



ATTACHMENT F

AMENDED BULK EARTHWORKS DRAWINGS



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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
VANTAGE YATALA - STAGE 2

Job No: 5941

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ED	- DWG/DXF			EP	- PDF					

Drg/Doc No.	Title	Revision Issued										
5941 ENG BE2 001	DRAWING INDEX AND LOCALITY PLAN	A	B	C	C	C	D	D	E	E	F	
5941 ENG BE2 002	GENERAL NOTES SHEET 1 OF 2	A	A	A	A	A	A	A	B	B	-	
5941 ENG BE2 003	GENERAL NOTES SHEET 2 OF 2	A	A	A	A	A	A	A	B	B	-	
5941 ENG BE2 004	LEGEND	A	A	A	A	A	A	A	B	B	-	
5941 ENG BE2 005	KEY PLAN LAYOUT	A	A	B	B	B	C	C	D	D	E	
5941 ENG BE2 010	EXISTING SURFACE AND FEATURES PLAN SHEET 1 OF 7	A	A	A	A	A	B	B	C	C	D	
5941 ENG BE2 011	EXISTING SURFACE AND FEATURES PLAN SHEET 2 OF 7	A	A	A	A	A	B	B	C	C	-	
5941 ENG BE2 012	EXISTING SURFACE AND FEATURES PLAN SHEET 3 OF 7	A	A	A	A	A	B	B	B	B	C	
5941 ENG BE2 013	EXISTING SURFACE AND FEATURES PLAN SHEET 4 OF 7	A	A	A	A	A	B	B	B	B	C	
5941 ENG BE2 014	EXISTING SURFACE AND FEATURES PLAN SHEET 5 OF 7	A	A	A	A	A	B	B	B	B	C	
5941 ENG BE2 015	EXISTING SURFACE AND FEATURES PLAN SHEET 6 OF 7	A	A	B	B	B	C	C	C	C	D	
5941 ENG BE2 016	EXISTING SURFACE AND FEATURES PLAN SHEET 7 OF 7	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 020	SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 7	A	B	B	B	B	C	C	D	D	E	
5941 ENG BE2 021	SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 7	A	B	B	B	B	C	C	D	D	-	
5941 ENG BE2 022	SEDIMENT AND EROSION CONTROL PLAN SHEET 3 OF 7	A	B	B	B	B	C	C	D	D	E	
5941 ENG BE2 023	SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 7	A	A	B	B	B	C	C	C	C	D	
5941 ENG BE2 024	SEDIMENT AND EROSION CONTROL PLAN SHEET 5 OF 7	A	A	A	A	A	B	B	B	B	C	
5941 ENG BE2 025	SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 7	A	A	B	B	B	C	C	C	C	D	
5941 ENG BE2 026	SEDIMENT AND EROSION CONTROL PLAN SHEET 7 OF 7	A	B	C	C	C	D	D	D	D	-	
5941 ENG BE2 029	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT SHEET 1 OF 4	A	B	C	C	C	D	D	D	D	-	
5941 ENG BE2 030	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT SHEET 2 OF 4	A	B	C	C	C	D	D	D	D	E	
5941 ENG BE2 031	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT SHEET 3 OF 4	A	B	C	C	C	D	D	D	D	-	
5941 ENG BE2 032	CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT SHEET 4 OF 4	A	B	B	B	B	C	C	C	C	-	
5941 ENG BE2 033	CONSTRUCTION PHASE SEDIMENT BASIN SECTIONS	A	A	B	B	B	C	C	C	C	-	
5941 ENG BE2 034	CONSTRUCTION PHASE SEDIMENT BASIN TYPICAL SECTIONS	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 035	SEDIMENT AND EROSION TYPICAL DETAILS	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 050	BULK EARTHWORKS LAYOUT PLAN SHEET 1 OF 7	A	B	C	C	C	D	D	E	E	F	
5941 ENG BE2 051	BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 7	A	B	C	C	C	D	D	E	F	-	
5941 ENG BE2 052	BULK EARTHWORKS LAYOUT PLAN SHEET 3 OF 7	A	B	C	C	C	D	D	E	E	F	
5941 ENG BE2 053	BULK EARTHWORKS LAYOUT PLAN SHEET 4 OF 7	A	B	C	C	C	D	D	E	E	F	
5941 ENG BE2 054	BULK EARTHWORKS LAYOUT PLAN SHEET 5 OF 7	A	B	C	C	C	D	F	F	F	G	
5941 ENG BE2 055	BULK EARTHWORKS LAYOUT PLAN SHEET 6 OF 7	A	A	B	B	B	C	C	D	D	E	
5941 ENG BE2 056	BULK EARTHWORKS LAYOUT PLAN SHEET 7 OF 7	A	B	C	C	C	D	D	E	E	-	
5941 ENG BE2 100	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 1 OF 7	A	B	B	B	B	C	C	D	D	E	
5941 ENG BE2 101	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 2 OF 7	A	B	B	B	B	C	C	D	D	-	
5941 ENG BE2 102	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 3 OF 7	A	B	B	B	B	C	C	C	D	E	
5941 ENG BE2 103	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 4 OF 7	A	A	B	B	B	C	C	C	C	D	
5941 ENG BE2 104	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 5 OF 7	A	A	A	A	A	B	B	C	C	D	
5941 ENG BE2 105	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 6 OF 7	A	A	B	B	B	C	C	C	C	D	
5941 ENG BE2 106	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 7 OF 7	A	B	C	C	C	D	D	D	D	-	
5941 ENG BE2 150	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11	A	A	A	A	A	B	B	C	C	-	
5941 ENG BE2 151	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11	A	B	B	B	B	C	C	D	D	-	
5941 ENG BE2 152	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11	A	B	C	C	C	D	D	F	F	-	
5941 ENG BE2 153	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11	A	A	B	B	B	C	C	D	D	-	
5941 ENG BE2 154	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 11	A	A	B	B	B	C	C	C	C	-	
5941 ENG BE2 155	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11	A	A	B	B	B	C	C	C	C	-	

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Drg/Doc No.	Title	Revision Issued										
5941 ENG BE2 156	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 158	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11	A	A	B	B	B	C	C	C	C	-	
5941 ENG BE2 159	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 160	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 161	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 163	BULK EARTHWORKS ROAD TYPICAL SECTIONS	A	B	B	B	B	C	C	C	C	-	
5941 ENG BE2 400	CONTROL LINE LAYOUT PLAN	A	B	B	B	B	C	C	D	D	E	
5941 ENG BE2 401	CONTROL LINE SETOUT TABLES SHEET 1 OF 2	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 402	CONTROL LINE SETOUT TABLES SHEET 2 OF 2	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 410	ROAD 01 LONGITUDINAL SECTION SHEET 1 OF 2	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 411	ROAD 01 LONGITUDINAL SECTION SHEET 2 OF 2	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 412	FAIRWAY STREET LONGITUDINAL SECTION	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 414	AMGROW DAM OVERFLOW DRAIN LONGITUDINAL SECTION	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 430	ROAD 01 CROSS SECTIONS SHEET 1 OF 8	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 431	ROAD 01 CROSS SECTIONS SHEET 2 OF 8	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 432	ROAD 01 CROSS SECTIONS SHEET 3 OF 8	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 433	ROAD 01 CROSS SECTIONS SHEET 4 OF 8	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 434	ROAD 01 CROSS SECTIONS SHEET 5 OF 8	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 435	ROAD 01 CROSS SECTIONS SHEET 6 OF 8	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 436	ROAD 01 CROSS SECTIONS SHEET 7 OF 8	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 437	ROAD 01 CROSS SECTIONS SHEET 8 OF 8	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 438	FAIRWAY STREET CROSS SECTIONS SHEET 1 OF 4	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 439	FAIRWAY STREET CROSS SECTIONS SHEET 2 OF 4	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 440	FAIRWAY STREET CROSS SECTIONS SHEET 3 OF 4	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 441	FAIRWAY STREET CROSS SECTIONS SHEET 4 OF 4	A	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 442	ROAD USER SAFETY CROSS SECTIONS SHEET 1 OF 5	-	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 443	ROAD USER SAFETY CROSS SECTIONS SHEET 2 OF 5	-	A	A	A	A	B	B	C	C	-	
5941 ENG BE2 444	ROAD USER SAFETY CROSS SECTIONS SHEET 3 OF 5	-	A	A	A	A	B	B	C	C	-	
5941 ENG BE2 445	ROAD USER SAFETY CROSS SECTIONS SHEET 4 OF 5	-	A	A	A	A	B	B	C	C	-	
5941 ENG BE2 446	ROAD USER SAFETY CROSS SECTIONS SHEET 5 OF 5	-	A	A	A	A	B	B	B	B	-	
5941 ENG BE2 460	SWALE CONTROL LINE LAYOUT PLAN	-	-	-	-	-	-	-	-	-	A	
5941 ENG BE2 461	SWALE LONGITUDINAL SECTION AND SETOUT TABLE	-	-	-	-	-	-	-	-	-	A	
5941 ENG BE2 570	OPERATIONAL PHASE BIORETENTION BASIN SHEET 1 OF 4	A	B	C	C	C	D	D	D	D	-	
5941 ENG BE2 571	OPERATIONAL PHASE BIORETENTION BASIN SHEET 2 OF 4	A	B	C	C	C	D	D	D	D	E	
5941 ENG BE2 572	OPERATIONAL PHASE BIORETENTION BASIN SHEET 3 OF 4	A	B	C	C	C	D	D	D	D	-	
5941 ENG BE2 573	OPERATIONAL PHASE BIORETENTION BASIN SHEET 4 OF 4	A	A	B	B	B	C	C	C	C	-	
5941 ENG BE2 850	LOT 205 BOULDER RETAINING WALL CONTROL LINE AND SETOUT TABLE	-	-	-	-	-	-	A	A	A	B	
5941 ENG BE2 851	LOT 205 BOULDER RETAINING WALL LONGITUDINAL SECTION RW1	-	-	-	-	-	-	A	A	A	B	
5941 ENG BE2 852	LOT 205 BOULDER RETAINING WALL LONGITUDINAL SECTION RW2	-	-	-	-	-	-	A	A	A	B	
5941 ENG BE2 853	LOT 205 BOULDER RETAINING WALL LONGITUDINAL SECTION RW3	-	-	-	-	-	-	A	A	A	B	
5941 ENG BE2 854	BOULDER RETAINING WALL TYPICAL DETAILS	-	-	-	-	-	-	A	A	A	B	
5941 ENG BE2 860	LOT 201 BOULDER RETAINING WALL LAYOUT PLAN AND DETAILS	-	-	-	-	-	-	-	-	-	A	

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OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL VANTAGE YATALA - STAGE 2



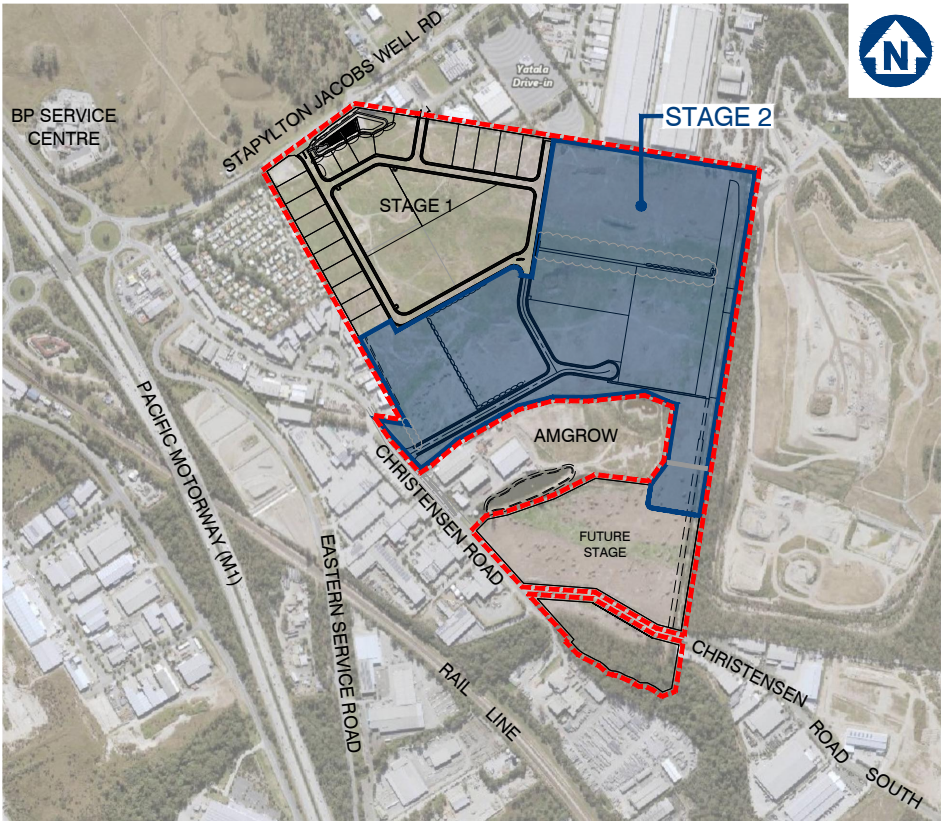
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DRAWING INDEX		
DRAWING No.	REV. No	DRAWING TITLE
594I ENG BE2 001	F	DRAWING INDEX AND LOCALITY PLAN
594I ENG BE2 002	B	GENERAL NOTES SHEET 1 OF 2
594I ENG BE2 003	B	GENERAL NOTES SHEET 2 OF 2
594I ENG BE2 004	B	LEGEND
594I ENG BE2 005	E	KEY PLAN LAYOUT
594I ENG BE2 010	D	EXISTING SURFACE AND FEATURES PLAN SHEET 1 OF 7
594I ENG BE2 011	C	EXISTING SURFACE AND FEATURES PLAN SHEET 2 OF 7
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594I ENG BE2 029	D	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT SHEET 1 OF 4
594I ENG BE2 030	E	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT SHEET 2 OF 4
594I ENG BE2 031	D	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT SHEET 3 OF 4
594I ENG BE2 032	C	CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT SHEET 4 OF 4
594I ENG BE2 033	C	CONSTRUCTION PHASE SEDIMENT BASIN SECTIONS
594I ENG BE2 034	B	CONSTRUCTION PHASE SEDIMENT BASIN TYPICAL SECTIONS
594I ENG BE2 035	B	SEDIMENT AND EROSION TYPICAL DETAILS
594I ENG BE2 050	F	BULK EARTHWORKS LAYOUT PLAN SHEET 1 OF 7
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594I ENG BE2 052	F	BULK EARTHWORKS LAYOUT PLAN SHEET 3 OF 7
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594I ENG BE2 100	E	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 1 OF 7
594I ENG BE2 101	D	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 2 OF 7
594I ENG BE2 102	E	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 3 OF 7
594I ENG BE2 103	D	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 4 OF 7
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594I ENG BE2 105	D	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 6 OF 7
594I ENG BE2 106	D	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 7 OF 7
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594I ENG BE2 155	C	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11
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594I ENG BE2 161	B	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11
594I ENG BE2 163	B	BULK EARTHWORKS ROAD TYPICAL SECTIONS
594I ENG BE2 400	E	CONTROL LINE LAYOUT PLAN
594I ENG BE2 401	B	CONTROL LINE SETOUT TABLES SHEET 1 OF 2
594I ENG BE2 402	B	CONTROL LINE SETOUT TABLES SHEET 2 OF 2
594I ENG BE2 410	B	ROAD 01 LONGITUDINAL SECTION SHEET 1 OF 2
594I ENG BE2 411	B	ROAD 01 LONGITUDINAL SECTION SHEET 2 OF 2
594I ENG BE2 412	B	FAIRWAY STREET LONGITUDINAL SECTION
594I ENG BE2 414	B	AMGROW DAM OVERFLOW DRAIN LONGITUDINAL SECTION

594I ENG BE2 430	B	ROAD 01 CROSS SECTIONS SHEET 1 OF 8
594I ENG BE2 431	B	ROAD 01 CROSS SECTIONS SHEET 2 OF 8
594I ENG BE2 432	B	ROAD 01 CROSS SECTIONS SHEET 3 OF 8
594I ENG BE2 433	B	ROAD 01 CROSS SECTIONS SHEET 4 OF 8
594I ENG BE2 434	B	ROAD 01 CROSS SECTIONS SHEET 5 OF 8
594I ENG BE2 435	B	ROAD 01 CROSS SECTIONS SHEET 6 OF 8
594I ENG BE2 436	B	ROAD 01 CROSS SECTIONS SHEET 7 OF 8
594I ENG BE2 437	B	ROAD 01 CROSS SECTIONS SHEET 8 OF 8
594I ENG BE2 438	B	FAIRWAY STREET CROSS SECTIONS SHEET 1 OF 4
594I ENG BE2 439	B	FAIRWAY STREET CROSS SECTIONS SHEET 2 OF 4
594I ENG BE2 440	B	FAIRWAY STREET CROSS SECTIONS SHEET 3 OF 4
594I ENG BE2 441	B	FAIRWAY STREET CROSS SECTIONS SHEET 4 OF 4
594I ENG BE2 442	B	ROAD USER SAFETY CROSS SECTIONS – SHEET 1 OF 5
594I ENG BE2 443	C	ROAD USER SAFETY CROSS SECTIONS – SHEET 2 OF 5
594I ENG BE2 444	C	ROAD USER SAFETY CROSS SECTIONS – SHEET 3 OF 5
594I ENG BE2 445	C	ROAD USER SAFETY CROSS SECTIONS – SHEET 4 OF 5
594I ENG BE2 446	B	ROAD USER SAFETY CROSS SECTIONS – SHEET 5 OF 5
594I ENG BE2 460	A	SWALE CONTROL LINE LAYOUT PLAN
594I ENG BE2 461	A	SWALE LONGITUDINAL SECTION AND SETOUT TABLE
594I ENG BE2 570	D	OPERATIONAL PHASE BIORETENTION BASIN SHEET 1 OF 4
594I ENG BE2 571	E	OPERATIONAL PHASE BIORETENTION BASIN SHEET 2 OF 4
594I ENG BE2 572	D	OPERATIONAL PHASE BIORETENTION BASIN SHEET 3 OF 4
594I ENG BE2 573	C	OPERATIONAL PHASE BIORETENTION BASIN SHEET 4 OF 4
594I ENG BE2 850	A	LOT 205 BOULDER RETAINING WALL CONTROL LINE AND SETOUT TABLE
594I ENG BE2 851	A	LOT 205 BOULDER RETAINING WALL LONGITUDINAL SECTION RW1
594I ENG BE2 852	A	LOT 205 BOULDER RETAINING WALL LONGITUDINAL SECTION RW2
594I ENG BE2 853	A	LOT 205 BOULDER RETAINING WALL LONGITUDINAL SECTION RW3
594I ENG BE2 854	A	BOULDER RETAINING WALL TYPICAL DETAILS
594I ENG BE2 860	A	LOT 201 BOULDER RETAINING WALL LAYOUT PLAN AND DETAILS



LOCALITY PLAN

SCALE 1: 8000 (A1)

CLIENT



FRASERS PROPERTY
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VantageYatala

SITE ADDRESS

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

DWG No. 594I ENG BE2 001 – REV F

MAY 2022

HES BASIN GENERAL NOTES

AUTO DOSER

1. PROVIDED AS EITHER 'FLOC BOX' OR 'FOD-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. SPILLWOCK 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 FLOCK, 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 A 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.

	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
	BIEN 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
RW	RW	RW	RW	PROPOSED ROOFWATER
SS	SS	SS	SS	PROPOSED SUBSOIL
W	W	W	W	PROPOSED WATER
RQW	RQW	RQW		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
RW	RW	RW	RW	EXISTING SUBSOIL
SS	SS	SS	SS	EXISTING WATER
W	W	W	W	EXISTING RECYCLED WATER
RQW	RQW	RQW		EXISTING OIL
OIL	OIL	OIL	OIL	EXISTING FUEL
F	F	F	F	EXISTING GAS
G	G	G	G	EXISTING PIPELINE
P	P	P	P	EXISTING HIGH VOLTAGE ELECTRICITY
HV	HV	HV	HV	EXISTING UNDERGROUND ELECTRICITY
E	E	E	E	EXISTING OVERHEAD ELECTRICITY
E	E	E	E	EXISTING LIGHTING
L	L	L	L	EXISTING TELSTRA
T	T	T	T	EXISTING COMMUNICATIONS
C	C	C	C	EXISTING GAS, ELECT
GE	GE	GE	GE	EXISTING GAS, TELSTRA
GT	GT	GT	GT	EXISTING ELECT, TELSTRA
ET	ET	ET	ET	EXISTING GAS, ELECTRICITY, TELSTRA
GET	GET	GET	GET	

— RM — ✕ — RM — ✕ — RM — ✕ — RM — ✕ —	DEMOLISH RISING MAIN
— S — ✕ — S — ✕ — S — ✕ — S — ✕ —	DEMOLISH SEWER
— SW — ✕ — SW — ✕ — SW — ✕ — SW — ✕ —	DEMOLISH STORMWATER
— SS — ✕ — SS — ✕ — SS — ✕ — SS — ✕ —	DEMOLISH SUBSOIL
— W — ✕ — W — ✕ — W — ✕ — W — ✕ —	DEMOLISH WATER
— OIL — ✕ — OIL — ✕ — OIL — ✕ — OIL — ✕ —	DEMOLISH OIL
— F — ✕ — F — ✕ — F — ✕ — F — ✕ — F — ✕ —	DEMOLISH FUEL
— HV — ✕ — HV — ✕ — HV — ✕ — HV — ✕ —	DEMOLISH HIGH VOLTAGE ELECTRICITY
— E — ✕ — E — ✕ — E — ✕ — E — ✕ — E — ✕ —	DEMOLISH UNDERGROUND ELECTRICITY
— E — ✕ — E — ✕ — E — ✕ — E — ✕ — E — ✕ —	DEMOLISH OVERHEAD ELECTRICITY
— L — ✕ — L — ✕ — L — ✕ — L — ✕ — L — ✕ —	DEMOLISH LIGHTING
— G — ✕ — G — ✕ — G — ✕ — G — ✕ — G — ✕ —	DEMOLISH GAS
— P — ✕ — P — ✕ — P — ✕ — P — ✕ — P — ✕ —	DEMOLISH PIPELINE
— T — ✕ — T — ✕ — T — ✕ — T — ✕ — T — ✕ —	DEMOLISH TELSTRA
— C — ✕ — C — ✕ — C — ✕ — C — ✕ — C — ✕ —	DEMOLISH COMMUNICATIONS

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
	PROPOSED ROAD EDGE GUIDE POST
	EXISTING BIN
	POST BOX
	TELEPHONE BOX
	TELSTRA PIT
	TELSTRA MARKER POST
	WATER METER
	WATER VALVE
	FIRE HYDRANT
	WATER TAP
	WATER HYDRANT
	WATER TEE
	WATER REDUCER
	WATER ENDCAP
	WATER CONNECTION
	WATER CROSSING
	WATER DIEL
	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
	GULLY PIT (LIP INLINE) BARRIER KERB
	GULLY PIT (LIP INLINE) BARRIER KERB
	GULLY PIT (LIP INLINE) ROLL TOP KERB
	GULLY PIT (LIP INLINE) ROLL TOP KERB
	GULLY PIT (KERB INLINE) – GRADE
	GULLY PIT (KERB INLINE) – SAG
	INFILTRATION TRENCH
	HEADWALL
	GROSS POLLUTANT TRAP
	STORMWATER CHAMBER

	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

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VantageYatala
STAGE 2

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

Lot:	502
Plan:	SP316137
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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LEGEND

B	10/01/22	INFORMATION REQUEST RESPONSE	DV	MC
A	2011/20	ORIGINAL ISSUE	BA	MC
Issue	Date	Description	DRN	CH

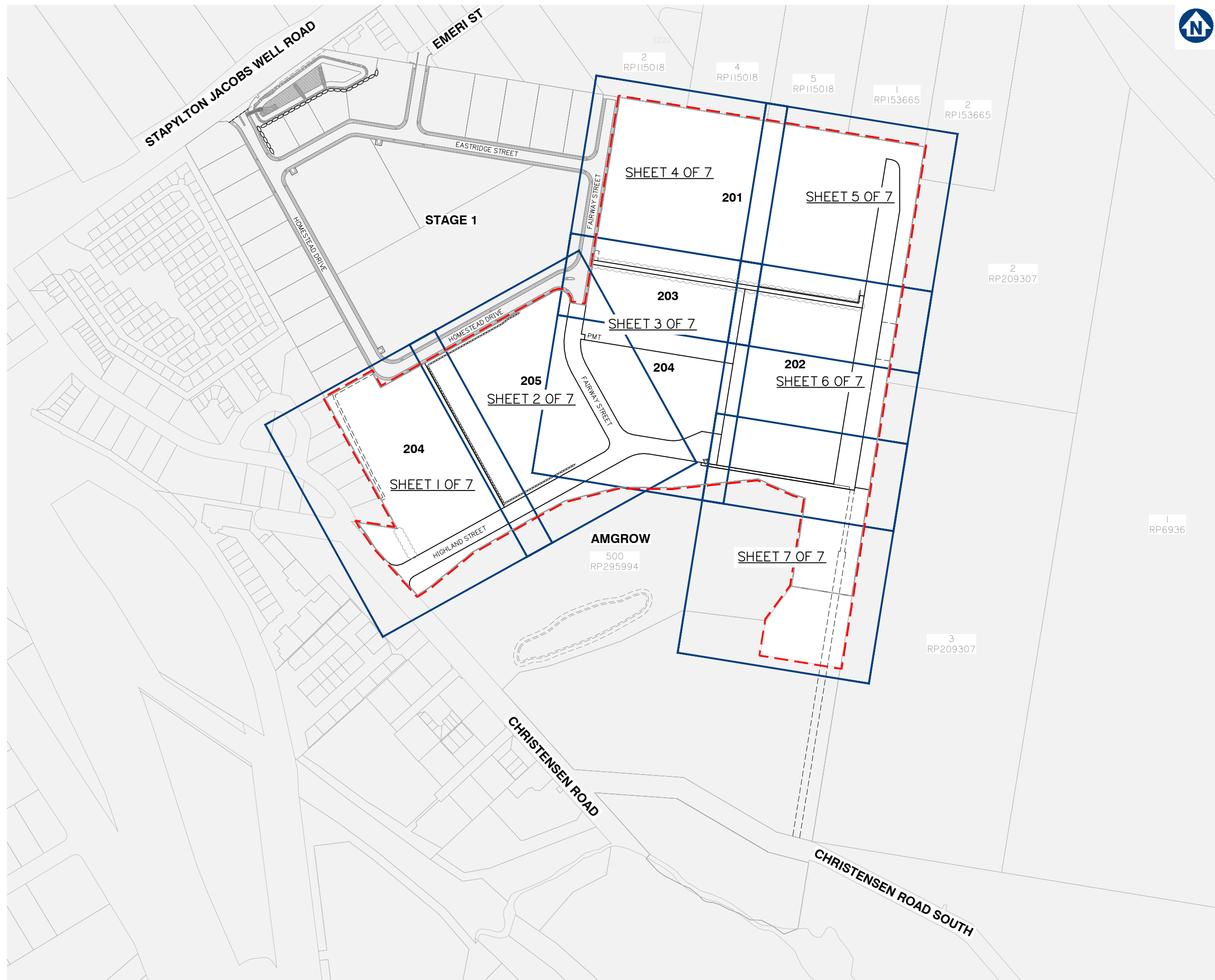
Scale at A1:	NTS
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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No:
5941 ENG BE2 004

Rev. No:
B

LEGEND



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

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NOT FOR CONSTRUCTION

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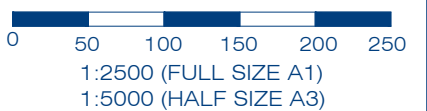
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DRAWING TITLE

KEY PLAN LAYOUT

E	18/05/22	BOUNDARY ALIGNMENT LOT 201		LAB	MG
D	1/01/22	BOUNDARY FOR LOT 205/206 CHANGED		DV	MG
C	24/09/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED		IG	MG
B	31/01/21	INFORMATION REQUEST RESPONSE		IG	MG
A	2011/20	ORIGINAL ISSUE		BA	MG
Issue	Date	Description		DRN	CHK

SCALE IN METRES

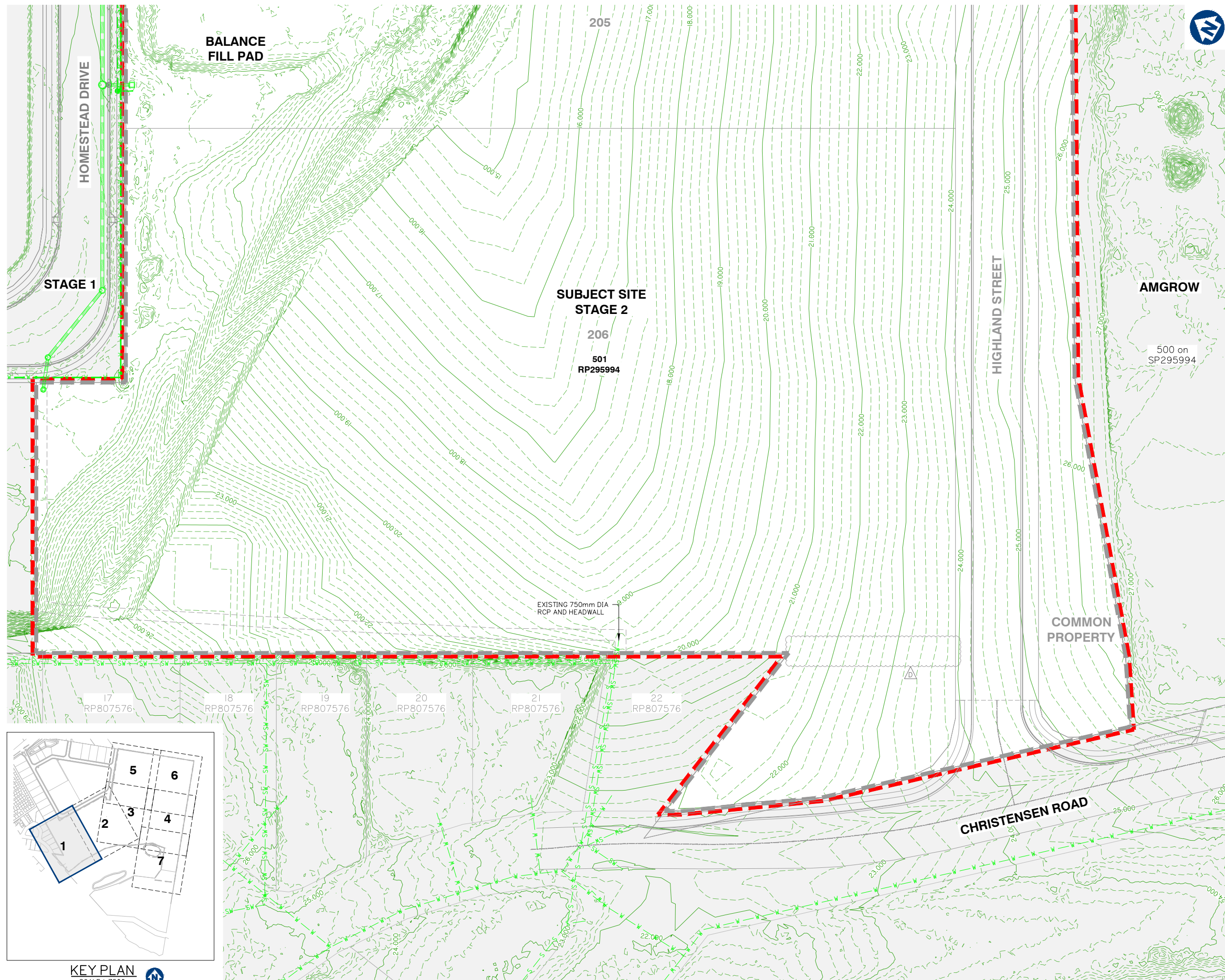


Scale at A1: 1:2500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	18-05-2022

Drawing No:
5941 ENG BE2 005

Rev. No:
E



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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207THIS DRAWING IS INTENDED TO
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RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 1 OF 7

D	23/05/22	LOT 201 BOUNDARY ALIGNMENT	LAB	MG
C	10/02/22	LOT BOUNDARY FOR 205/206 MOVED	DV	MG
B	24/09/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
A	20/11/20	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

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

Scale at A1: 1:500

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

Drawing No:
5941 ENG BE2 010Rev. No:
D

EXISTING SURFACE AND FEATURES PLAN SHEET 1 OF 7



Project: **VantageYatala**
STAGE 2

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Plan:	SP316137
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Contour Interval:	-
PSM:	-
RI :	-

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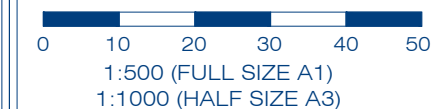
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 2 OF 7

G	10/02/22	LOT BOUNDARY FOR 205/206 MOVED			DV MG
B	20/02/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED			JG MG
A	20/1/20	ORIGINAL ISSUE			BA MG
Issue	Date	Description			DRN CHN

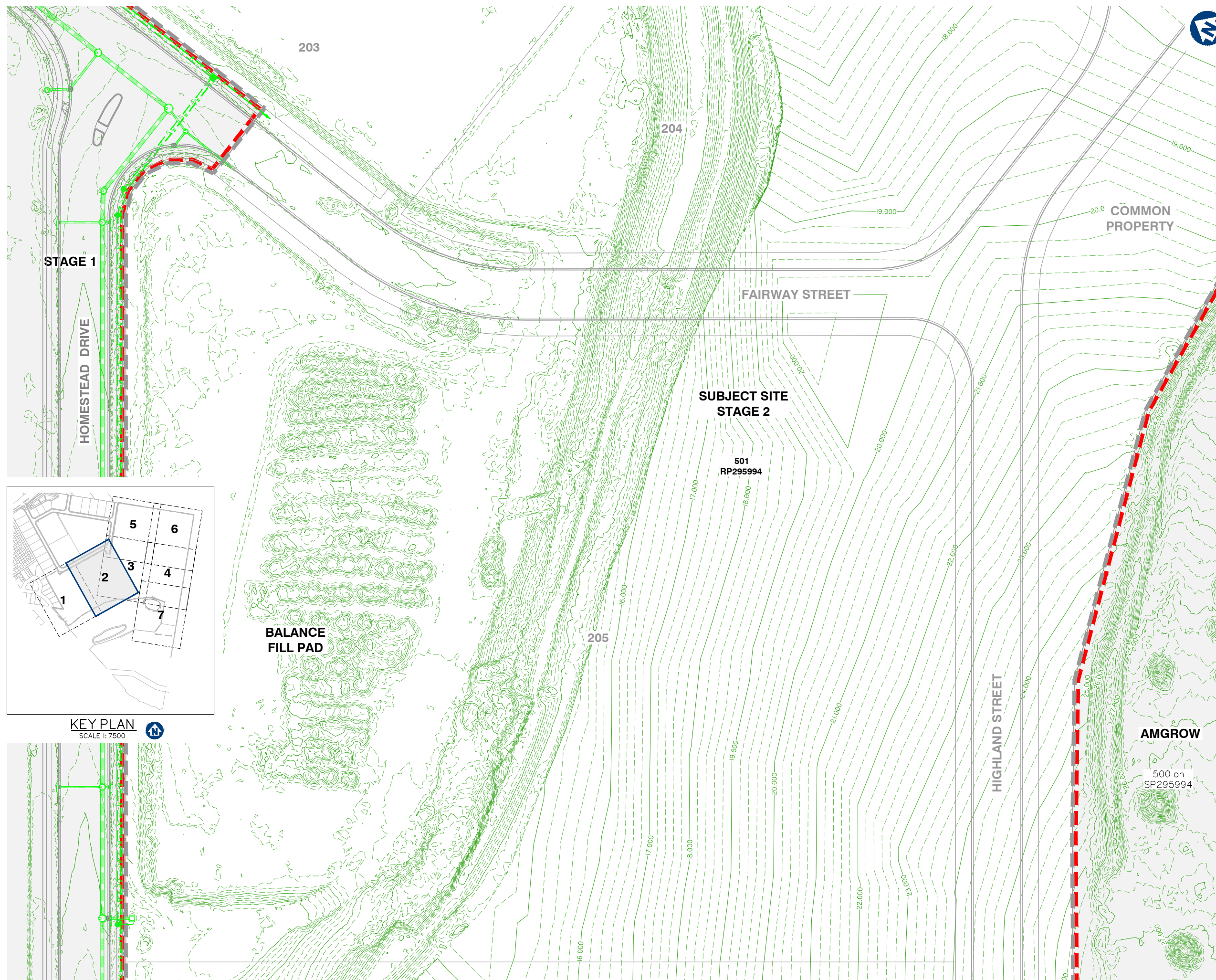
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
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Date:	10-02-2022

