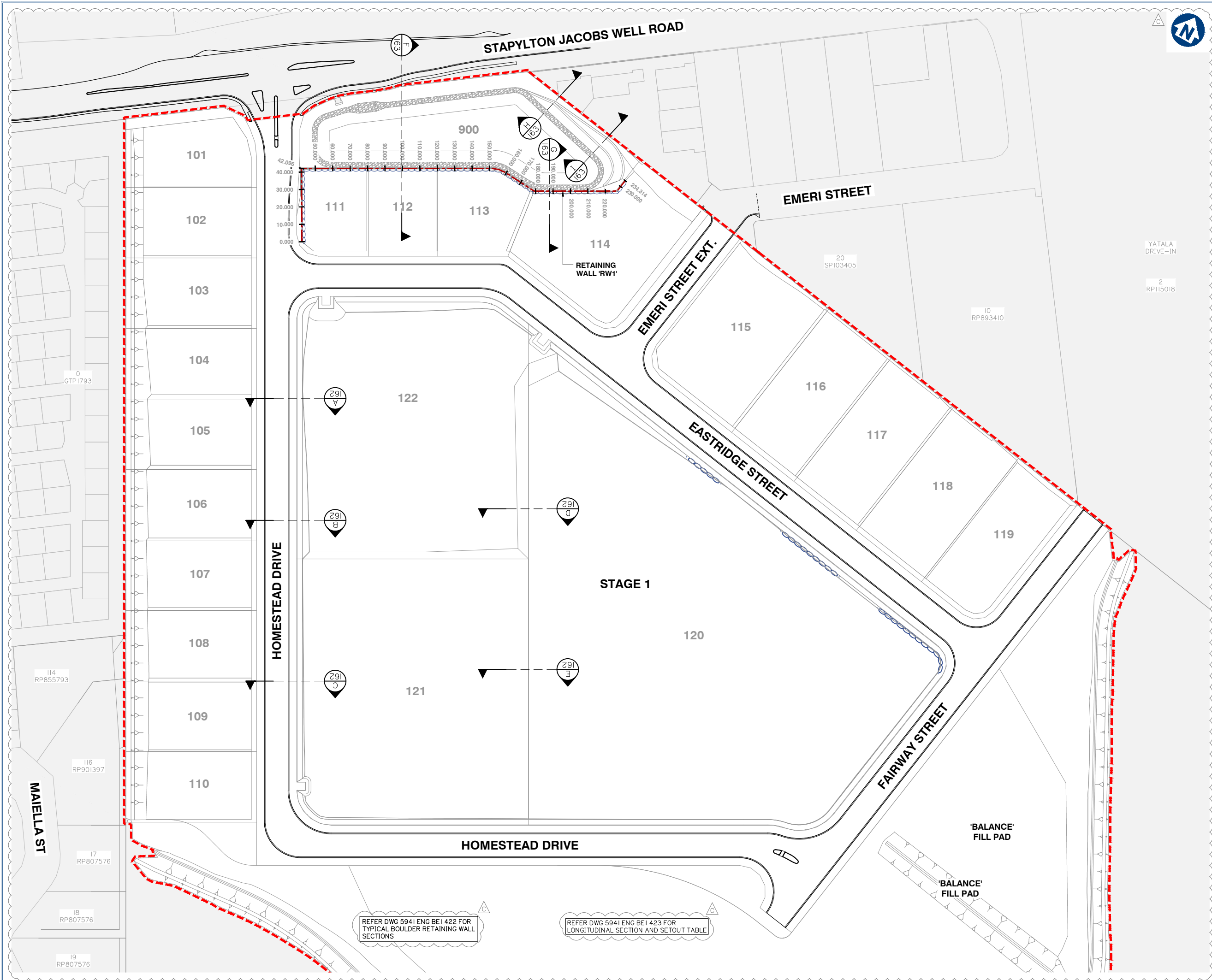
VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)
VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)

DATUM RL = 6.000

FINISHED SURFACE LEVEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</
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SWALE DRAIN B LONGITUDINAL SECTION

A1 HORZ SCALE 1: 500
A1 VERT SCALE 1: 50



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STAGE 1

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ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
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DRAWING TITLE
BOULDER RETAINING
WALL CONTROL LINE
LAYOUT PLAN

Issue	Date	Description	DRN	CHK
C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG

SCALE IN METRES



1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

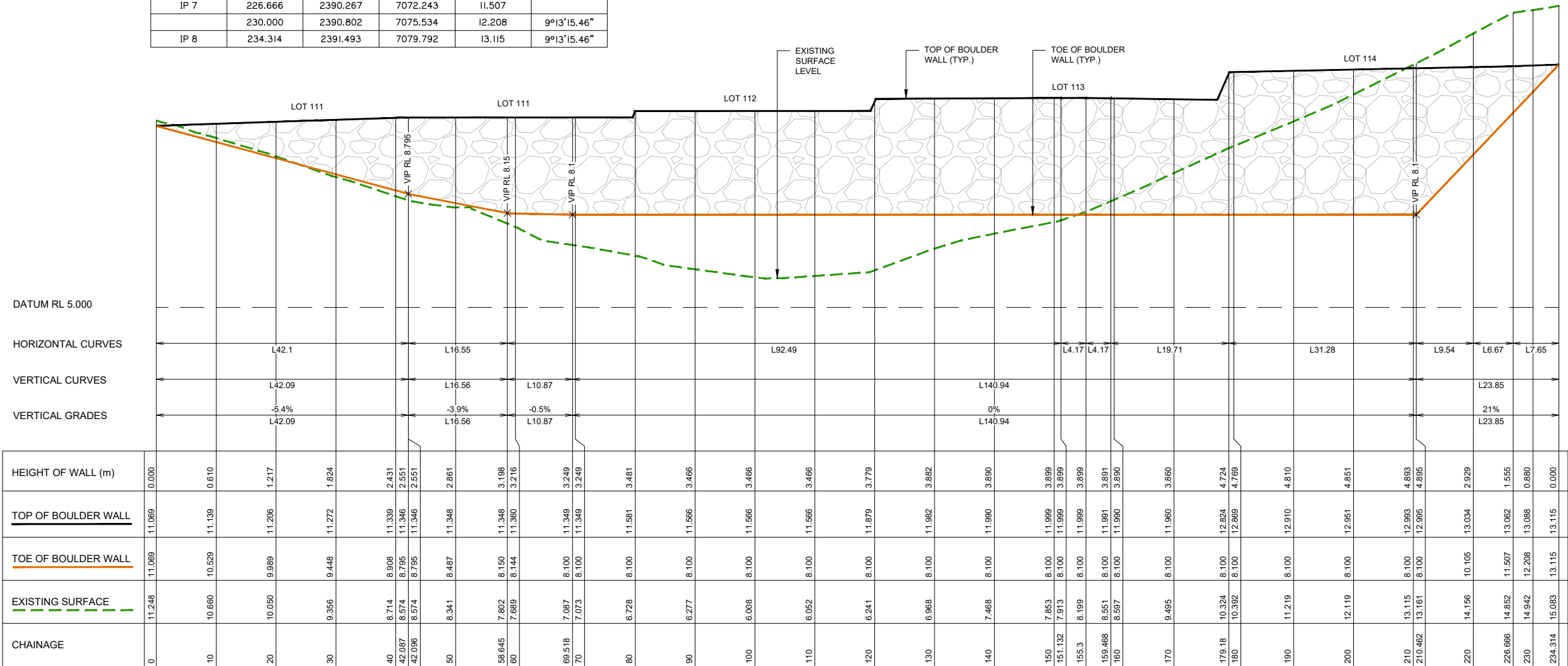
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:
5941 ENG BE1 421

Rev. No:
C

BOULDER RETAINING WALL CONTROL LINE LAYOUT PLAN

HORIZONTAL GEOMETRY - SETOUT TABLE - RETAINING WALL 'RW1'					
PT	CHAINAGE	EASTING	NORTHING	TOE HEIGHT	BEARING
IP 1	0.000	2246.208	6959.239	11.069	330°44'33.22"
	10.000	2241.320	6967.963	10.529	330°44'33.22"
	20.000	2236.433	6976.687	9.989	330°44'33.22"
	30.000	2231.546	6985.412	9.448	330°44'33.22"
IP 2	40.000	2226.658	6994.136	8.908	330°44'33.22"
	42.096	2225.634	6995.965	8.795	
	50.000	2232.548	6999.795	8.487	61°00'47.00"
	60.000	2241.295	7004.641	8.144	61°00'47.00"
	70.000	2250.042	7009.487	8.100	61°00'47.00"
	80.000	2258.789	7014.333	8.100	61°00'47.00"
	90.000	2267.537	7019.179	8.100	61°00'47.00"
	100.000	2276.284	7024.026	8.100	61°00'47.00"
	110.000	2285.031	7028.872	8.100	61°00'47.00"
	120.000	2293.779	7033.718	8.100	61°00'47.00"
	130.000	2302.526	7038.564	8.100	61°00'47.00"
	140.000	2311.273	7043.410	8.100	61°00'47.00"
IP 3	150.000	2320.021	7048.256	8.100	61°00'47.00"
	151.132	2321.011	7048.805	8.100	
IP 4	155.300	2324.908	7050.281	8.100	
IP 5	159.468	2329.065	7050.592	8.100	
	160.000	2329.596	7050.555	8.100	93°57'36.78"
IP 6	170.000	2339.572	7049.865	8.100	93°57'36.78"
	179.180	2348.730	7049.231	8.100	
	180.000	2349.447	7049.628	8.100	61°00'47.00"
	190.000	2358.194	7054.474	8.100	61°00'47.00"
	200.000	2366.942	7059.320	8.100	61°00'47.00"
	210.000	2375.689	7064.166	8.100	61°00'47.00"
IP 7	220.000	2384.436	7069.012	10.105	61°00'47.00"
	226.666	2390.267	7072.243	11.507	
	230.000	2390.802	7075.534	12.208	9°13'15.46"
	IP 8	234.314	2391.493	7079.792	13.115



RETAINING WALL 'RW1' - LONGITUDINAL SECTION

A1 HORZ SCALE 1:400
A1 VERT SCALE 1:80

BOULDER RETAINING WALL LONGITUDINAL SECTION

MAXIMUM HEIGHT OF WALL: 4.895m

FACE AREA: 750m2



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Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
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DRAWING TITLE
BOULDER RETAINING
WALL LONGITUDINAL
SECTION

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



HOR. 1:400 (FULL SIZE A1)
VER. 1:80 (FULL SIZE A1)

Scale at A1: AS NOTED

Designed:

IG

Drafted:

JRG

Approved:

MG

RPEQ:

16939

Signed:

Date:

19-08-2020

Drawing No:
5941 ENG BE1 427

Rev. No:
C



Project: **VANTAGE YATALA**
STAGE 1

60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
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 DRAWING TITLE
HOMESTEAD DRIVE BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	M
B	20-02-2020	INFORMATION REQUEST RESPONSE	JQ	M
A	20-12-2019	ORIGINAL ISSUE	JRG	M
Issue	Date	Description	DRN	CH