Drawing No:	Rev. No:
5941 ENG BE2 011	C





Project: **VantageYatala**
STAGE 2

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C	23/05/22	LOT 201.207 BOUNDARY ALIGNMENT	LAB	MC	
B	24/09/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MA	
A	2011/20	ORIGINAL ISSUE	BA	CH	
ISSUE	Date	Description	DEN	CH	

0 10 20 30 40 50

1:500 (FULL SIZE A1)

1:1000 (HALF SIZE A3)

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23/05/2022

EXISTING SURFACE AND FEATURES PLAN SHEET 3 OF 7



G:\Projects\5941\ENGINEERING\Acad\BE2 OGL\Current\5941 ENG BE2 010-018.dwg



Project:

VantageYatala
STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 4 OF 7

[illegible]

SCALE IN METRES



Scale at A1:	1:500
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5941 ENG BE2 013	C



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STAGE 2

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Meridian:	-
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PSM:	-
RI :	-

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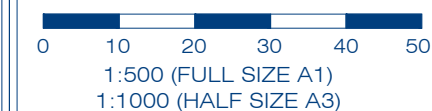
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DRAWING TITLE
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AND FEATURES PLAN
SHEET 5 OF 7

C	230522	LOT 201 BOUNDARY ALIGNMENT	LAB	MG	
B	240921	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
A	201120	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	TBN	Chn	

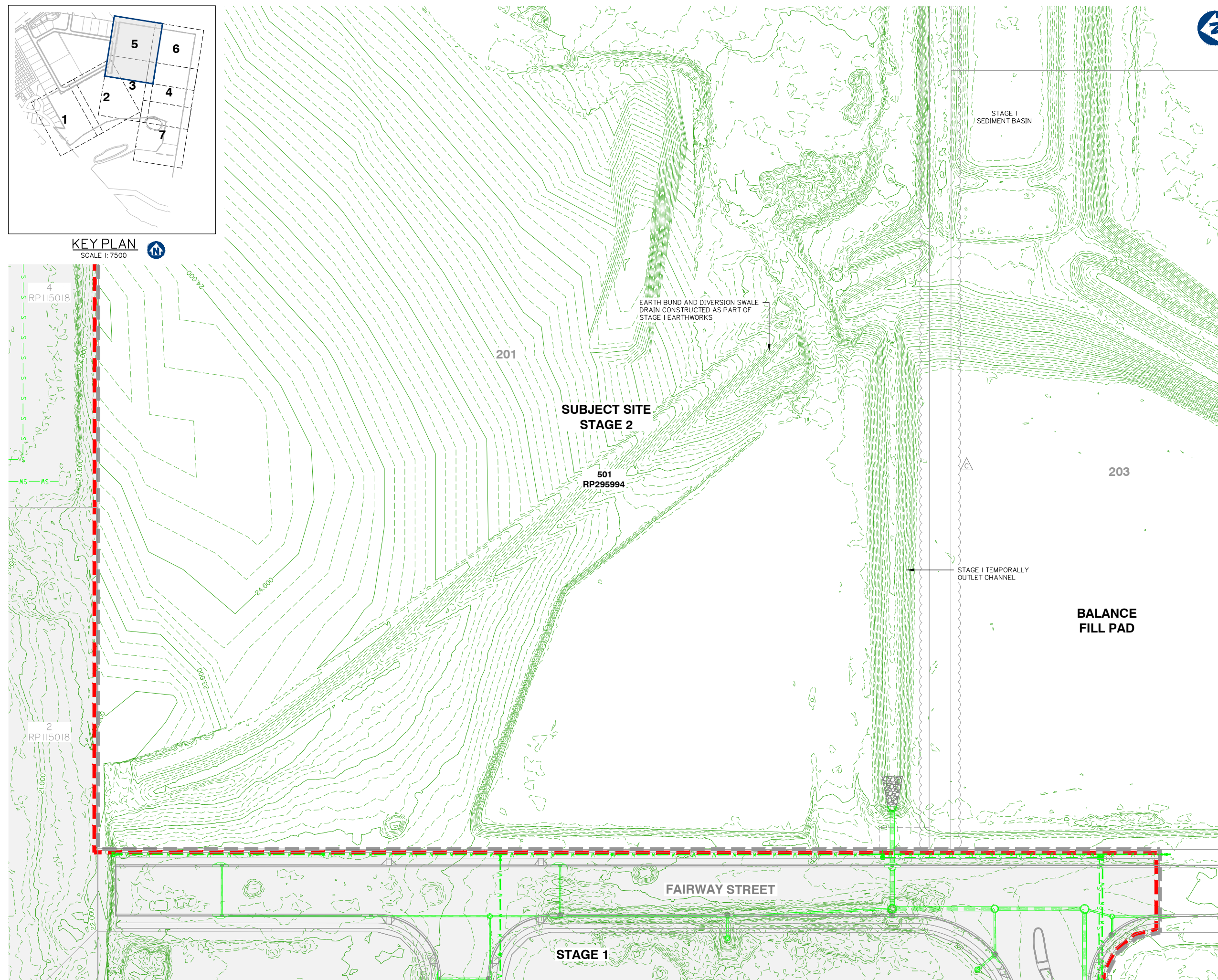
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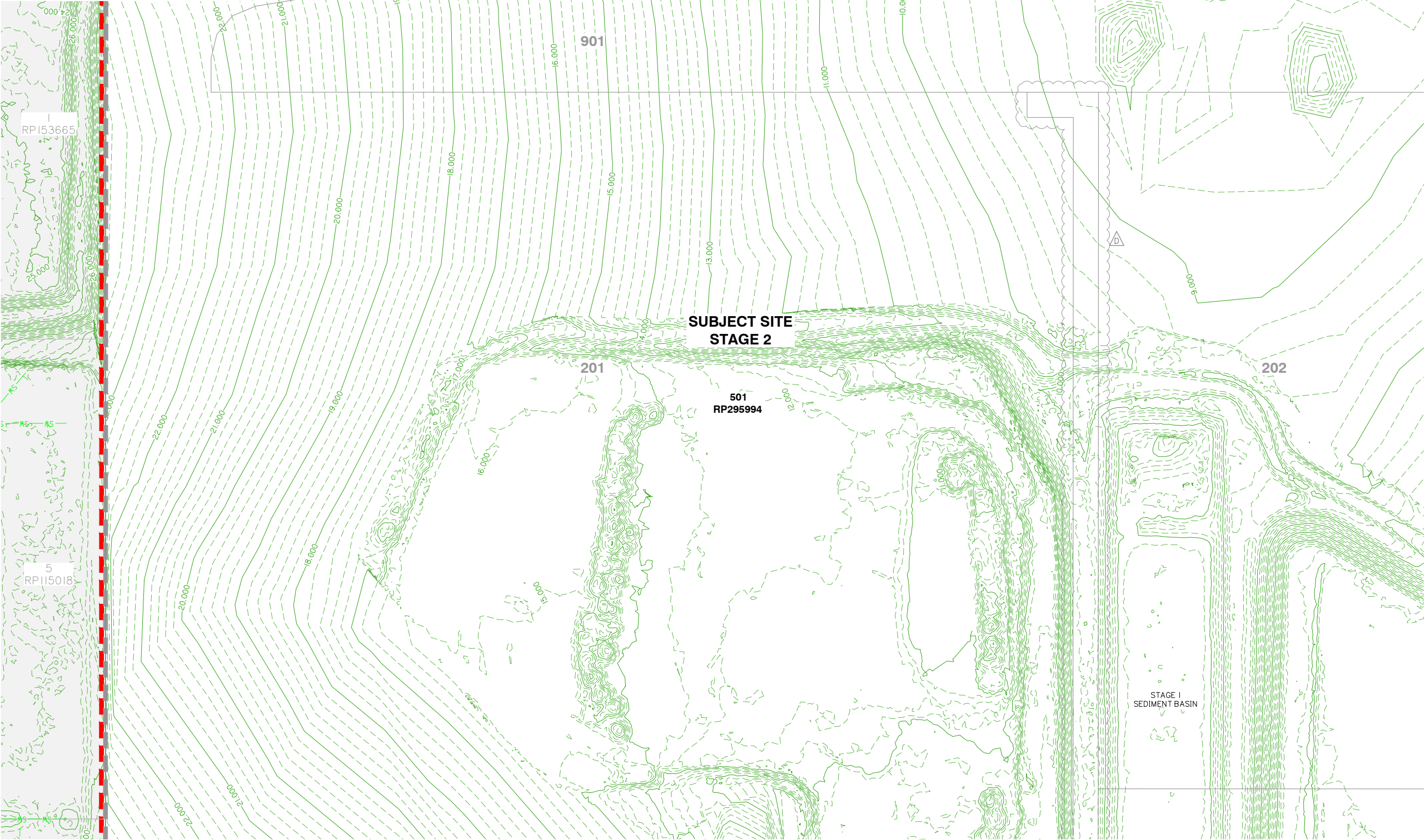
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23/05/2022

Drawing No:	Rev. No:
5941 ENG BE2 014	C





KEY PLAN
SCALE 1: 7500



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STAGE 2

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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 6 OF 7

D	23/05/22	LOT 201/207 BOUNDARY MOVED	LAB	MG	
C	24/09/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
B	31/03/21	INFORMATION REQUEST RESPONSE	IG	MG	
A	20/11/20	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



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

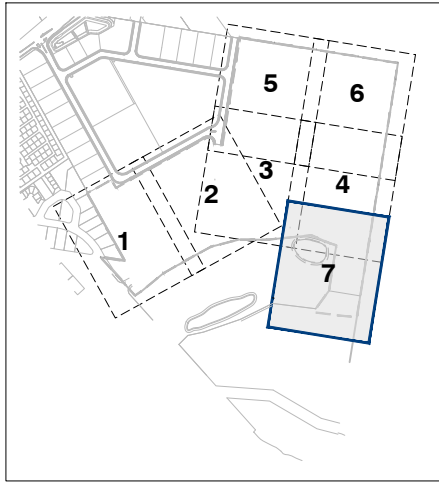
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Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

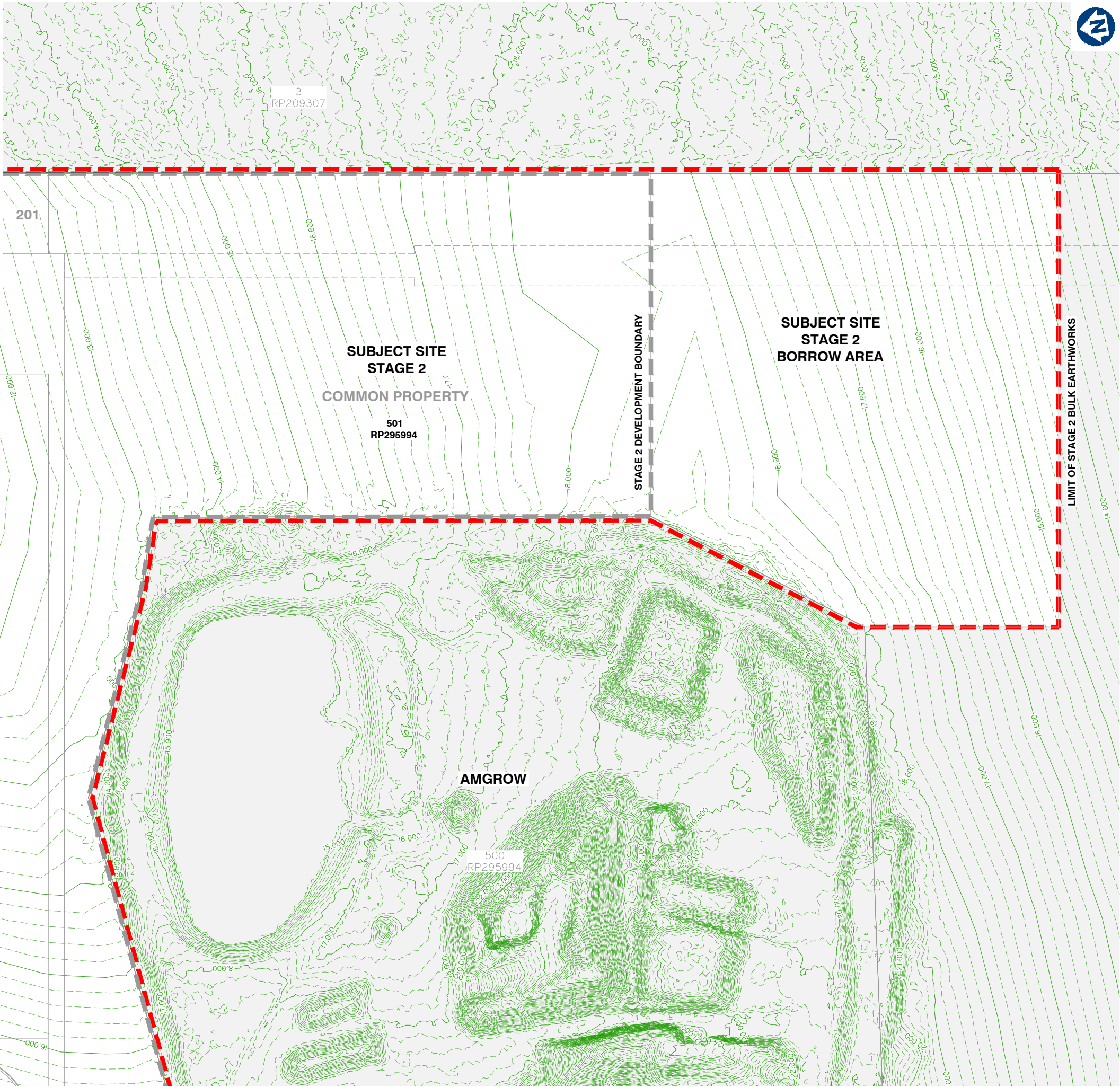
Drawing No:
5941 ENG BE2 015

Rev. No:
D

EXISTING SURFACE AND FEATURES PLAN SHEET 6 OF 7



KEY PLAN
SCALE 1:7500



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EXISTING SURFACE AND FEATURES PLAN SHEET 7 OF 7



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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 7 OF 7

B	24/09/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
A	20/11/20	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



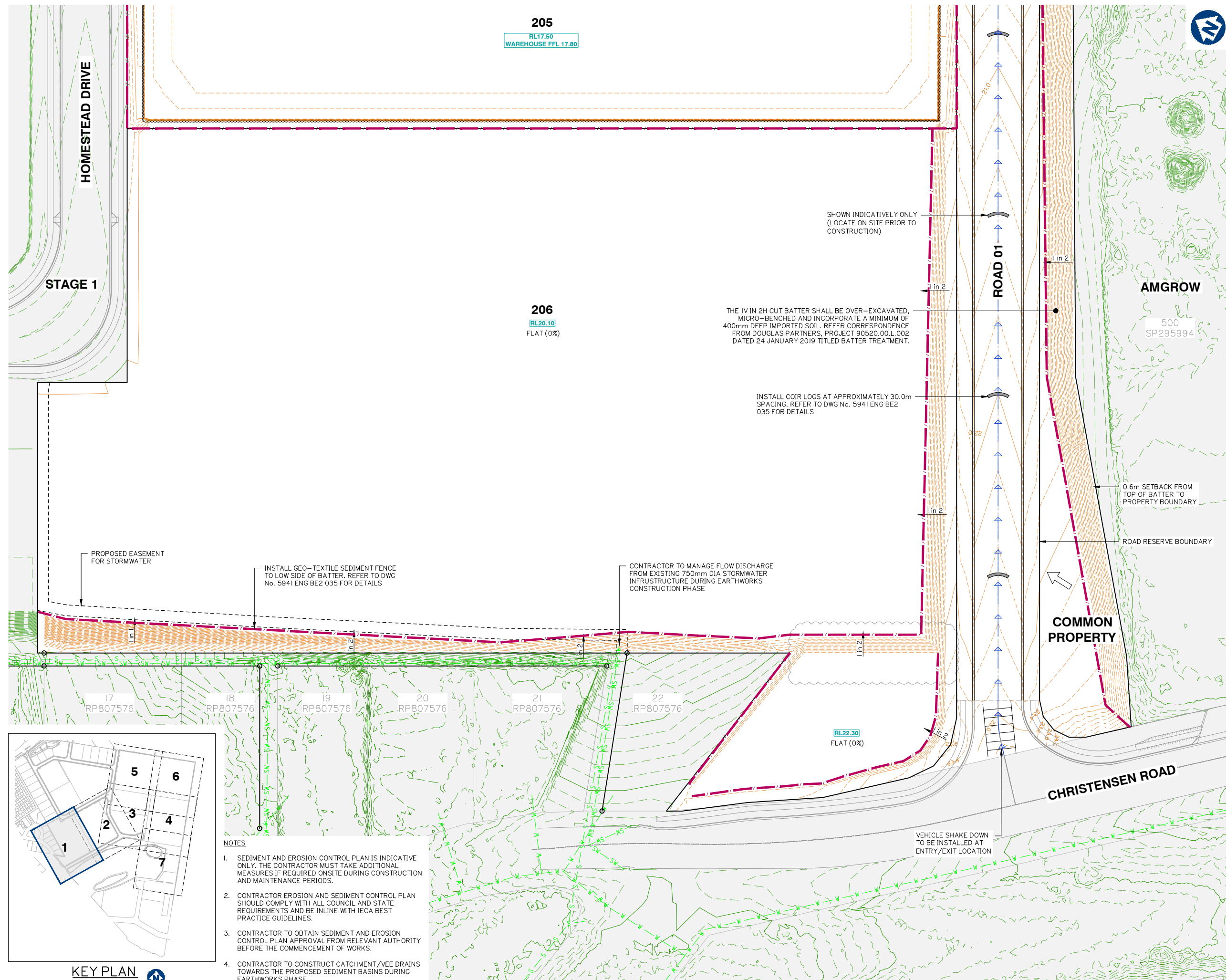
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No:
5941 ENG BE2 016

Rev. No:
B



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STAGE 2

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DRAWING TITLE
**SEDIMENT AND
EROSION CONTROL
PLAN SHEET 1 OF 7**

Issue	Date	Description	BA	MG	DRN	CHK
E	23-05-2022	LOT 201/207 BOUNDARY ALIGNMENT	LAB	MG		
D	10-02-2022	LOT 205 BOUNDARY AND EARTHWORKS	DV	MG		
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-11-2020	ORIGINAL ISSUE	BA	MG		

SCALE IN METRES



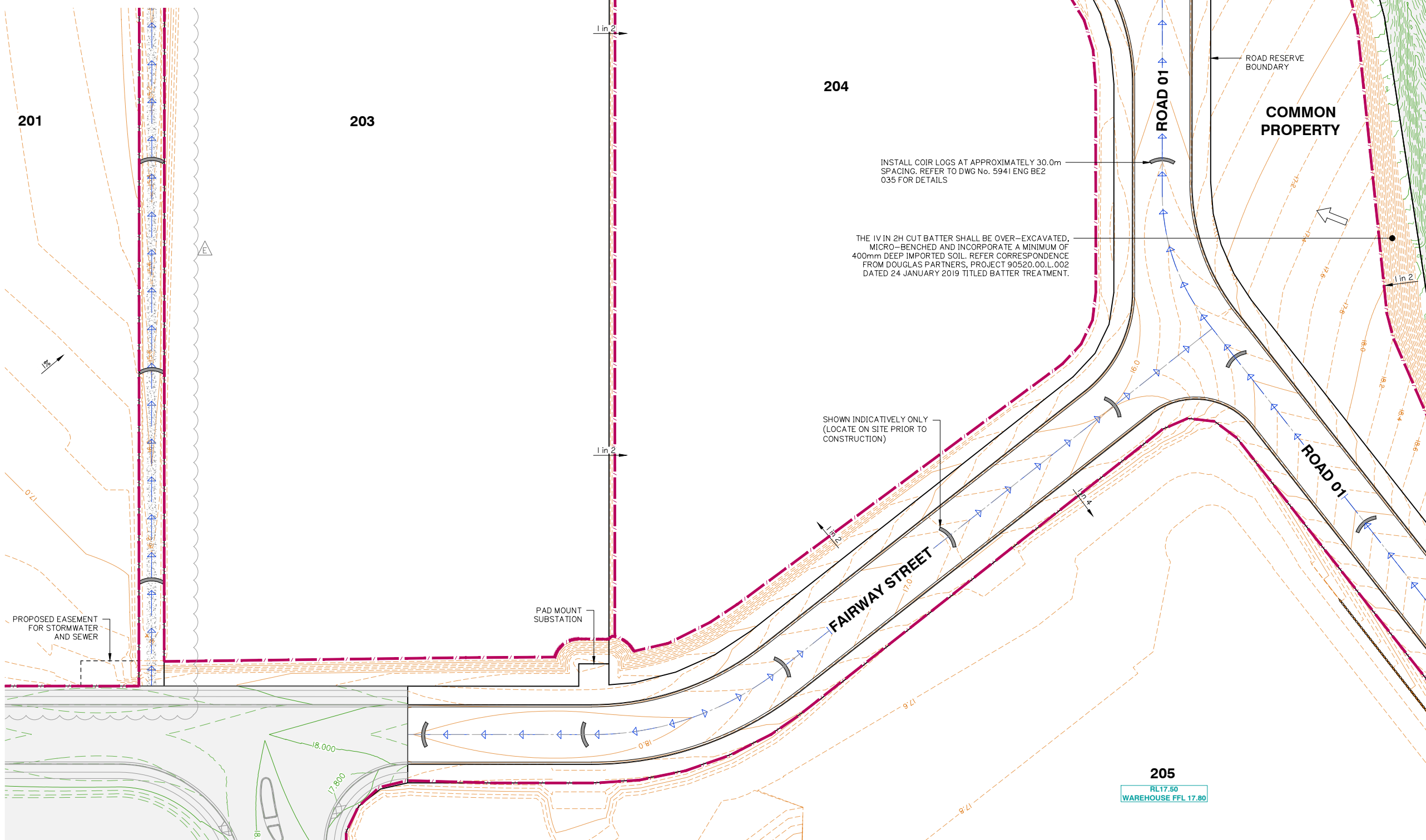
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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

Drawing No:
5941 ENG BE2 020Rev. No:
E

1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
2. CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
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.

KEY PLAN
SCALE 1:7500



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Project:

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STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
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RPD:

Lot:	502
Plan:	SP316137
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Level Datum:	AHD
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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 3 OF 7

E	23-05-2022	LOT 201 BOUNDARY ALIGNMENT	LAB	MC
D	09-11-2021	LOT 205 BOUNDARY AND EARTHWORKS	DV	MC
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IQ	MC
B	15-02-2021	INFORMATION REQUEST RESPONSE	IQ	MC
A	20-11-2020	ORIGINAL ISSUE	BA	MC
Issue	Date	Description	DRN	CH

SCALE IN METRES



1:500 (FULL SIZE A1)

1:1000 (HALF SIZE A3)

Scale at A1: 1:500

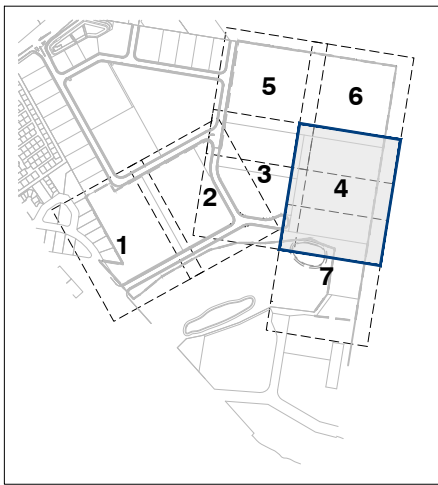
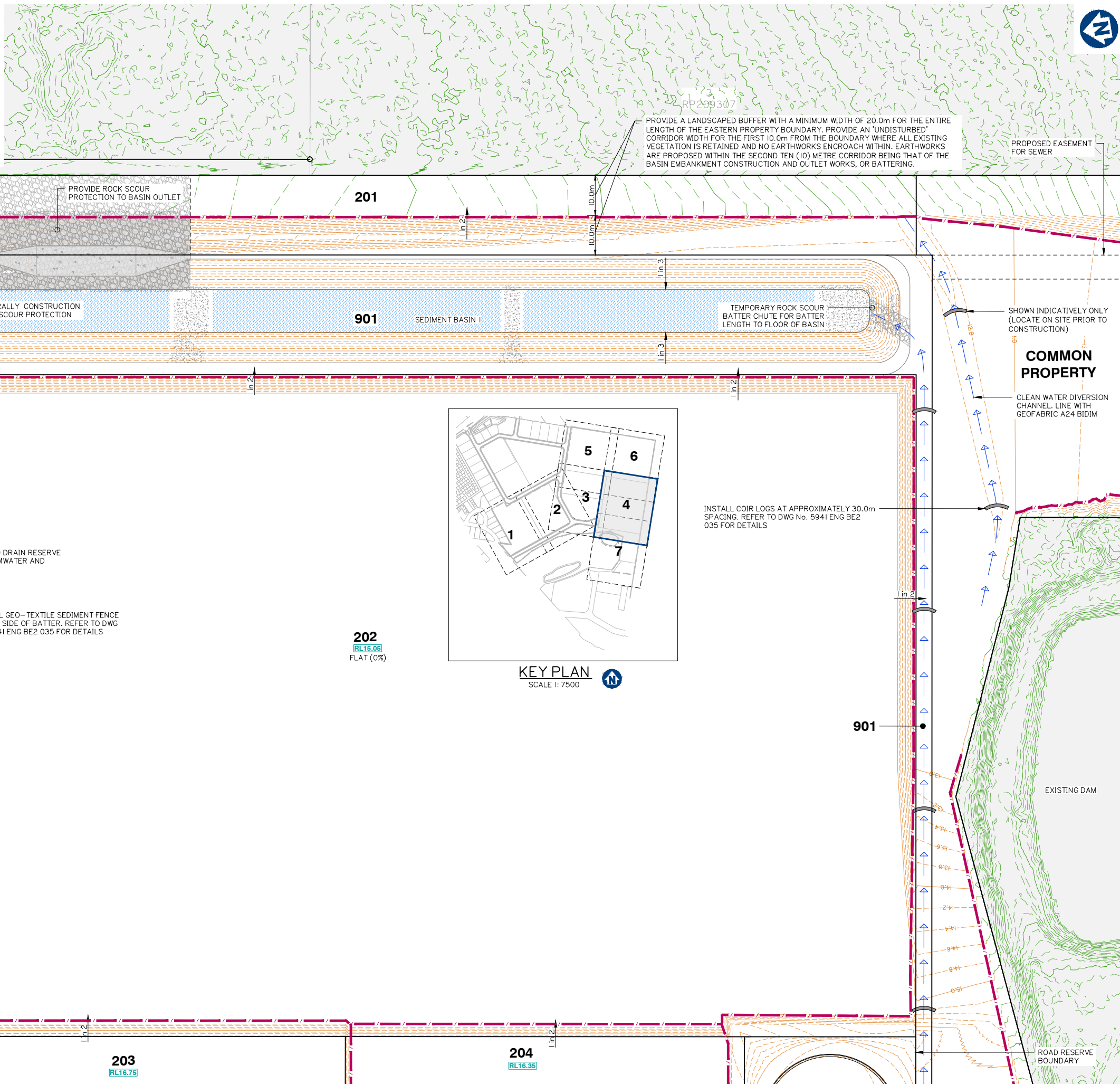
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

Drawing No:
5941 ENG BE2 022

Rev. No:
E

NOTES

1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
2. CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
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.



KEY PLAN
SCALE 1:7500

Client:



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Project:

VantageYatala
STAGE 2

Site Address:

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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 7

D	23-05-2022	LOT 201 BOUNDARY ALIGNMENT	LAB	MG
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
B	31/03/21	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

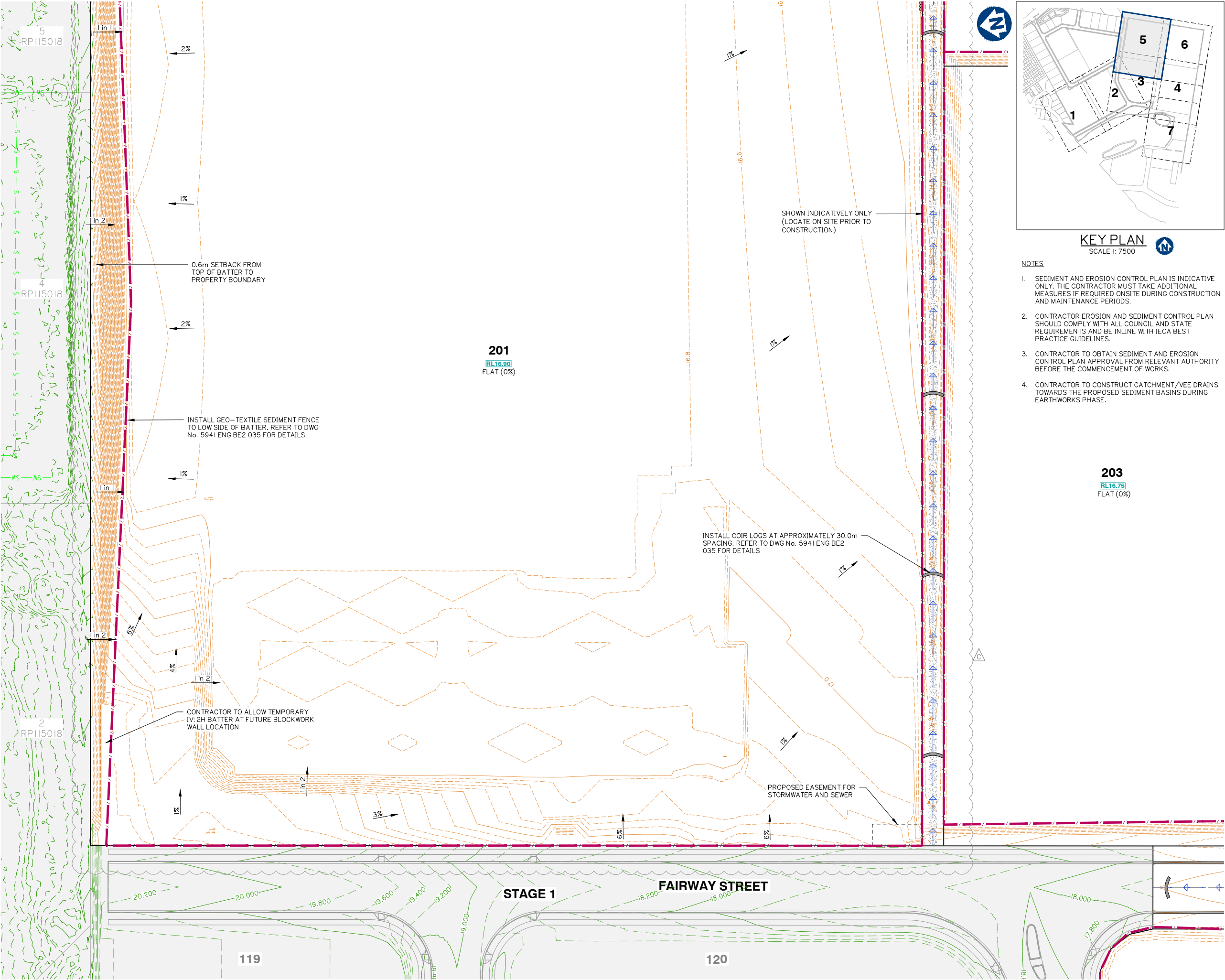


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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
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Drawing No: 5941 ENG BE2 023
Rev. No: D



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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 5 OF 7

Rev.	Date	Description	LAB	MG
C	23-05-2022	LOT 201 BOUNDARY RECONFIGURATION	IG	MG
B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

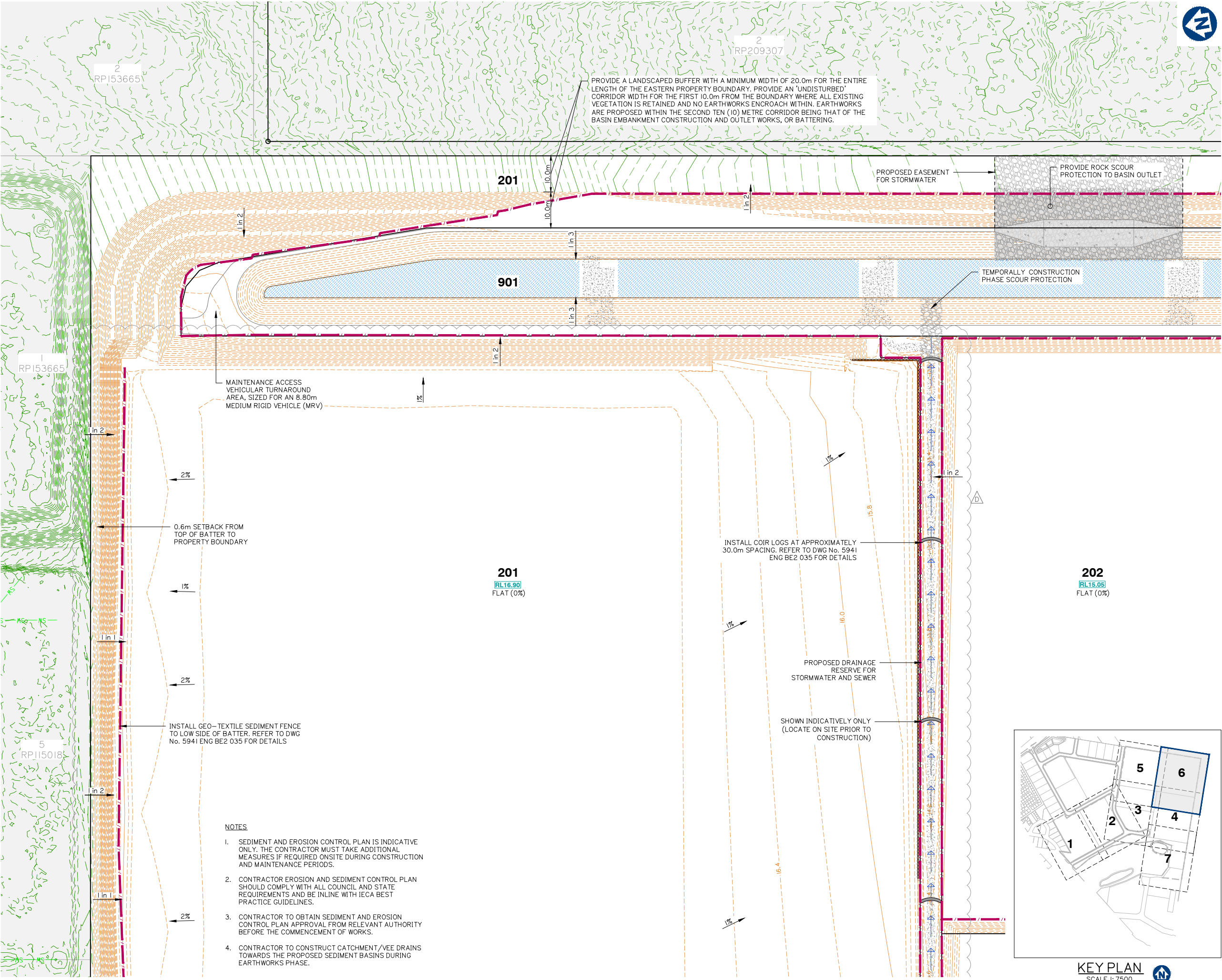
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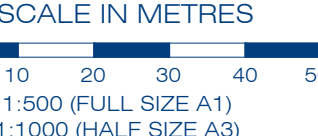
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Drafted: IG / BA / LAB
Approved: MG
RPEQ: 16939
Signed:
Date: 23/05/2022

Drawing No: 5941 ENG BE2 024
Rev. No: C

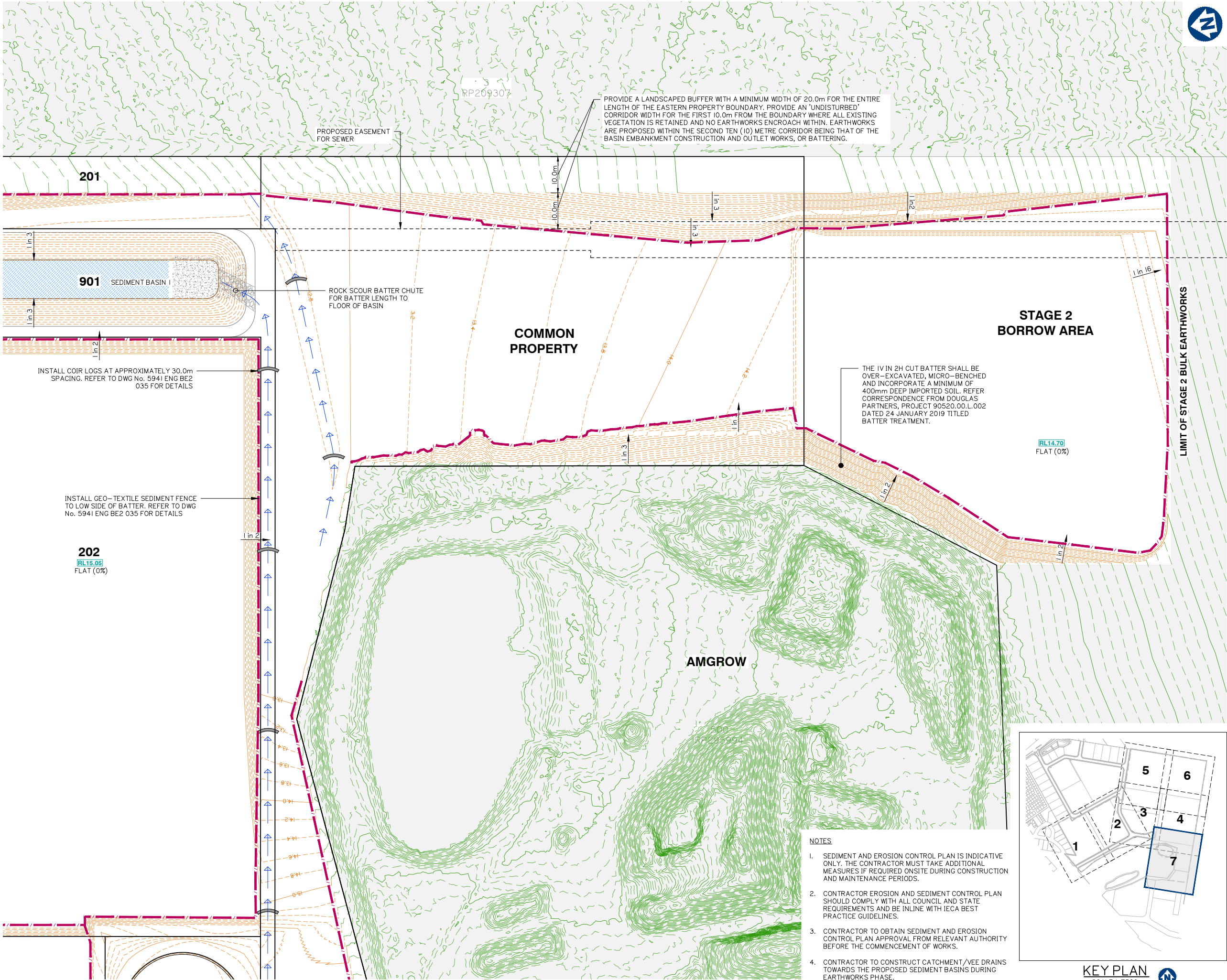


DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 6 OF 7

Rev	Date	Description	LAB	MG
D	23-05-2022	LOT 201 BOUNDARY ALIGNMENT	LAB	MG
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
B	31/03/21	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK



Scale at A1:	1:500
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022



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Project:

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STAGE 2

Site Address:

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DRAWING TITLE
SEDIMENT AND
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PLAN SHEET 7 OF 7

Issue	Date	Description	BA	MG	DRN	CHK
D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG		
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-11-2021	ORIGINAL ISSUE	BA	MG		

SCALE IN METRES



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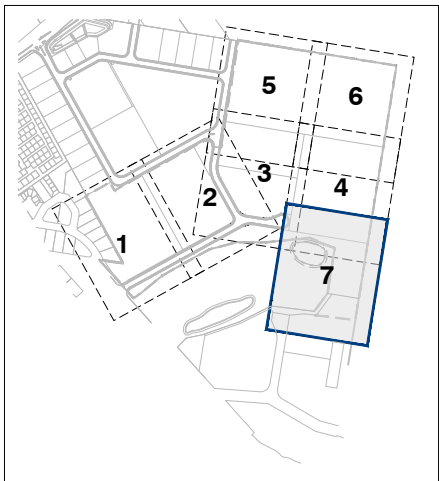
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Drafted: IG / BA / LAB
Approved: MG
RPEQ: 16939
Signed: *[Signature]*
Date: 24-09-2021

Drawing No:
5941 ENG BE2 026

Rev. No:
D

NOTES

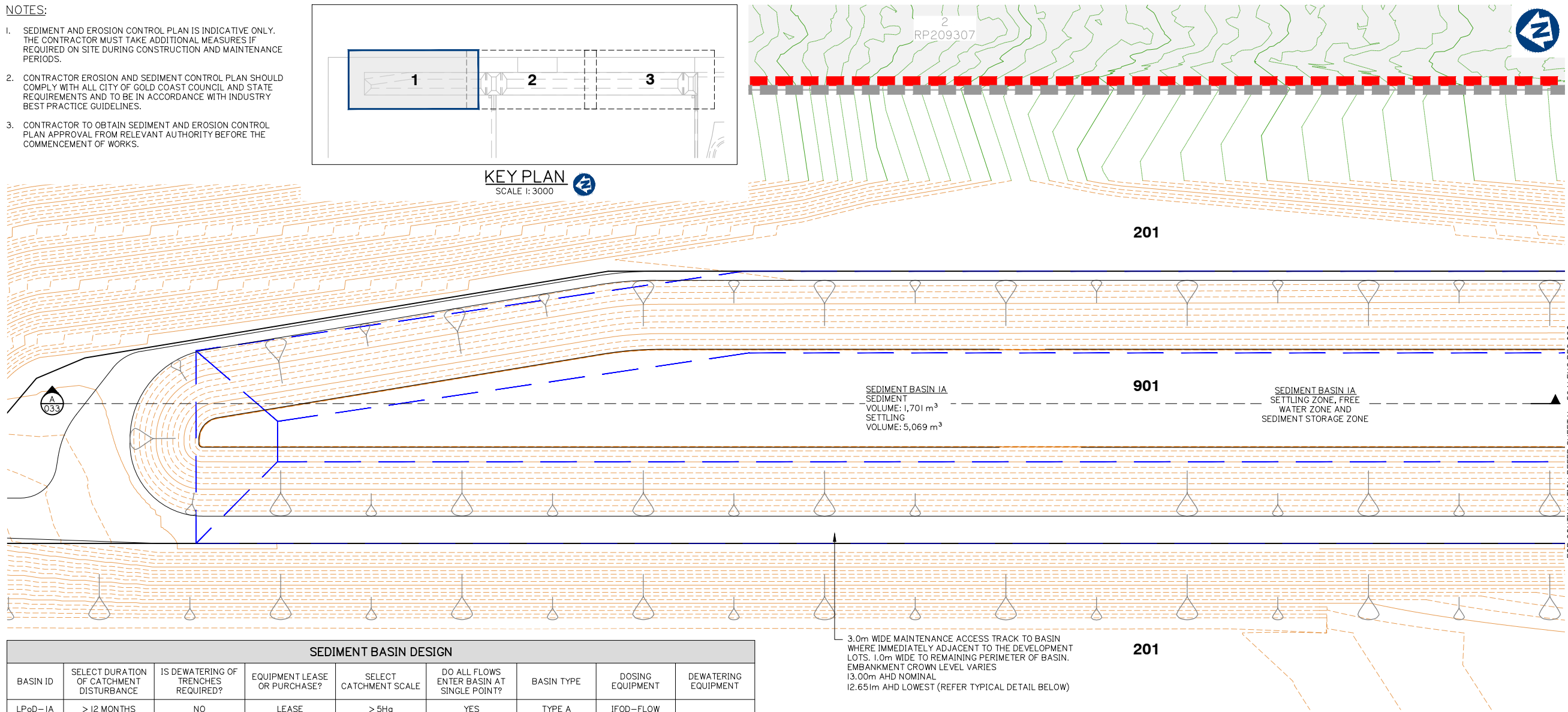
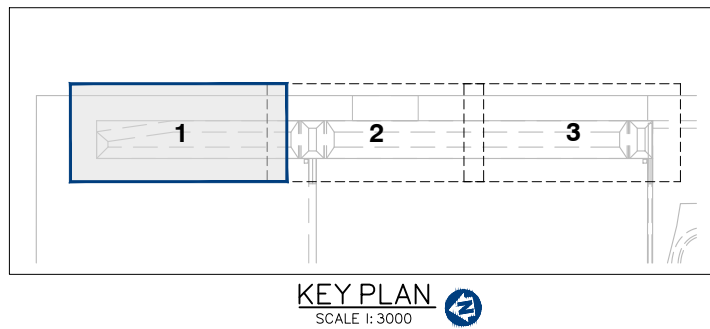
- SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
- CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
- CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
- CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.



KEY PLAN
SCALE 1:7500



1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ON SITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
2. CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL GOLD COAST COUNCIL AND STATE REQUIREMENTS AND TO BE IN ACCORDANCE WITH INDUSTRY BEST PRACTICE GUIDELINES.
3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.



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	DEWATERING EQUIPMENT
LPoD – IA	> 12 MONTHS	NO	LEASE	> 5Ha	YES	TYPE A	IFOD – FLOW	

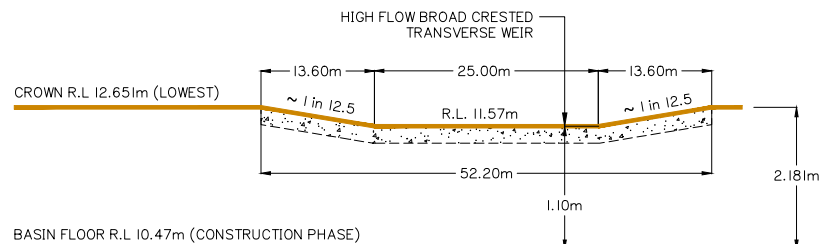
BASIN ID	CATCHMENT AREA	DESIGN EVENT	$i_{x\text{ yr}, 24\text{ hr}}$	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W:L	OPTIMUM LOW-FLOW DECAT RATE	SELECTED LOW-FLOW DECAT RATE (Q_d)	MIN SETTLLING ZONE VOLUME (Min V_s)	MIN SETTLLING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m^3)	(m^2)	
LPoD-IA	23.067	1	4.53	20	11150	1.9	5.1	9	9	5669	2315	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)
LPoD- IA	5669	2984	0.014	0.34	567	1701	0.76	3	29.89	152.42	3.00

BASIN ID	SPILLWAY										
	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)
LPoD-IA	> 12 MONTHS	1: 50	0.80	0.92	25.00	143.00	8.43	0.20	25.00	11.57	12.22

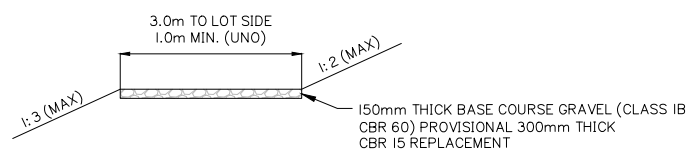
	Flow Rate		Flume Design Parameters				Velocity Check			Output Parameters		
Basin ID	Basin Design Flow (m³/s)	Flume Design Flow (m³/s)	Base Width (m)	Slide Slope (1: x)	Longitudinal Slope (m/m)	Flume Lining	Max Allowable Velocity (m/s)	Mannings Roughness	Velocity (m/s)	Flow Depth (m)	Flume Depth (m)	Calculated Flow (m³/s)
			b	x	s					d	y	
LPoD-1A	8.43	12.65	6.00	2.00	0.01	Concrete	5.00	0.013	4.419	0.42	0.57	12.70

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)	CREST (RL)	FLUME BASE WIDTH (m)	FLUME BATTERS (X: 1)	FLUME DEPTH (m)
LPoD-1A	7369.3	152.4	29.9	3.00	1366.63	15.2	29.9	3.00	25.0	11.57	12.22	11.77	6.0	2.0	0.6



WEIR / SPILLWAY – TYPICAL ELEVATION

N.T.S



MAINTENANCE ACCESS TRACK – TYPICAL SECTION

N.T.S

UNO DENOTES 'UNLESS NOTED OTHERWISE'

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	502
Plan:	SP316137
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI :	-

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

DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 1 OF 4

D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed:	IG
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Drafted:	IG / BA / LAB
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Approved:	MG
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RPEQ:	16939
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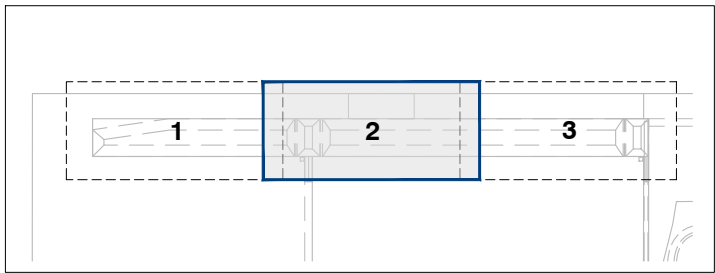
Signed:	
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Date:	24-09-2021
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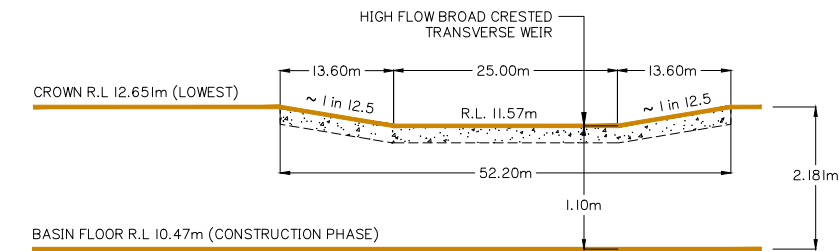
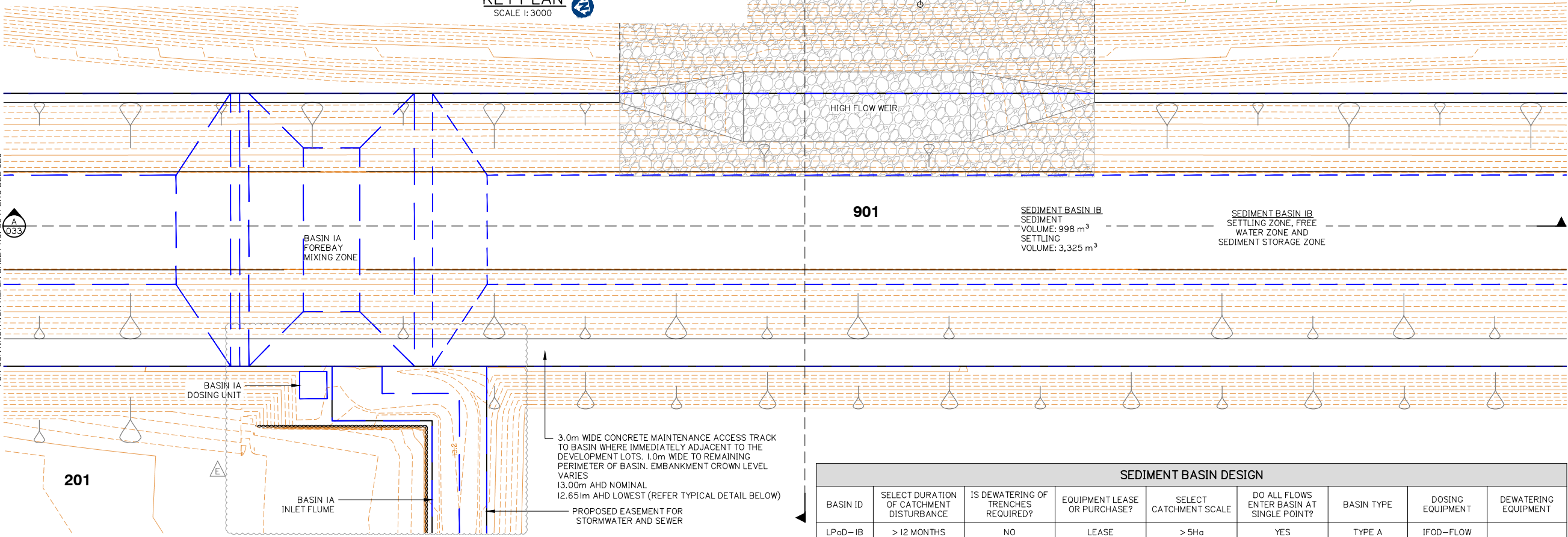
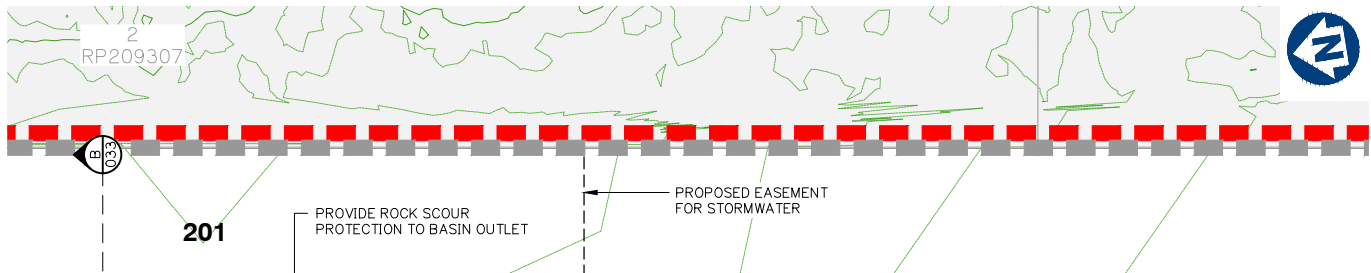
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5941 ENG BE2 029	D

NOTES:

- SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ON SITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
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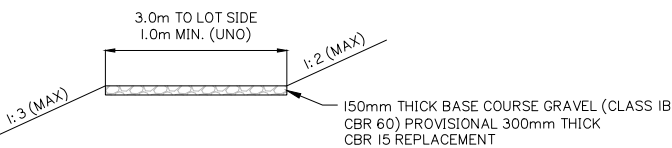


KEY PLAN
SCALE 1:3000



WEIR / SPILLWAY – TYPICAL ELEVATION

N.T.S



MAINTENANCE ACCESS TRACK – TYPICAL SECTION

N.T.S

UNO DENOTES 'UNLESS NOTED OTHERWISE'

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	DEWATERING EQUIPMENT
LPoD-IB	> 12 MONTHS	NO	LEASE	> 5Ha	YES	TYPE A	IFOD-FLOW	

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 RATE	SELECTED LOW-FLOW DECAN RATE (Q_d)	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)	
LPoD-IB	13.352	I	4.53	20	11150	1.82	3.1	9	9	3325	1358	VOLUME

BASIN ID	SETTLING ZONE			FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	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
	(m³)	(m²)	(m/s)	(m)	(m³)	(m³)	(m)	(1: X)	(m)	(m)	(m)
LPoD-IB	3325	1827	0.008	0.35	333	998	0.83	3	29.74	92.19	3.00

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)	(m³/s)				
LPoD-IB	> 12 MONTHS	1: 50	0.80	0.92	25.00	143.00	4.95	0.20	25.00	11.57	12.22

BASIN ID	FLOW RATE		FLUME DESIGN PARAMETERS				VELOCITY CHECK			OUTPUT PARAMETERS		
	BASIN DESIGN FLOW (m³/s)	FLUME DESIGN FLOW (m³/s)	BASE WIDTH (m)	SLIDE SLOPE (1: x)	LONGITUDINAL SLOPE (m/m)	FLUME LINING	MAX ALLOWABLE VELOCITY (m/s)	MANNINGS ROUGHNESS	VELOCITY (m/s)	FLOW DEPTH (m)	FLUME DEPTH (m)	CALCULATED FLOW (m³/s)
LPoD-IB	4.95	7.43	4.00	2.00	0.01	CONCRETE	5.00	0.013	3.817	0.42	0.57	7.76

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)	CREST (RL)	FLUME BASE WIDTH (m)	FLUME BATTERS (X: 1)	FLUME DEPTH (m)
LPoD-IB	4323.1	92.2	29.7	3.00	822.44	9.2	29.7	3.00	25.0	11.57	12.22	11.77	4.0	2.0	0.6

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 502
Plan: SP316137
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
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 2 OF 4

Issue	Date	Description	BA	MG	DRN	CHK
E	23-05-2022	LOT 201 BOUNDARY ALIGNMENT	LAB	MG		
D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG		
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-11-2020	ORIGINAL ISSUE	BA	MG		

SCALE IN METRES



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

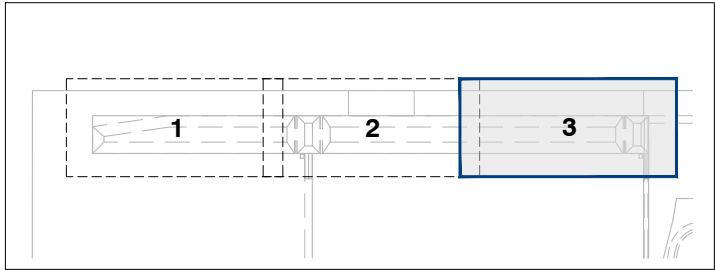
Scale at A1: 1:250

Designed: IG
Drafted: IG / BA / LAB
Approved: MG
RPEQ: 16939
Signed:
Date: 23-05-2022

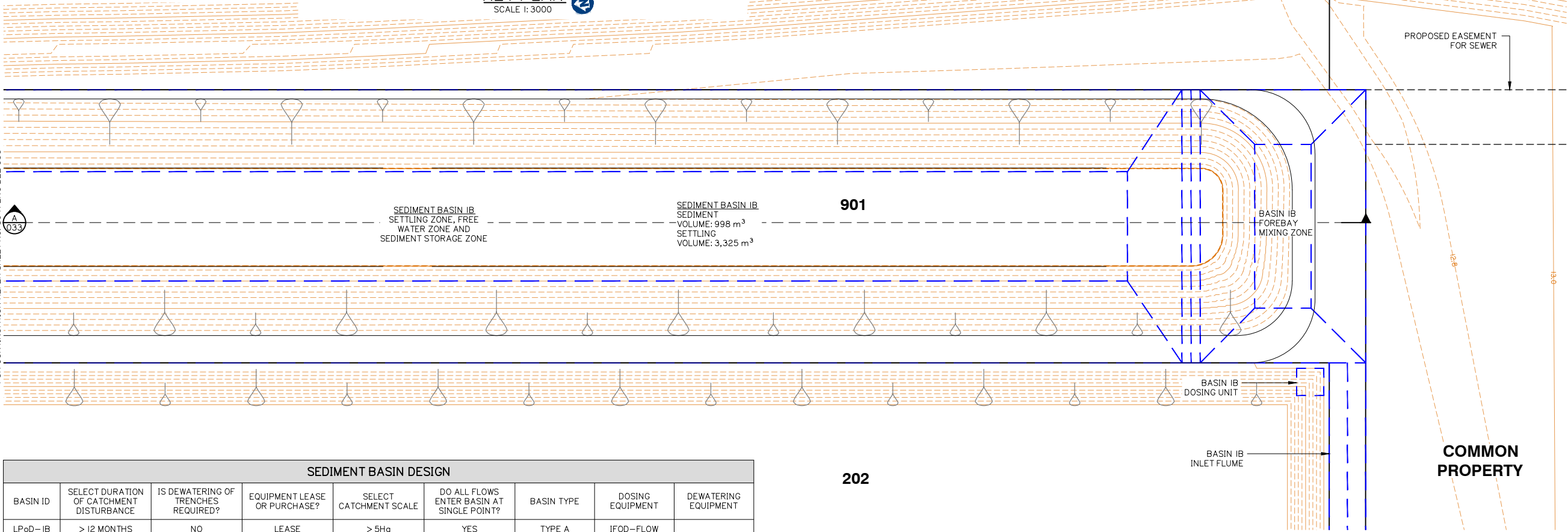
Drawing No: 5941 ENG BE2 030
Rev. No: E

NOTES:

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- CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.



KEY PLAN
SCALE 1:3000



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	DEWATERING EQUIPMENT
LPoD-IB	> 12 MONTHS	NO	LEASE	> 5Ha	YES	TYPE A	IFOD-FLOW	

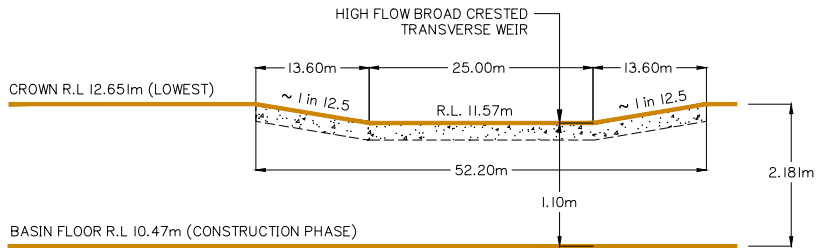
BASIN ID	CATCHMENT AREA	DESIGN EVENT	1 _x yr, 24 hr	WATER TEMPERATURE	K _s	SETTLING ZONE DEPTH (D _s)	W: L	OPTIMUM LOW-FLOW DECANT RATE	SELECTED LOW-FLOW DECANT RATE (Q _d)	MIN SETTling ZONE VOLUME (Min V _s)	MIN SETTling ZONE SURFACE AREA (Min A _s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m³)	(m²)	
LPoD-IB	13.352	1	4.53	20	11150	1.82	3.1	9	9	3325	1358	VOLUME

BASIN ID	SETTLING ZONE		SCOUR VELOCITY	FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	ACTUAL SETTLING ZONE VOLUME (V _s)	ACTUAL SETTLING ZONE AREA (A _s)		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)
LPoD-IB	3325	1827	0.008	0.35	333	998	0.83	3	29.74	92.19	3.00

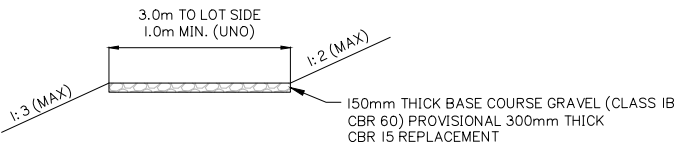
SPILLWAY											
BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C ₁₀	C	t _c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m³/s)	(m)	(m)	(m)	(m)
LPoD-IB	> 12 MONTHS	1: 50	0.80	0.92	25.00	143.00	4.95	0.20	25.00	11.57	12.22

BASIN ID	FLOW RATE		FLUME DESIGN PARAMETERS				VELOCITY CHECK			OUTPUT PARAMETERS		
	BASIN DESIGN FLOW (m³/s)	FLUME DESIGN FLOW (m³/s)	BASE WIDTH (m)	SLIDE SLOPE (1: x)	LONGITUDINAL SLOPE (m/m)	FLUME LINING	MAX ALLOWABLE VELOCITY (m/s)	MANNINGS ROUGHNESS	VELOCITY (m/s)	FLOW DEPTH (m)	FLUME DEPTH (m)	CALCULATED FLOW (m³/s)
			b	x	s					d	y	
LPoD-IB	4.95	7.43	4.00	2.00	0.01	CONCRETE	5.00	0.013	3.817	0.42	0.57	7.76

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)	CREST (RL)	FLUME BASE WIDTH (m)	FLUME BATTERS (X: 1)	FLUME DEPTH (m)
LPoD-IB	4323.1	92.2	29.7	3.00	822.44	9.2	29.7	3.00	25.0	11.57	12.22	11.77	4.0	2.0	0.6



WEIR / SPILLWAY - TYPICAL ELEVATION
N.T.S.



MAINTENANCE ACCESS TRACK - TYPICAL SECTION
N.T.S. UNO DENOTES 'UNLESS NOTED OTHERWISE'

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

ISSUED FOR APPROVAL
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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 3 OF 4

D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

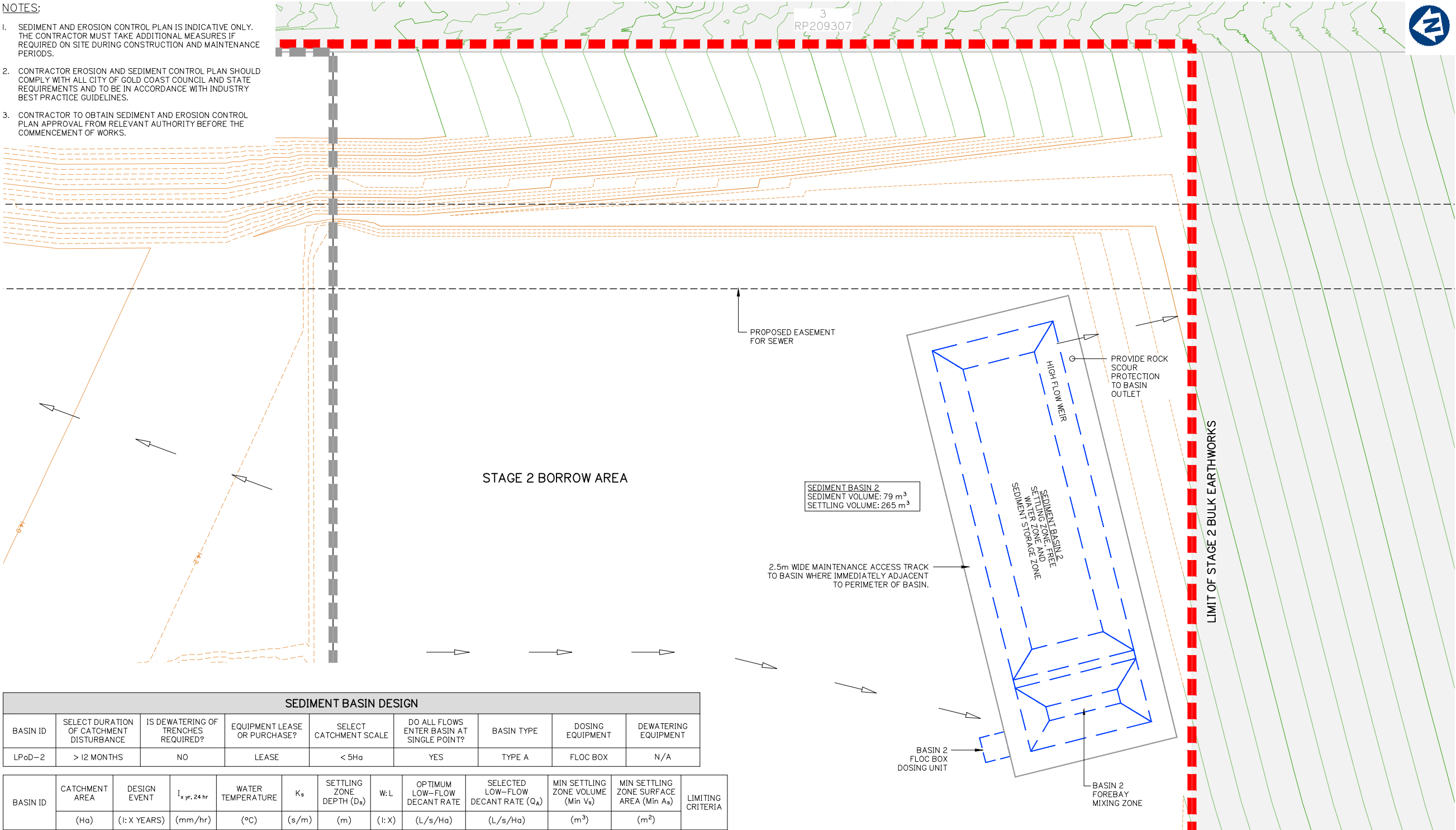
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No: 5941 ENG BE2 031
Rev. No: D

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 030

NOTES:

1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ON SITE 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.



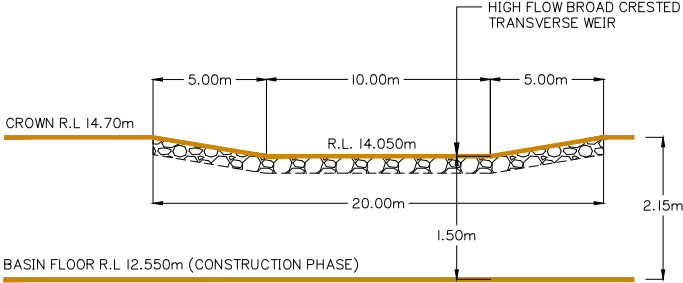
SEDIMENT BASIN DESIGN											
BASIN ID	SELECT DURATION OF CATCHMENT DISTURBANCE	IS DEWATERING OF TRENCHES REQUIRED?	EQUIPMENT LEASE OR PURCHASE?	SELECT CATCHMENT SCALE	DO ALL FLOWS ENTER BASIN AT SINGLE POINT?	BASIN TYPE	DOSING EQUIPMENT	DEWATERING EQUIPMENT			
LPoD-2	> 12 MONTHS	NO	LEASE	< 5Ha	YES	TYPE A	FLOC BOX	N/A			

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 DECANT RATE	SELECTED LOW-FLOW DECANT 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)	
LPoD-2	1.077	1	4.53	20	11150	0.86	3	9	9	265	108	VOLUME

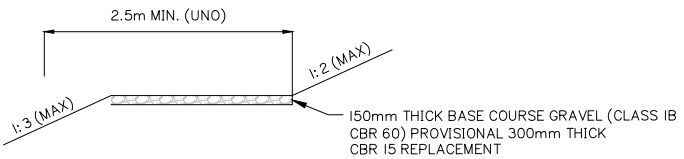
BASIN ID	SETTLING ZONE			FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	ACTUAL SETTLING ZONE VOLUME (V _s)	ACTUAL SETTLING ZONE AREA (A _s)	SCOUR VELOCITY	DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
	(m³)	(m²)	(m/s)	(m)	(m³)	(m³)	(m)	(1: X)	(m)	(m)	(m)
LPoD-2	265	308	0.002	0.20	62	79	0.44	3	12.71	38.13	1.50

BASIN ID	SPILLWAY										
	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)	(m³/s)	(m)	(m)	(m)	(m)
LPoD-2	> 12 MONTHS	1: 50	0.80	0.92	15	183	0.50	0.20	10.0	14.050	14.700

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)
LPoD-2	344	38.1	12.7	1.50	73	3.8	12.7	1.50	10	14.050	14.70	14.250



WEIR / SPILLWAY – TYPICAL ELEVATION



MAINTENANCE ACCESS TRACK – TYPICAL SECTION

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RPD:	
Lot:	502
Plan:	SP316137
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour interval:	-
PSM:	-
RL:	-

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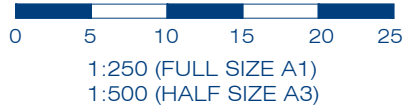
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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 2
LAYOUT SHEET 4 OF 4

Issue	Date	Description	IG	MG	BA	CHK
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-11-2020	ORIGINAL ISSUE	BA	MG		

SCALE IN METRES



Scale at A1: 1:250

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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COUNCIL
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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN
SECTIONS

C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
B	31/03/21	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-11-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	BA	DRN	CHK

SCALE IN METRES



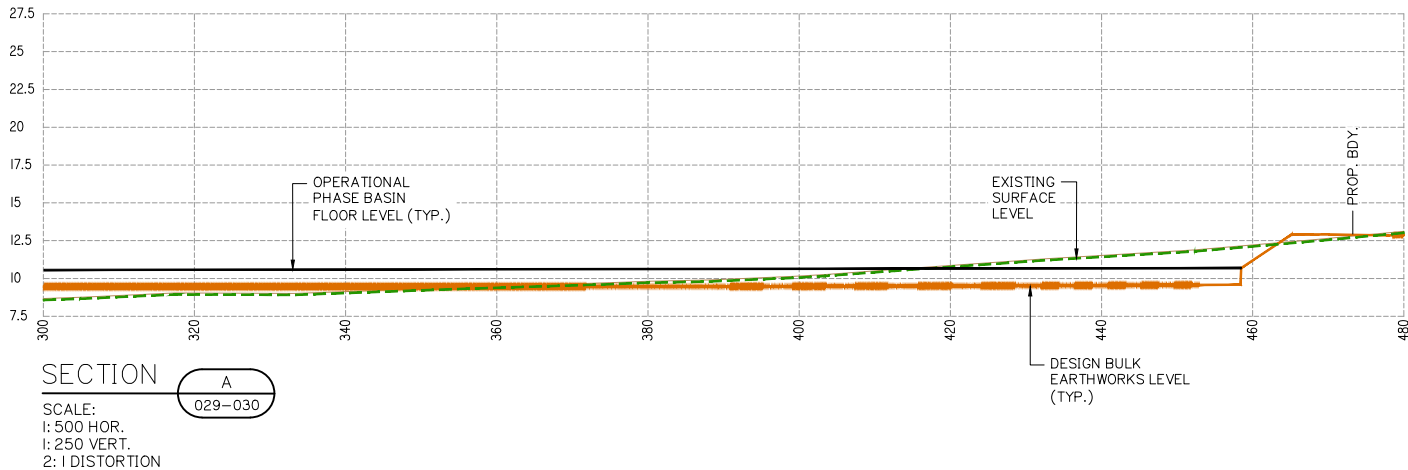
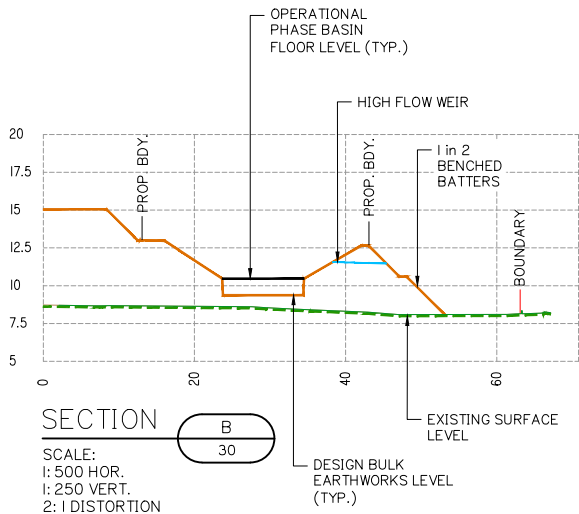
1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