Scale 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

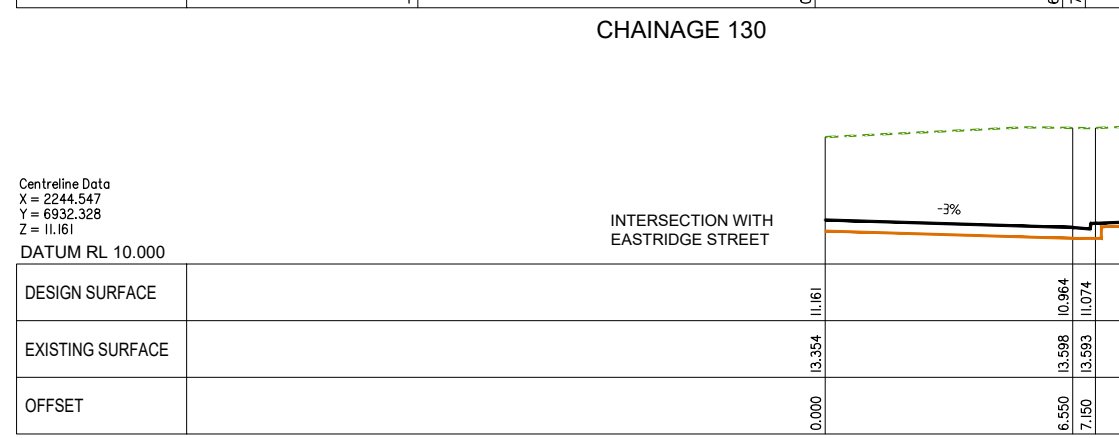
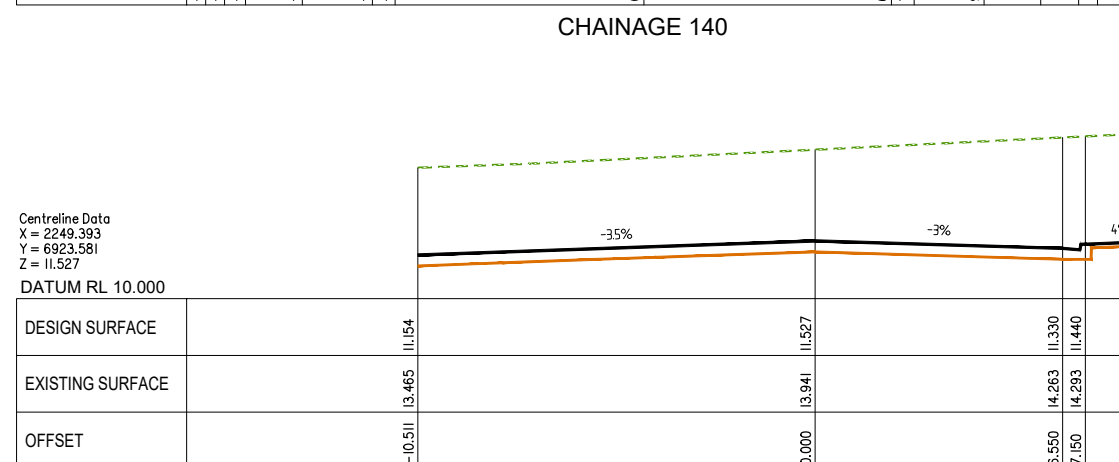
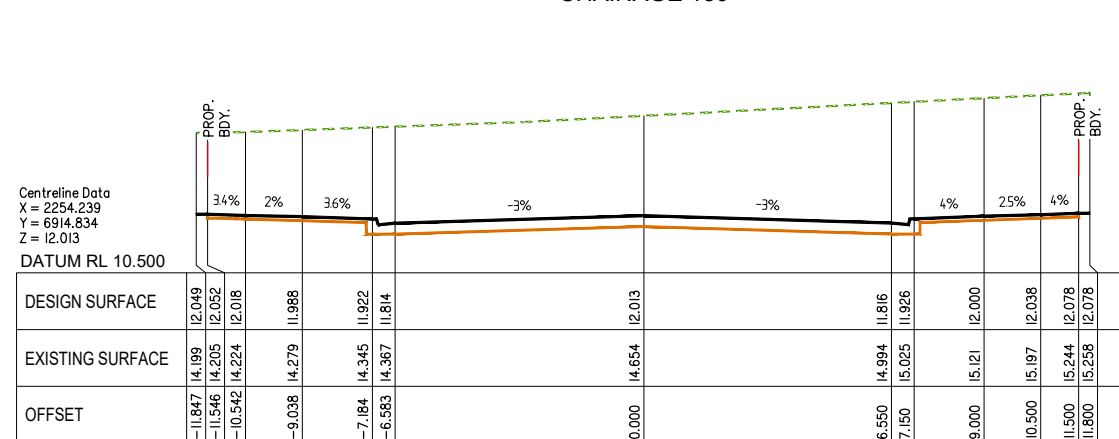
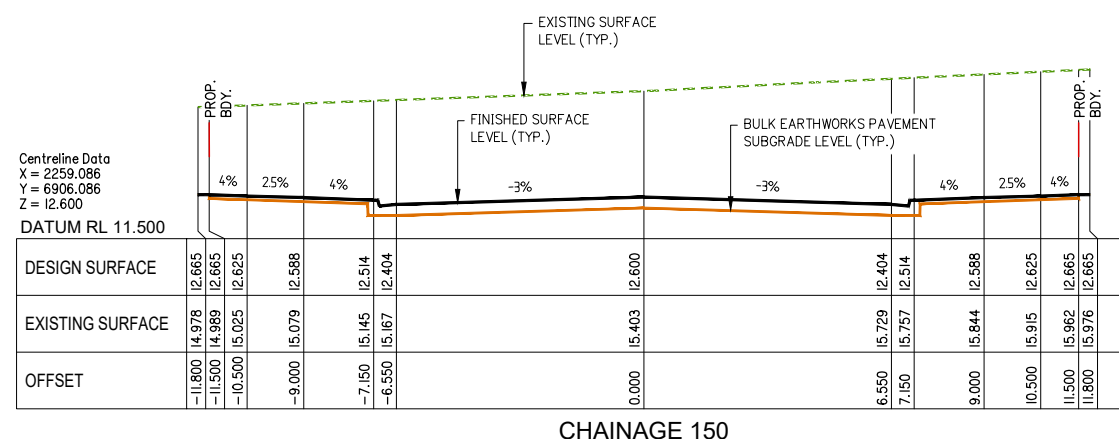
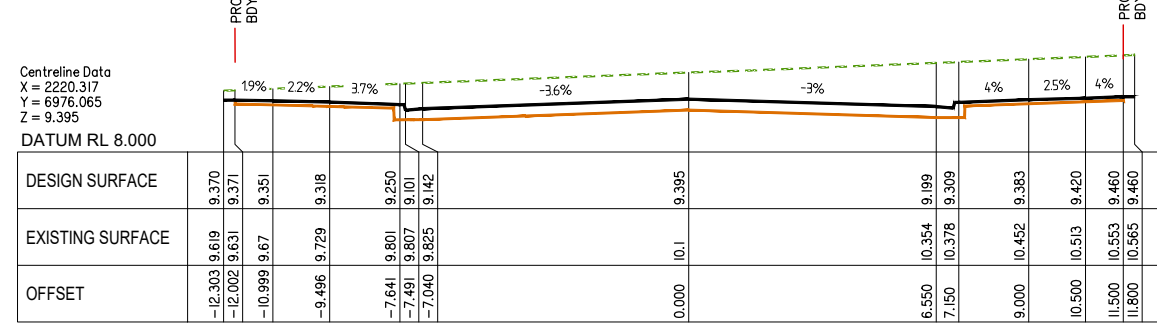
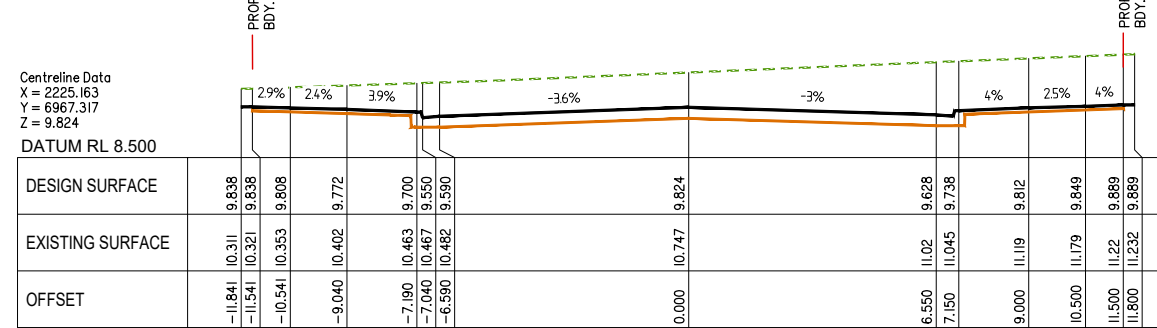
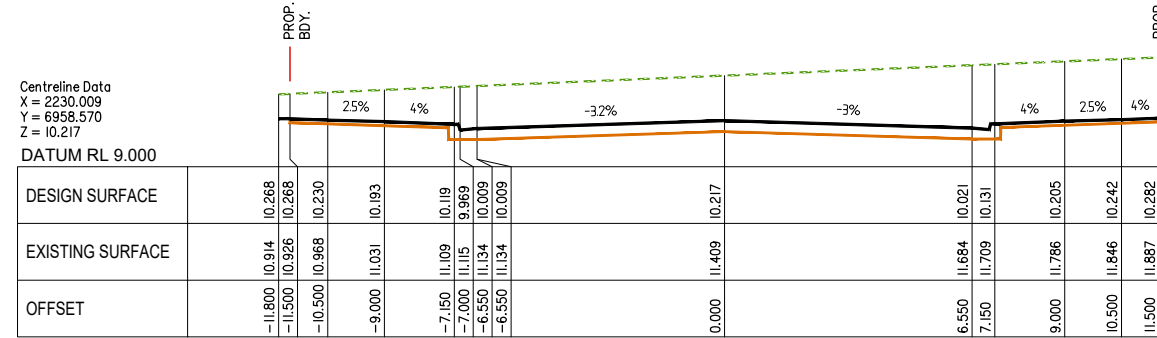
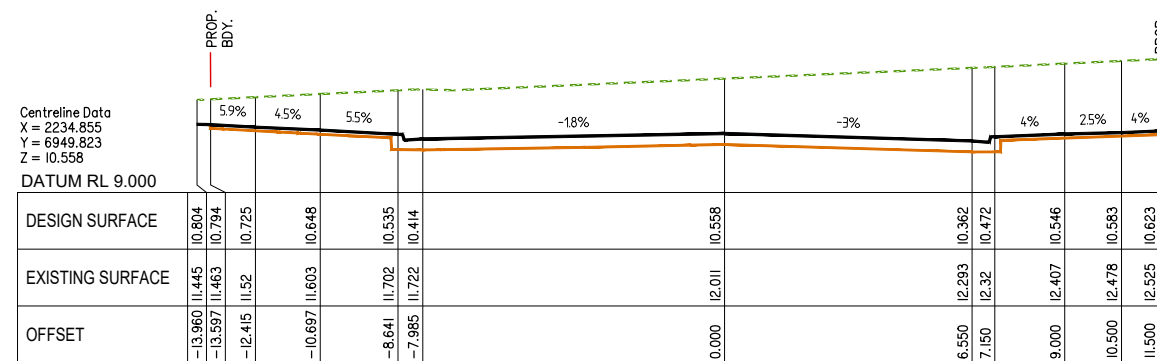
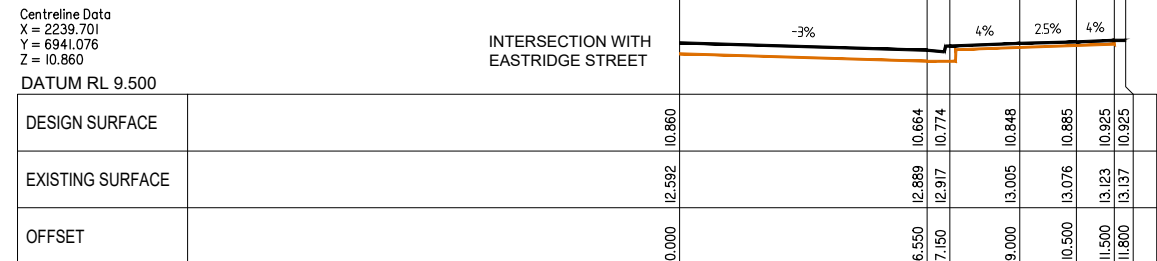
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RPEQ:	16939
Signed:	
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HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11

AI HORIZ SCALE 1:100
AI VERT SCALE 1:100



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STAGE 1

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SECTIONS SHEET 2 OF 11

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B	20-02-2020	INFORMATION REQUEST RESPONSE			IG
A	20-12-2019	ORIGINAL ISSUE			JRG
Issue	Date	Description			DRN

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ: 

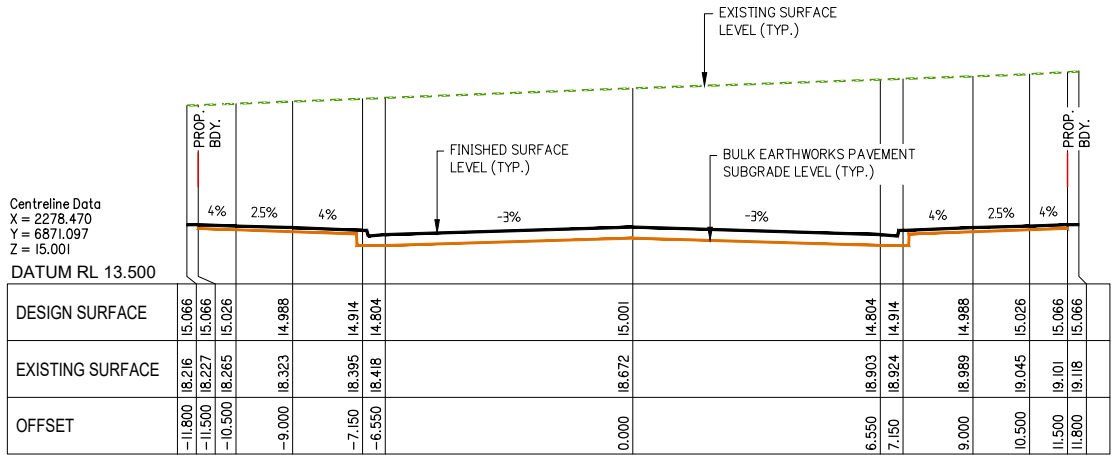
Scale 1:100 - Lengths are in Metres.

VERT: 

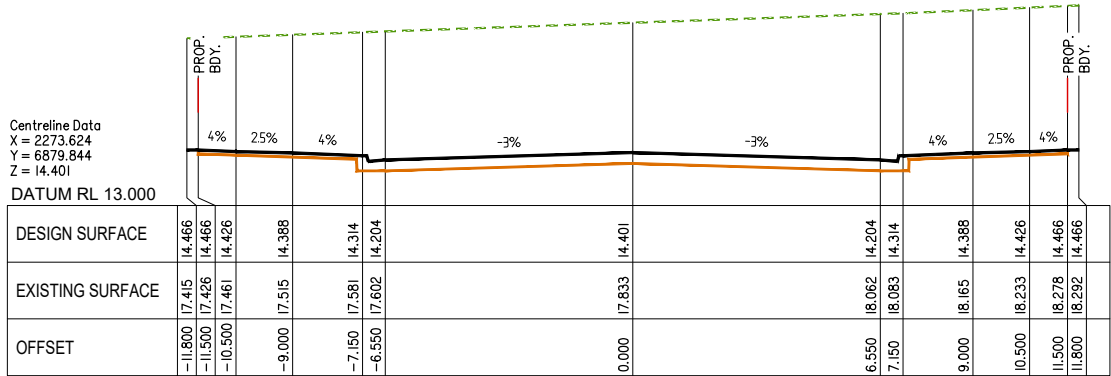
Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
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Date:	19-08-2020

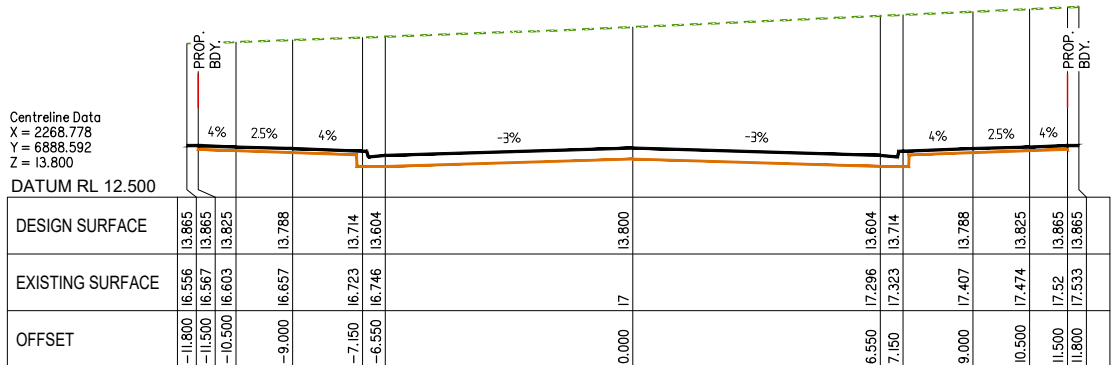
Drawing No:	Rev. No:
5941 ENG BE1 431	C



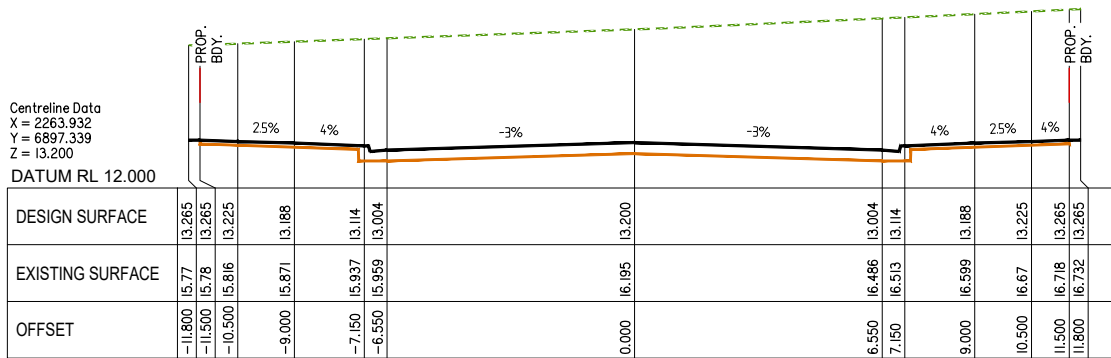
CHAINAGE 190



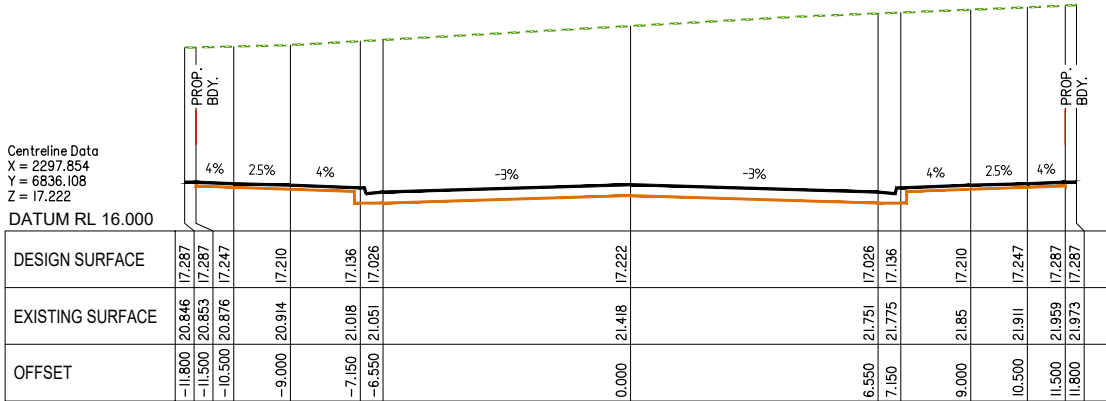
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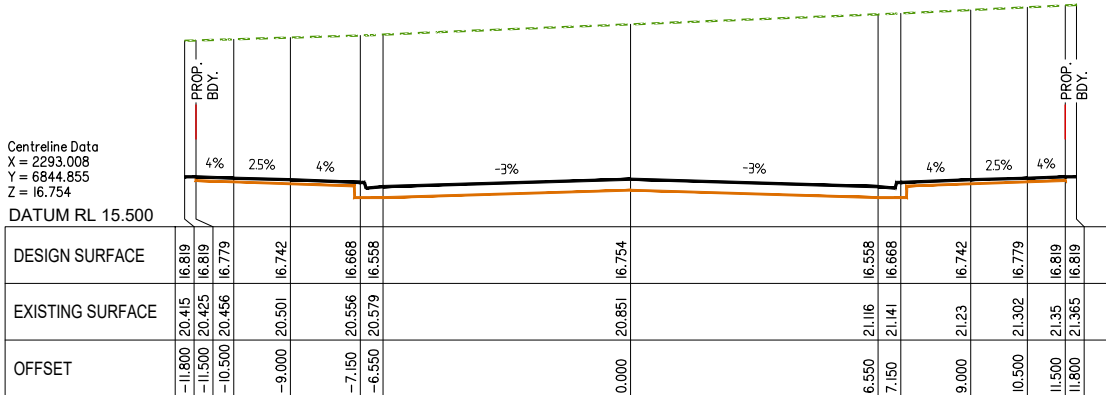
CHAINAGE 170