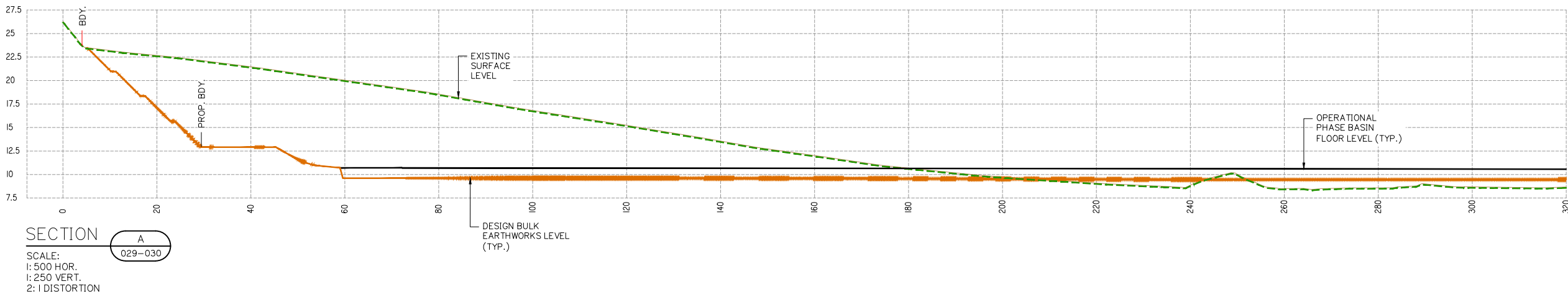
Drawing No:
5941 ENG BE2 033

Rev. No:
C

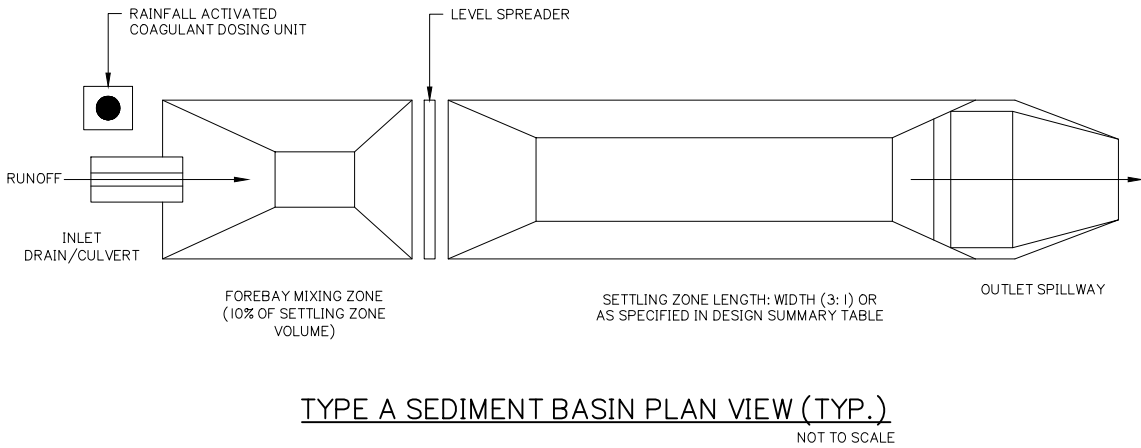
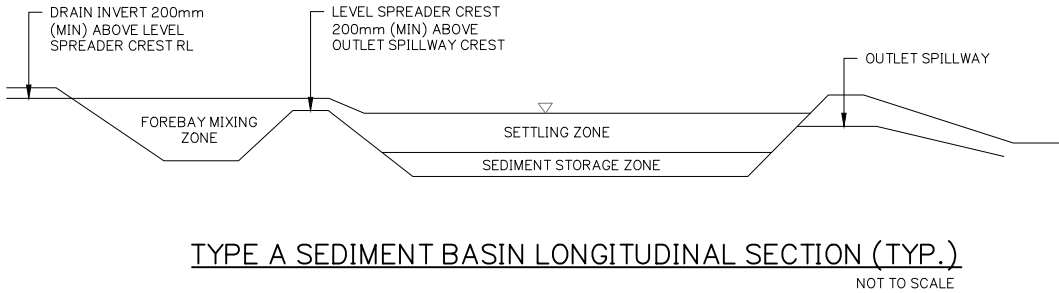
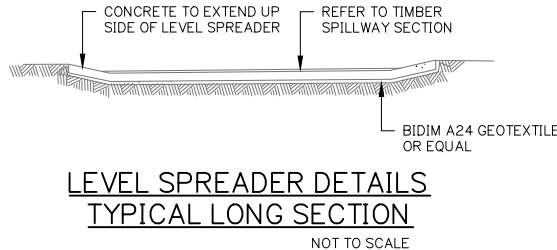
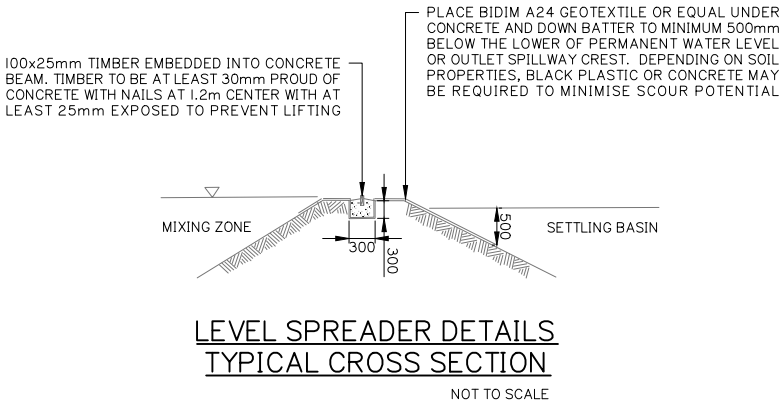
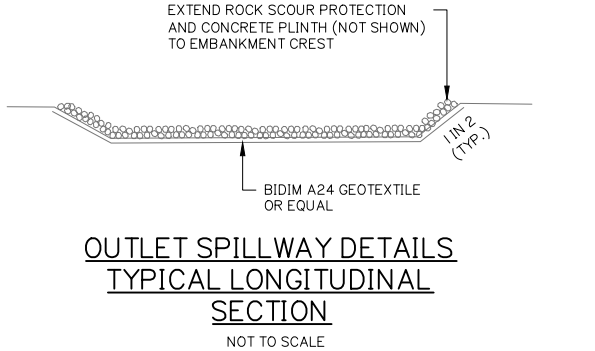
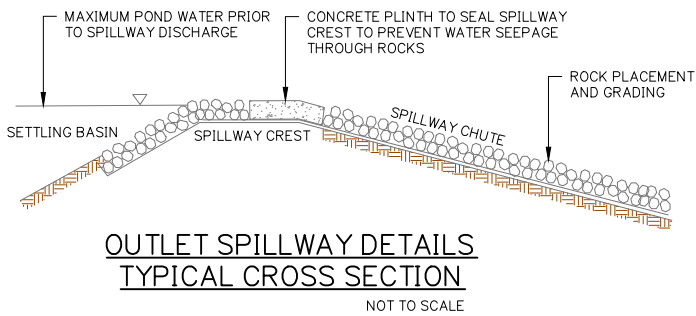


NOTE:

I. SEDIMENT ACCUMULATION DEPTHS, FREE WATER ZONES, AND SETTLEMENT DEPTHS ARE OMITTED FROM CROSS SECTIONS FOR CLARITY. REFER TO CALCULATION TABLES ON DRAWINGS 5941 ENG BE2 029-032

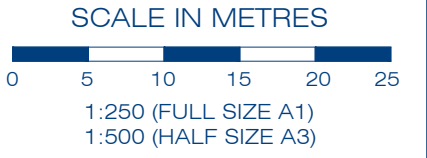


CONSTRUCTION PHASE SEDIMENT BASIN SECTIONS

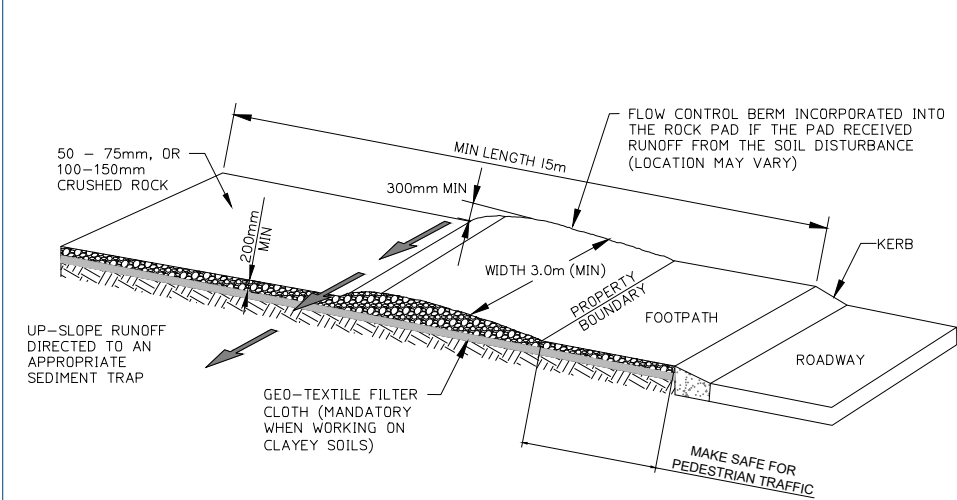


CONSTRUCTION PHASE SEDIMENT BASIN TYPICAL SECTIONS

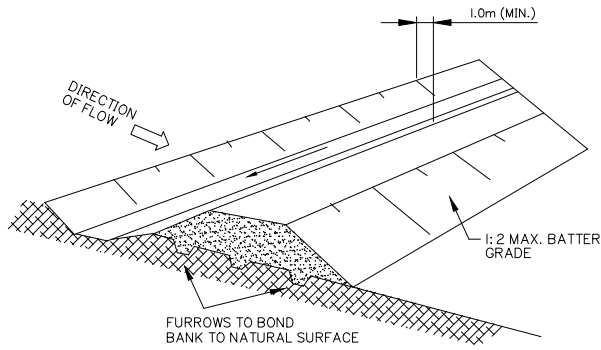
B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
A	20-11-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	



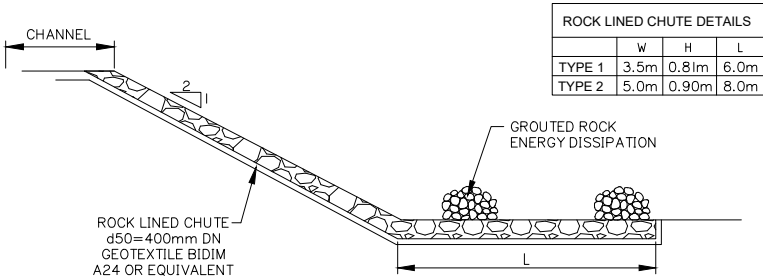
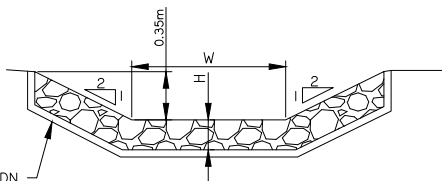
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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021



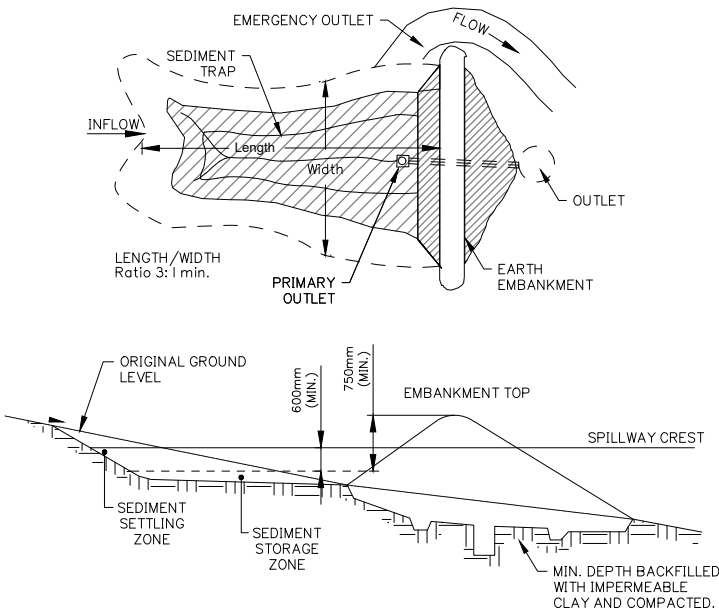
ENTRY/EXIT PAD FOR CONSTRUCTION SITE
NOT TO SCALE



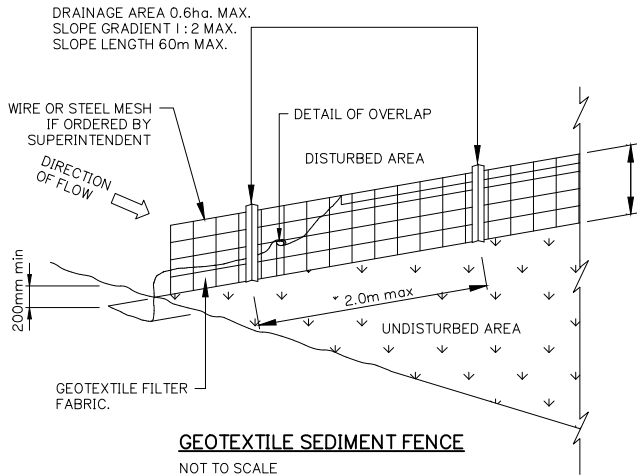
DIVERSION DRAIN
NOT TO SCALE



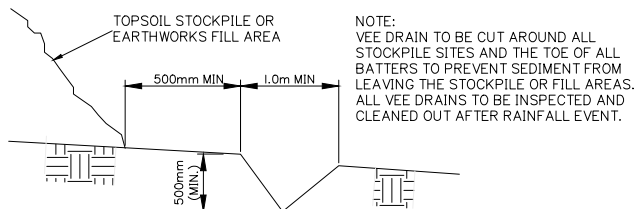
ROCK LINED CHUTE
NOT TO SCALE



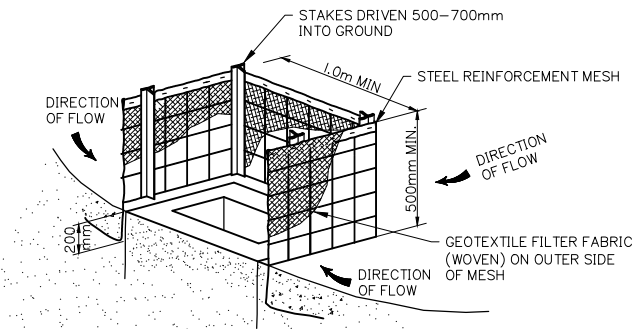
TYPICAL SEDIMENT BASIN
NOT TO SCALE



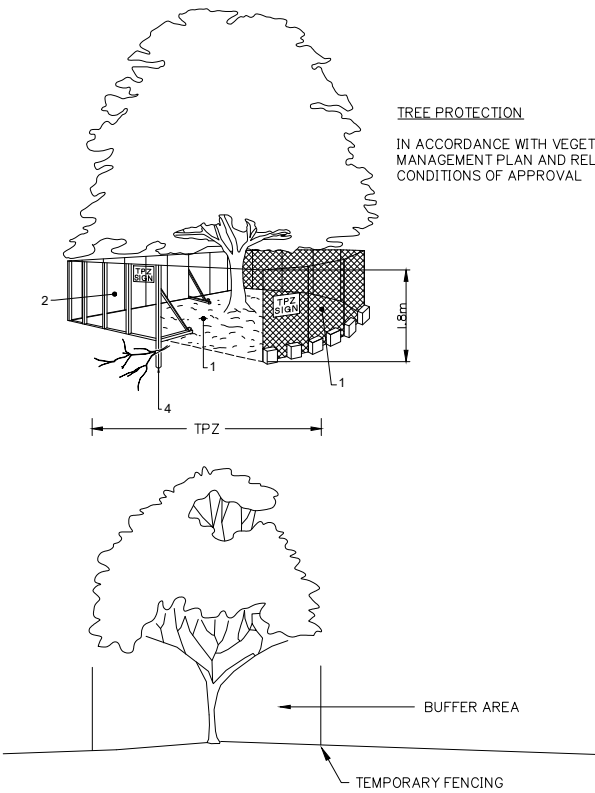
GEOTEXTILE SEDIMENT FENCE
NOT TO SCALE



TYPICAL SECTION VEE DRAIN
NOT TO SCALE



STORMWATER INLET - SEDIMENT TRAP
NOTE: FOURTH SIDE OF TRAP NOT SHOWN FOR CLARITY



FENCING AS PER AS: 4970

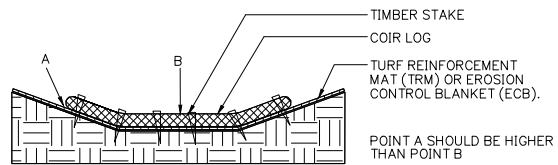
1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET.
2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THIS FENCING MATERIAL ALSO PREVENTS BUILDING MATERIALS OR SOIL ENTERING THE TPZ.
3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF 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

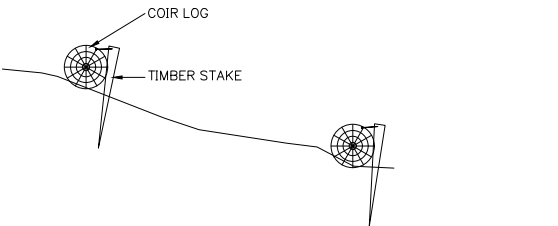
THE RADIUS OF THE TPZ IS CALCULATED FOR EACH TREE BY MULTIPLYING ITS DBH X 12 = TRUNK DIAMETER MEASURED AT 1.4M ABOVE GROUND. RADIUS IS MEASURED FROM THE CENTRE OF THE STEM AT GROUND LEVEL.

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.

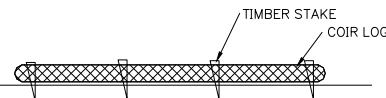
PROTECTIVE FENCING
NOT TO SCALE



PROPER PLACEMENT OF COIR LOG IN DRAINAGE PATH
NOT TO SCALE



COIR LOG AND TIMBER STAKES STABILISING SLOPE
NOT TO SCALE



PROPER PLACEMENT OF COIR LOG IN SLOPE
NOT TO SCALE

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 502
Plan: SP316137
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

Issue	Date	Description	BA	MG	DRN	CHK
B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
A	20-11-2020	ORIGINAL ISSUE	BA	MG		

SCALE IN METRES

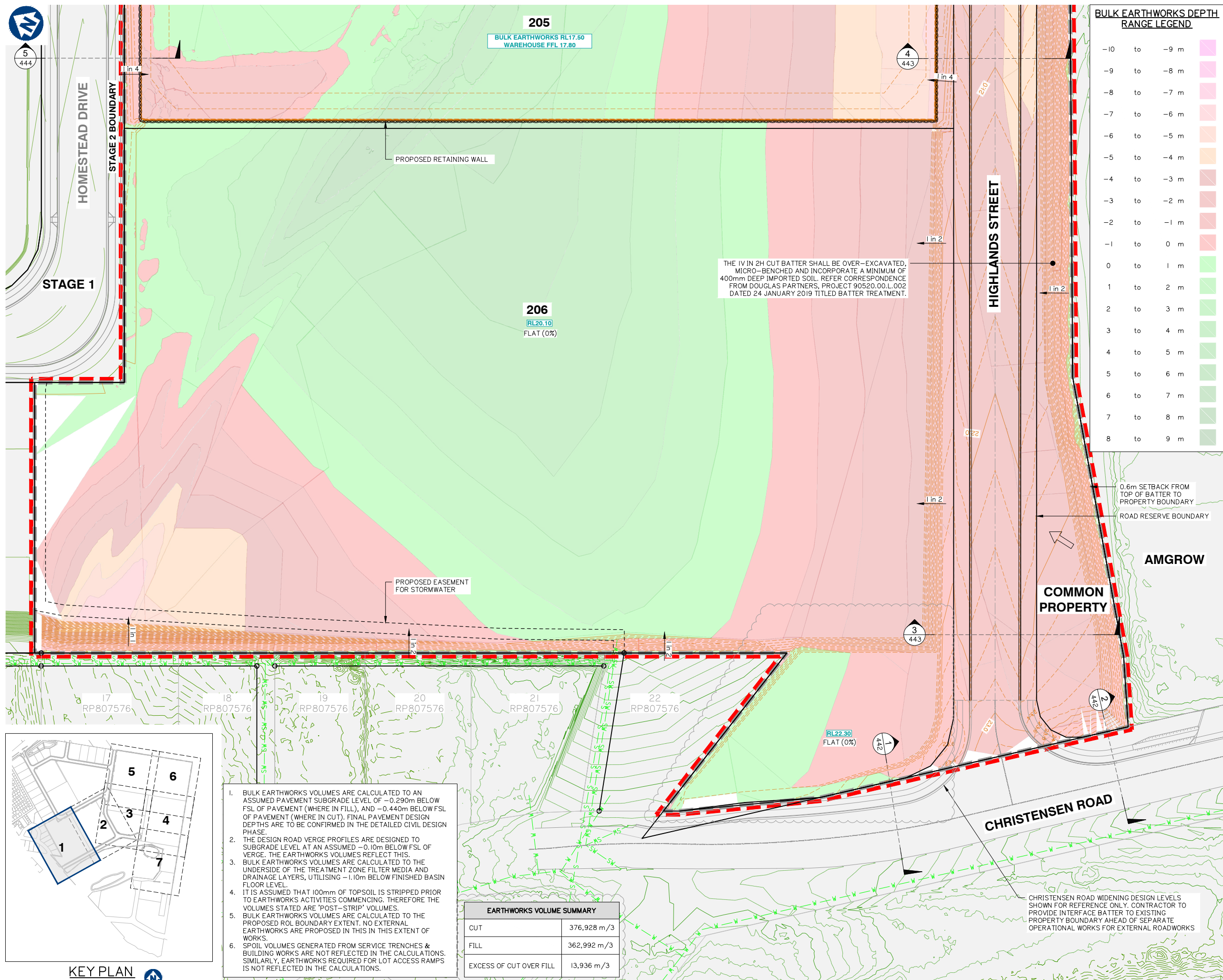
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1:20000 (HALF SIZE A3)

Scale at A1: N.T.S

Designed: IG
Drafted: IG / BA / LAB
Approved: MG
RPEQ: 16939
Signed:
Date: 24-09-2021

Drawing No:
5941 ENG BE2 035

Rev. No:
B



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RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 1 OF 7

Rev	Date	Description	By	CHK
F	23-05-2022	LOT 201/207 BOUNDARY AND EARTHWORKS	LAB	MG
E	10-02-2022	LOT 206 BOUNDARY AND EARTHWORKS	DV	MG
D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	By	CHK

SCALE IN METRES

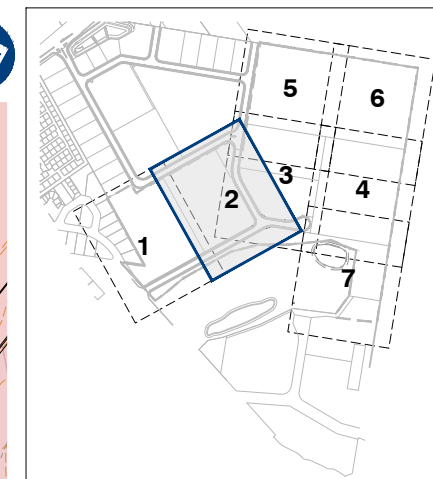
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

Drawing No:
5941 ENG BE2 050Rev. No:
F



KEY PLAN
SCALE 1:7500

BULK EARTHWORKS DEPTH RANGE LEGEND

BULK EARTHWORKS DEPTH RANGE LEGEND			
-10	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	



EARTHWORKS VOLUME SUMMARY	
CUT	376,928 m ³
FILL	362,992 m ³
EXCESS OF CUT OVER FILL	13,936 m ³



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

Client:



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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 2 OF 7

F	22-02-2022		RECESS BAY SIZE INCREASE	DV	MG
E	10-02-2022		LOT 206 BOUNDARY AND EARTHWORKS	DV	MG
D	24-09-2021		EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
C	31-03-2021		INFORMATION REQUEST RESPONSE	IG	MG
B	15-02-2021		INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020		ORIGINAL ISSUE	BA	MG

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	IG
-----------	----

Drafted:	IG / BA / LAB
----------	---------------

Approved:	MG
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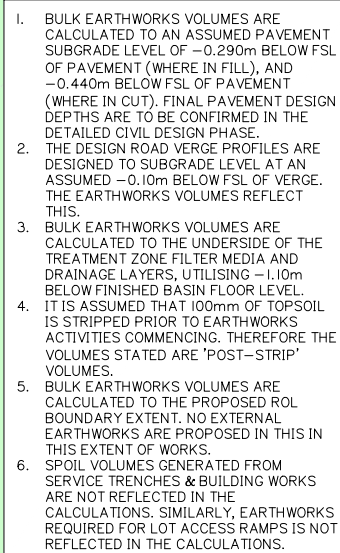
RPEQ:	16939
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Signed:	
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Date:	10-02-2022
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Drawing No:	Rev. No:
5941 ENG BE2 051	F

Rev. No:
F

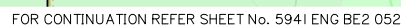


EARTHWORKS VOLUME SUMMARY	
CUT	376,928 m ³
FILL	362,992 m ³
EXCESS OF CUT OVER FILL	13,936 m ³

<u>BULK EARTHWORKS DEPTH RANGE LEGEND</u>			
-10	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	

THE IV IN 2H CUT BATTER SHALL BE OVER-EXCAVATED,
MICRO-BENCHED AND INCORPORATE A MINIMUM OF
400mm DEEP IMPORTED SOIL. REFER CORRESPONDENCE
FROM DOUGLAS PARTNERS, PROJECT 90520.00.L.002
DATED 24 JANUARY 2019 TITLED BATTER TREATMENT.





Client:



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(AUSTRALIA) PTY. LTD.

Project:

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STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 4 OF 7

F	23-05-2022	LOT 201 BOUNDARY AND EARTHWORKS	LAB	MG	
E	10-02-2022	RETAINING WALLS LOT 205	DV	MG	
D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG	
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-11-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

Drawing No:	Rev. No:
5941 ENG BE2 053	F



Project:

Site Address:

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Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
COUNCIL

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

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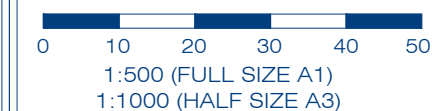
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 5 OF 7

G	23-05-2022	LOT 201 BOUNDARY AND EARTHWORKS	LAB	MG	
F	10-02-2022	BATTER ALONG FAIRWAY STREET REDUCED	DV	MG	
E	15-11-2021	RETAINING WALLS LOT 205	DV	MG	
D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG	
B	20-11-2021	INFORMATION REQUEST RESPONSE	IG	MG	
A	15-02-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	IBN	CHD	

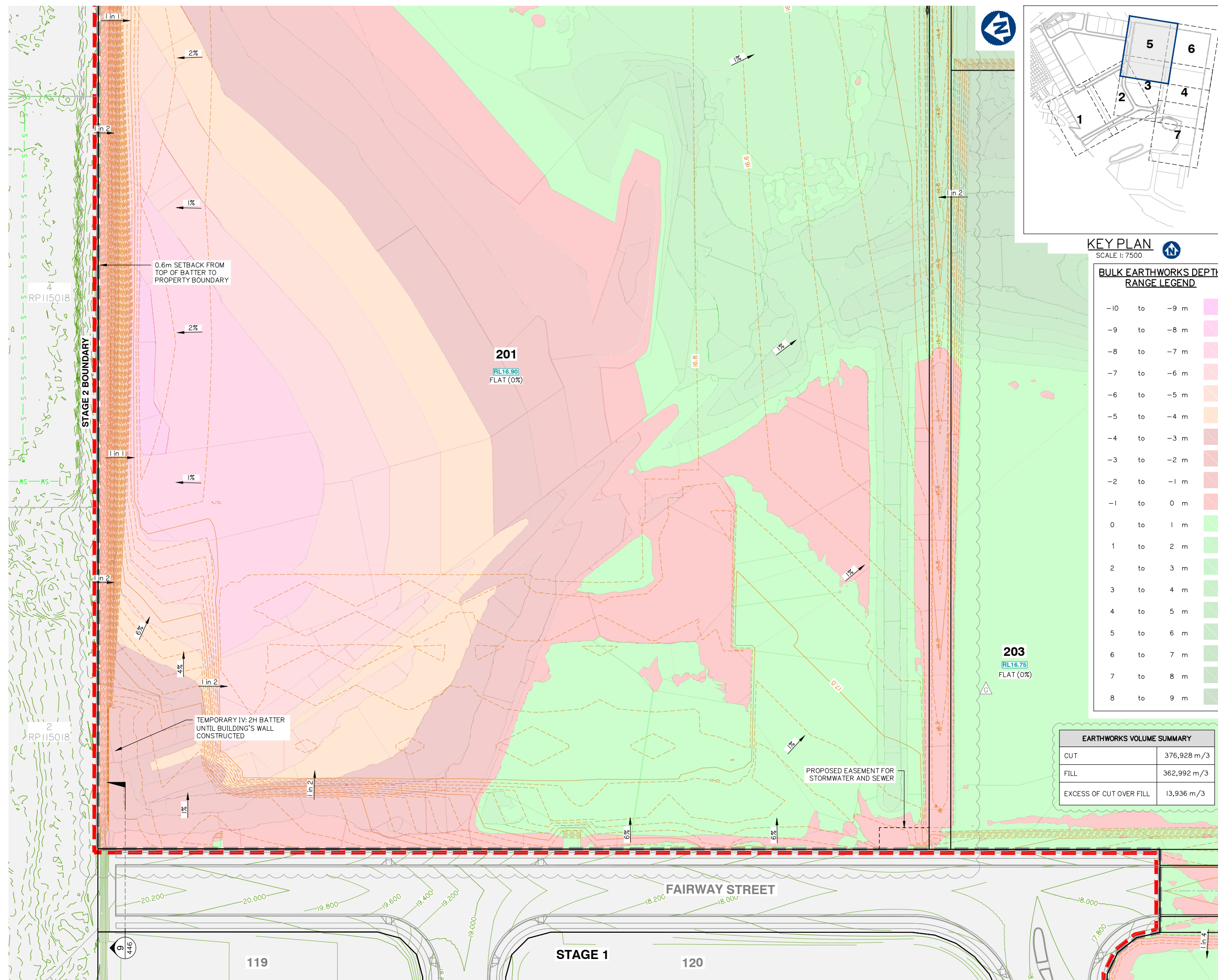
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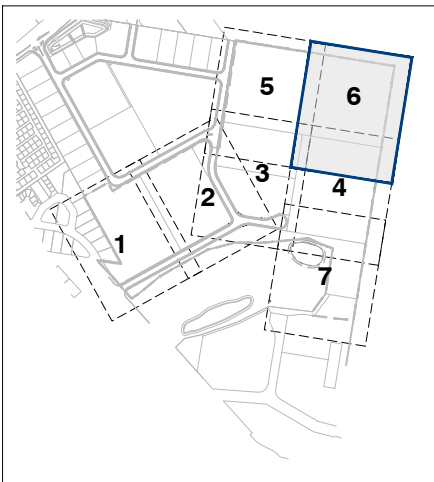


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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

Drawing No:	Rev. No:
5941 ENG BE2 054	G





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VantageYatala
STAGE 2

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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

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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 6 OF 7

E	23-05-2022	LOT 201 BOUNDARY AND EARTHWORKS	LAB	MG	
D	10-05-2022	RETAINING WALLS LOT 209	DV	MG	
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
B	31/03/21	INFORMATION REQUEST RESPONSE	JN	MG	
A	20-11-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	IPN	CHK	

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:	IG / BA / LAB
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Approved:	MG
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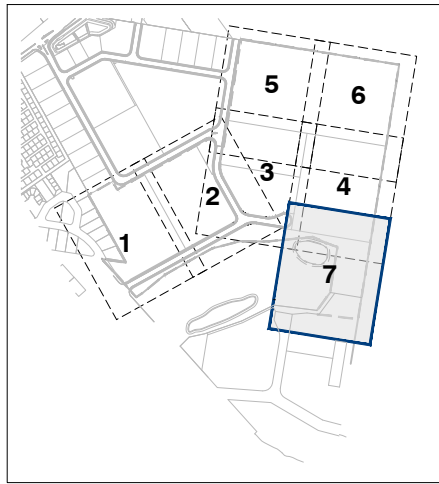
RPEQ:	16939
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Signed: 

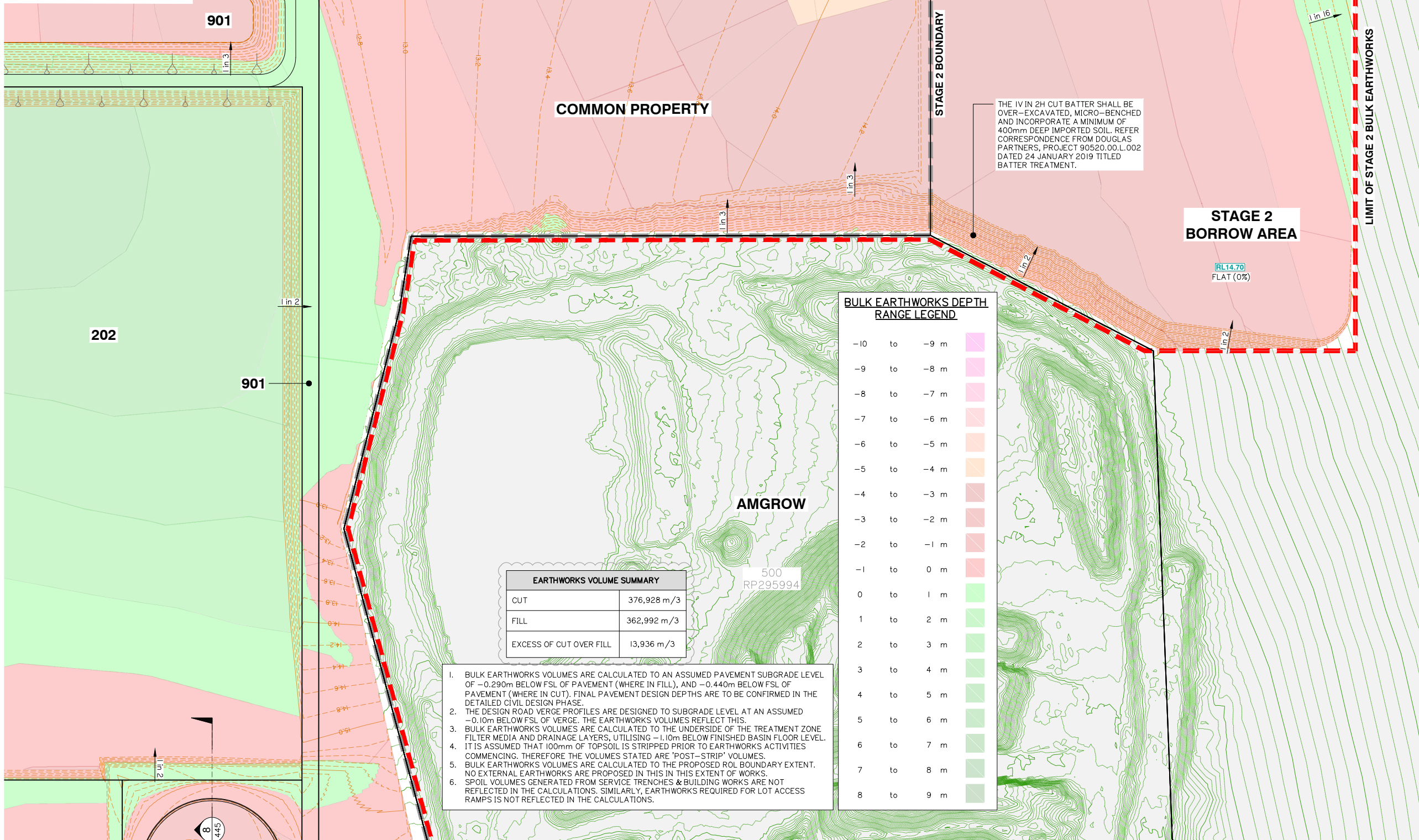
Date:	23-05-2022
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Drawing No:
5941 ENG BE2 055

Rev. No:
E



KEY PLAN
SCALE 1: 7500



EARTHWORKS VOLUME SUMMARY	
CUT	376,928 m ³
FILL	362,992 m ³
EXCESS OF CUT OVER FILL	13,936 m ³

- BULK EARTHWORKS VOLUMES ARE CALCULATED TO AN ASSUMED PAVEMENT SUBGRADE LEVEL OF -0.290m BELOW FSL OF PAVEMENT (WHERE IN FILL), AND -0.440m BELOW FSL OF PAVEMENT (WHERE IN CUT). FINAL PAVEMENT DESIGN DEPTHS ARE TO BE CONFIRMED IN THE DETAILED CIVIL DESIGN PHASE.
- THE DESIGN ROAD VERGE PROFILES ARE DESIGNED TO SUBGRADE LEVEL AT AN ASSUMED -0.10m BELOW FSL OF VERGE. THE EARTHWORKS VOLUMES REFLECT THIS.
- BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF THE TREATMENT ZONE FILTER MEDIA AND DRAINAGE LAYERS, UTILISING -1.10m BELOW FINISHED BASIN FLOOR LEVEL.
- IT IS ASSUMED THAT 100mm OF TOPSOIL IS STRIPPED PRIOR TO EARTHWORKS ACTIVITIES COMMENCING. THEREFORE THE VOLUMES STATED ARE 'POST-STRIP' VOLUMES.
- BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE PROPOSED ROL BOUNDARY EXTENT. NO EXTERNAL EARTHWORKS ARE PROPOSED IN THIS IN THIS EXTENT OF WORKS.
- SPOIL VOLUMES GENERATED FROM SERVICE TRENCHES & BUILDING WORKS ARE NOT REFLECTED IN THE CALCULATIONS. SIMILARLY, EARTHWORKS REQUIRED FOR LOT ACCESS RAMPS IS NOT REFLECTED IN THE CALCULATIONS.

BULK EARTHWORKS DEPTH
RANGE LEGEND

-10	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	

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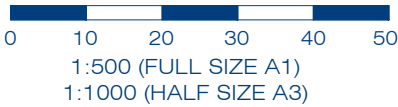
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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 7 OF 7

SCALE IN METRES

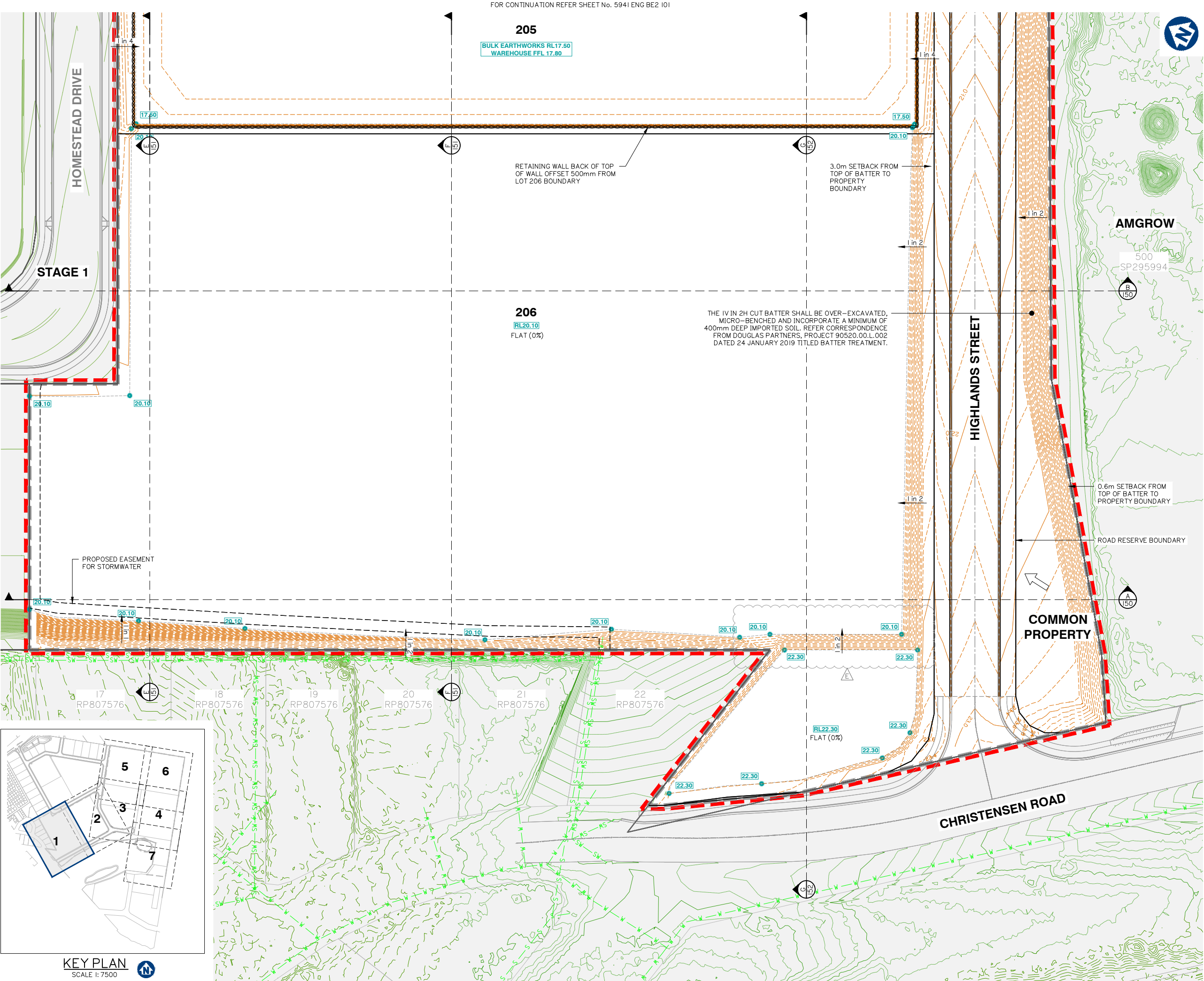


Scale at A1: 1:500

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10-02-2022

Drawing No:
5941 ENG BE2 056

Rev. No:
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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 1 OF 7

Issue	Date	Description	BA	MG	DRN	CHK
E	23-05-2022	LOT 205/207 BOUNDARY AND EARTHWORKS	LAB	MG		
D	10-02-2022	LOT 205 BOUNDARY AND EARTHWORKS	DV	MG		
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-11-2020	ORIGINAL ISSUE	BA	MG		

SCALE IN METRES

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10

20

30

40

50

1:500 (FULL SIZE A1)

1:1000 (HALF SIZE A3)

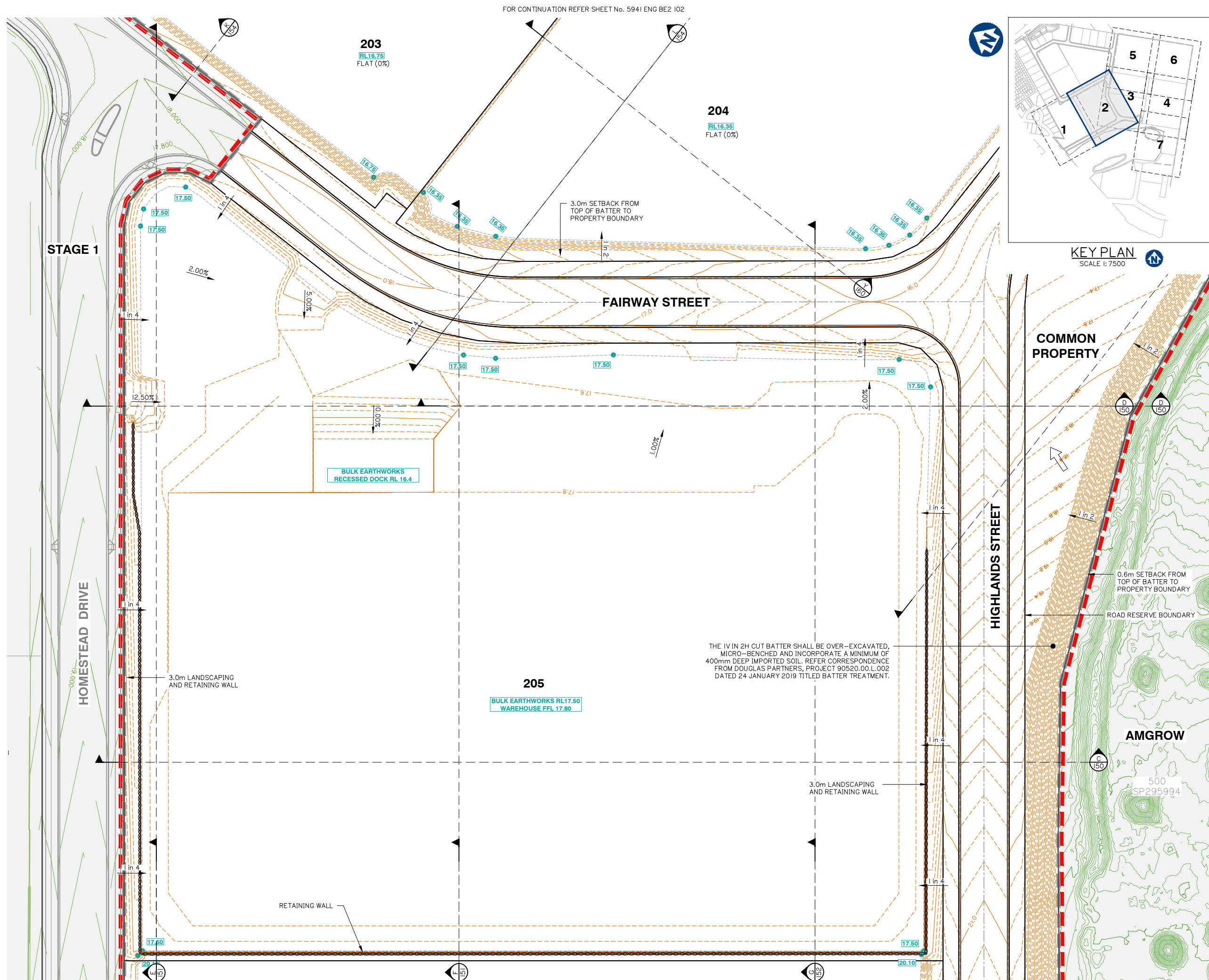
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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

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5941 ENG BE2 100

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Project: **VantageYatala**
STAGE 2

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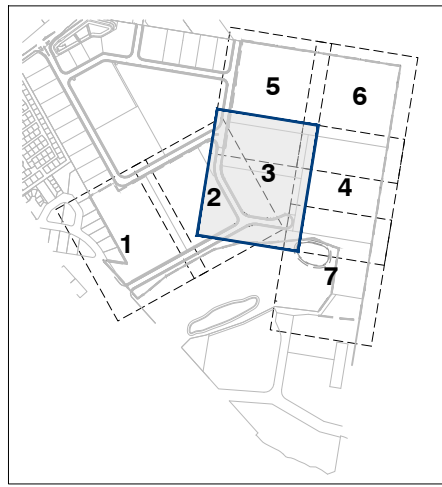
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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 2 OF 7

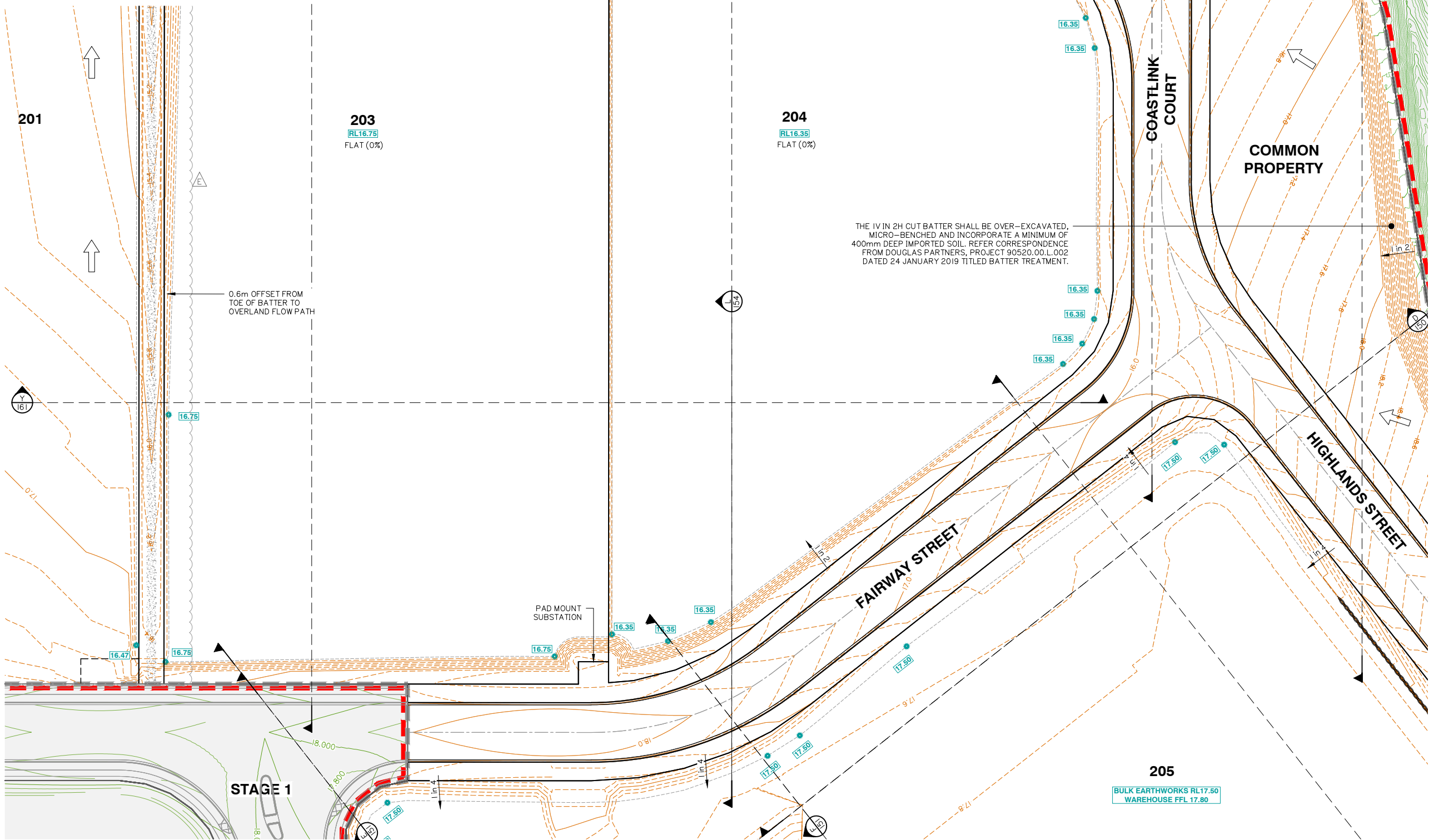
SCALE IN METRES

Scale at A1:	1:500
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Drawing No:	Rev. No:
5941 ENG BE2 101	D



KEY PLAN
SCALE 1: 7500



FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 101

FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 3 OF 7

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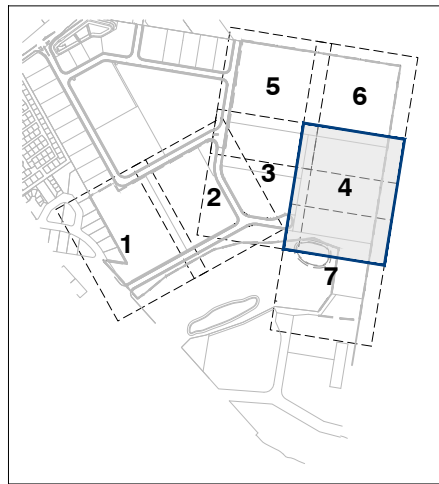
DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 3 OF 7

Rev	Date	Description	By	Check
E	23-05-2022	LOT 201 BOUNDARY ALIGNMENT	LAB	MG
D	10-02-2022	LOT 205 BOUNDARY AND EARTHWORKS	DV	MG
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	By	Check

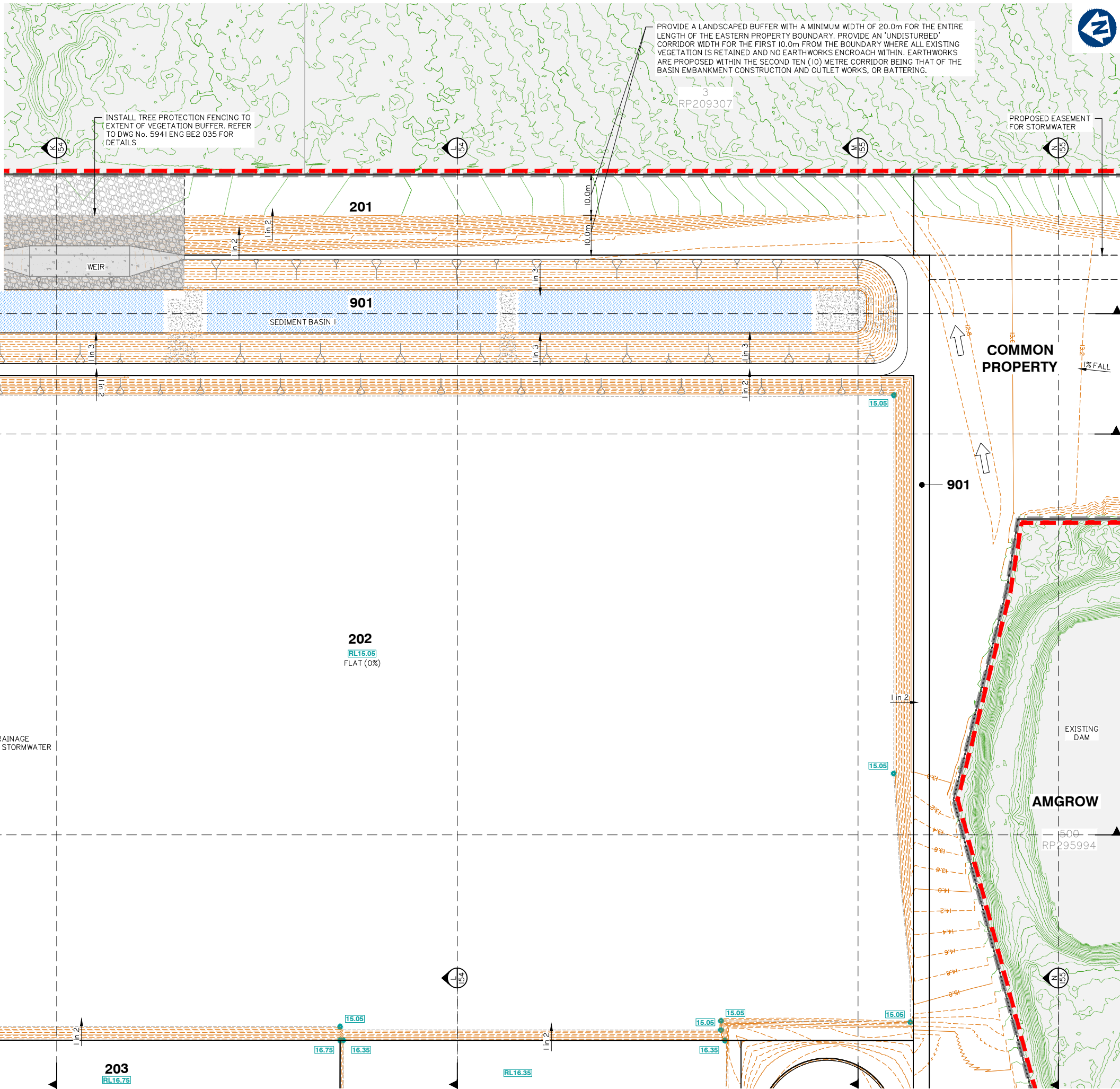
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Scale at A1:	1:500
Designed:	IG
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Signed:	
Date:	23-05-2022

Drawing No: 5941 ENG BE2 102
Rev. No: E



KEY PLAN
SCALE 1: 7500



FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 105

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 106

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 102

FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 4 OF 7



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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 4 OF 7

D	23-05-2022	LOT 201 BOUNDARY ALIGNMENT	LAB	MG
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
B	31/03/21	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



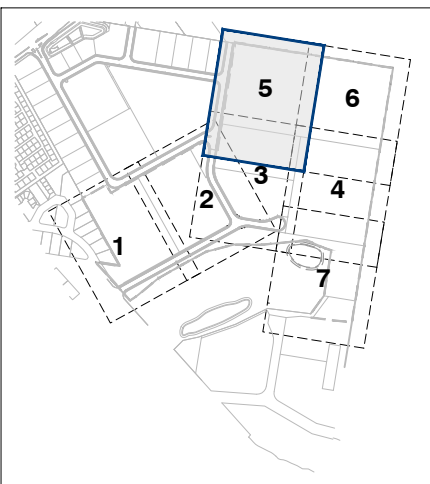
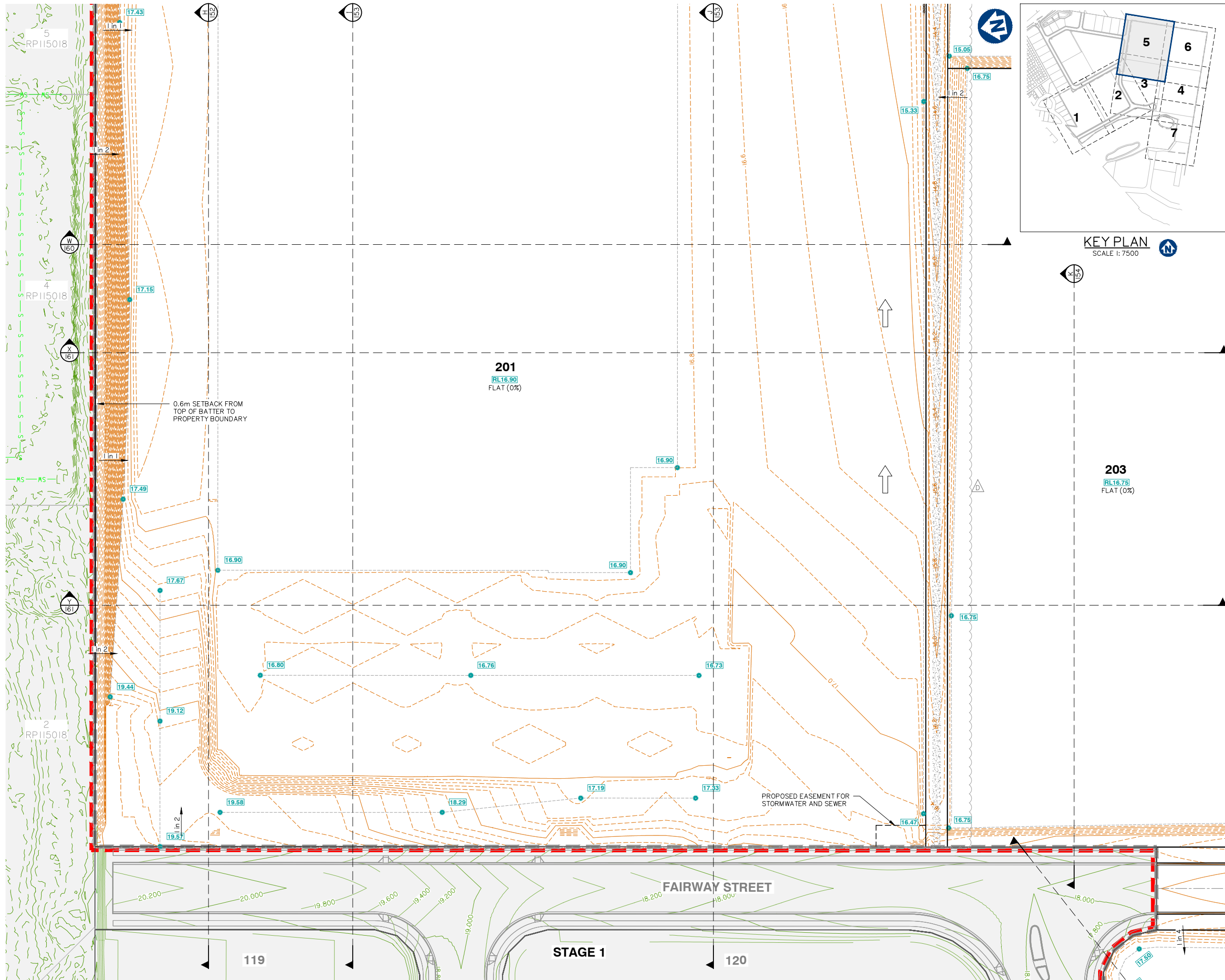
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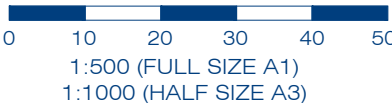
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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 5 OF 7

Issue	Date	Description	BA	MG	DRN	CHK
D	23-05-2022	LOT 201 BOUNDARY ALIGNMENT	LAB	MG		
C	17-12-2021	BATTER ALONG FAIRWAY STREET REDUCED	DV	MG		
B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
A	20-11-2020	ORIGINAL ISSUE	BA	MG		

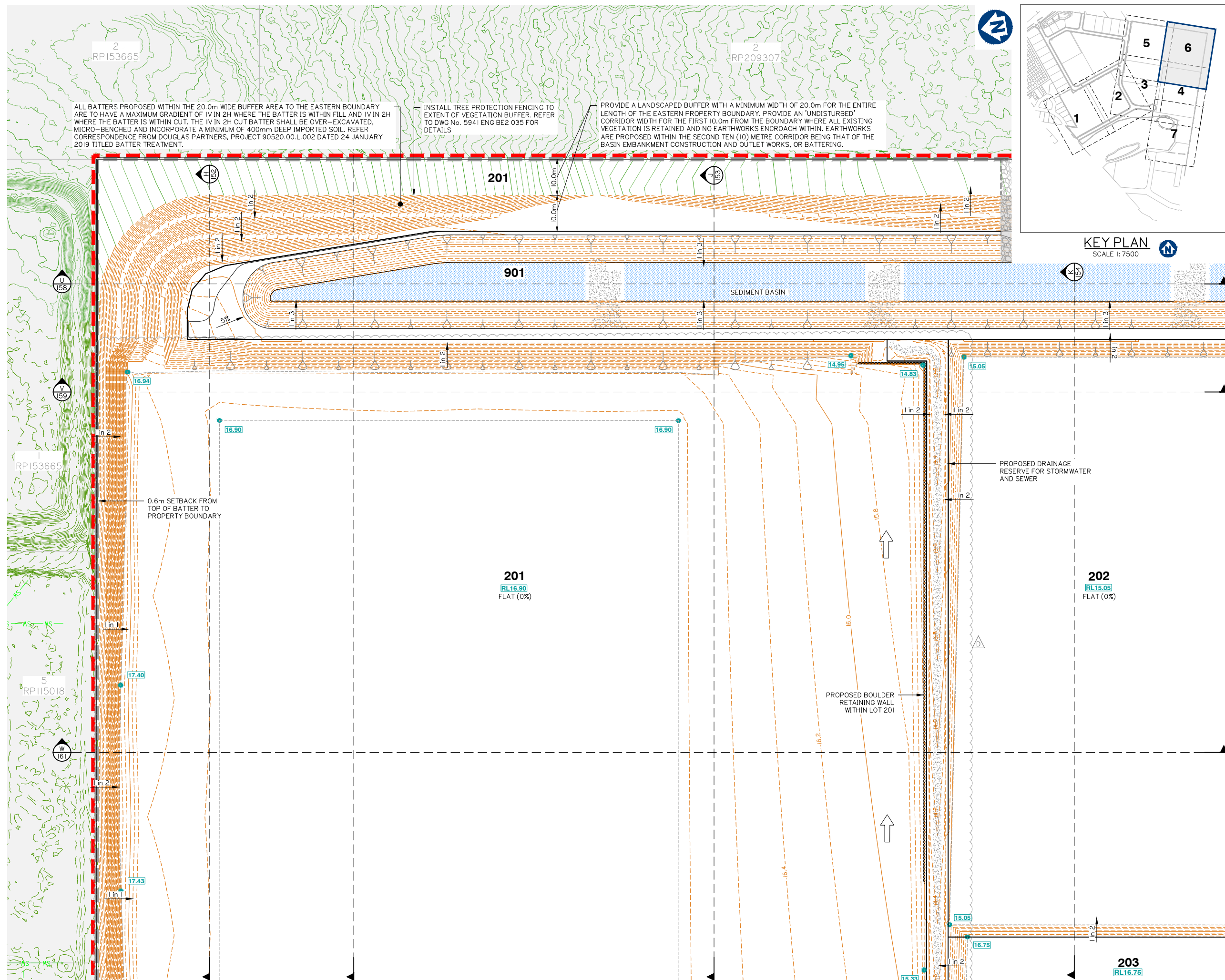
SCALE IN METRES



Scale at A1: 1:500

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Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

Drawing No: 5941 ENG BE2 104 Rev. No: D



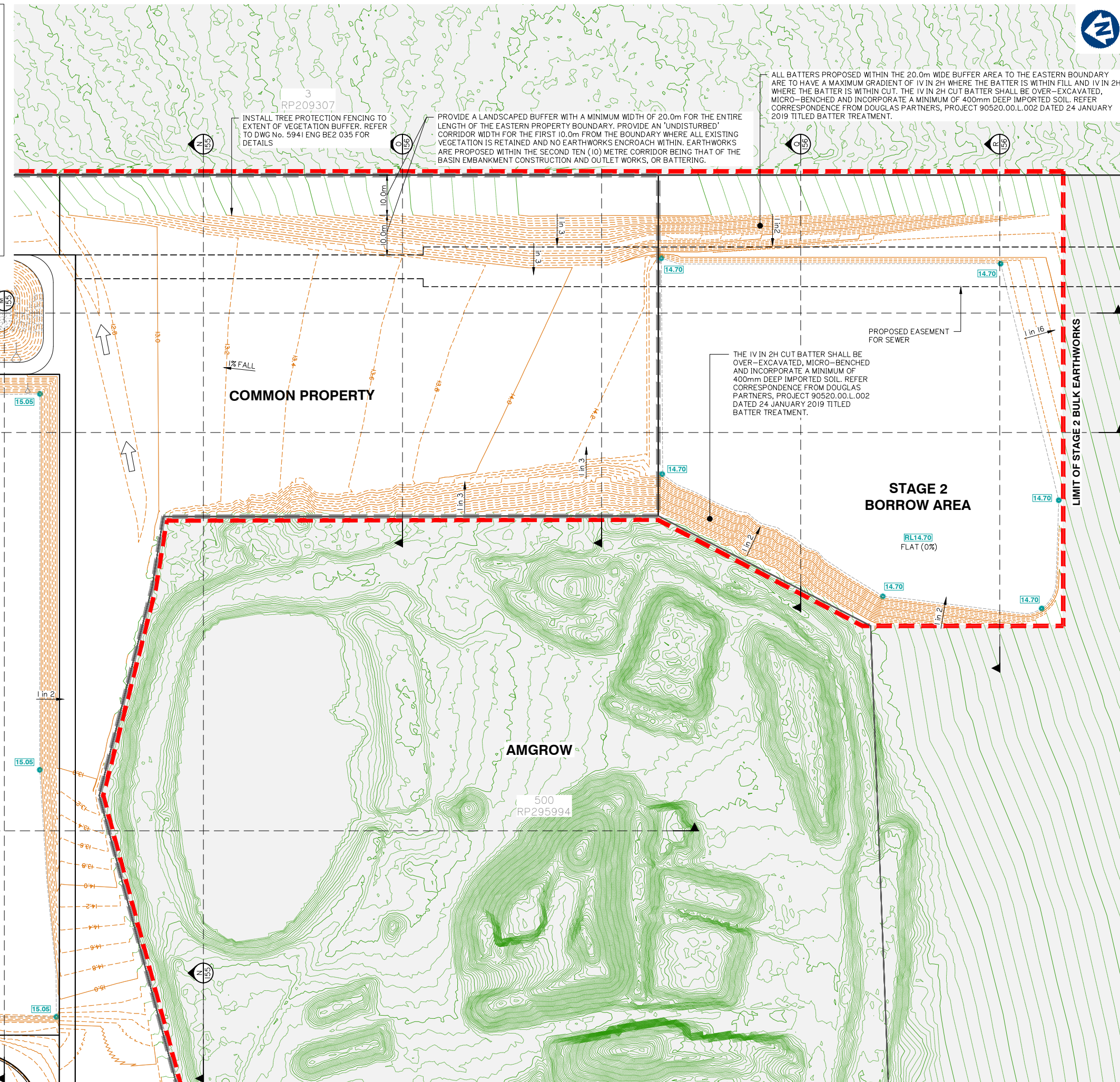
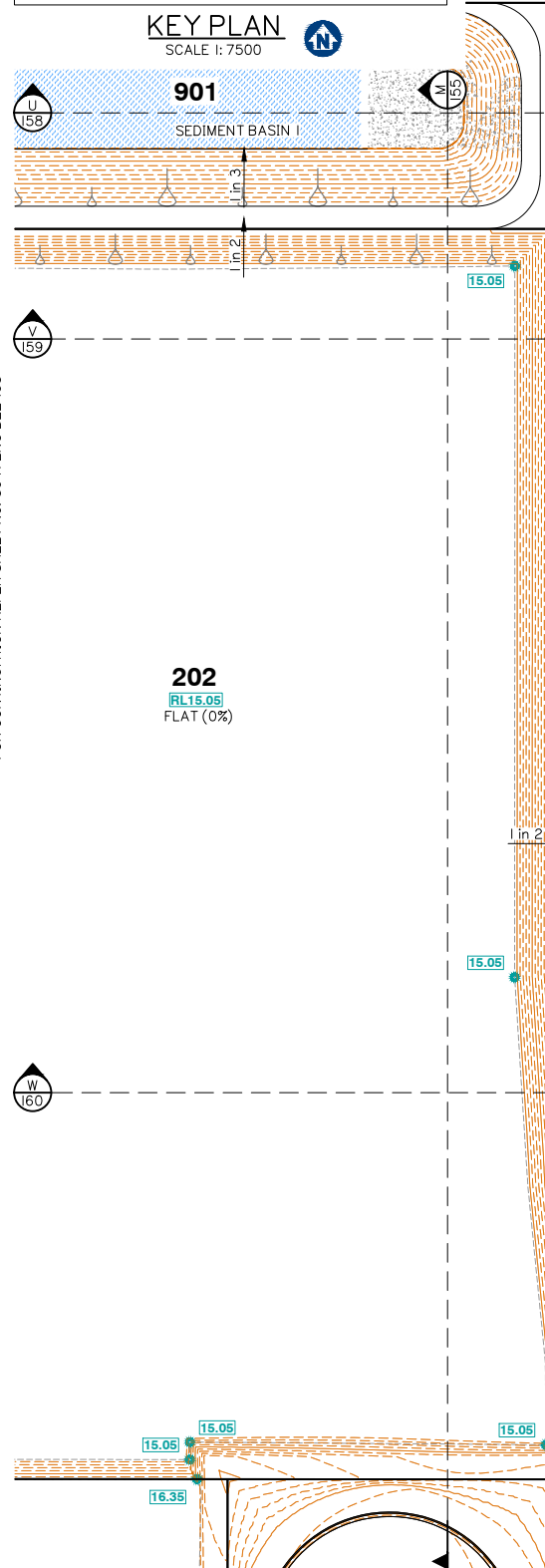
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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 7 OF 7

D	24-09-2021		EXTENT OF STAGE 2 EARTHWORKS REDUCED			IG		MG	
C	31-03-2021		INFORMATION REQUEST RESPONSE			IG		MG	
B	15-02-2021		INFORMATION REQUEST RESPONSE			IG		MG	
A	20-11-2020		ORIGINAL ISSUE			BA		CHK	
Issue	Date		Description			DRN		CHK	

SCALE IN METRES

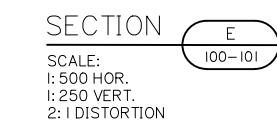
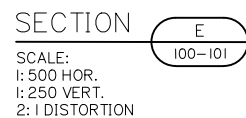
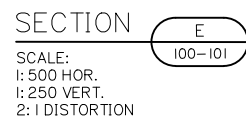
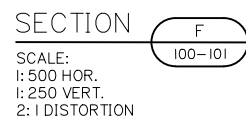
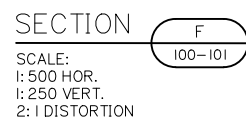


1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 3 OF 11

Rev	Date	Description	By	Check
F	17-12-2021	BATTER ALONG FAIRWAY STREET REDUCED	DV	MG
E	09-11-2021	LOT 205 BOUNDARY AND EARTHWORKS	IG	MG
D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	By	Check

SCALE IN METRES

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Scale 1:250 - Lengths are in Metres.
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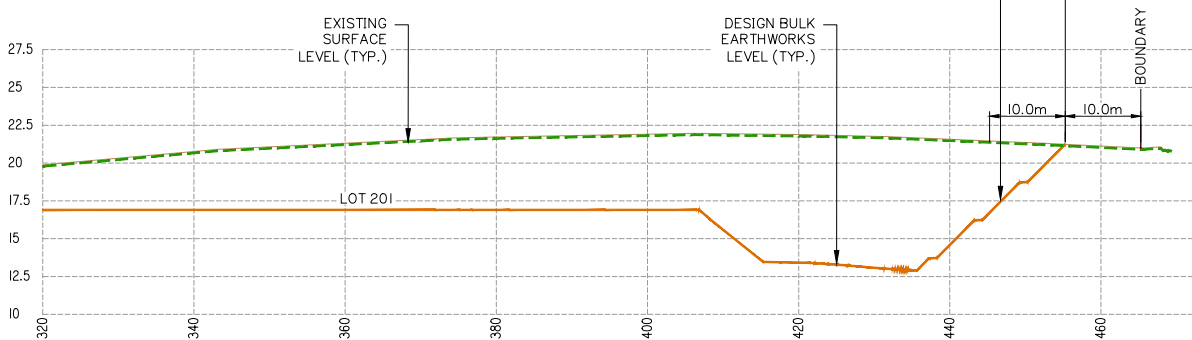
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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-12-2021

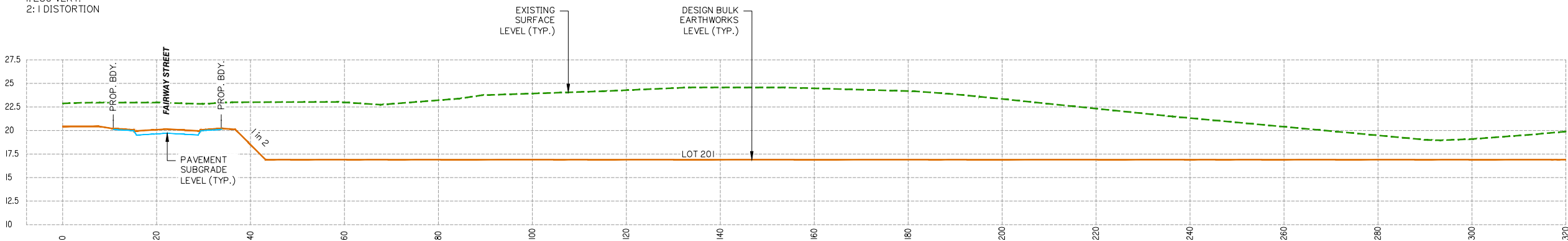
Drawing No: 5941 ENG BE2 152
Rev. No: F

ALL BATTERS PROPOSED WITHIN THE 20.0m WIDE BUFFER AREA TO THE EASTERN BOUNDARY ARE TO HAVE A MAXIMUM GRADIENT OF 1V IN 2H WHERE THE BATTER IS WITHIN FILL AND 1V IN 2H WHERE THE BATTER IS WITHIN CUT. THE 1V IN 2H CUT BATTER SHALL BE OVER-EXCAVATED, MICRO-BENCHED AND INCORPORATE A MINIMUM OF 400mm DEEP IMPORTED SOIL. REFER CORRESPONDENCE FROM DOUGLAS PARTNERS, PROJECT 90520.00.L.002 DATED 24 JANUARY 2019 TITLED BATTER TREATMENT.