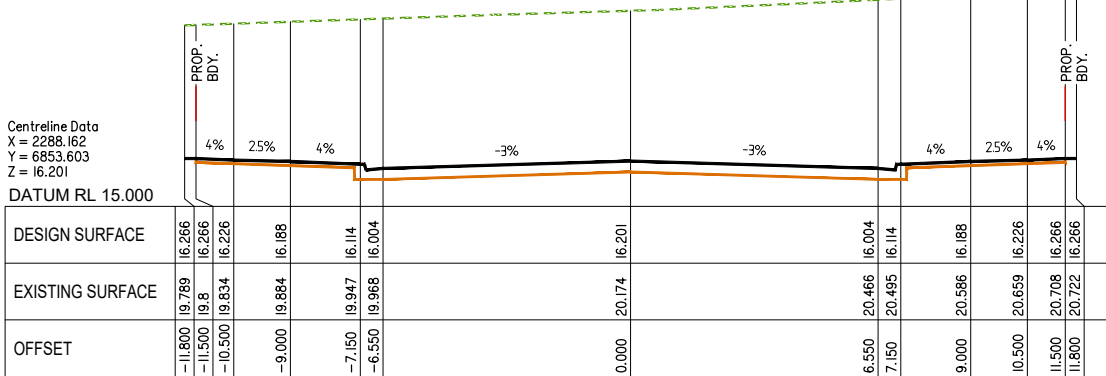
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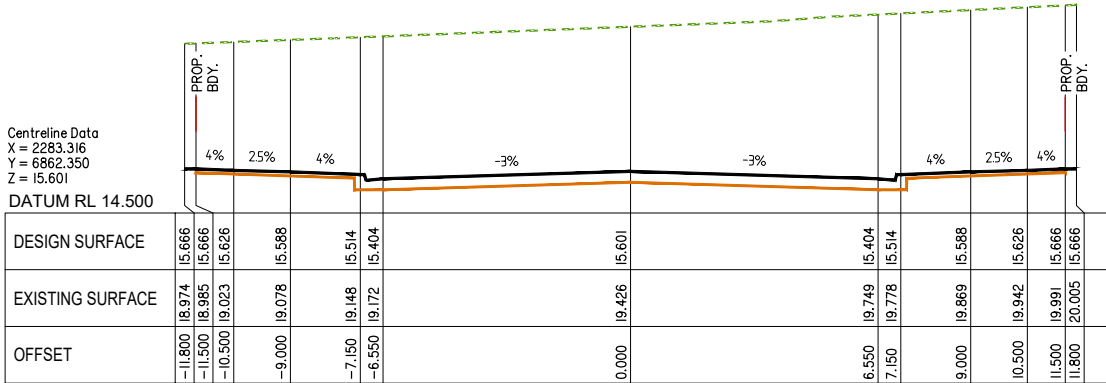
CHAINAGE 230



CHAINAGE 220



CHAINAGE 210



CHAINAGE 200

HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11

AT HORZ SCALE 1:100
AI VERT SCALE 1:100

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Issue	Date	Description	DRN	CHK

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HOZ: 0 1 2 3 4 5 6 7 8

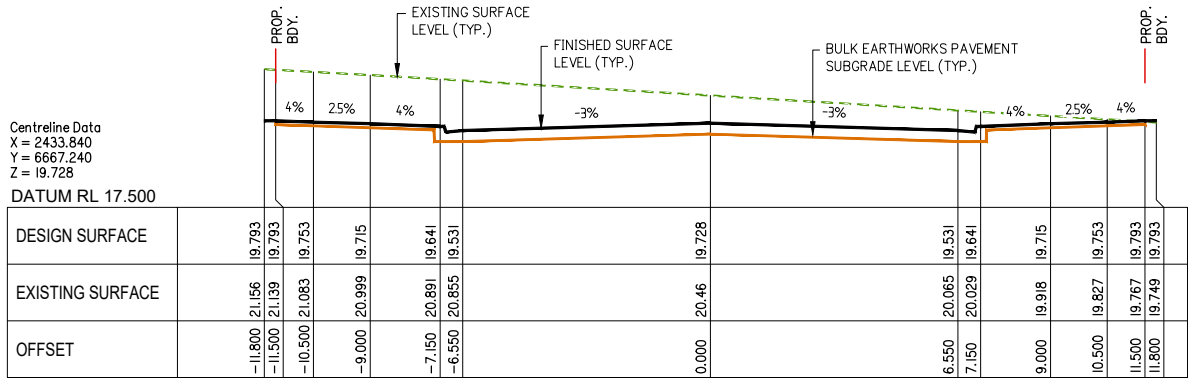
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VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: **AS SHOWN**

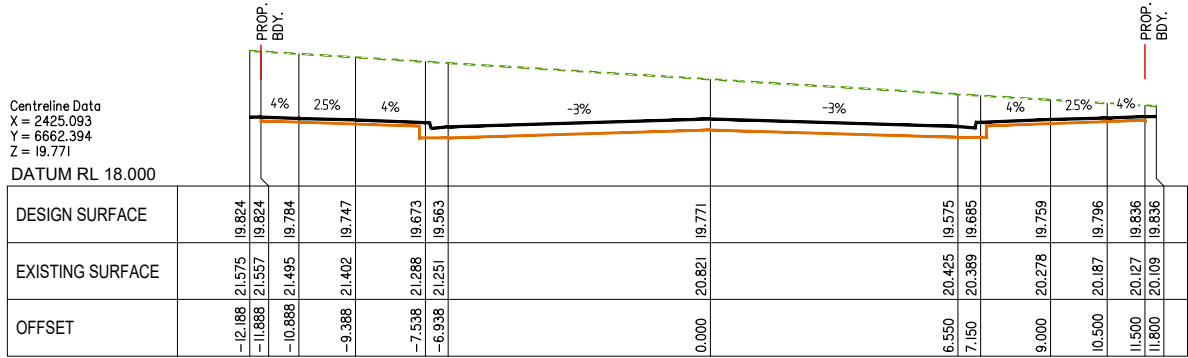
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: **5941 ENG BE1 432** Rev. No: **C**

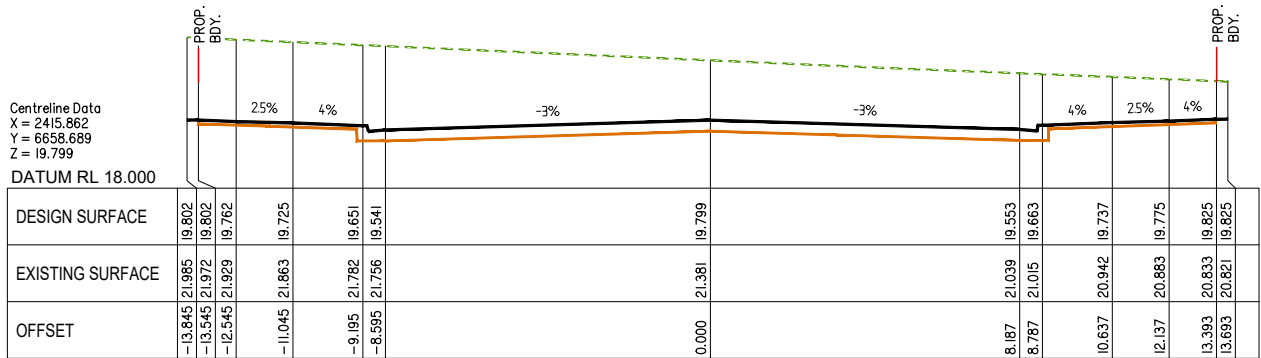
G:\Projects\5941\ENGINEERING\Acad\BE1 OGL\Current\5941 ENG BE1 430-440.dwg



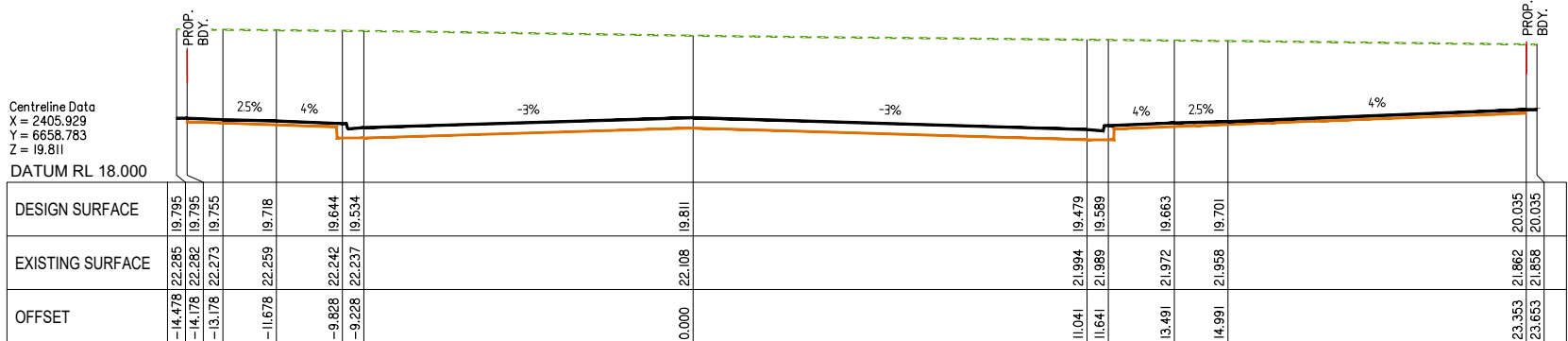
CHAINAGE 470



CHAINAGE 460



CHAINAGE 450



CHAINAGE 440

HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11

AT HORZ SCALE 1:100
AT VERT SCALE 1:100



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Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
HOMESTEAD DRIVE BULK
EARTHWORKS CROSS
SECTIONS SHEET 7 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 436
Rev. No: C

Drawing No:	Rev. No:
5941 ENG BE1 439	C



Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
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 DRAWING TITLE
HOMESTEAD DRIVE BULK
EARTHWORKS CROSS
SECTIONS SHEET 11 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG
A	20-12-2019	ORIGINAL ISSUE	JRG
Issue	Date	Description	DRN

VERT:

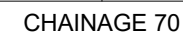
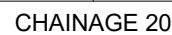
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. N
5941 ENG BE1 440	C



HOMESTEAD DRIVE BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11

AI HORZ SCALE 1:100
AI VERT SCALE 1:100



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Project: **VANTAGE YATALA** 
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL

Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RI: -

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DRAWING TITLE
EASTRIDGE STREET BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 OF 6

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	JG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ:

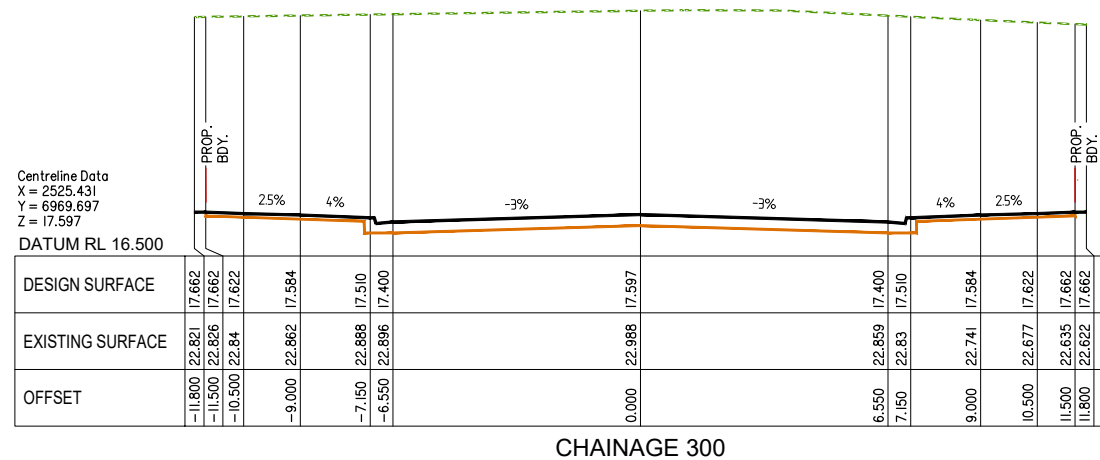
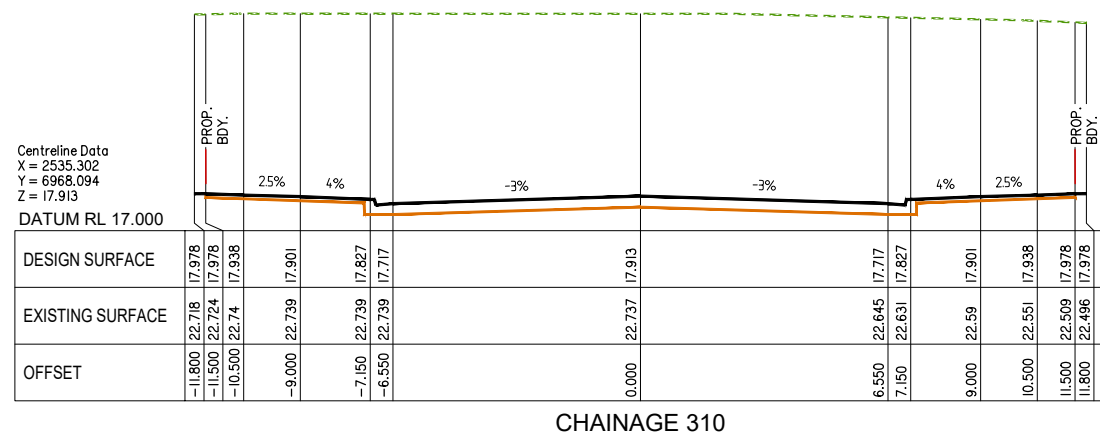
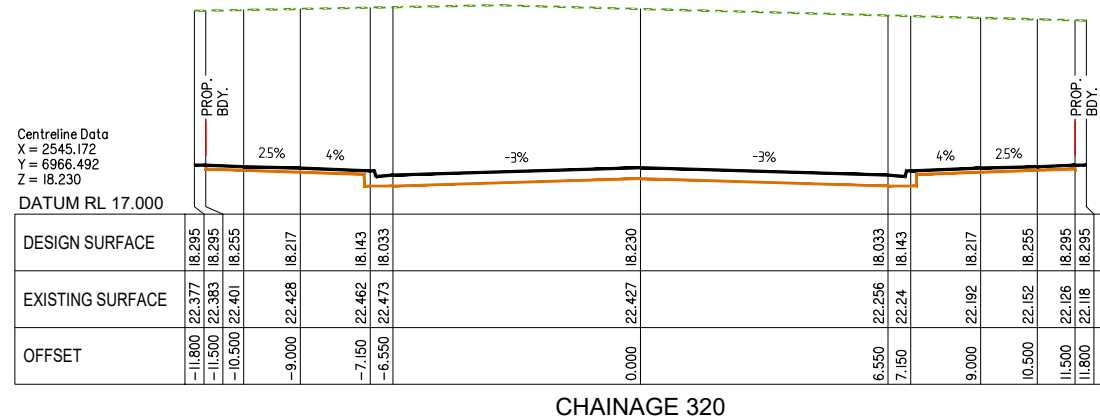
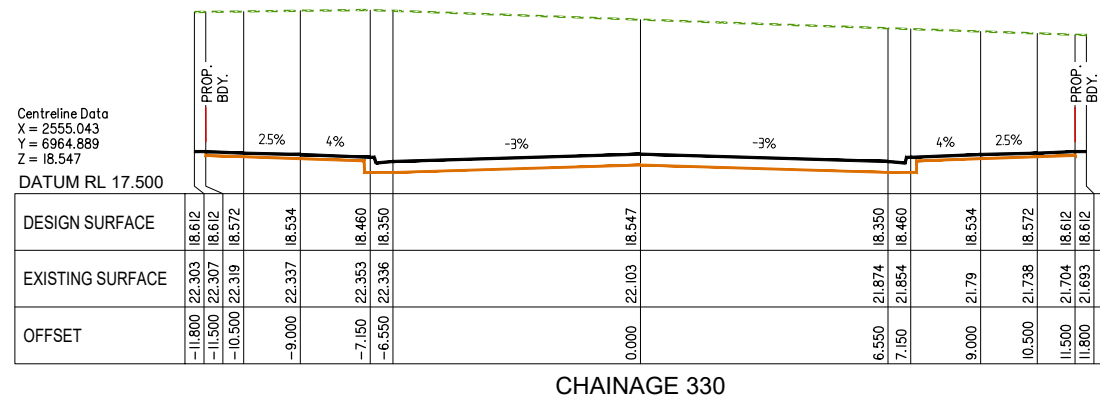
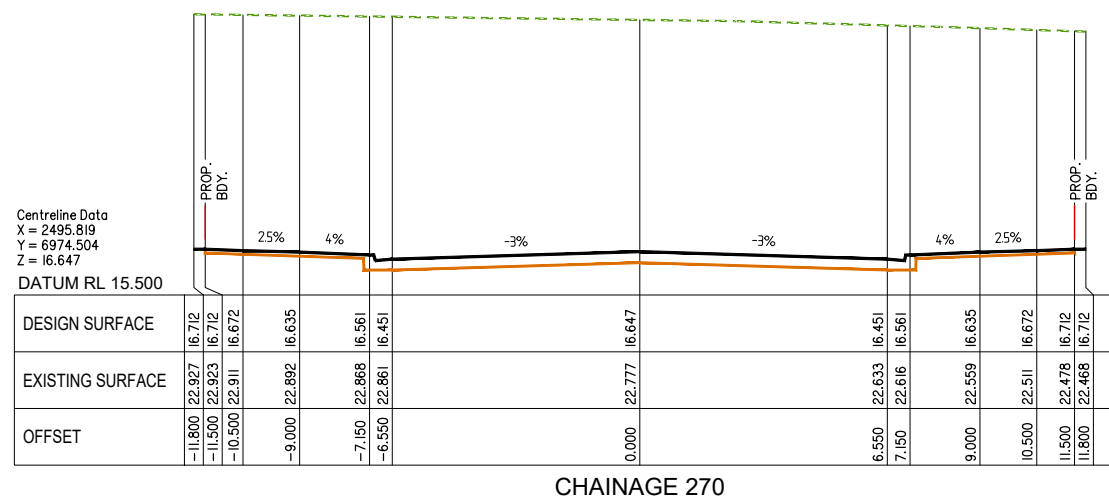
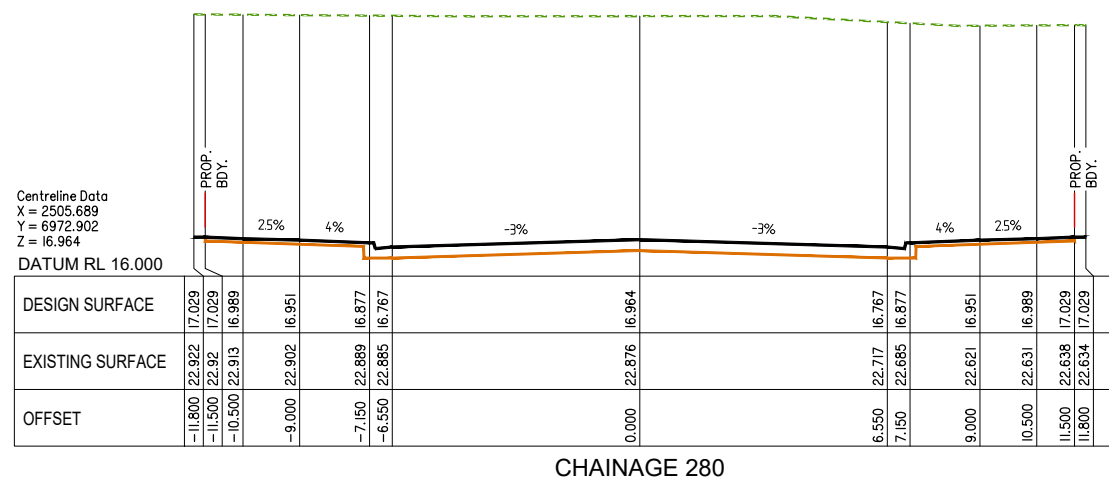
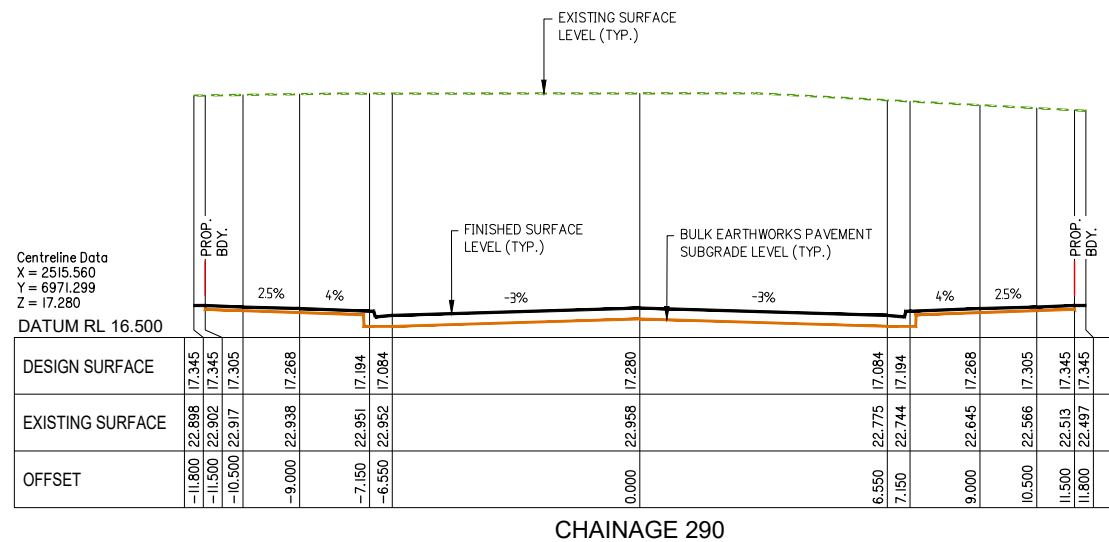
Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. No:
5941 ENG BE1 441	C