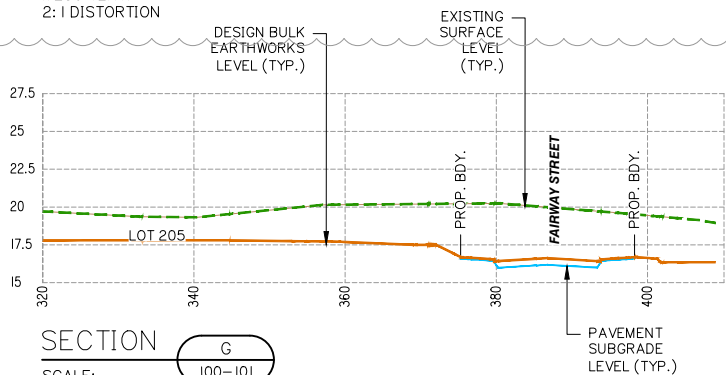
PROVIDE A LANDSCAPED BUFFER WITH A MINIMUM WIDTH OF 20.0m FOR THE ENTIRE LENGTH OF THE EASTERN PROPERTY BOUNDARY. PROVIDE AN 'UNDISTURBED' CORRIDOR WIDTH FOR THE FIRST 10.0m FROM THE BOUNDARY WHERE ALL EXISTING VEGETATION IS RETAINED AND NO EARTHWORKS ENCROACH WITHIN. EARTHWORKS ARE PROPOSED WITHIN THE SECOND TEN (10) METRE CORRIDOR BEING THAT OF THE BASIN EMBANKMENT CONSTRUCTION AND OUTLET WORKS, OR BATTERING.



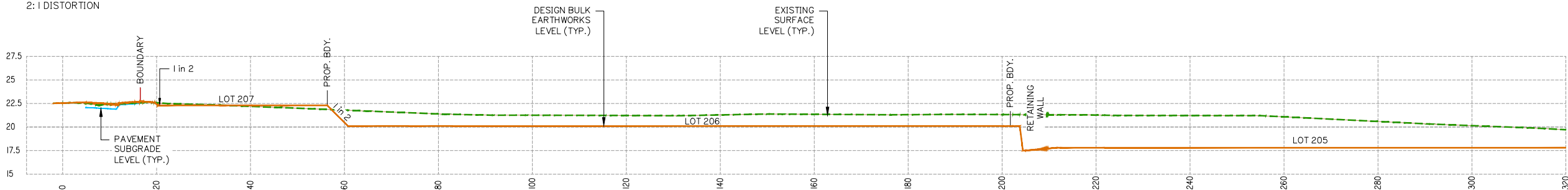
SECTION H
104-105
SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



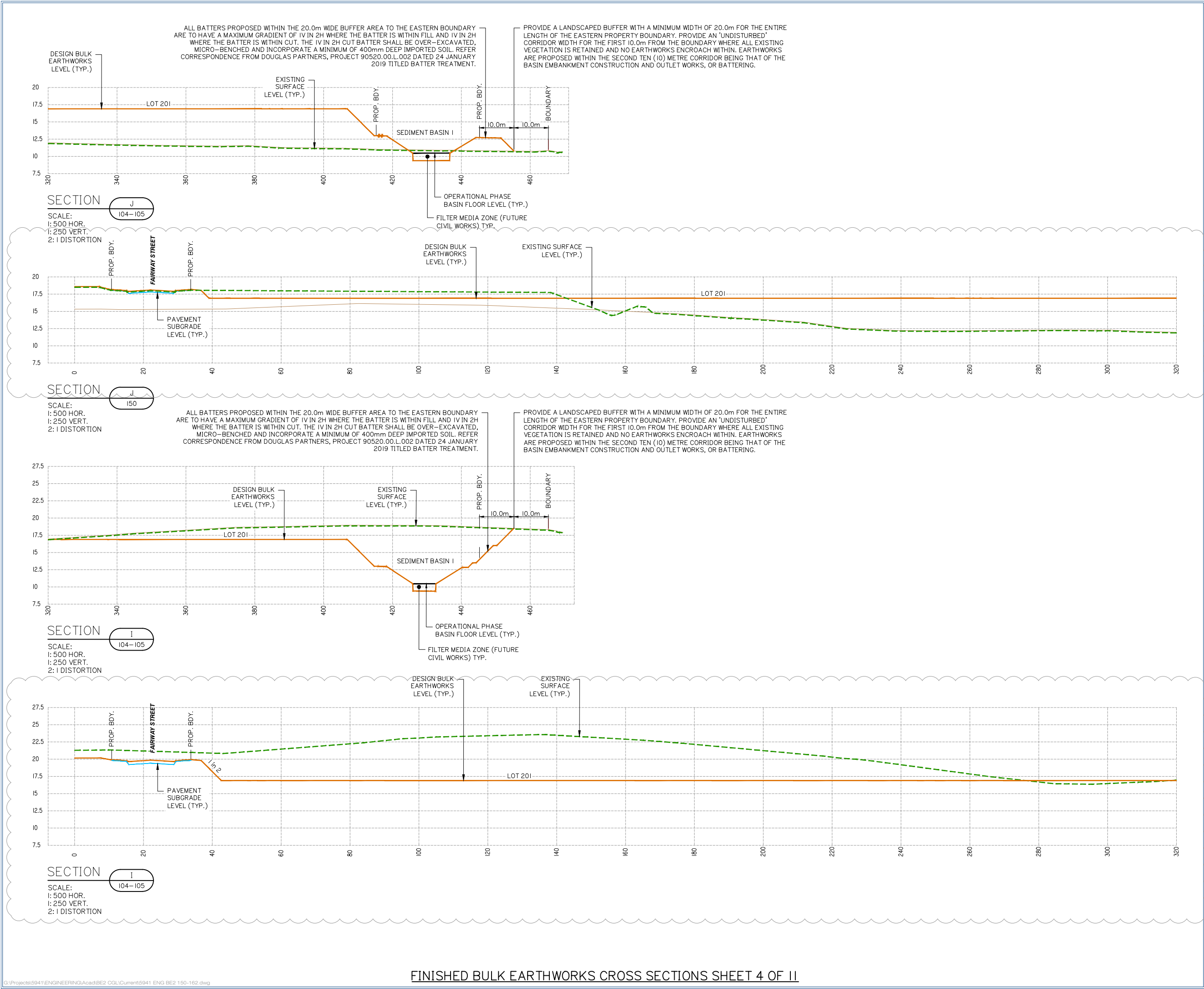
SECTION H
104-105
SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



SECTION G
100-101
SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



SECTION G
100-101
SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



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(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11

D	17-12-2021	BATTER ALONG FAIRWAY STREET REDUCED	DV	MG
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
B	31/03/21	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	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 1:250 - Lengths are in Metres.
VERT: 0 2 4 6 8 10 12 14 16 18 20

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-12-2021

Drawing No:
5941 ENG BE2 153

Rev. No:
D

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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 6 OF 11

C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
B	31/03/21	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-11-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	BA	DRN	CHK

SCALE IN METRES

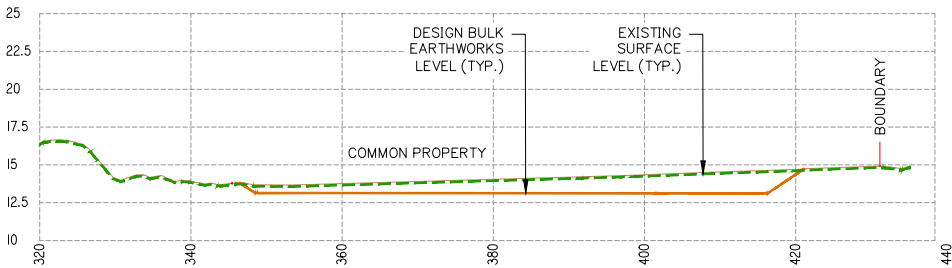
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:250 - Lengths are in Metres.
VERT: 0 2 4 6 8 10 12 14 16 18 20

Scale at A1: AS SHOWN

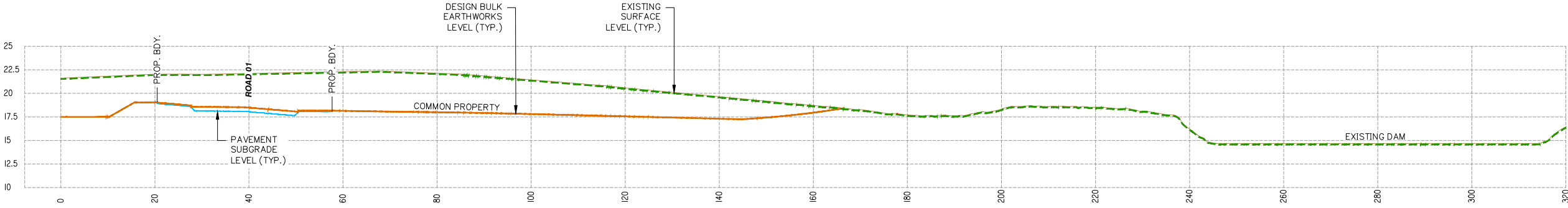
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No: 5941 ENG BE2 155
Rev. No: C



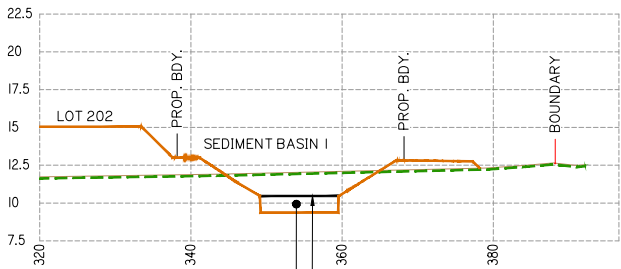
SECTION

SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



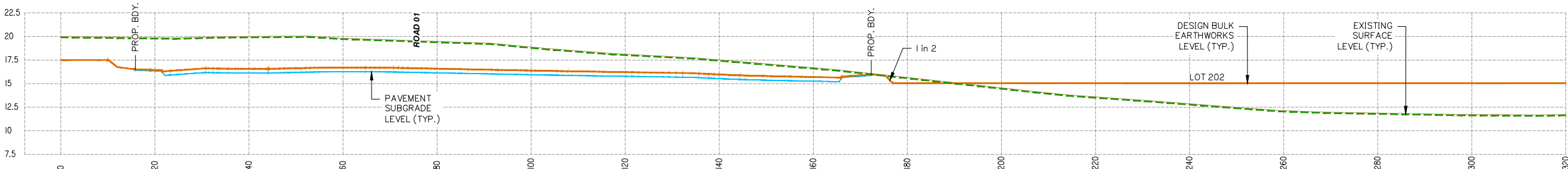
SECTION

SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



SECTION

SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



SECTION

SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



Project: **VantageYatala**
STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:
 Lot: 502
 Plan: SP316137
 Local Authority: CITY OF GOLD COAST
 COUNCIL
 Level Datum: AHD
 Meridian: -
 Contour Interval: -
 DSM: -
 L: -

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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 8 OF 11

24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG
31/03/21	INFORMATION REQUEST RESPONSE	IG
20-11-2020	ORIGINAL ISSUE	BA
Date	Description	DRN

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

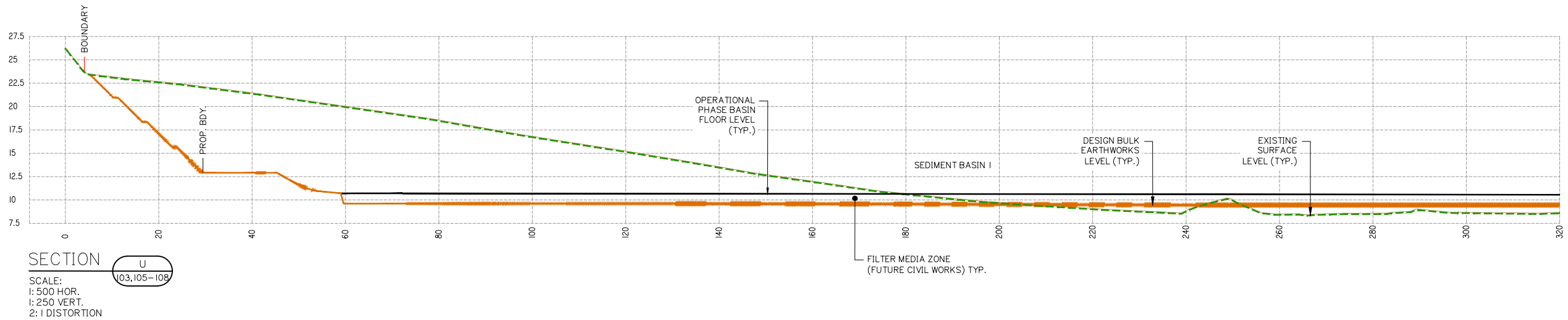
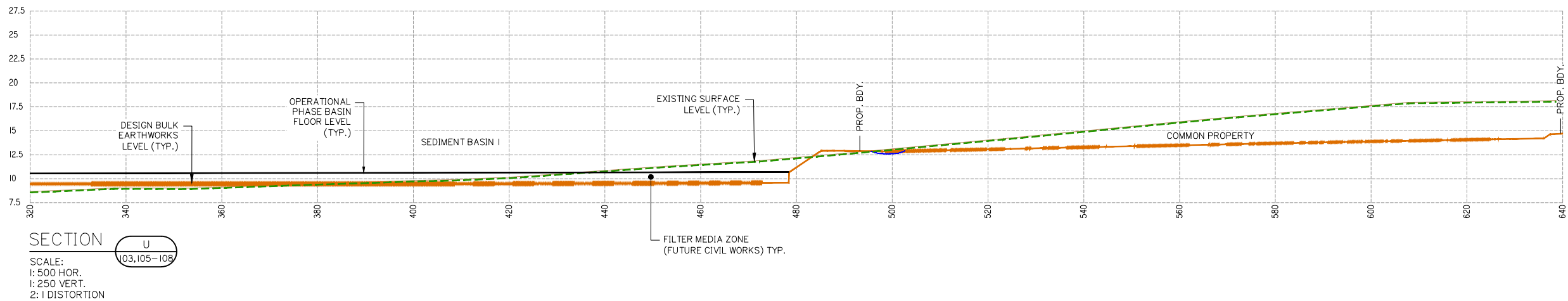
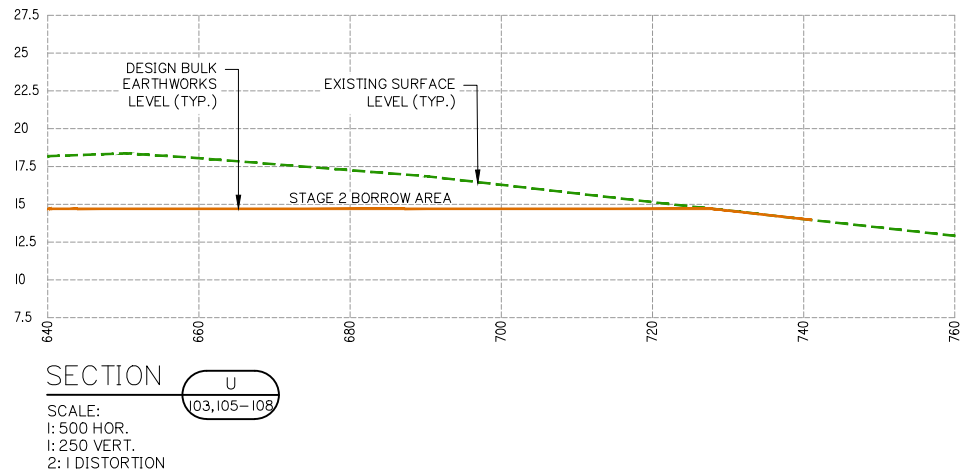
HOZ: 

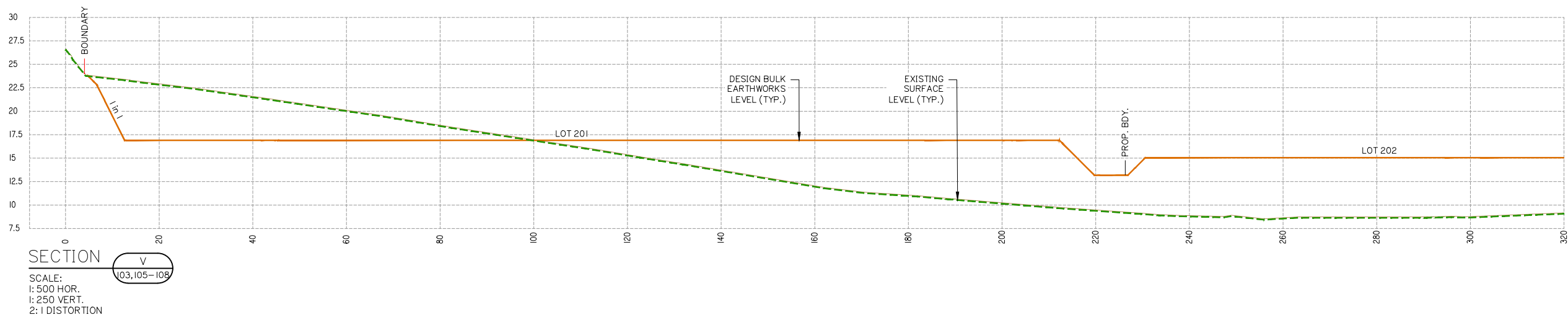
VERT:  Scale 1:250 - Lengths are in Metres.

Scale at A1: AS SHOWN

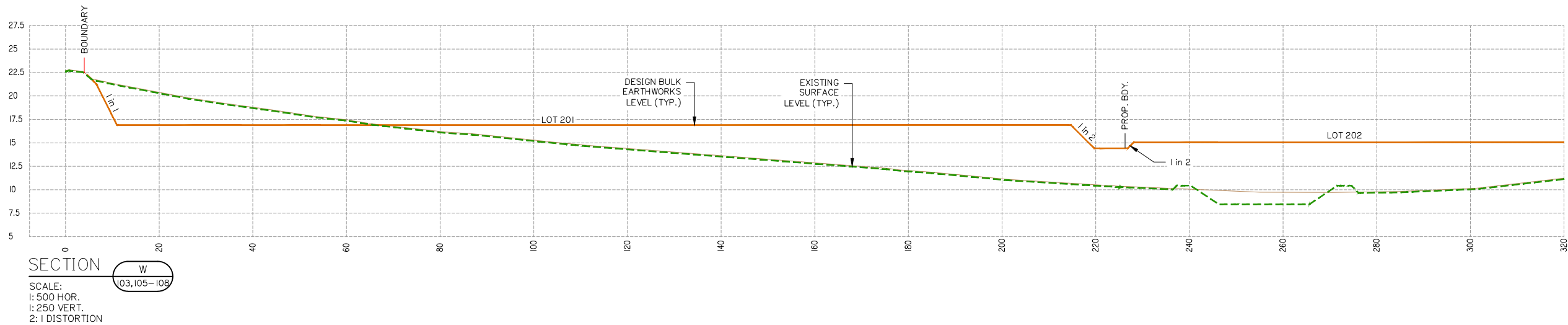
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
PEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No:	Rev. N
041 ENG BE2 158	C

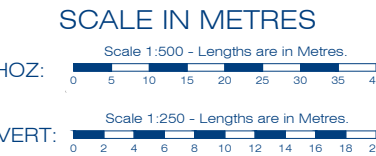




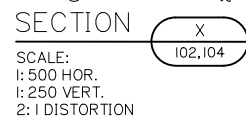
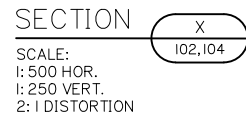
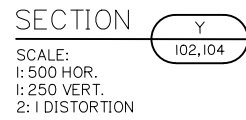
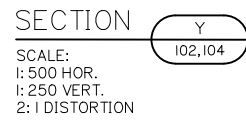
Drawing No: 5941 ENG BE2 159 Rev. M B

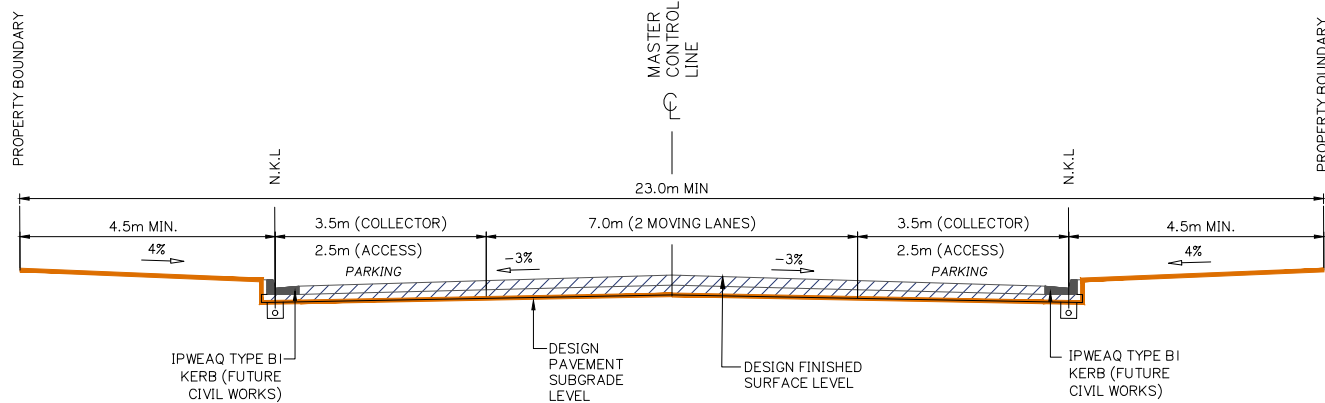


24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG
20-11-2020	ORIGINAL ISSUE	BA
Date	Description	DRN



Scale at A1:	AS SHOWN
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
PEQ:	16939
Designed:	
Date:	24-09-2021

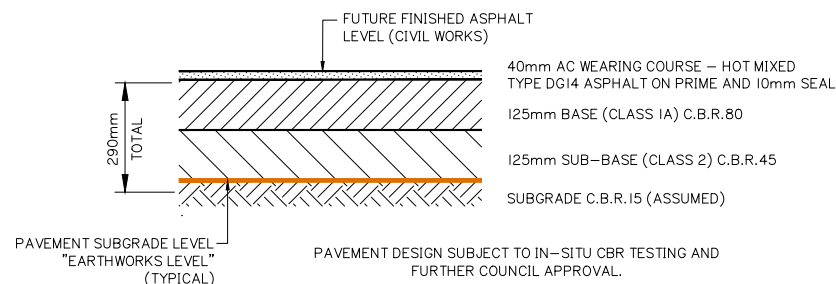




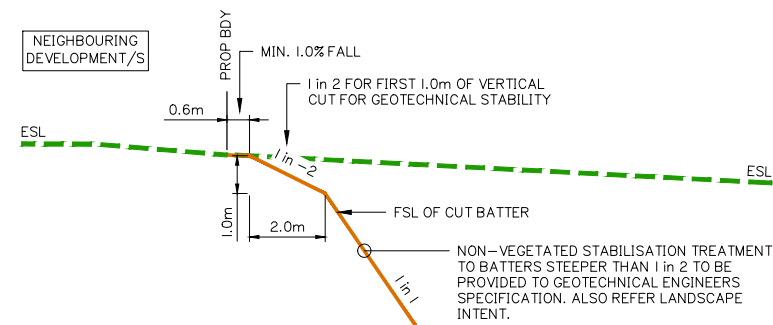
TYPICAL CROSS SECTION – INDUSTRIAL / COMMERCIAL
COLLECTOR AND ACCESS STREETS (23.0m)
FAIRWAY STREET AND ROAD 01

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

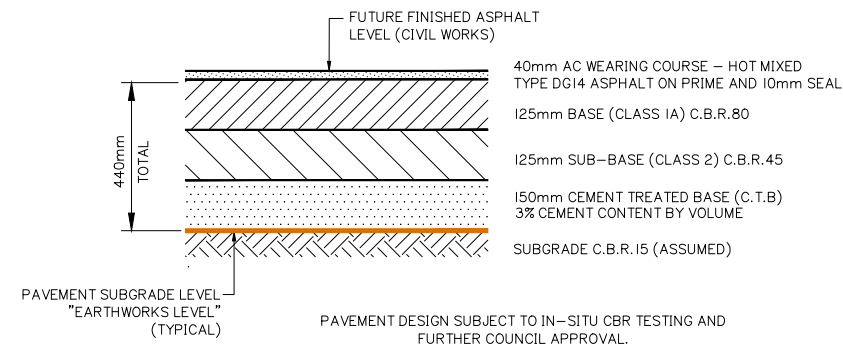
ONLY THE BULK EARTHWORKS IS APPLICABLE.
A SEPARATE APPLICATION WILL BE SUBMITTED
FOR THE CIVIL ROADWORKS ASSOCIATED WITH
THE RECONFIGURATION OF LOTS.



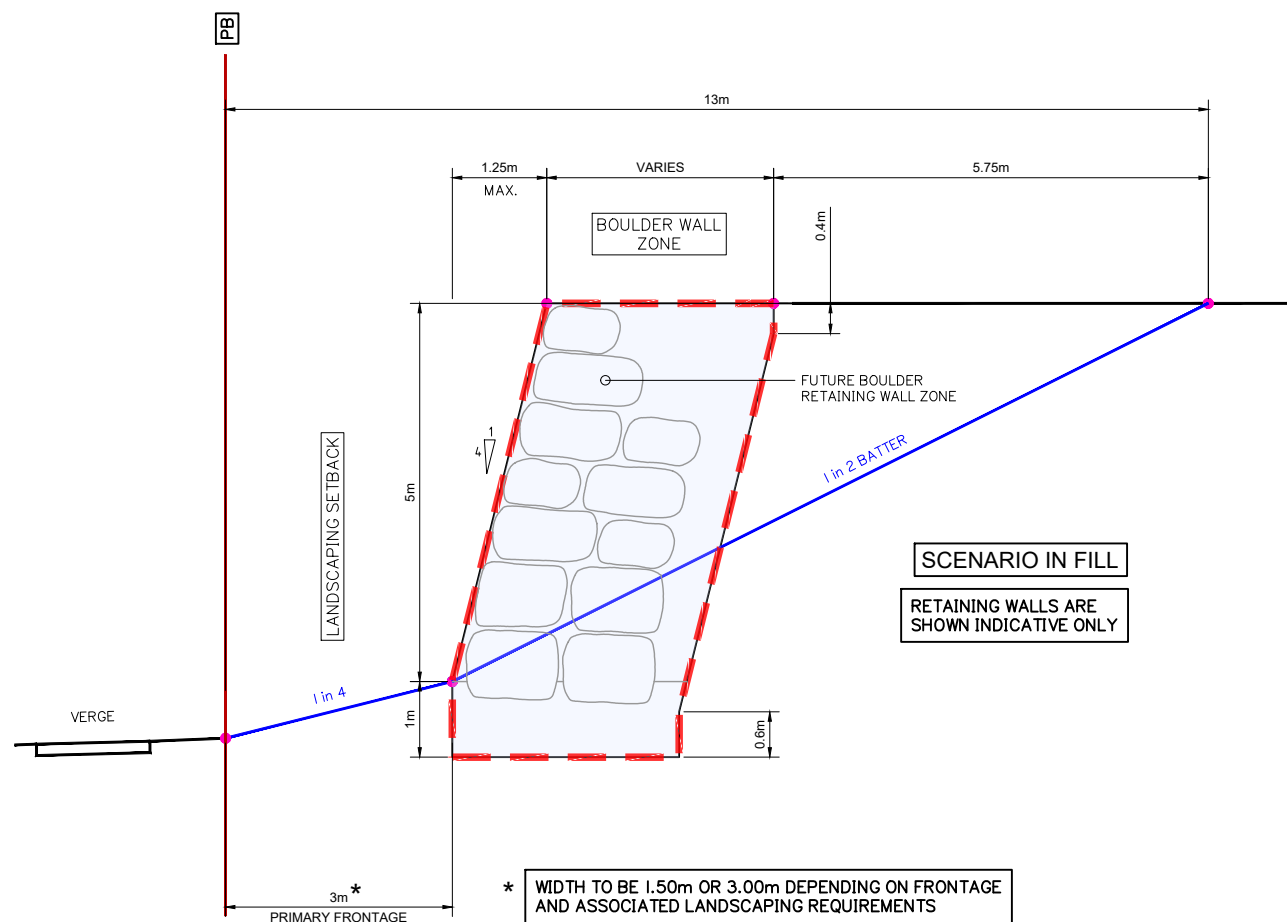
NOMINAL ROAD PAVEMENT DETAIL – IN FILL AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET N.T.S



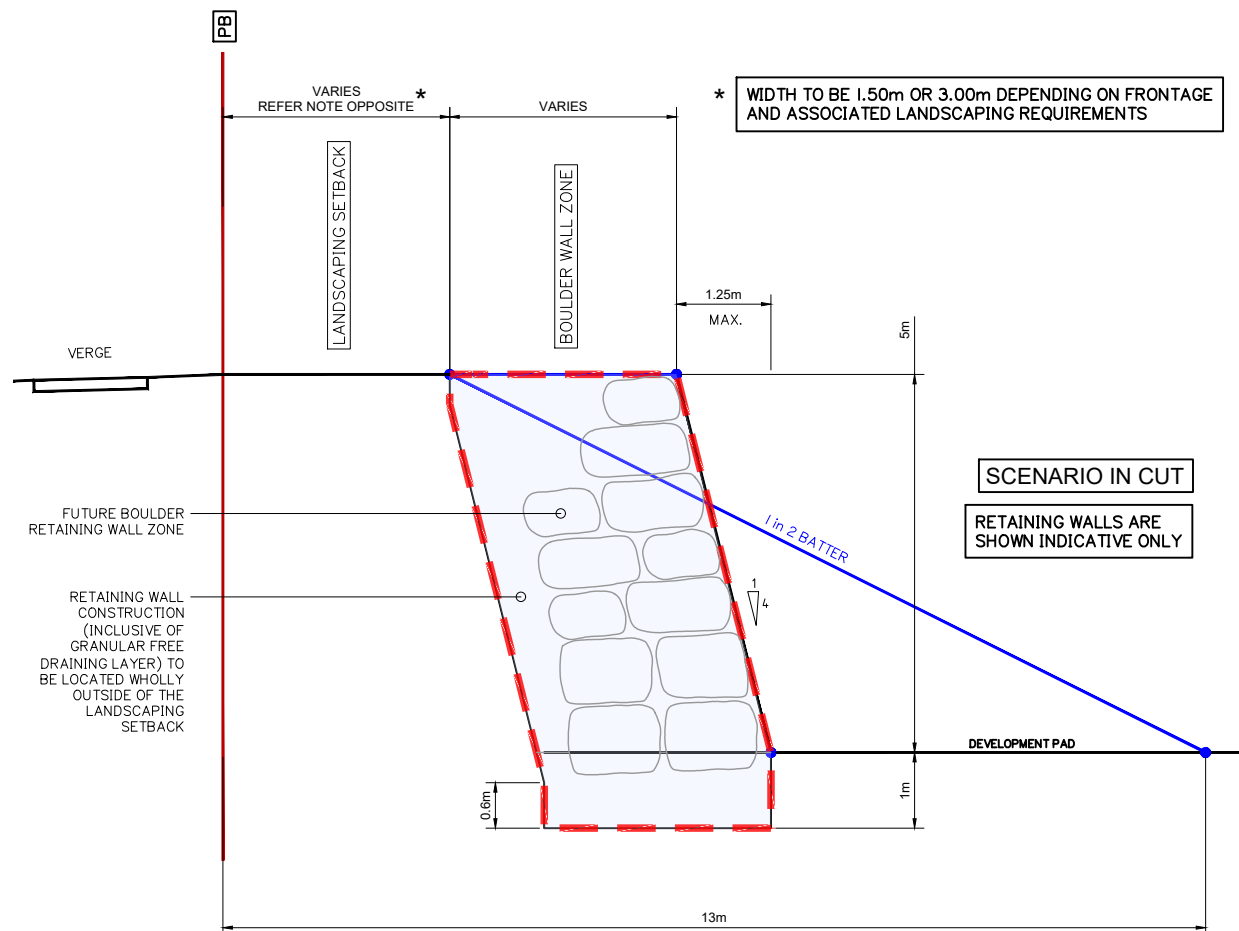
TYPICAL TOP OF CUT BATTER TREATMENT AT
NEIGHBOURING DEVELOPMENT INTERFACES SCALE 1: 100



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

BULK EARTHWORKS ROAD TYPICAL SECTIONS

Client:



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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE

BULK EARTHWORKS ROAD
TYPICAL SECTIONS

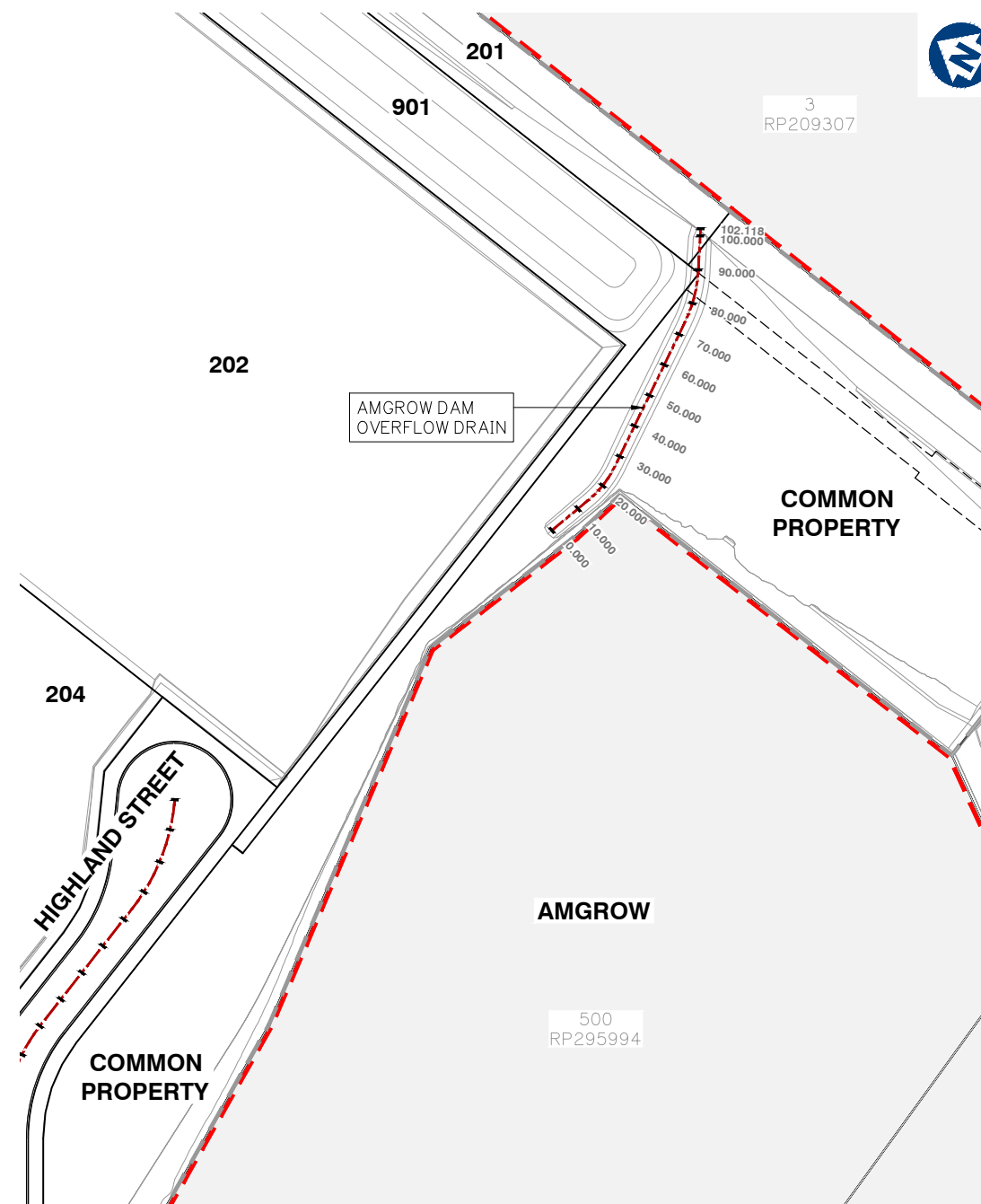
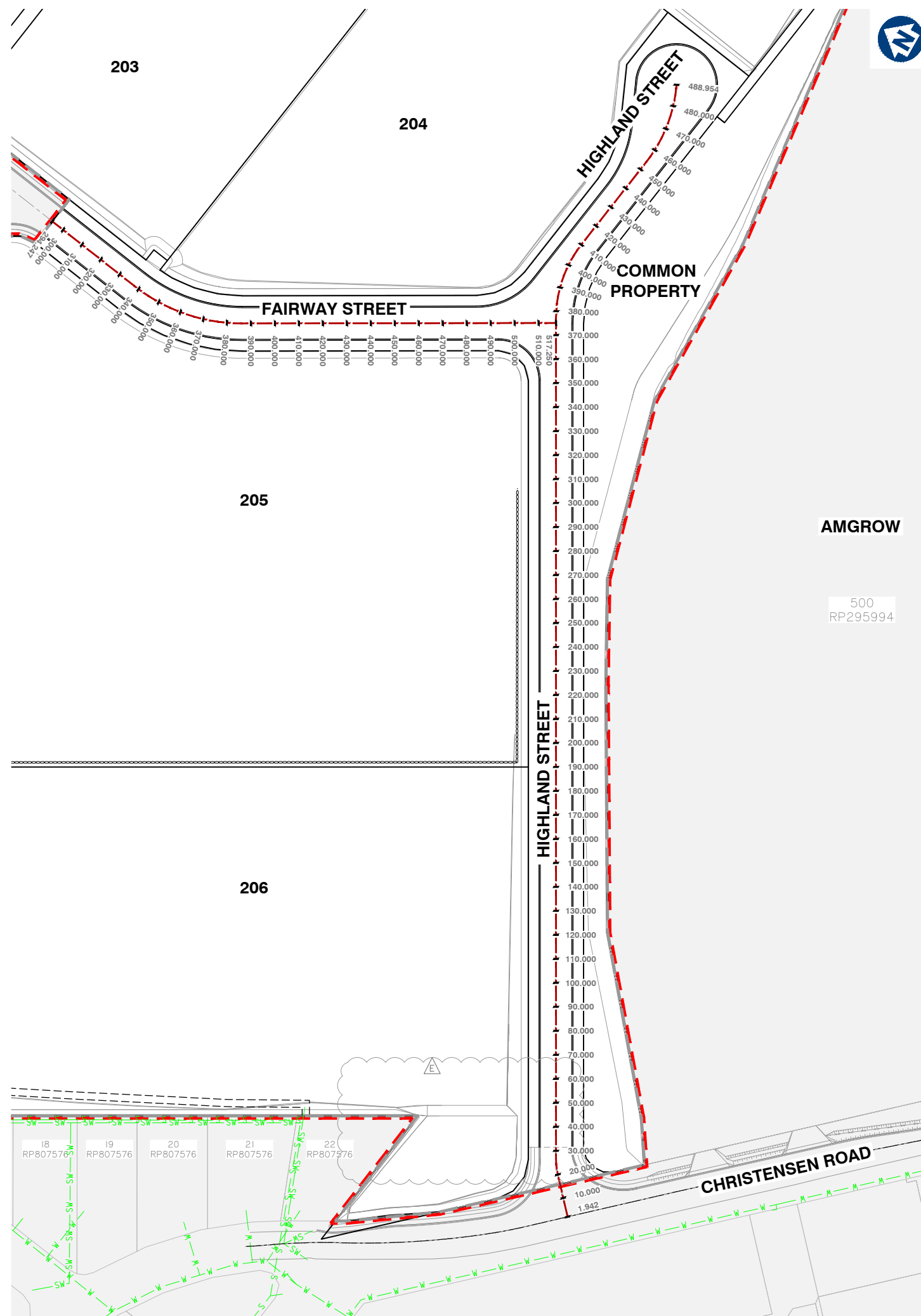
Issue	Date	Description	BA	MG	DRN	CHK
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-11-2020	ORIGINAL ISSUE	BA	MG		

SCALE IN METRES

NOT APPLICABLE

Scale at A1:	NTS
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No: 5941 ENG BE2 163
Rev. No: C



Client:



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(AUSTRALIA) PTY. LTD.

Project:

Project: **VantageYatala**
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot:	502
Plan:	SP316137
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI:	-

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DRAWING TITLE

CONTROL LINE LAYOUT PLAN

E	23-05-2022	LOT 207 BOUNDARY REMOVED		LAB	MG
D	10-02-2022	LOT 205 BOUNDARY AND EARTHWORKS		DV	MG
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED		IG	MG
B	15-02-2021	INFORMATION REQUEST RESPONSE		IG	MG
A	20-11-2020	ORIGINAL ISSUE		BA	MG
Issue		Description		TBN	

SCALE IN METRES

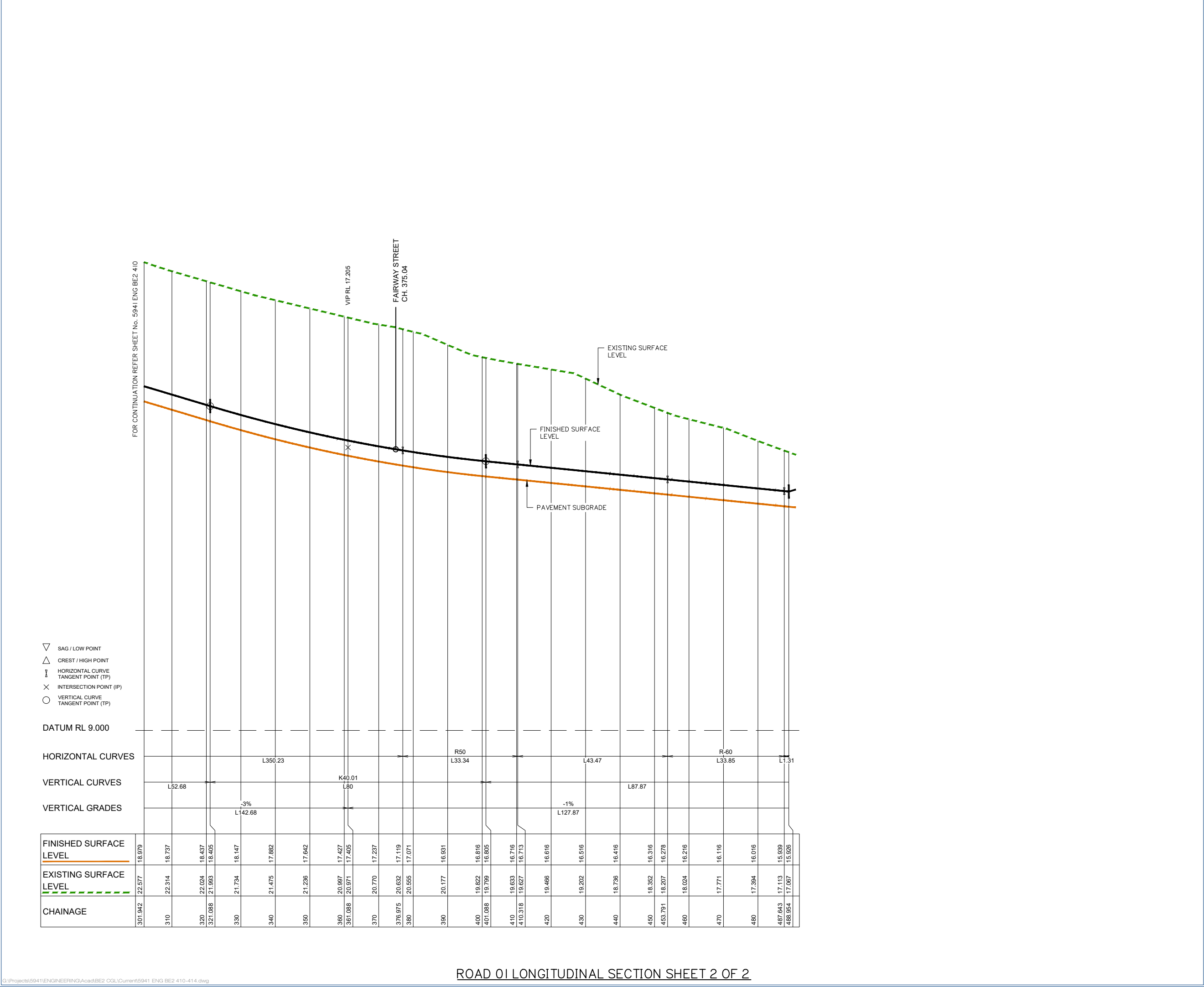


1:1000 (FULL SIZE A1)
1:2000 (HALF SIZE A3)

Scale at A1:	1:1000
--------------	--------

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	23-05-2022

Drawing No:	Rev. No:
5941 ENG BE2 400	E



ROAD 01 LONGITUDINAL SECTION SHEET 2 OF 2



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STAGE 2

Site Address:

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ROAD, STAPYLTON QLD 4207

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RPD:

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Meridian: -
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DRAWING TITLE

ROAD 01 LONGITUDINAL
SECTION SHEET 2 OF 2

B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
A	20-11-2020	ORIGINAL ISSUE	BA	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:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No: 5941 ENG BE2 411 Rev. No: B

FAIRWAY STREET LONGITUDINAL SECTION

Client



Project: **VantageYatala**
STAGE 2

Site Address:
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ROAD, STAPYLTON QLD 4207

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RPD:

Lot:	502
Plan:	SP316137
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE
AMGROW DAM OVERFLOW
DRAIN LONGITUDINAL
SECTION

B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG
A	20-11-2020	ORIGINAL ISSUE	BA
Issue	Date	Description	DRN

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

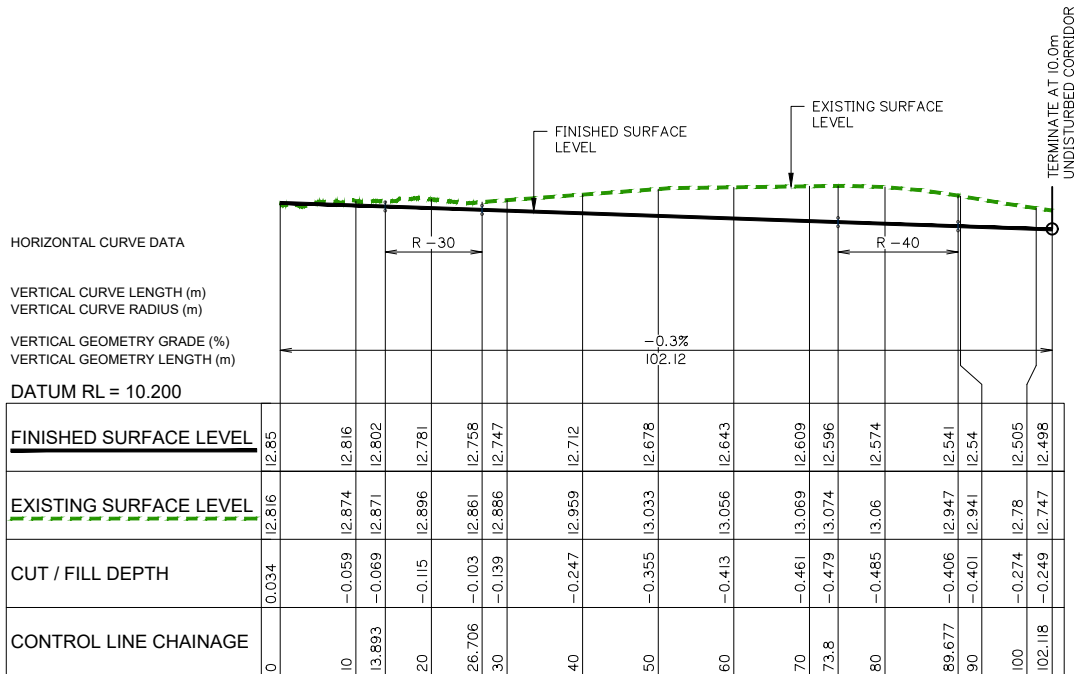
HOZ:

VERT:

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No:	Rev. N
5941 ENG BE2 414	B



AMGROW DAM OVERFLOW DRAIN LONGITUDINAL SECTION

Client:



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(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 502
Plan: SP316137
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Level Datum:
Meridian:
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RL:

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DRAWING TITLE

ROAD 01 CROSS SECTIONS
SHEET 2 OF 8

B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IQ	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
	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
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Drafted:	IG / BA / LAB
----------	---------------

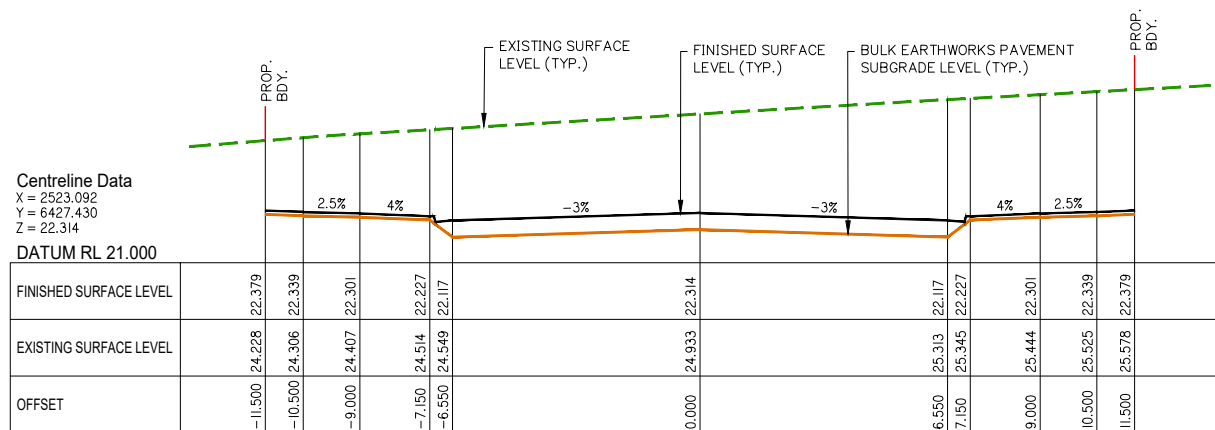
Approved:	MG
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RPEQ:	16939
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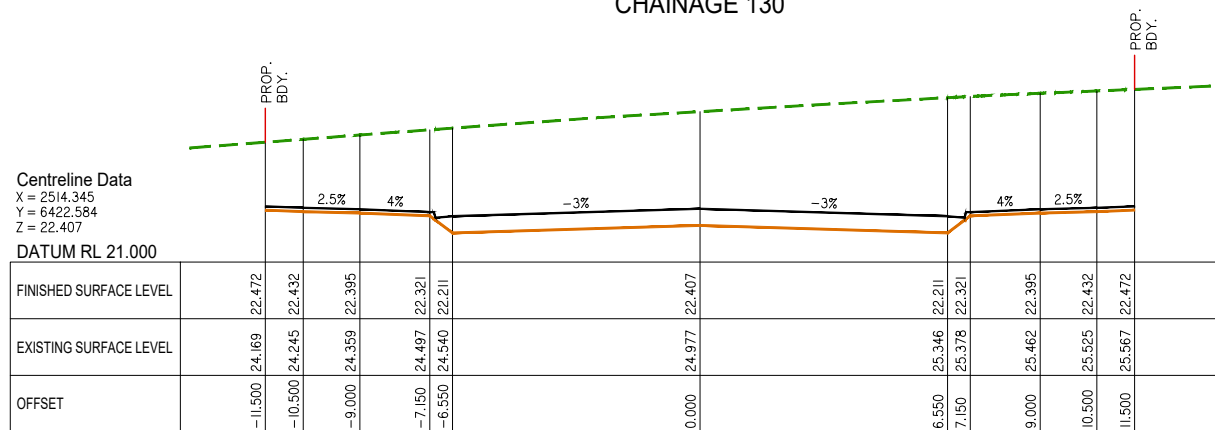
Signed:

Date:	24-09-2021
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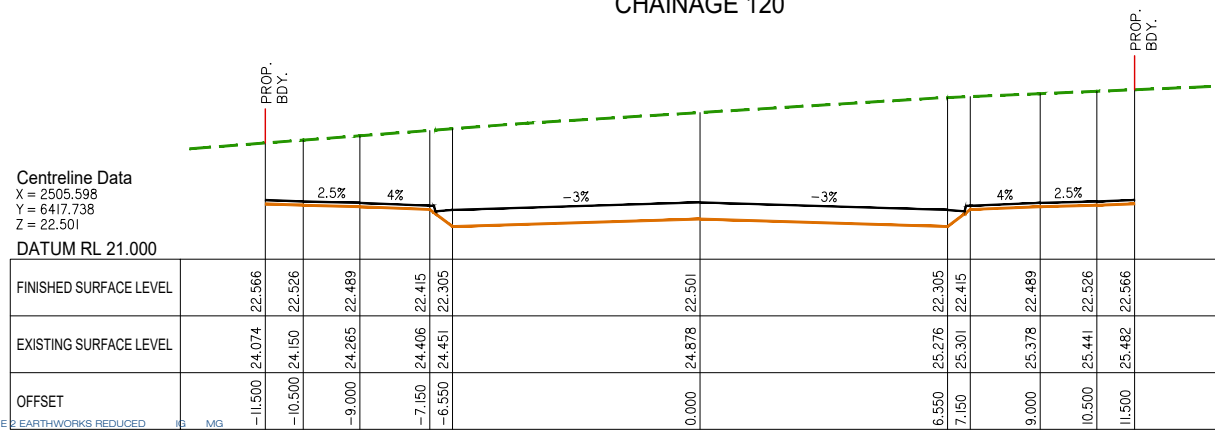
Drawing No:	Rev. No:
5941 ENG BE2 431	B



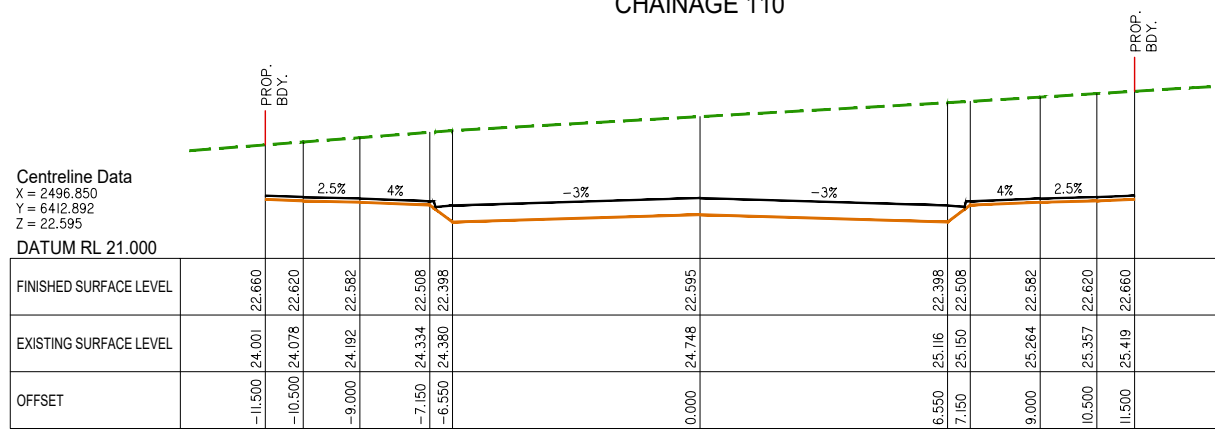
CHAINAGE 130



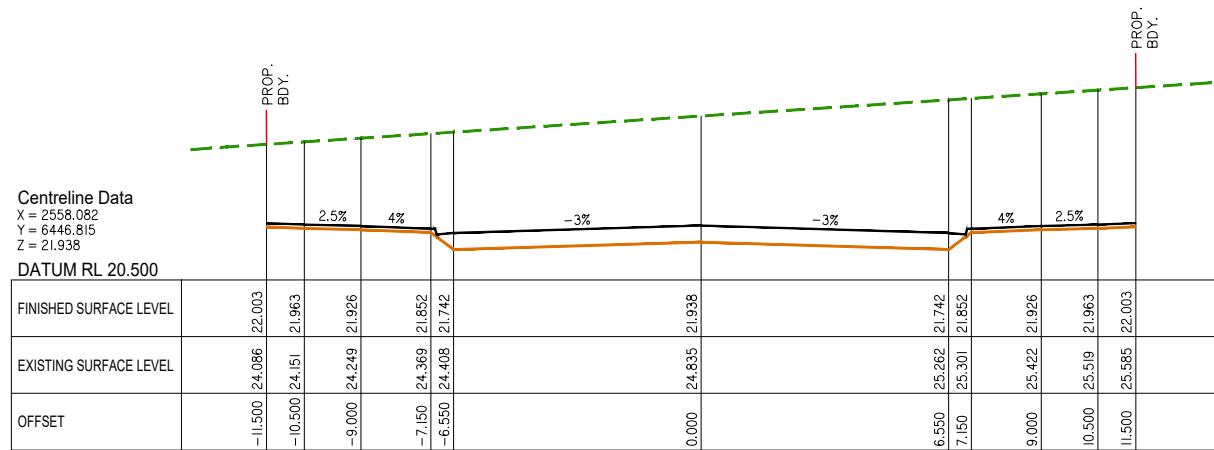
CHAINAGE 120



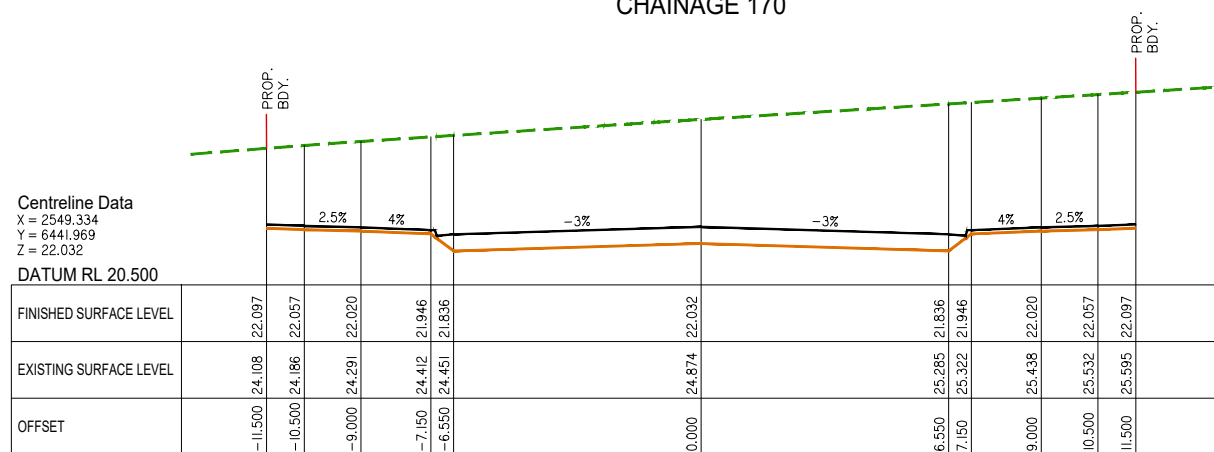
CHAINAGE 110



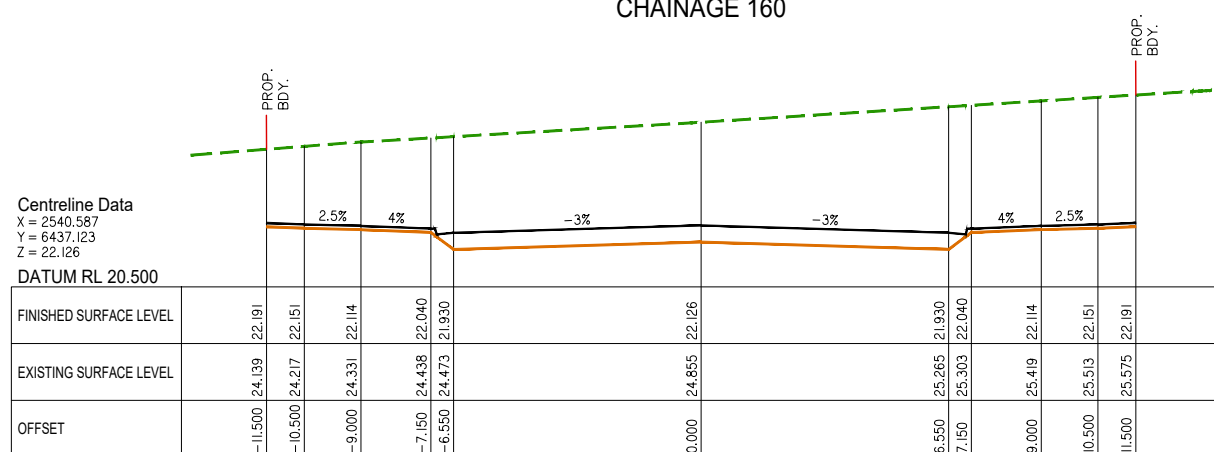
CHAINAGE 100



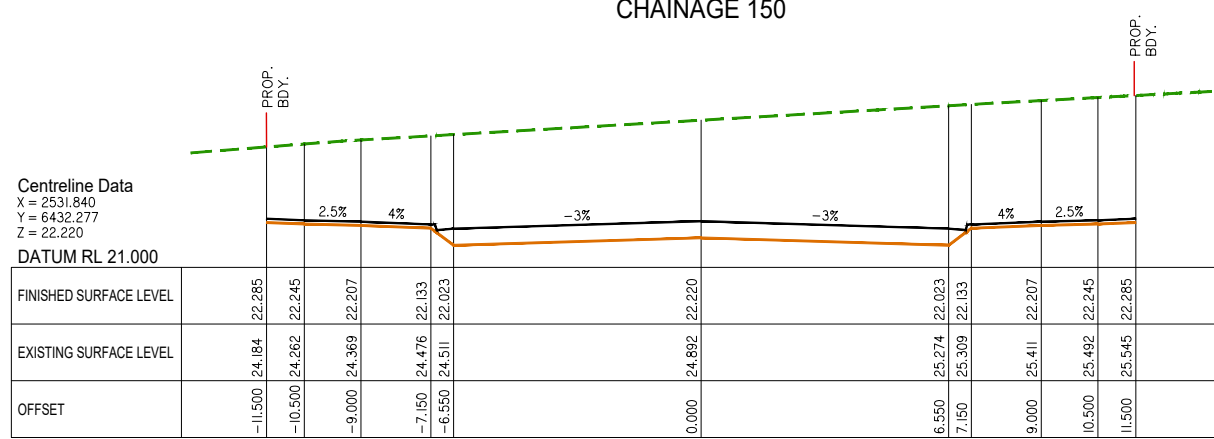
CHAINAGE 170



CHAINAGE 160



CHAINAGE 150



CHAINAGE 140

[illegible]

Scale 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

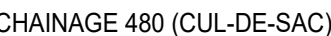
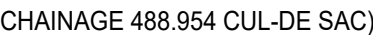
VERT:

Designed:	IG
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Approved:	MG
-----------	----

Signed:	
---------	---

Drawing No: _____ Rev. No: _____



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
COUNCIL

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

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DRAWING TITLE

FAIRWAY STREET CROSS
SECTIONS SHEET 3 OF 4

B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
A	20-11-2020	ORIGINAL ISSUE	BA	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:	IG / BA / LAB
----------	---------------

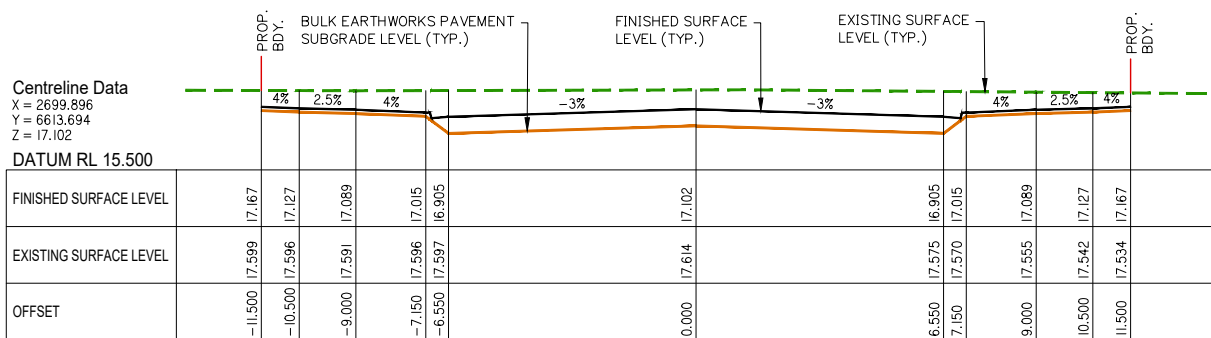
Approved:	MG
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RPEQ:	169,39
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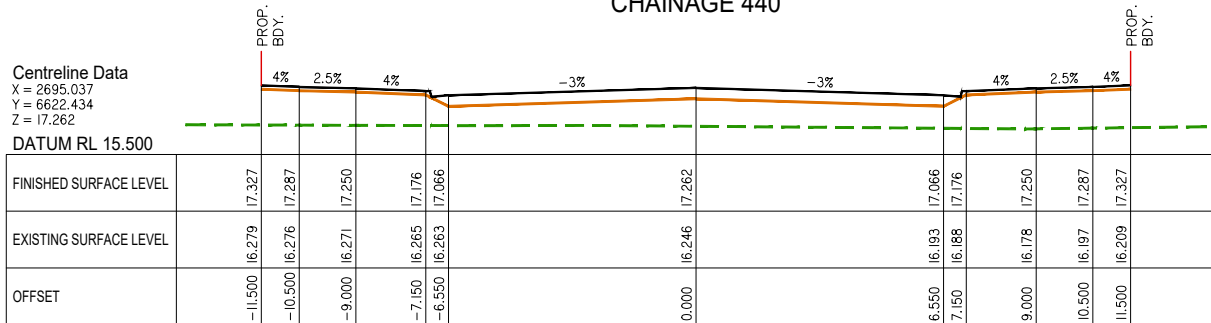
Signed:	
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Date:	24-09-2021
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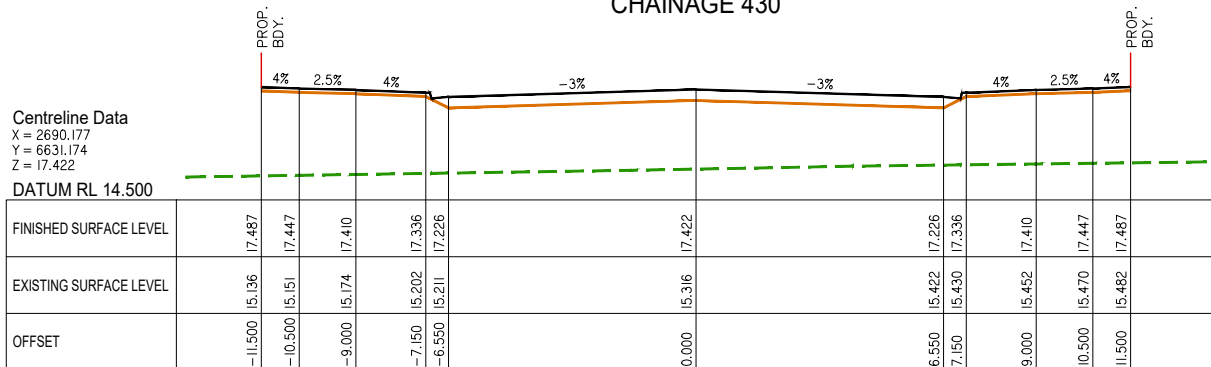
Drawing No:
5941 ENG BE2 440