C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	JG	MG	
A	20-12-2019	ORIGINAL ISSUE	JFG	MG	
Issue	Date	Description	DRN	CHK	



Project: **VANTAGE YATALA**
STAGE 1

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[illegible]

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MO
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MO
A	20-12-2019	ORIGINAL ISSUE	JRG	MO
Issue	Date	Description	DRN	CH

Scale 1:100 - Lengths are in Metres.

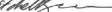
HOZ:

Scale 1:100 - Lengths are in Metres.

HOZ: 

Scale 1:100 - Lengths are in Metres.

VERT:

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Rev. No:
C



EASTRIDGE STREET BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 6

AI HORZ SCALE 1:100
AI VERT SCALE 1:100

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Project: **VANTAGE YATALA**
STAGE 1

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Contour Interval: -
PSM: -
RL: -

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[illegible]

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MO
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MO
A	20-12-2019	ORIGINAL ISSUE	JRG	MO
Issue	Date	Description	DRN	CH

Scale 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

VERT:

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	19-08-2020
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Drawing No:	Rev. No:
5941 ENG BE1 451	C



AI HORIZ SCALE 1:100
AI VERT SCALE 1:100



Project: **VANTAGE YATALA** 
STAGE 1

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C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	M
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	M
A	20-12-2019	ORIGINAL ISSUE	JRG	M
Issue	Date	Description	DRN	CH

Scale 1:100 - Lengths are in Metres.

HOZ: 

Scale 1:100 - Lengths are in Metres.

VERT:

Designed:	IG
Drafted:	JRG
Approved:	MG

Drawing No:	Rev. No:
5941 ENG BE1 454	C



AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



Project: **VANTAGE YATALA**
STAGE 1

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RL: -

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SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS		BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE		JG	MG
A	20-12-2019	ORIGINAL ISSUE		JRG	MG
Issue	Date	Description		DRN	CHK

Scale 1:100 - Lengths are in Metres.

HOZ: 

Scale 1:100 - Lengths are in Metres.

VERT:

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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RPEQ:	16939
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Signed: 

Date:	19-08-2020
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Drawing No:	Rev. No:
5941 ENG BE1 455	C



AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



Project: **VANTAGE YATALA**
STAGE 1

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RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 3 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	ID	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

Scale 1:100 - Lengths are in Metres.

HOZ: 

Scale 1:100 - Lengths are in Metres.

VERT: 

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No:	Rev. No:
5941 ENG BE1 456	C



SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11

AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100

Client:



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Project: **VANTAGE YATALA**
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

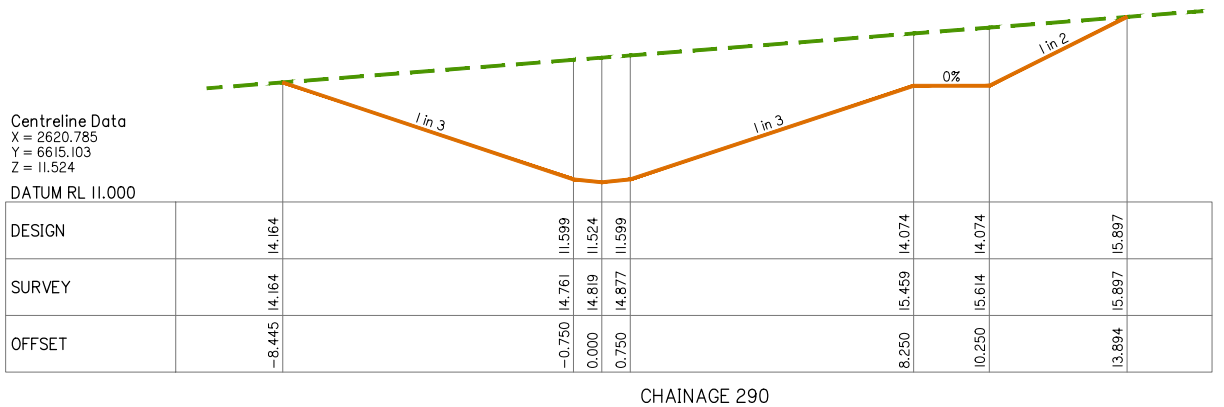
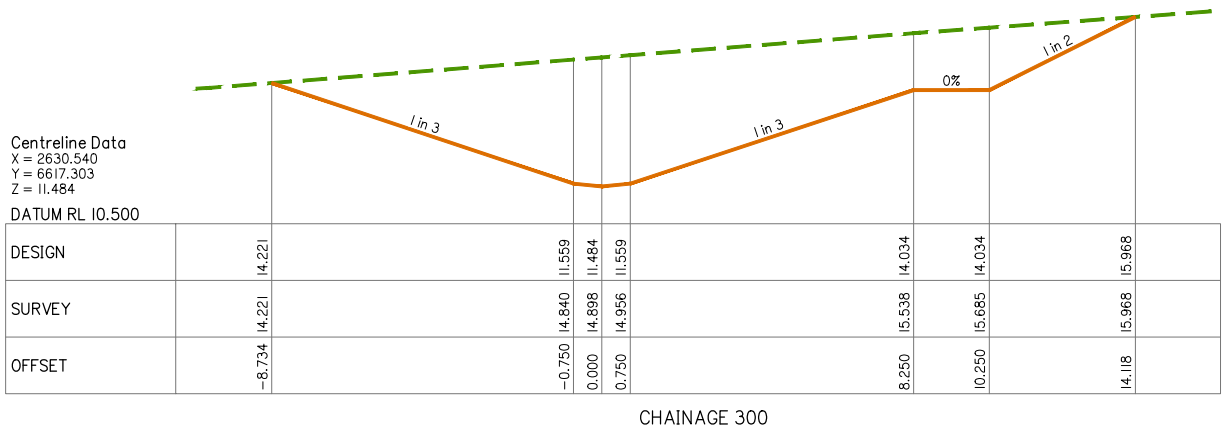
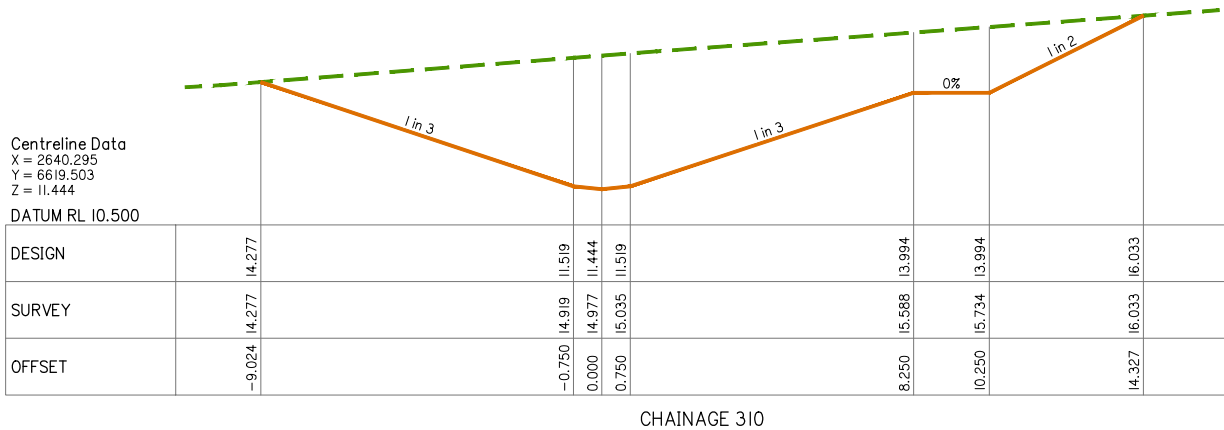
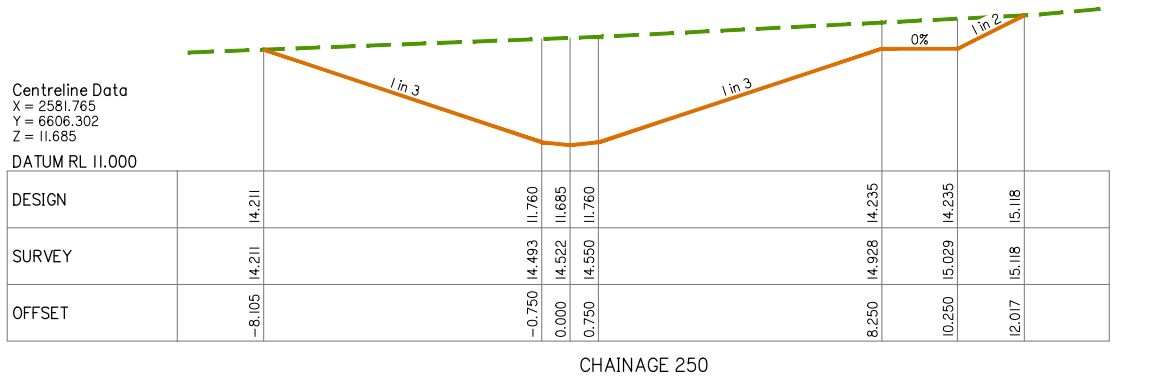
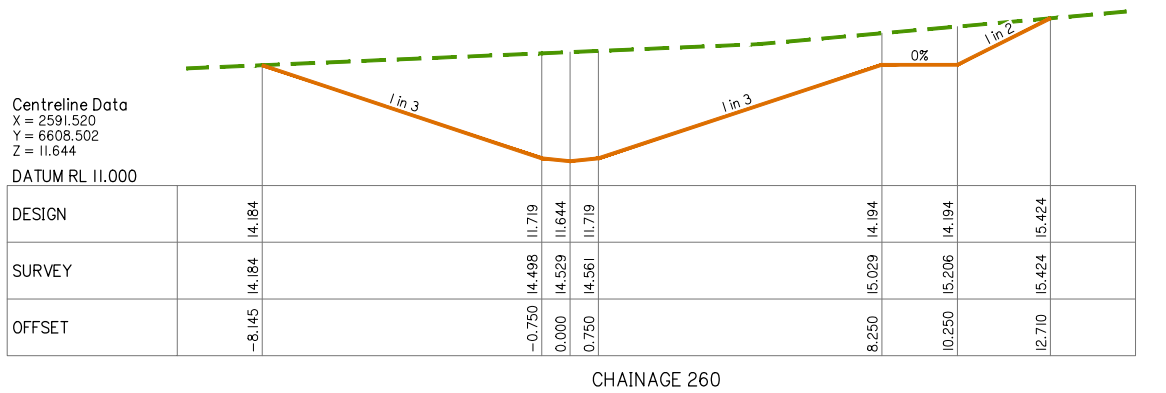
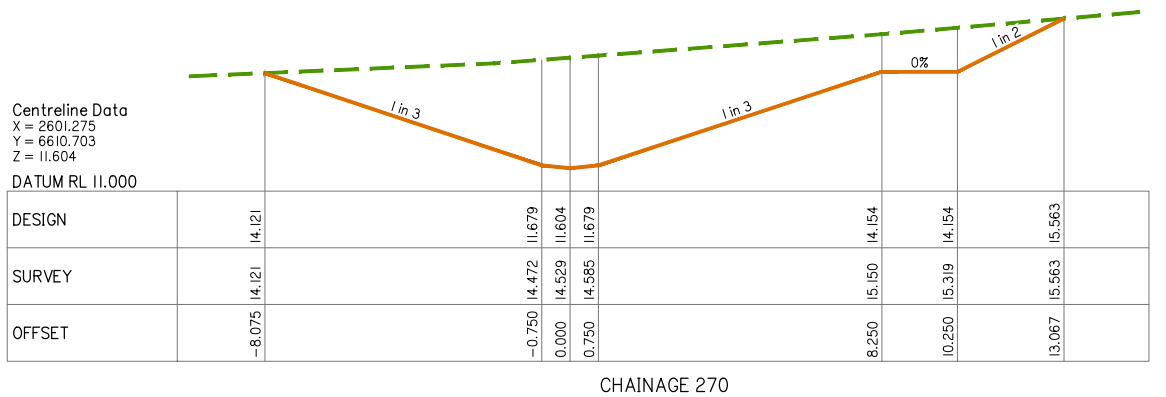
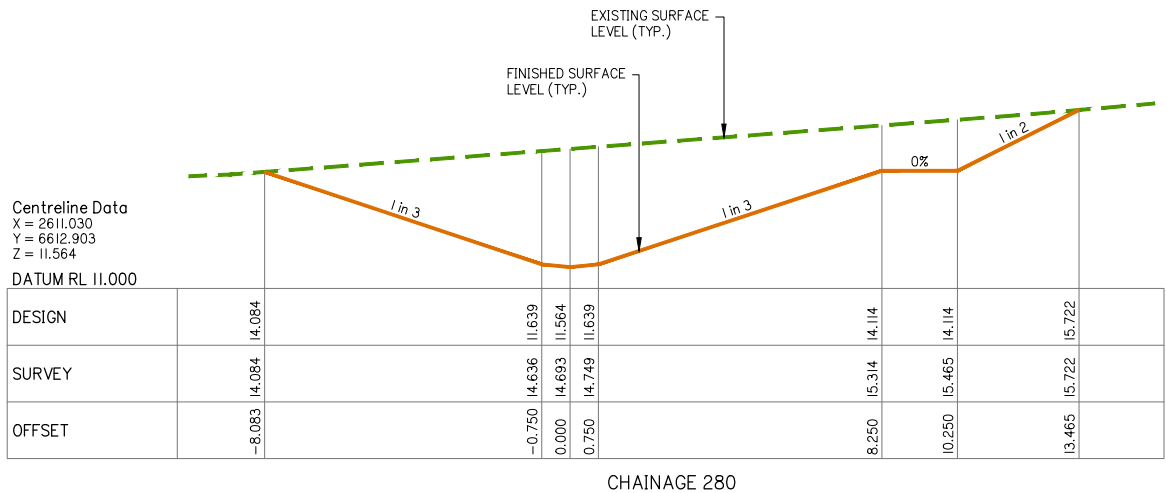
Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 457
Rev. No: C



SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100

Client:



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Project: **VANTAGE YATALA**
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL

Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 5 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

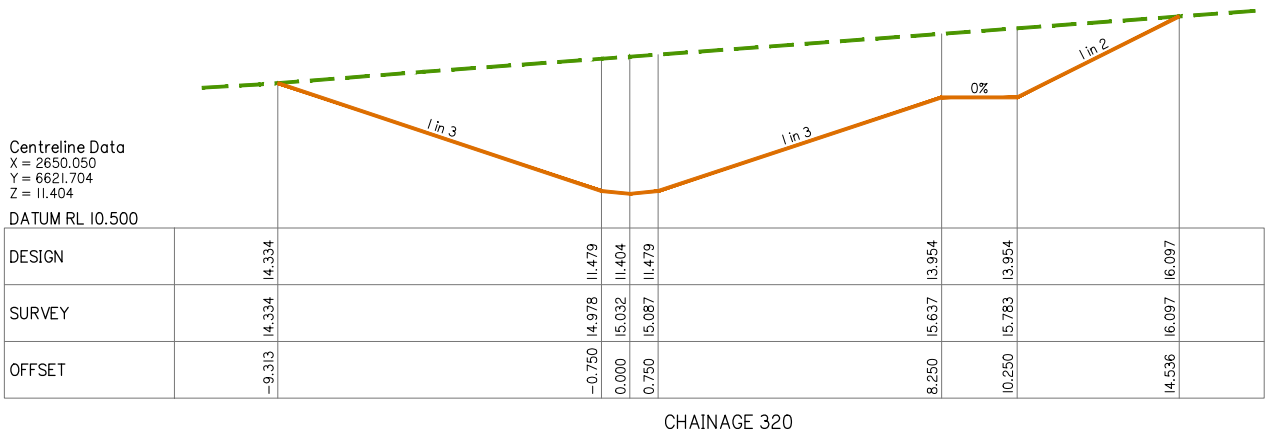
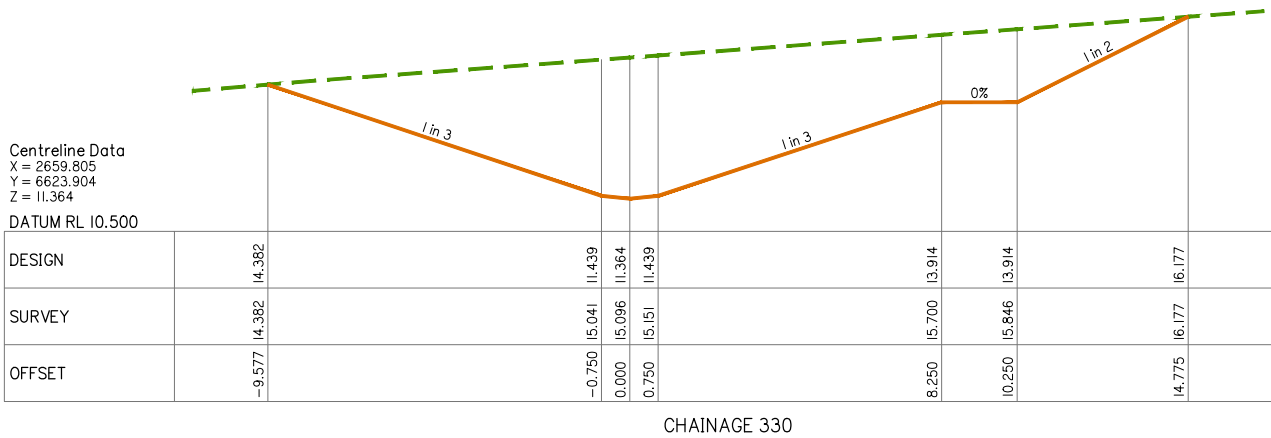
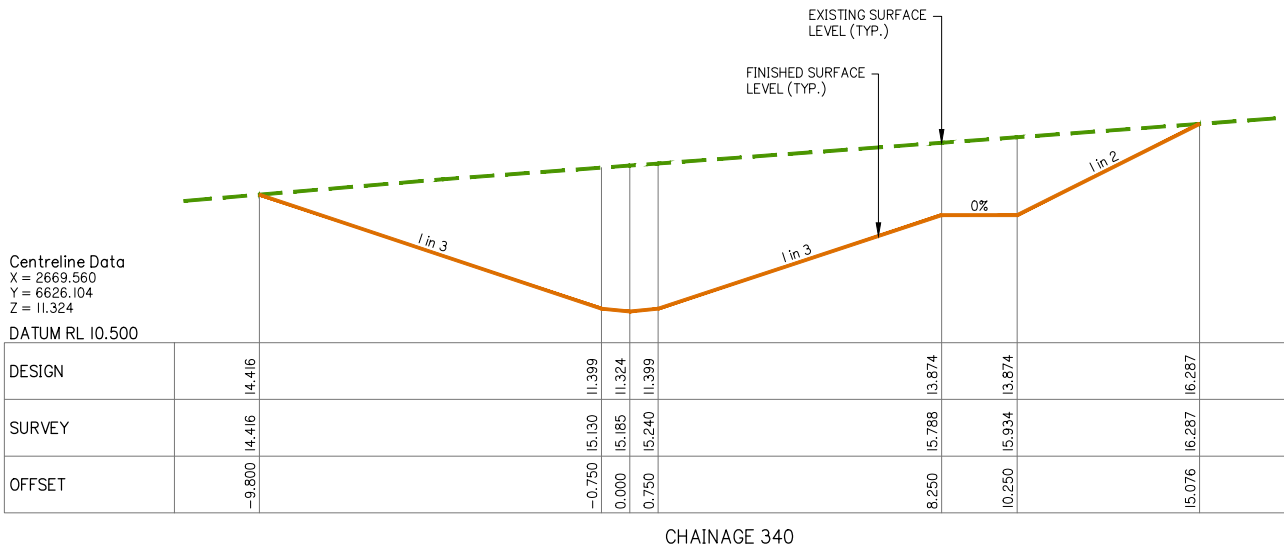
Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

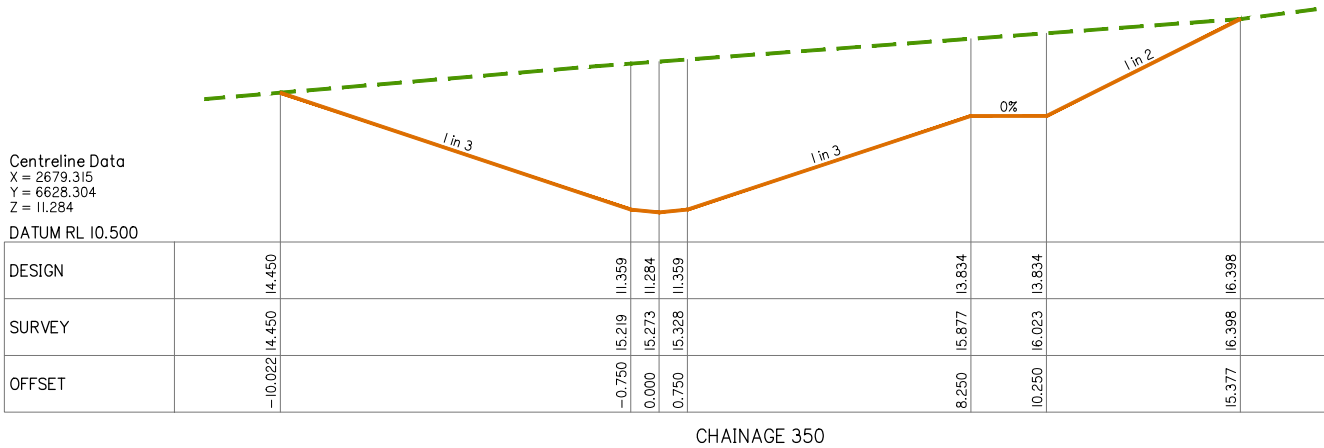
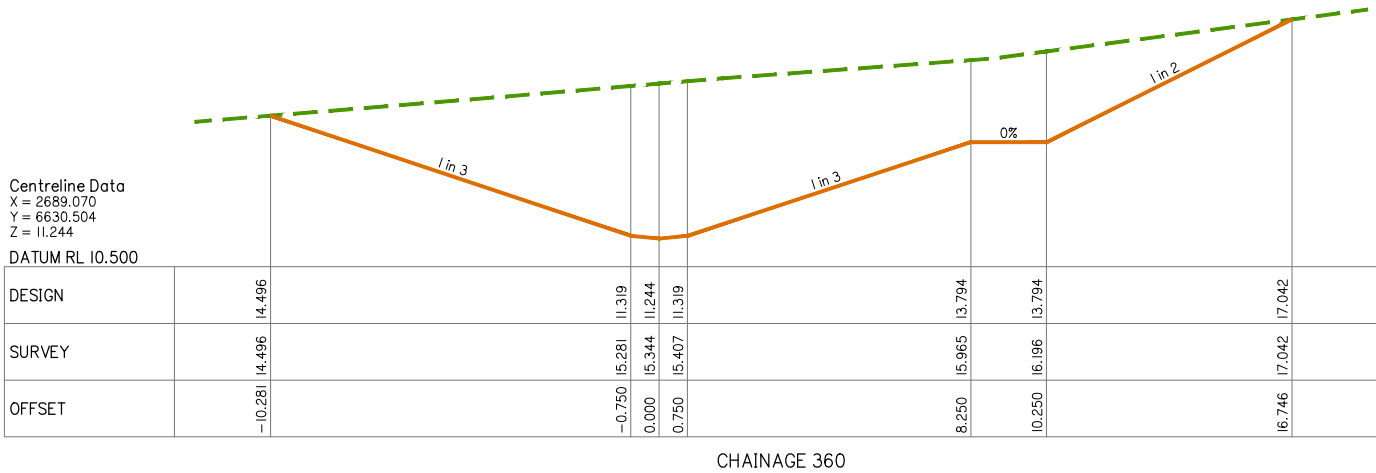
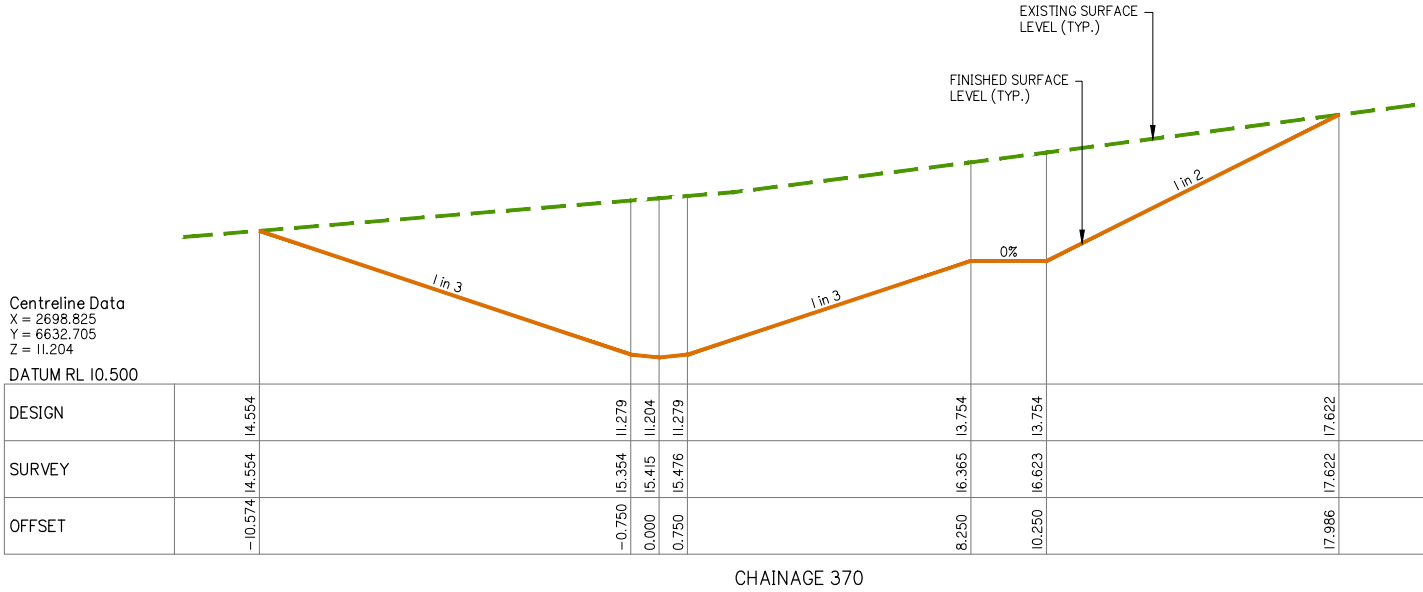
Drawing No:
5941 ENG BE1 458

Rev. No:
C



SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 11

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100



SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100



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Project: VANTAGE YATALA STAGE 1

Site Address:
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ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 6 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

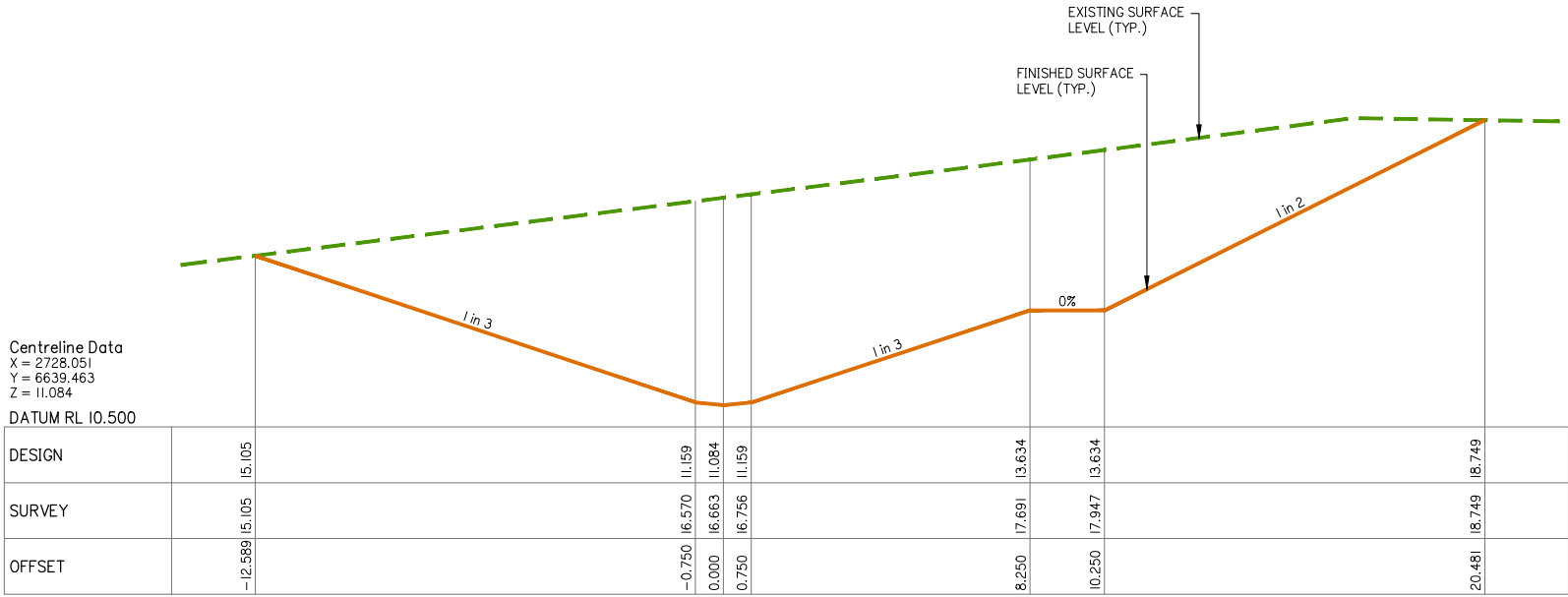
Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

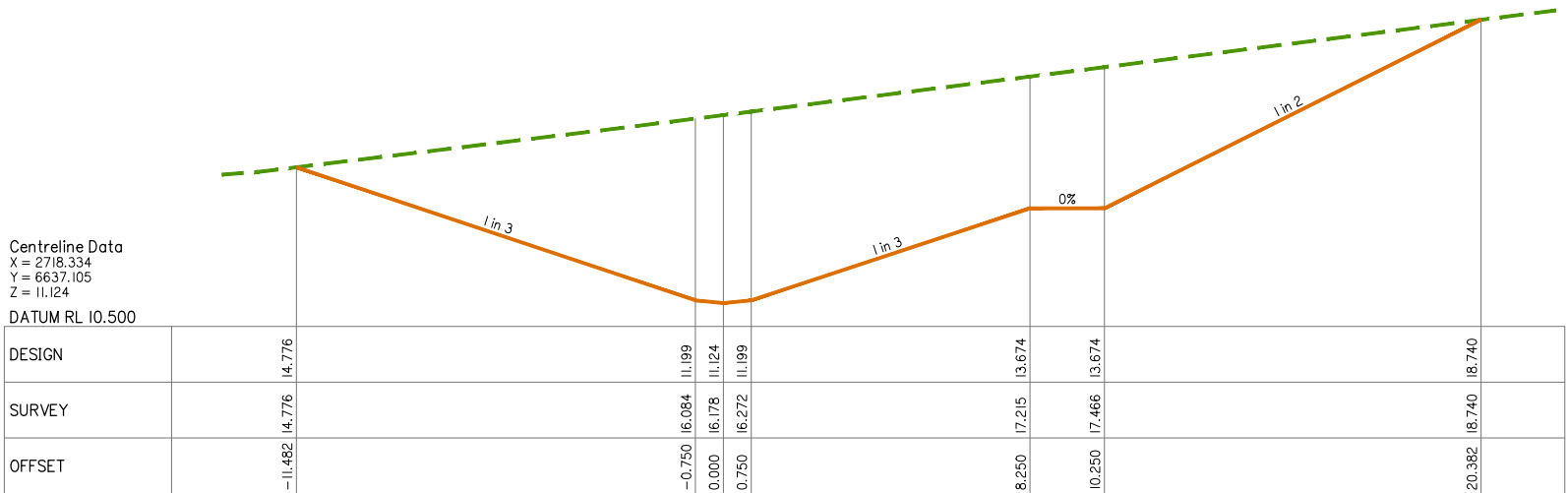
Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

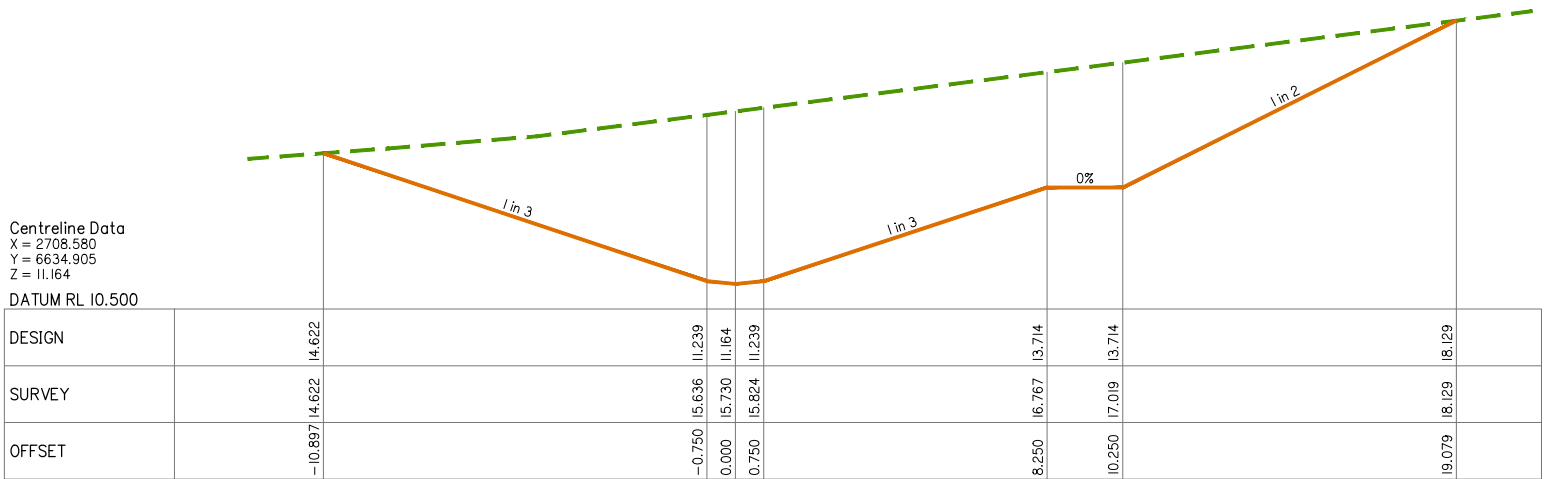
Drawing No: 5941 ENG BE1 459
Rev. No: C



CHAINAGE 400



CHAINAGE 390



CHAINAGE 380

SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100



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Project: VANTAGE YATALA STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501, 4
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Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 7 OF 11

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

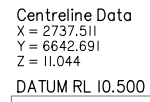
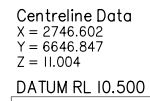
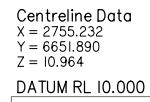
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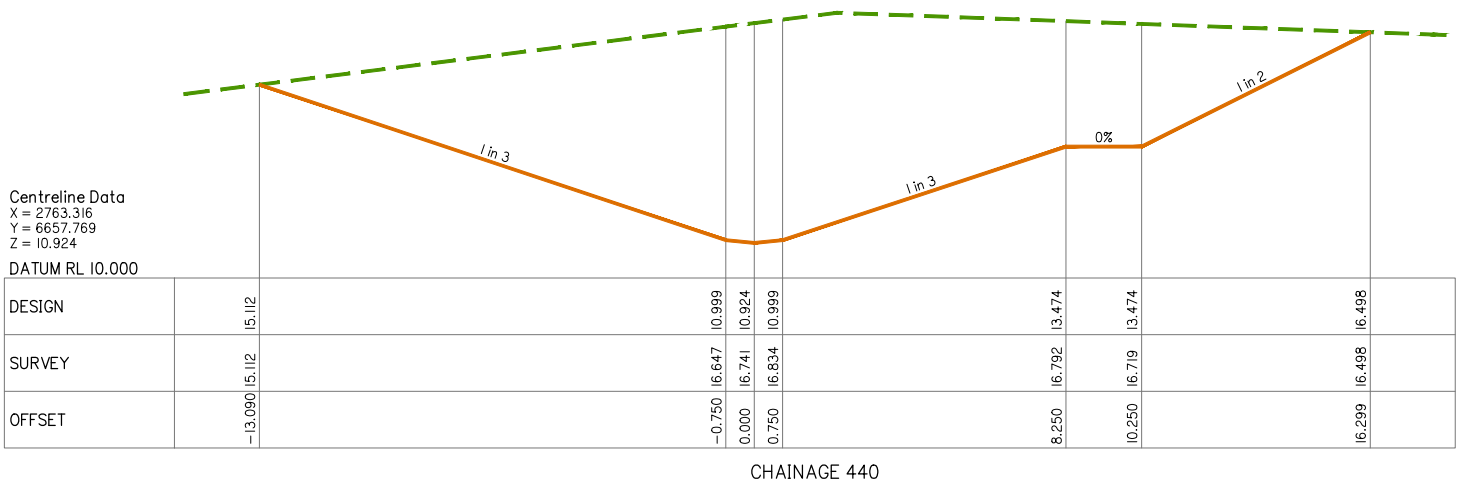
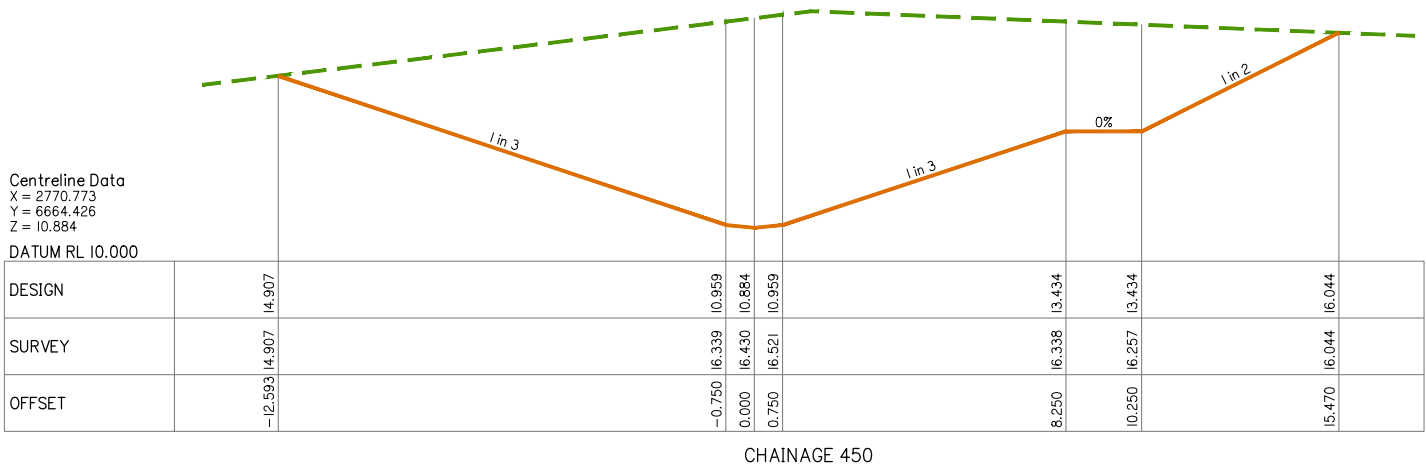
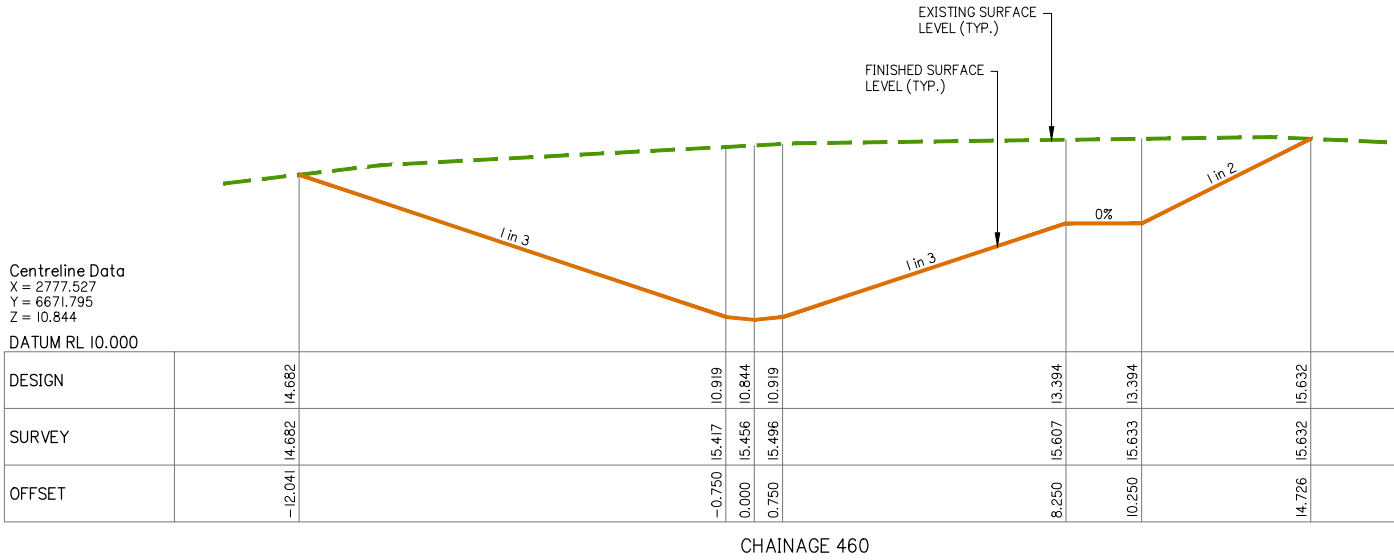
Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8
Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 460
Rev. No: C





SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100



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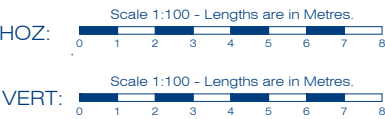
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Issue	Date	Description	DRN	CHK	

SCALE IN METRES



Scale at A1: AS SHOWN

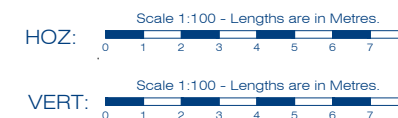
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Signed:	
Date:	19-08-2020

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5941 ENG BE1 462

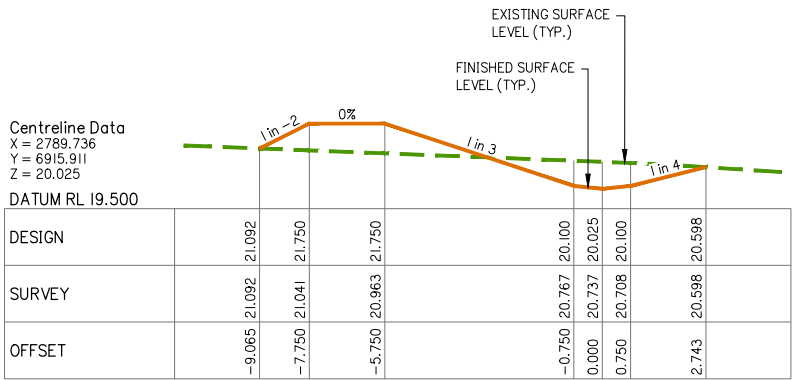
Rev. No:
C



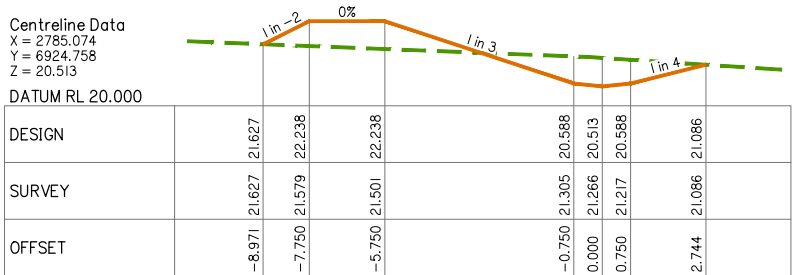
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A	20-12-2019	ORIGINAL ISSUE	JRG	MC	
Issue	Date	Description	DRN	CH	



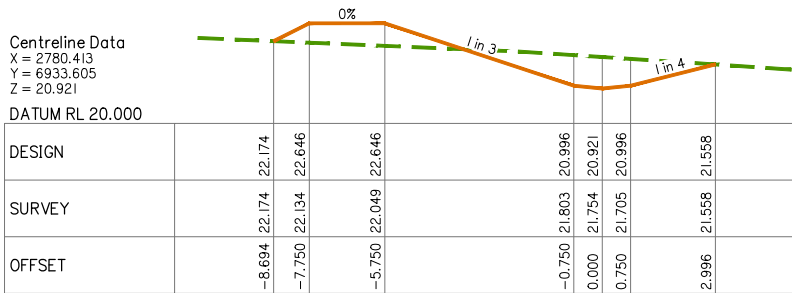
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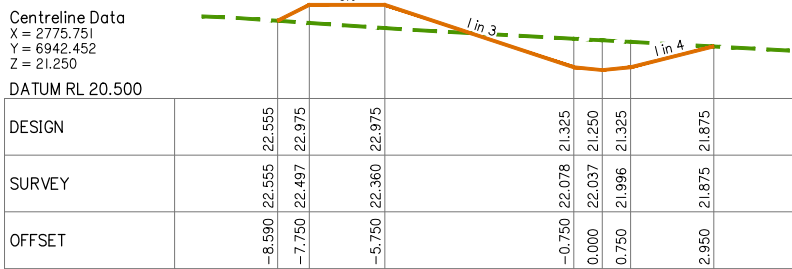
CHAINAGE 130



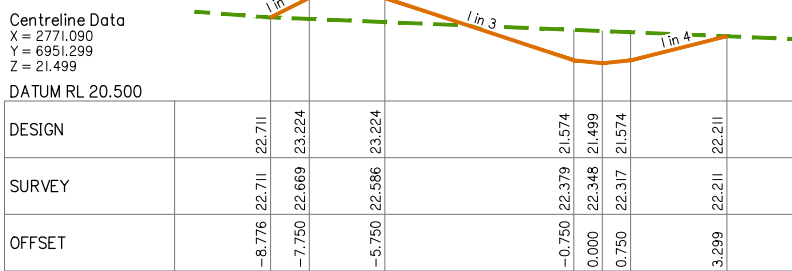
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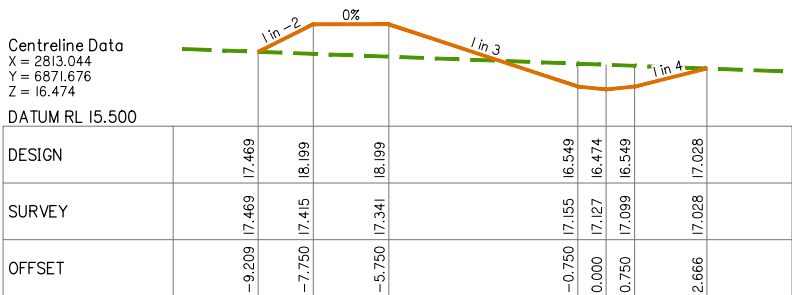
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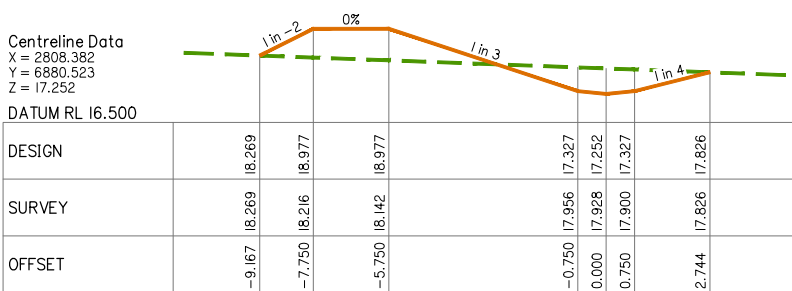
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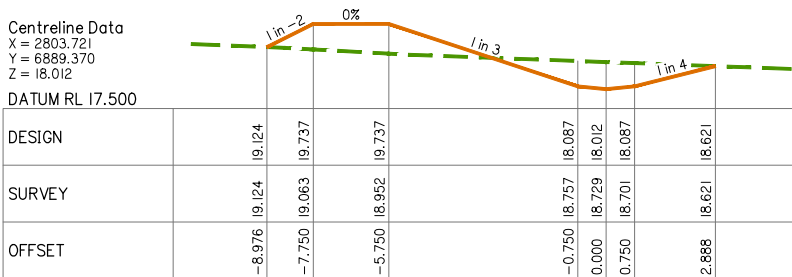
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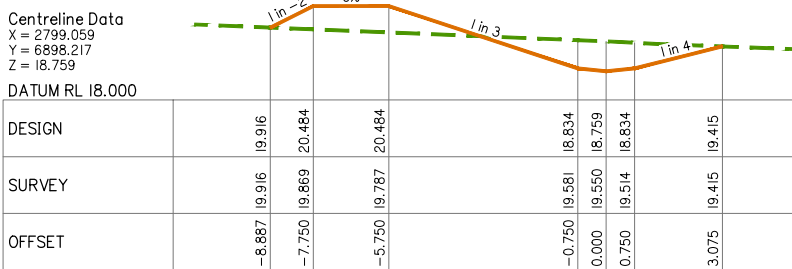
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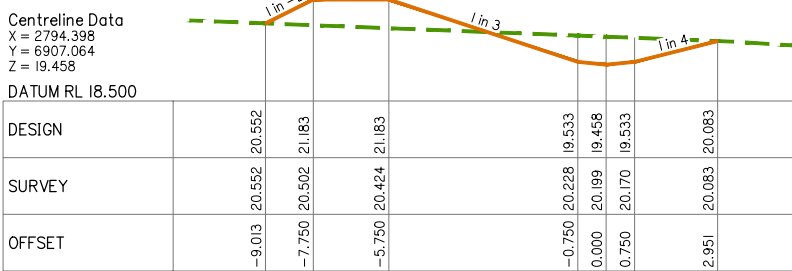
CHAINAGE 170



CHAINAGE 160



CHAINAGE 150



CHAINAGE 140

SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 3

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100



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SWALE DRAIN B BULK
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SECTIONS SHEET 2 OF 3

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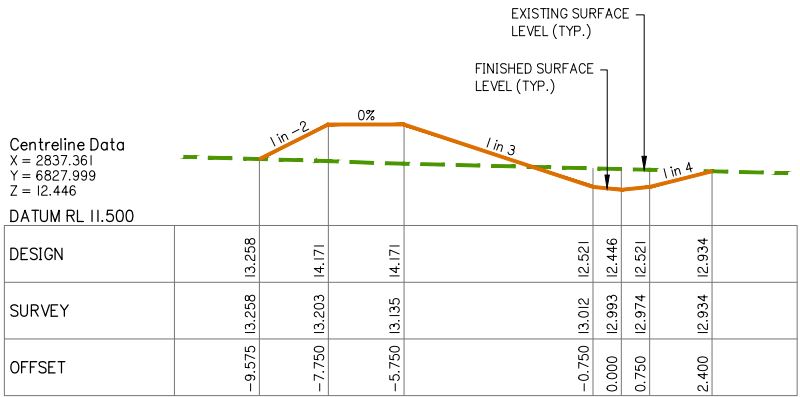
SCALE IN METRES



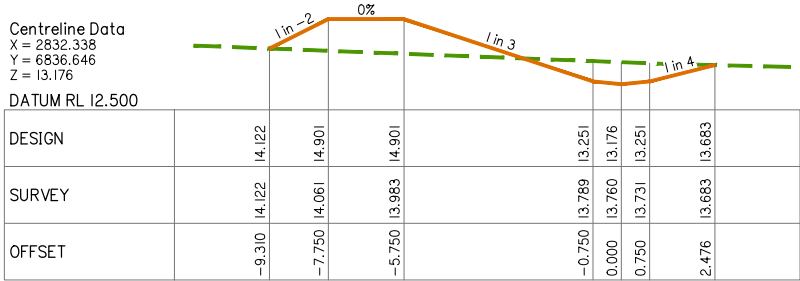
Scale at A1: AS SHOWN

Designed:	IG
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Approved:	MG
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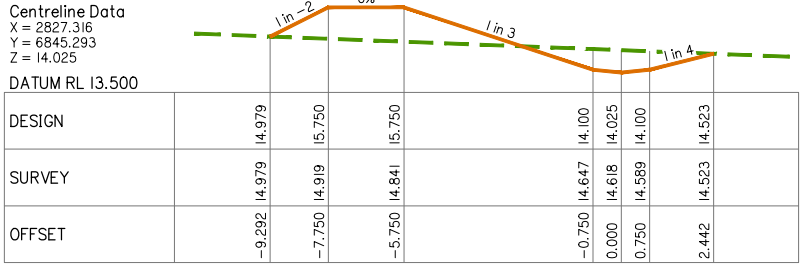
Drawing No: 5941 ENG BE1 466
Rev. No: C



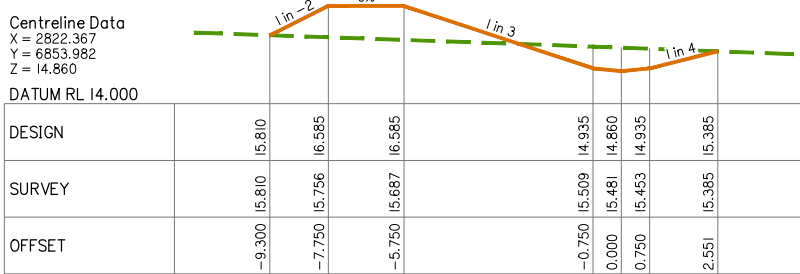
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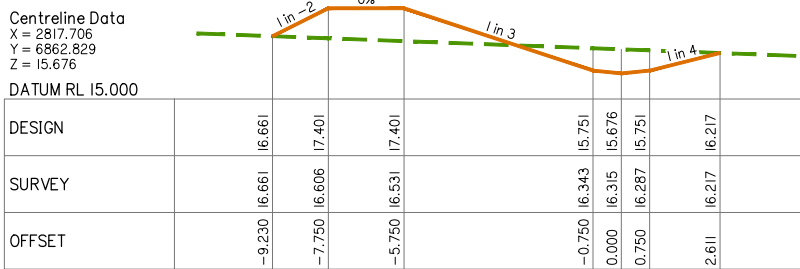
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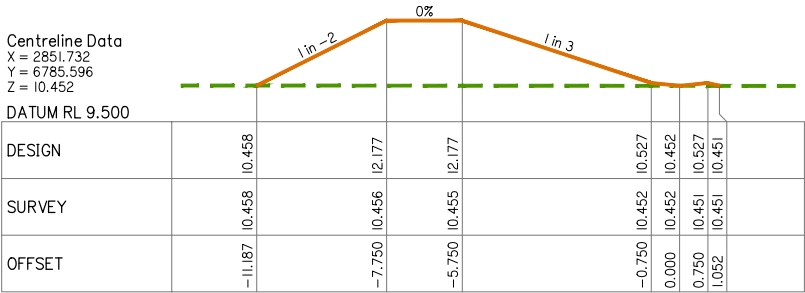
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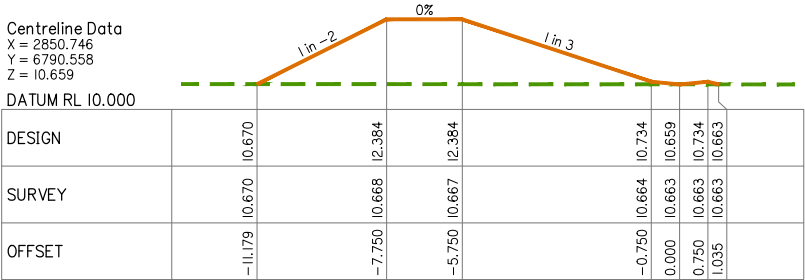
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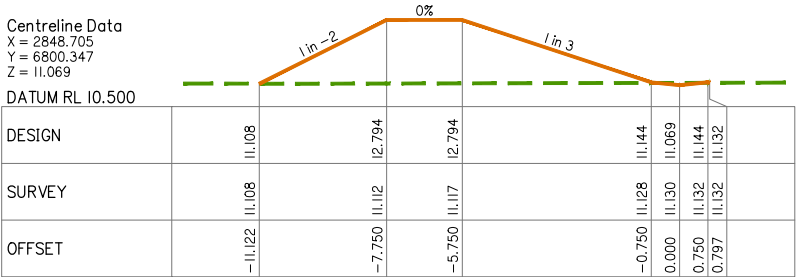
CHAINAGE 190



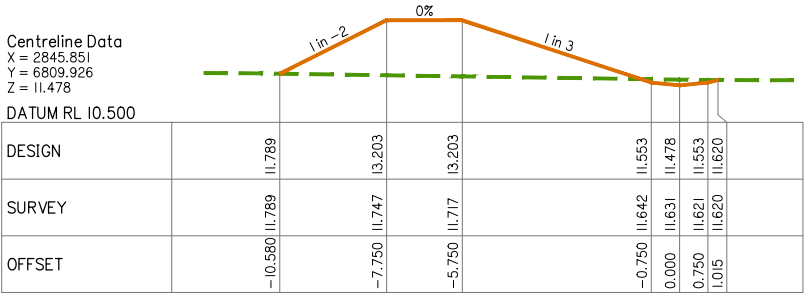
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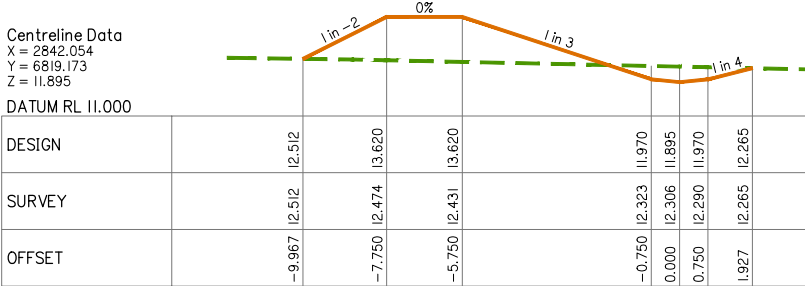
CHAINAGE 270



CHAINAGE 260



CHAINAGE 250



CHAINAGE 240

SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100



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Project: VANTAGE YATALA
STAGE 1

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
SWALE DRAIN B BULK
EARTHWORKS CROSS
SECTIONS SHEET 3 OF 3

C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

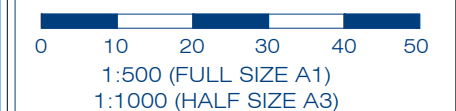
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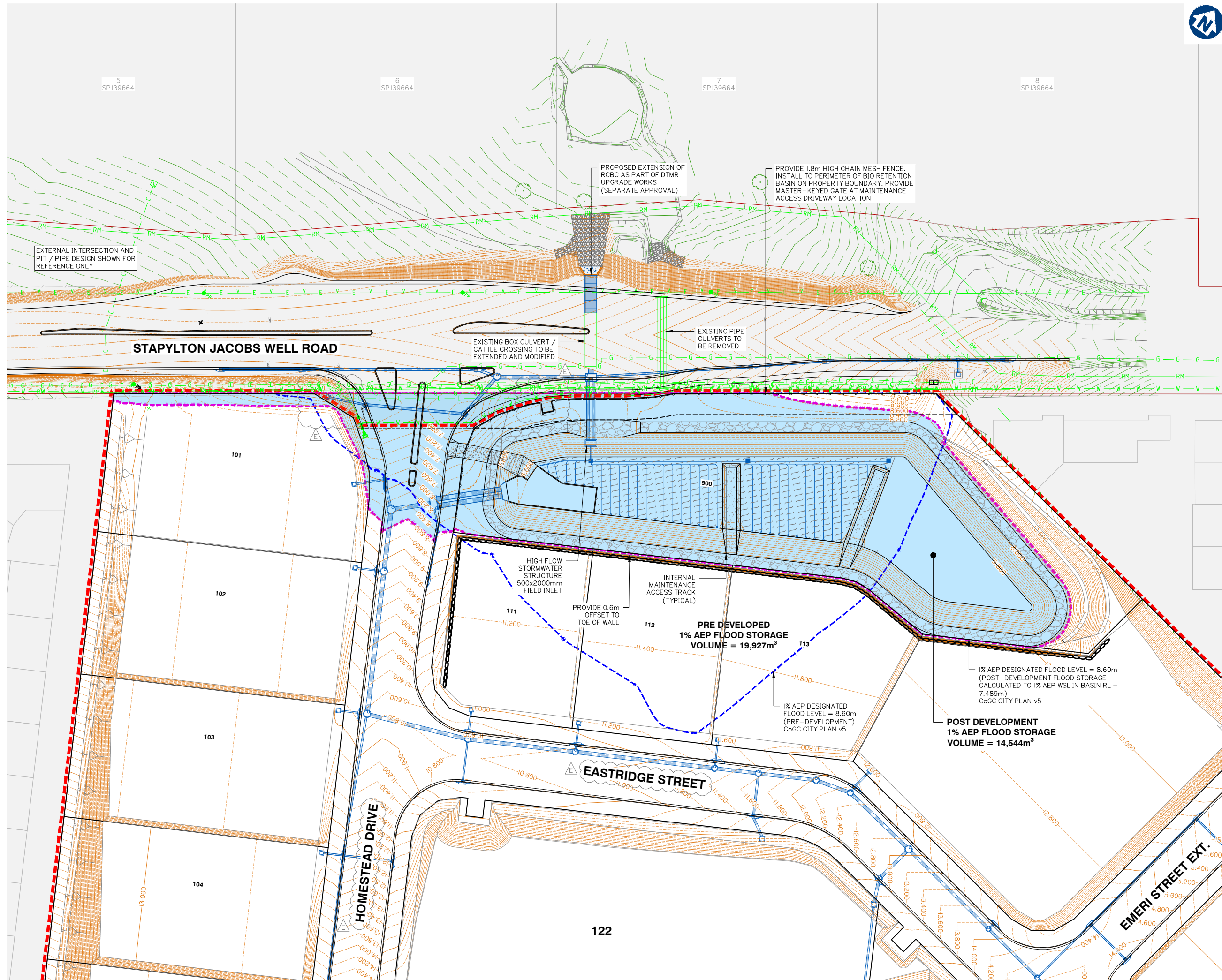
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	19-08-2020

Drawing No: 5941 ENG BE1 467
Rev. No: C



C	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG	
B	20-02-2020	INFORMATION REQUEST RESPONSE	JJ	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
ISSUE#	Date	Description	DRN	CHK	





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Project: **VANTAGE YATALA**
STAGE 1

Site Address:
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ROAD, STAPYLTON QLD 4207**

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DRAWING TITLE
**POST DEVELOPED 1%
AEP FLOOD STORAGE
VOLUME ASSESSMENT**

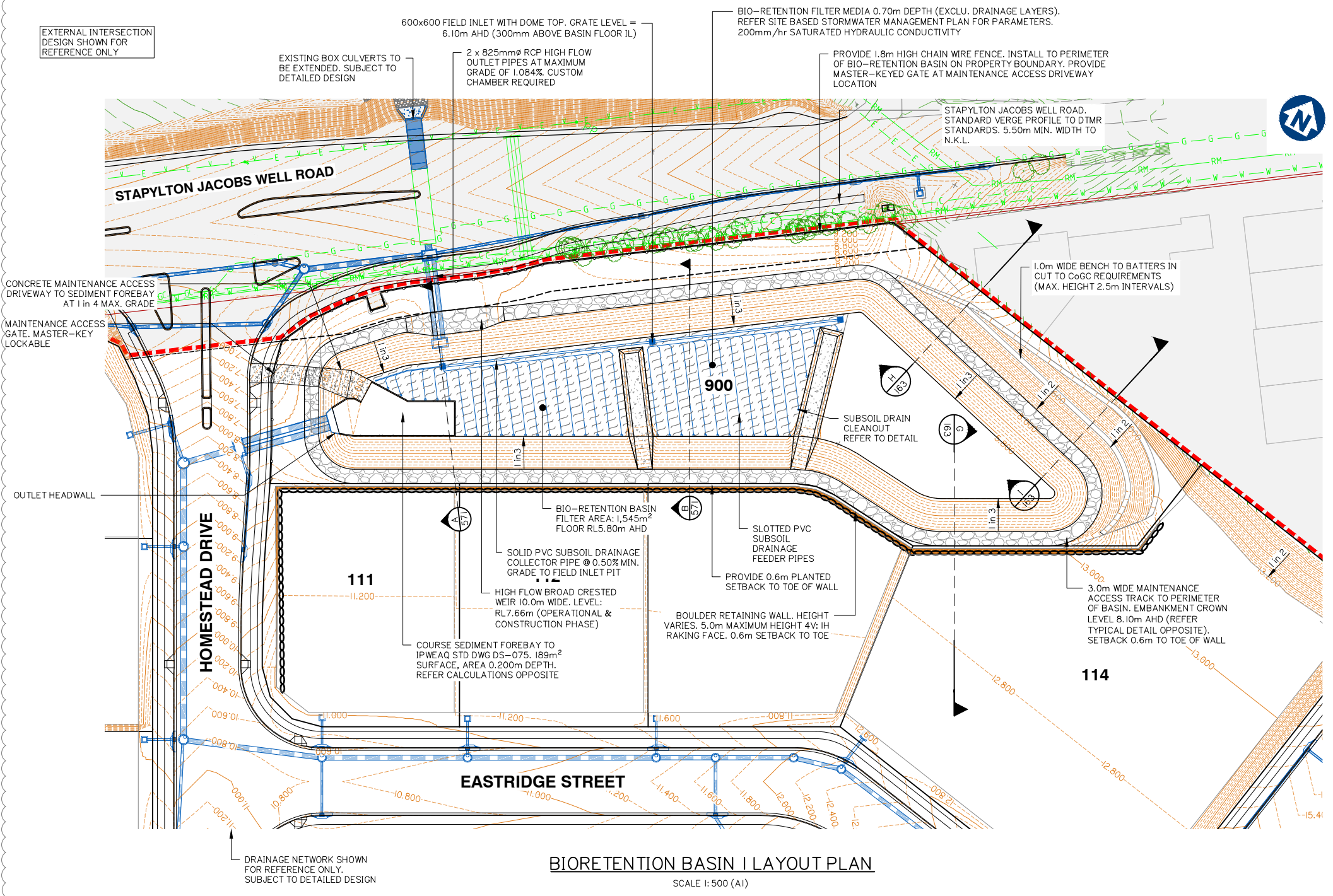
Issue	Date	Description	DRN	CHK
E	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
D	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
C	12-03-2020	INFORMATION REQUEST RESPONSE	SK	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG

SCALE IN METRES
0 10 20 30 40 50
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2020

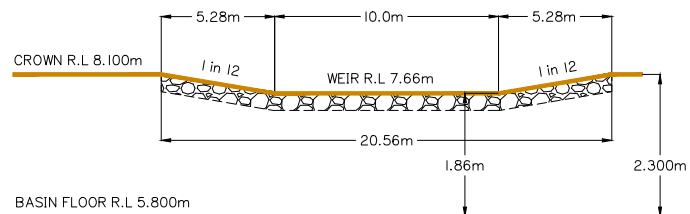
Drawing No: 5941 ENG BE1 471
Rev. No: E

EXTERNAL INTERSECTION
DESIGN SHOWN FOR
REFERENCE ONLY



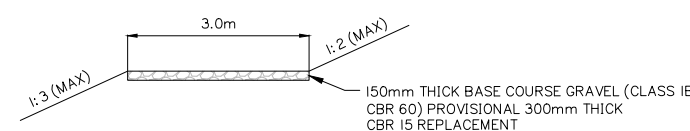
BIORETENTION BASIN I LAYOUT PLAN

SCALE 1:500 (A1)



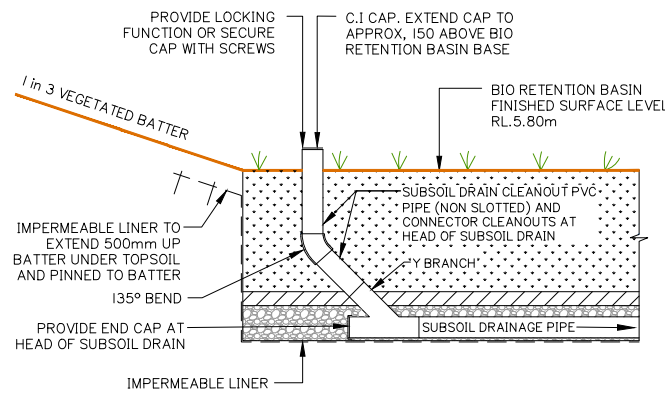
EMERGENCY WEIR – TYPICAL ELEVATION

N.T.S.



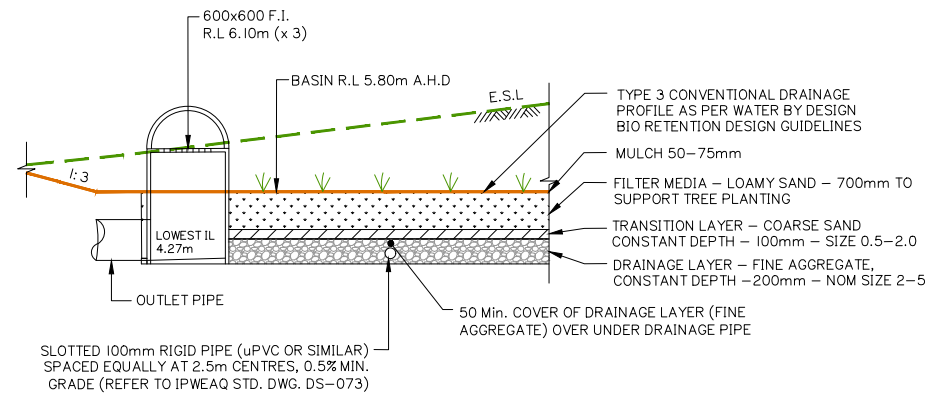
MAINTENANCE ACCESS TRACK – TYPICAL SECTION

N.T.S.



SUBSOIL DRAIN CLEANOUT – IN BASIN

N.T.S.



TYPICAL BIO-RETENTION BASIN DETAIL

N.T.S.

BIO-RETENTION NOTES:

MINIMUM BIO-RETENTION 'PROFILE' IS TO BE 1.00m AND IS TO CONSIST OF THE FOLLOWING:

* 0.70 OF SANDY LOAM MATERIAL WITH A HYDRAULIC CONDUCTIVITY OF 200mm/h AND A PARTICLE SIZE OF 0.45–0.50mm.

* 0.10m OF COURSE SAND. PARTICLE SIZE TYPICALLY 0.5–2.0mm.

* 0.20m OF GRAVEL DRAINAGE. PARTICLE SIZE 2–5mm SCREENING.

AGRICULTURAL PIPE TO BE INCLUDED IN FREE DRAINING AREAS TO ASSIST IN DRYING OUT THE DEVICE

BIO RETENTION – COURSE SEDIMENT FOREBAY SIZING GUIDE CALCULATIONS

$$V_s = A_c \times R \times L_o \times F = 7.234 \text{ m}^3$$

$$R = 1 - \left[1 + \frac{1}{n} \times \frac{V_s}{Q} \right]^{-n}$$

$$0.8 = 1 - \left[1 + \frac{0.10}{0.5 \times 2.423/A_f} \right]^{-0.5} \quad A_f = 234.72 \text{ m}^2$$

$$D_s = \frac{V_s}{A_f} \quad D_s = \frac{7.234}{234.72} = 0.031 \text{ m}$$

OPTIMIZATION OF MINIMUM FOREBAY SIZE:

$$D_s = \frac{7.234 \text{ m}^3}{189.00 \text{ m}^2} = 0.038 \text{ m}$$

$V_s = 7.234 \text{ m}^3$ (Workings Above)
 $A_c = 15.071 \text{ ha}$ (Refer Catchment Plans)
UNMITIGATED POST-DEVELOPMENT FLOW
 $Q = 1.956 \text{ m}^3/\text{s}$ (3 month ARI = 0.5 x 63.2% AEP)
 $V_s = 0.1 \text{ m/s}$ (Recommended for Imm Particle)
 $R = 0.8$ (Recommended 80% Capture)
 $L_o = 0.6$ (From Healthy Waterways Guide)
 $n = 0.5$ (Recommended Turbulence)
 $F_c = 1.0$ (Frequency of Clean Out / Yr)

REFER TO BIO RETENTION TECHNICAL DESIGN GUIDELINES FOR FURTHER INFORMATION

AEP (%)	MAX. WATER ELEVATION (m) A.H.D.	MAX. WATER DEPTH (m)
63.2	6.635	0.835
50	6.720	0.920
20	7.057	1.257
10	7.179	1.379
5	7.256	1.456
2	7.357	1.557
1	7.489	1.689

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OPERATIONAL PHASE BIORETENTION BASIN
SHEET 1 OF 2

D	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
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ISSUE	Date	Description	DRN	CHK

SCALE IN METRES

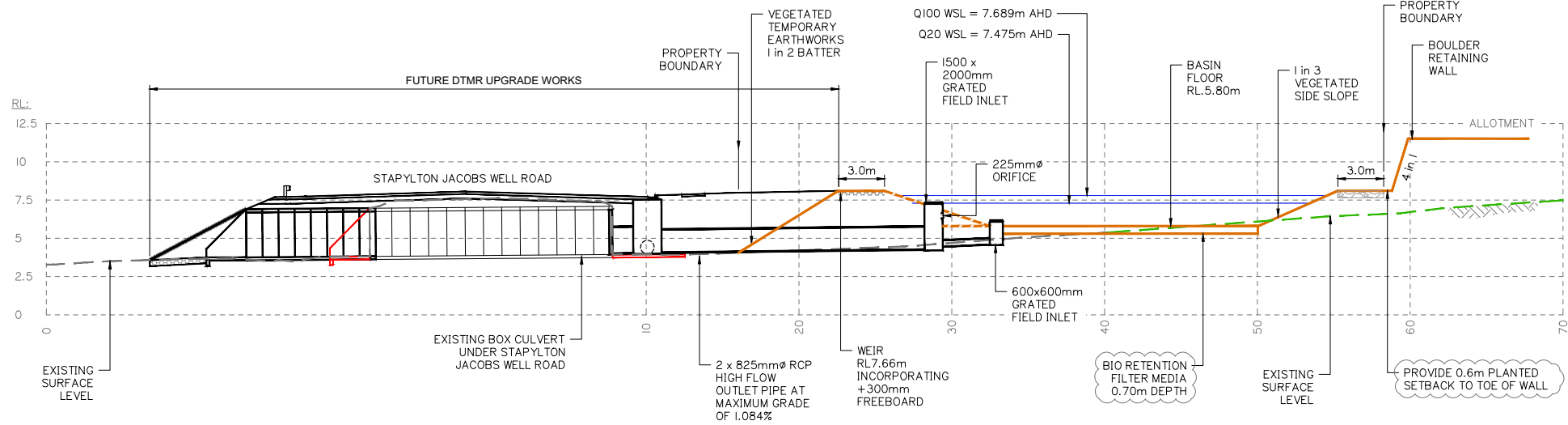


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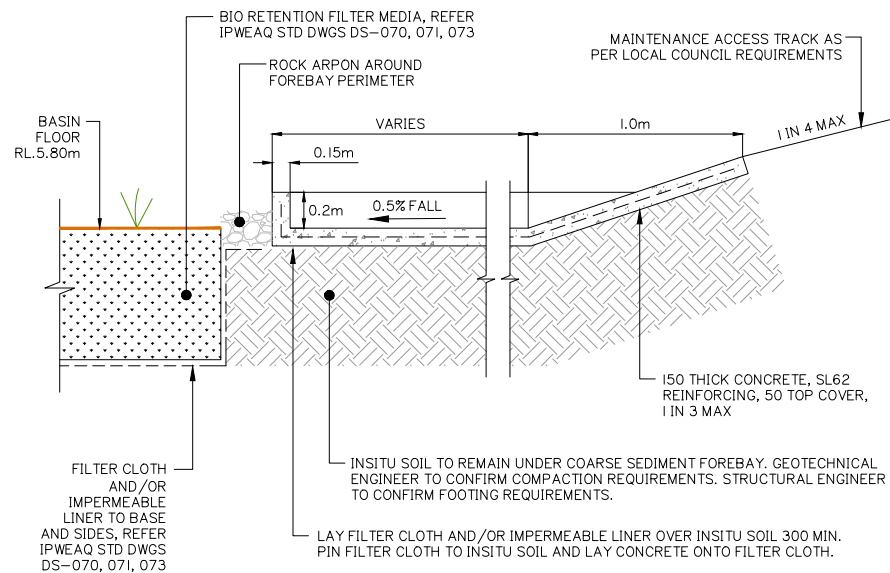
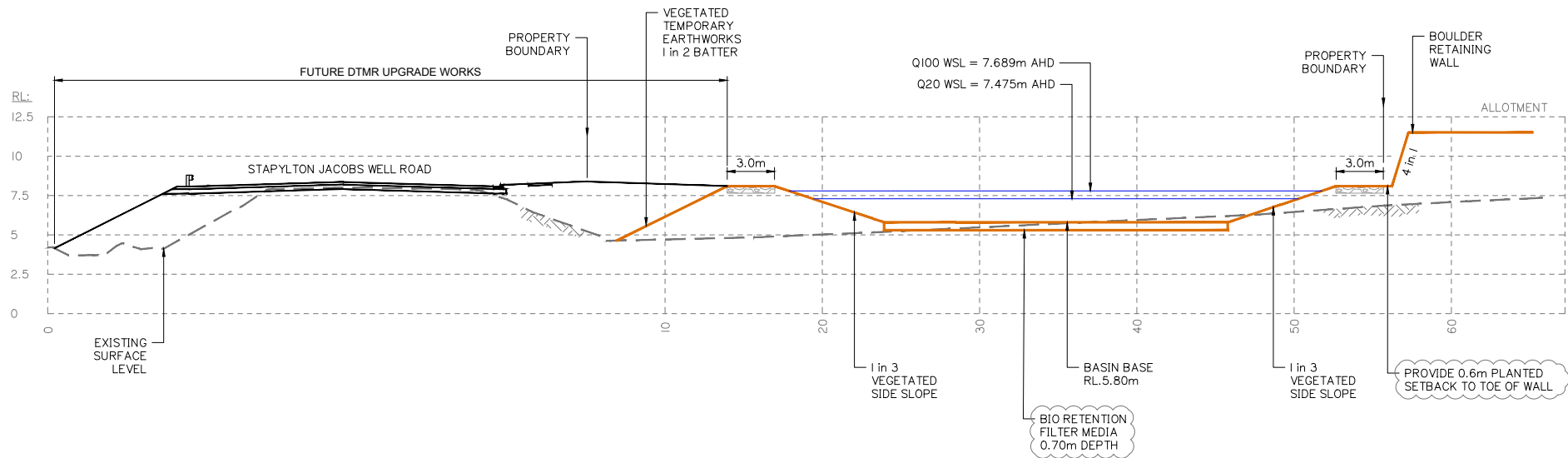
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RPEQ:	16939
Signed:	
Date:	12-03-2020

Drawing No: 5941 ENG BE1 570 Rev. No: D

SECTION A
NTS
570

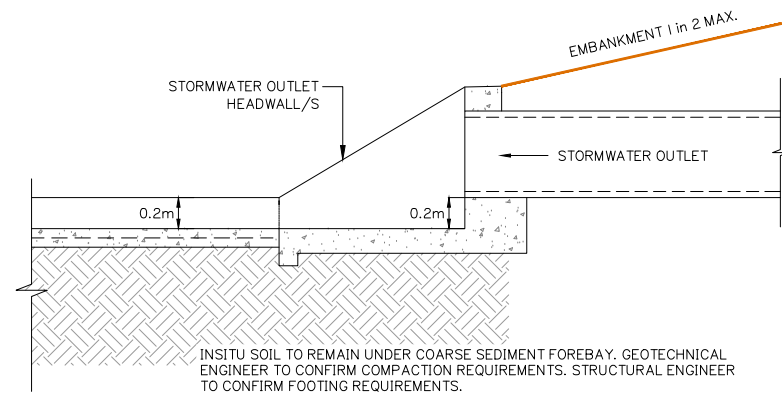


SECTION B
NTS
570



COURSE SEDIMENT FOREBAY TYPICAL SECTION

N.T.S



TYPICAL STORMWATER OUTLET TO SEDIMENT FOREBAY

N.T.S

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 2 OF 2

Rev	Date	Description	By	Check
B	19-08-2020	MINOR CHANGE TO BULK EARTHWORKS	BA	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

NOT TO SCALE

Scale at A1: NTS

Designed: IG
Drafted: JRG
Approved: MG
RPEQ: 16939
Signed:
Date: 19-08-2020

Drawing No: 5941 ENG BE1 571
Rev. No: B