Rev. No:
B

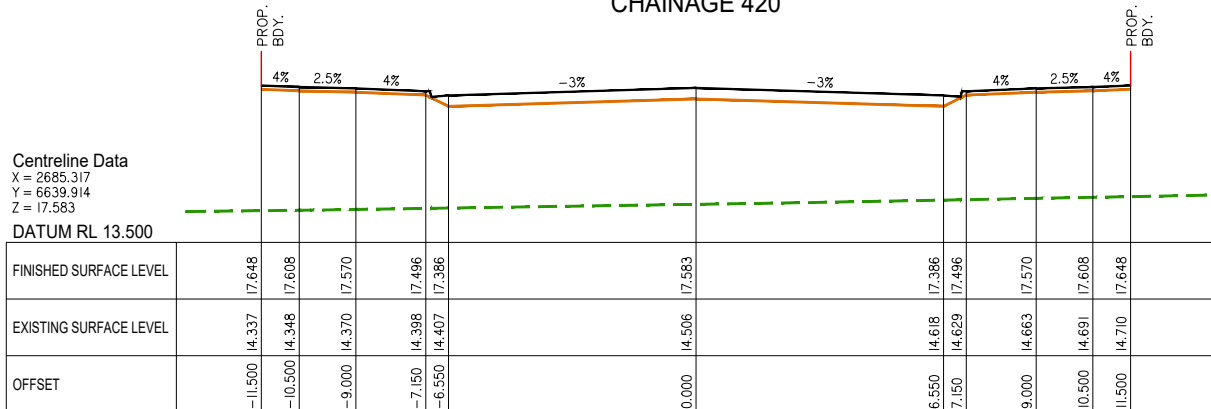
CHAINAGE 440



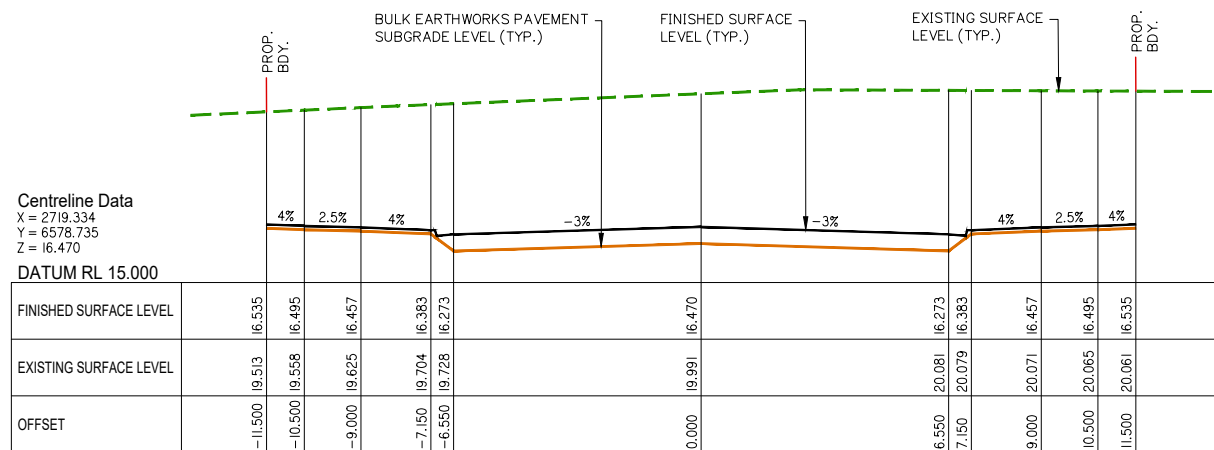
CHAINAGE 430



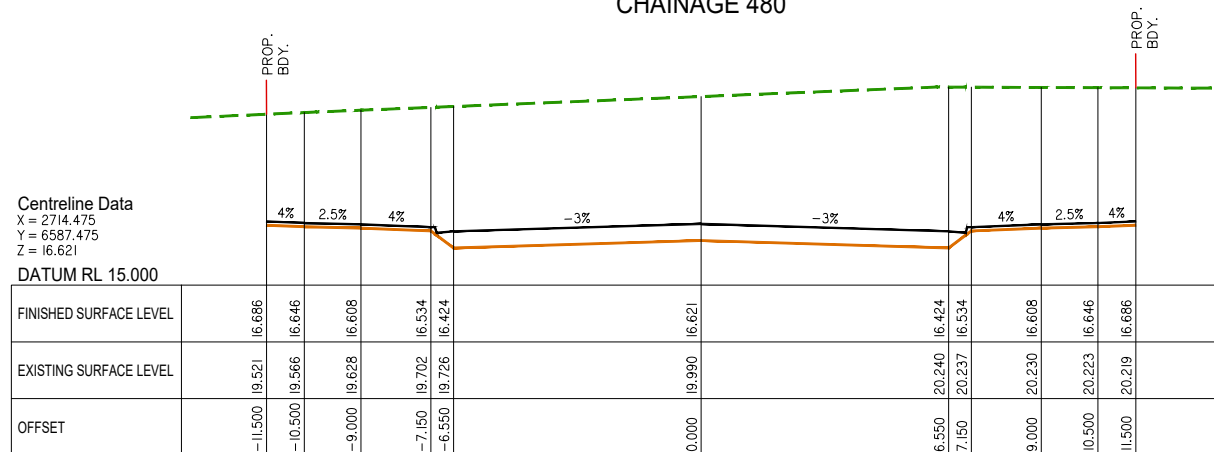
CHAINAGE 420



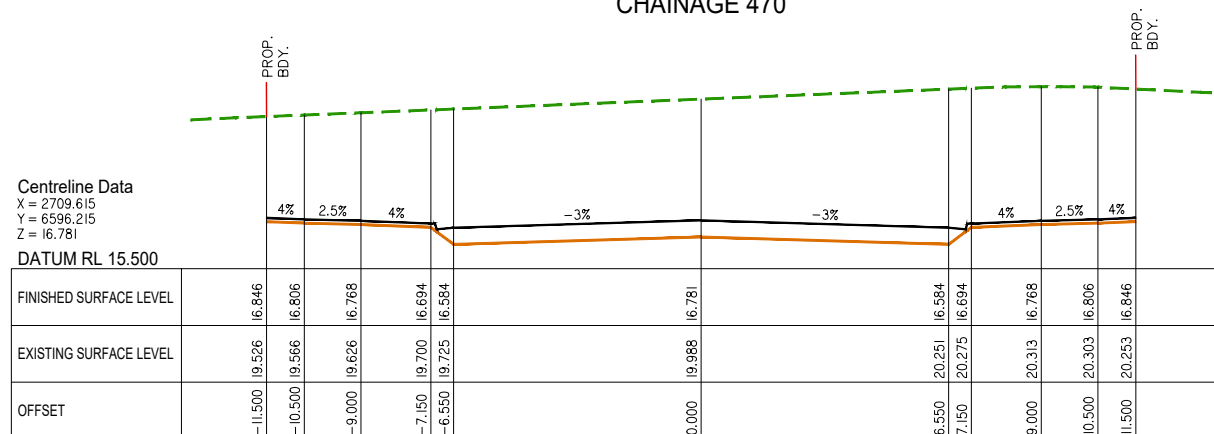
CHAINAGE 410



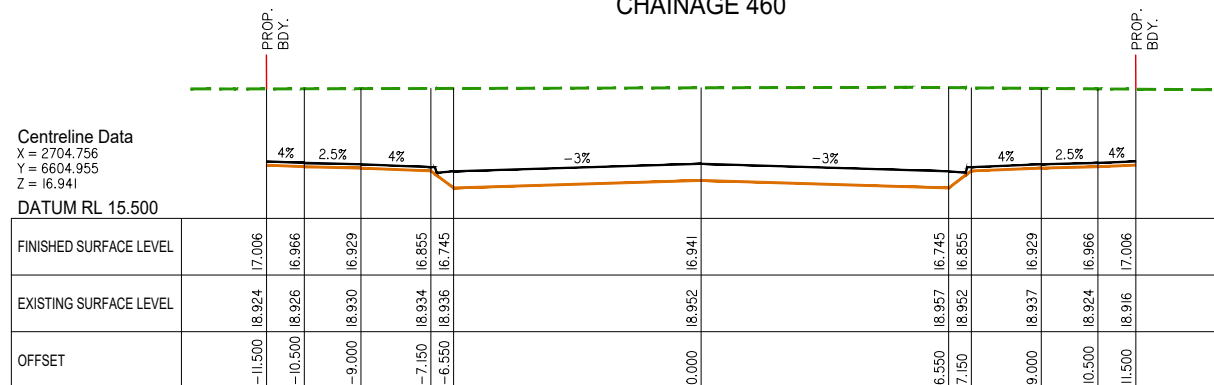
CHAINAGE 480



CHAINAGE 470



CHAINAGE 460



CHAINAGE 450



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: **VantageYatala**
STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	502
Plan:	SP316137
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE

FAIRWAY STREET CROSS
SECTIONS SHEET 4 OF 4

B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MD	
A	20-11-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CH	

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
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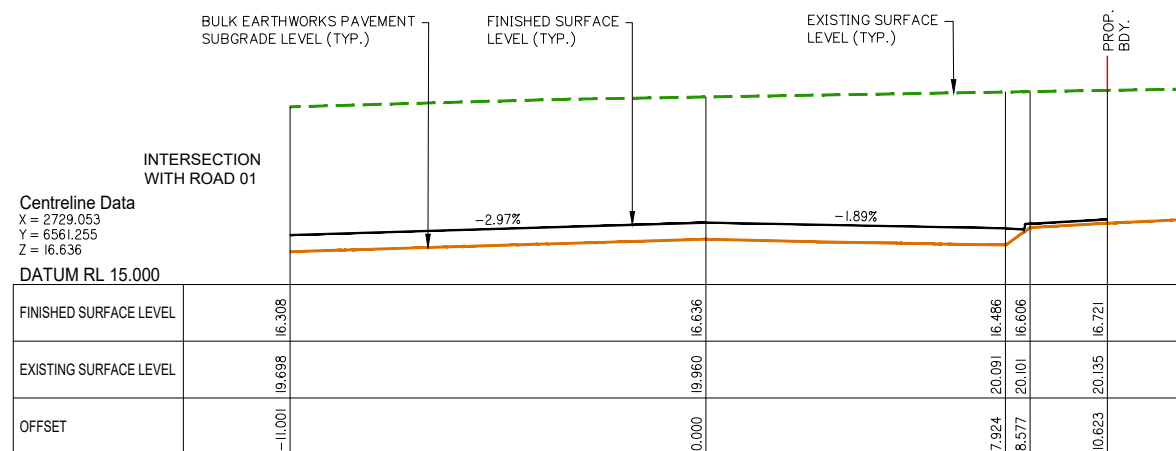
Drafted:	IG / BA / LAB
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Approved:	MG
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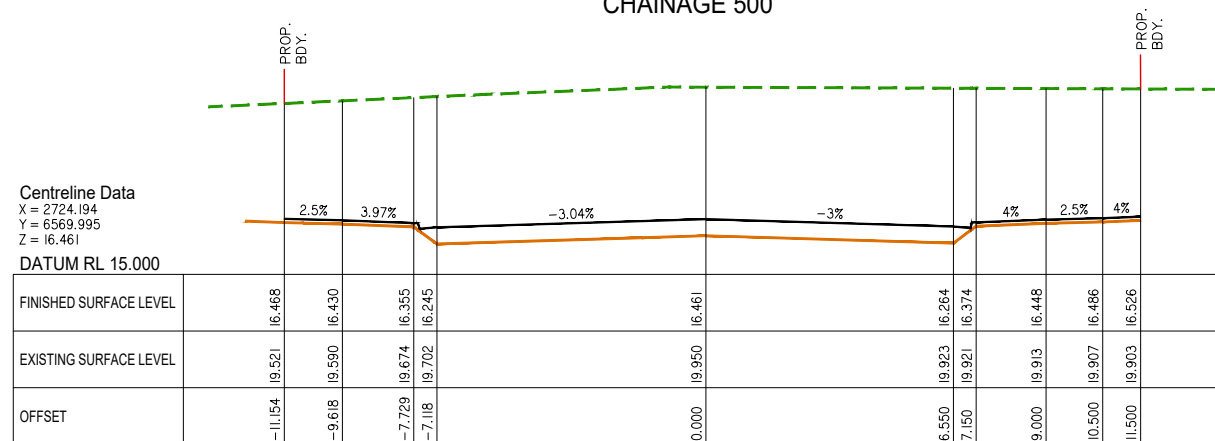
RPEQ:	16939
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Signed:	
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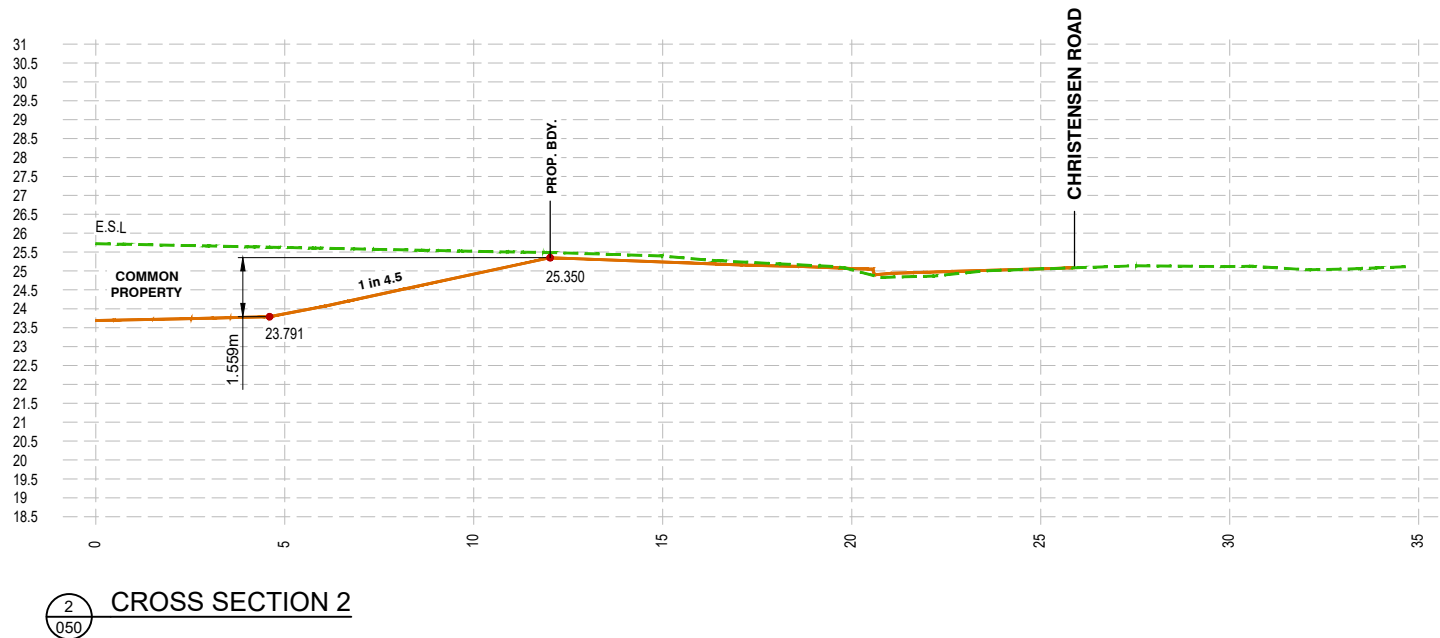
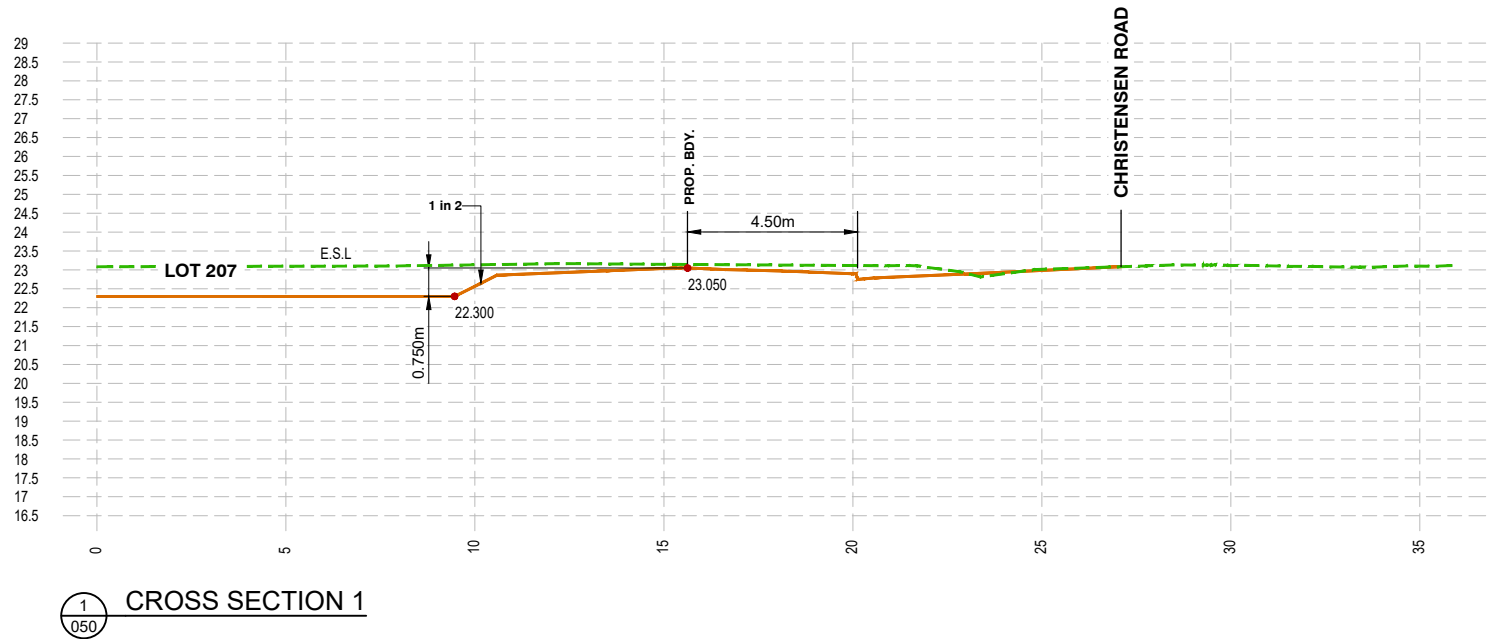
Drawing No:	Rev. No:
5941 ENG BE2 441	B



CHAINAGE 500



CHAINAGE 490



Client:



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(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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BE PRINTED IN COLOUR

RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

ROAD USER SAFETY CROSS
SECTIONS - SHEET 1 OF 5

B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
A	15-02-2021	ORIGINAL ISSUE	BA	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:	IG BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No:
5941 ENG BE2 442

Rev. No:
B



Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

RPD:
 Lot: 502
 Plan: SP316137
 Local Authority: CITY OF GOLD COAST
 COUNCIL
 Level Datum: AHD
 Meridian: -
 Contour Interval: -
 DSM: -
 L: -

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DRAWING TITLE

ROAD USER SAFETY CROSS
SECTIONS - SHEET 2 OF 5

SCALE IN METRES

2 4 6 8 10

1:100 (FULL SIZE A1)

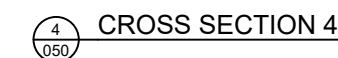
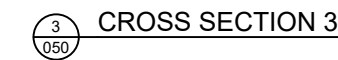
1:200 (HALF SIZE A3)

Designed:	IG
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Approved:	MG
-----------	----

Signed:

Drawing No: Rev. N
041 ENG BE2 443 C



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE

ROAD USER SAFETY CROSS
SECTIONS - SHEET 3 OF 5

C	10-11-2021	LOT 205 RETAINING WALLS ADDED			IG MG
B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED			IG MG
A	15-02-2021	ORIGINAL ISSUE			BA MG
Issue	Date	Description			DRN CHK

SCALE IN METRES

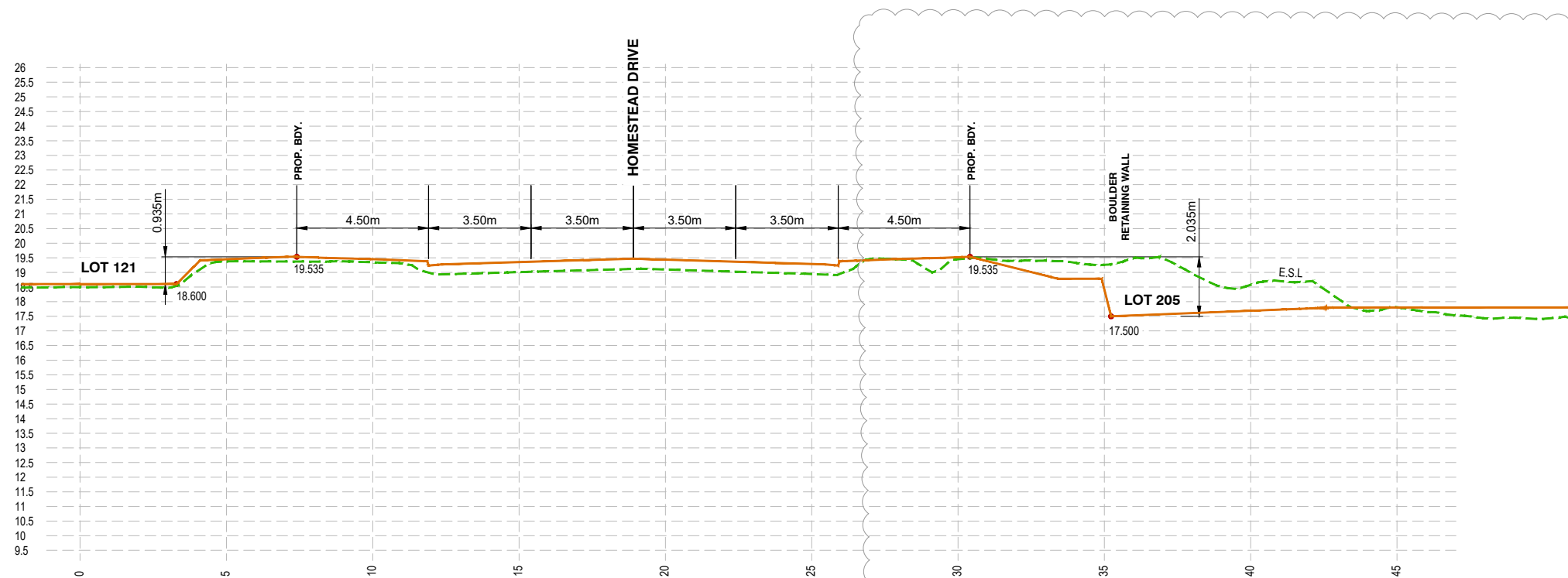


1:100 (FULL SIZE A1)
1:200 (HALF SIZE A3)

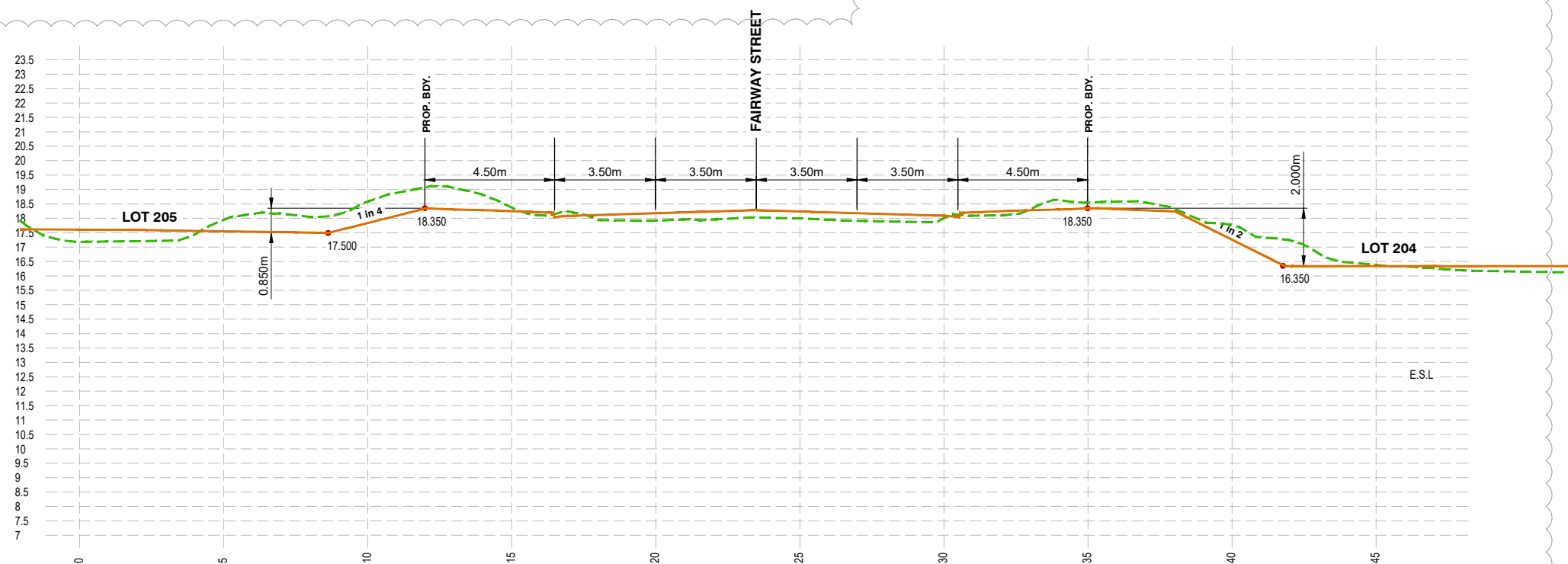
Scale at A1: 1:100

Designed:	IG
Drafted:	IG BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10-11-2021

Drawing No: 5941 ENG BE2 444 Rev. No: C



5
050 CROSS SECTION 5



6
051 CROSS SECTION 6



Project: **VantageYatala**
STAGE 2

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	502
Plan:	SP316137
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI :	-

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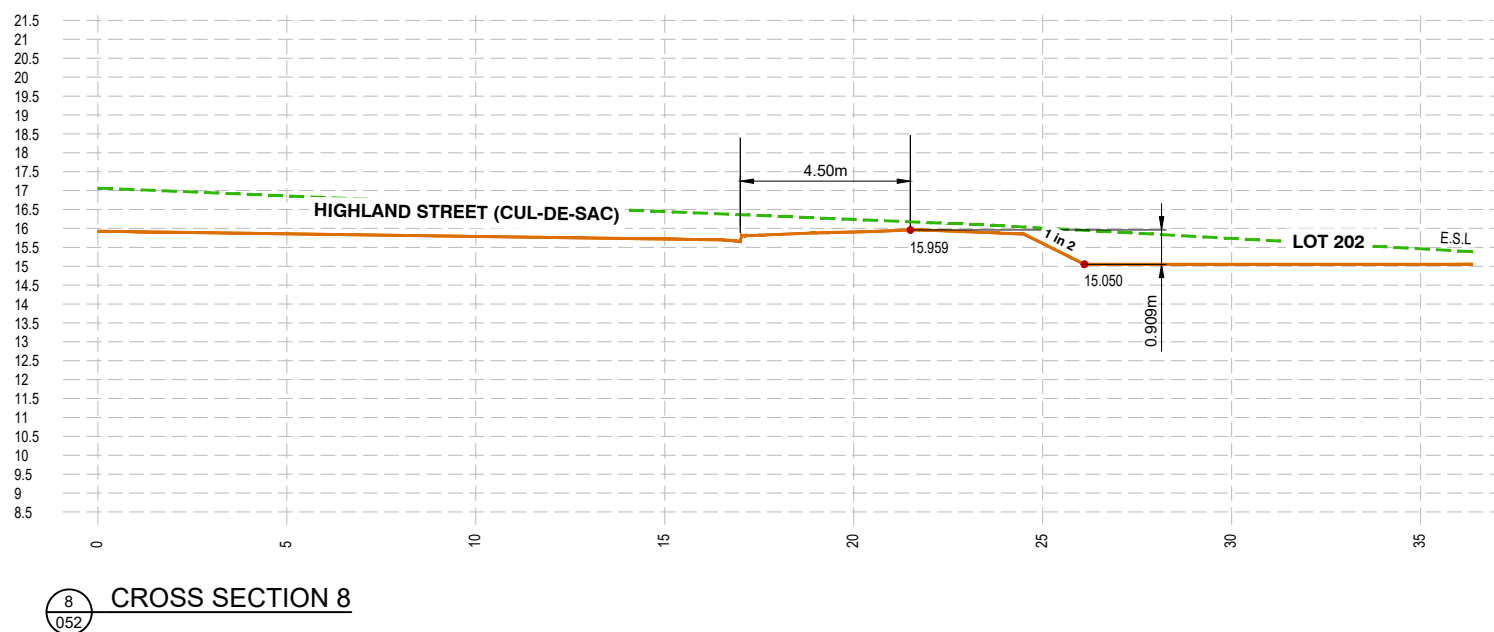
ROAD USER SAFETY CROSS
SECTIONS - SHEET 4 OF 5

G	10-11-2021	LOT 205 RETAINING WALLS ADDED	IG	MO	
B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
A	15-09-2021	ORIGINAL ISSUE	BA	CH	
Issue	Date	Description	DRN	CHI	

Scale at A1:	1:100
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Designed:	IG
Drafted:	IG BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10-11-2021

Drawing No:	Rev. No:
5941 ENG BE2 445	C



ROAD USER SAFETY CROSS SECTIONS – SHEET 4 OF 5



Project: **VantageYatala**
STAGE 2

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

Lot:	502
Plan:	SP316137
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI:	-

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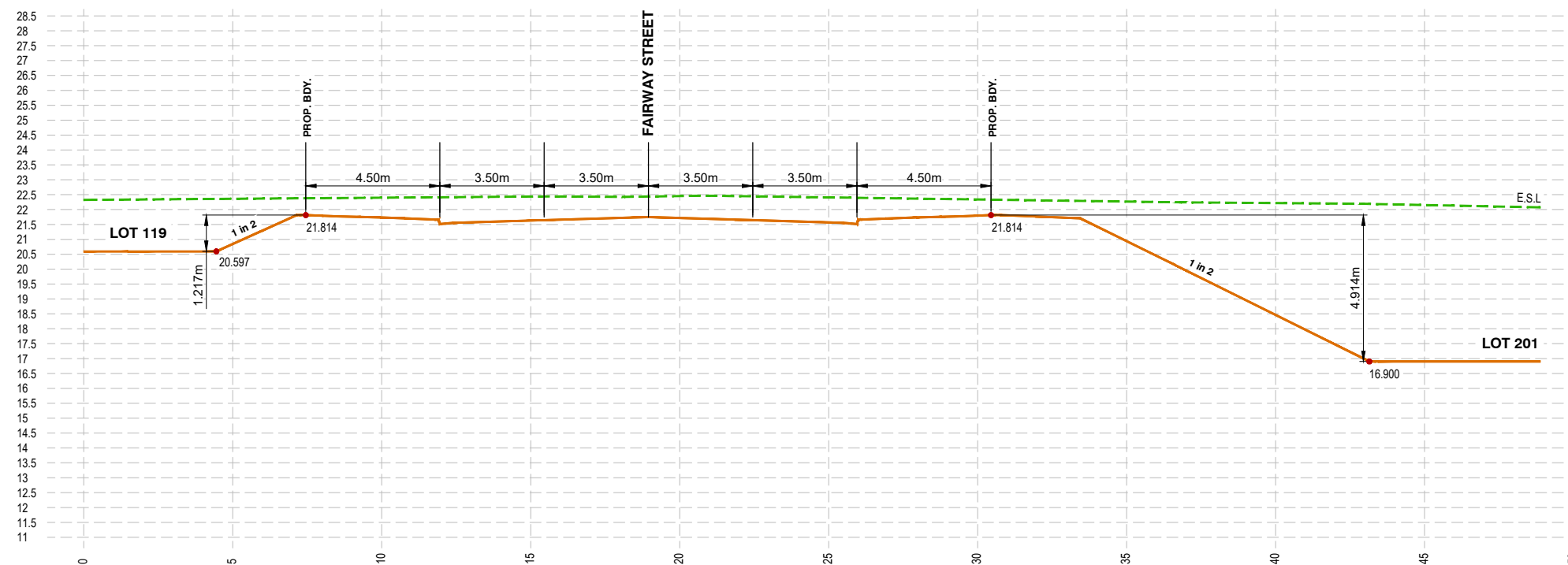
ROAD USER SAFETY CROSS
SECTIONS - SHEET 5 OF 5

B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MD
A	15-02-2021	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CH

Scale at A1:	1:100
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Designed:	IG
Drafted:	IG BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

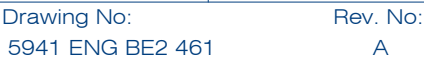
ROAD USER SAFETY CROSS SECTIONS – SHEET 5 OF 5

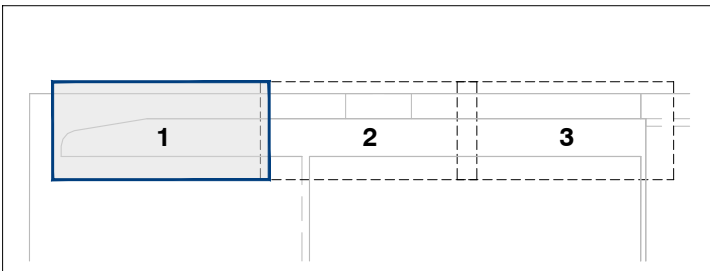


CROSS SECTION 9

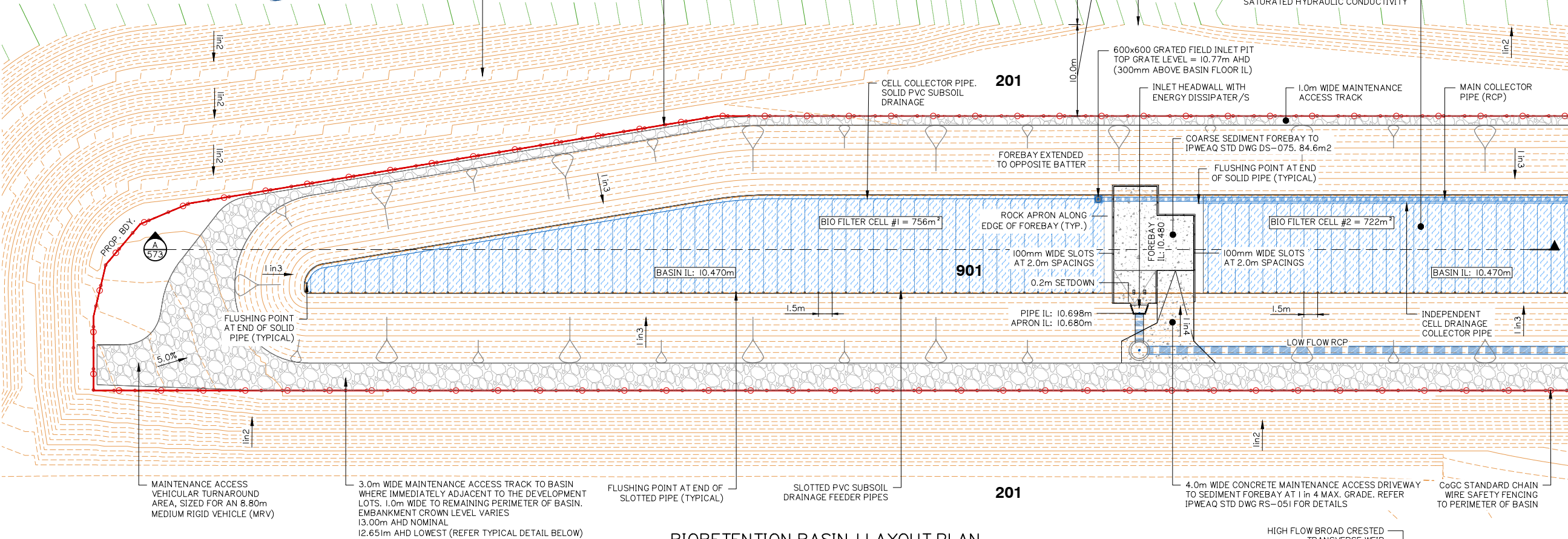
[illegible]

G:\Projects\5941\ENGINEERING\Acad\BE2 CGL\Current\5941 ENG BE2 460.dwg





KEY PLAN
SCALE 1: 3000



BIORETENTION BASIN I LAYOUT PLAN

SCALE 1: 250 (A1)

DETENTION BASIN VOLUME TABLE *

- 14,789m³ TO CROWN (RL. 12.651)
- 8,076m³ TO 1% AEP WSL (RL. 11.946)
- 5,073m³ TO WEIR LEVEL (RL. 11.570)

* DEDUCTING 0.30m EXTENDED DETENTION VOLUME OF 1,446m³

BIO-RETENTION NOTES:

MINIMUM BIO-RETENTION 'PROFILE' IS TO BE 1.10m 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.

* 0.15m OF COURSE SAND. PARTICLE SIZE TYPICALLY 0.5-2.0mm.

* 0.25m OF GRAVEL DRAINAGE. PARTICLE SIZE 5-7mm SCREENING.

BIO RETENTION - COARSE SEDIMENT FOREBAY SIZING GUIDE CALCULATIONS

$$V_s = A_c \times R \times L_o \times F = 11.0722 \text{ m}^3$$

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

$$0.8 = 1 - \left[1 + \frac{0.10}{0.5} \times \frac{11.0722}{2.7508/A_f} \right]^{-0.5} \quad A_f = 330.1 \text{ m}^2$$

$$D_s = \frac{V_s}{A_f} \quad D_s = \frac{11.0722}{330.1} = 0.034 \text{ m}$$

OPTIMIZATION OF MINIMUM FOREBAY SIZE:

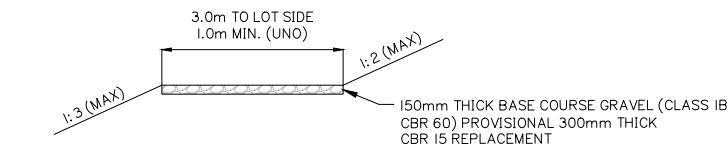
$$D_s = \frac{11.0722 \text{ m}^3}{253.977 \text{ m}^2} = 0.044 \text{ m}$$

CALCULATED FOR 3 FOREBAYS AT 84.659m² ea.

$V_s = 11.0722 \text{ m}^3$ (Workings Above)
 $A_c = 23.067 \text{ ha}$ (Refer Catchment Plans)
UNMITIGATED POST-DEVELOPMENT FLOW
 $Q = 2.7508 \text{ m}^3/\text{s}$ (3 month ARI)
 $V_s = 0.1 \text{ m/s}$ (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)

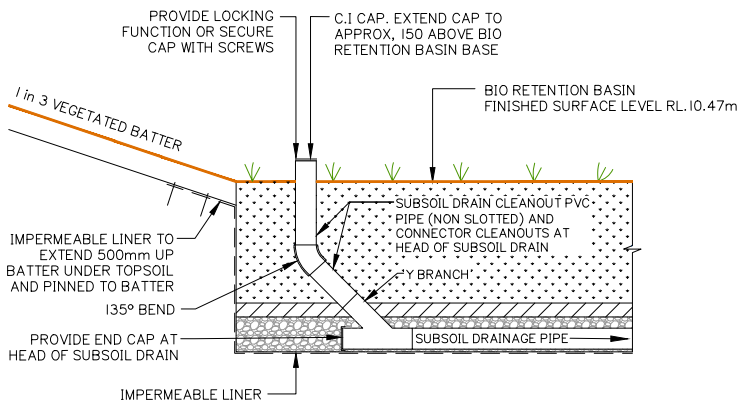
REFER TO BIO RETENTION TECHNICAL DESIGN GUIDELINES FOR FURTHER INFORMATION

AEP (%)	MAX. WATER ELEVATION (m) A.H.D.	MAX. WATER DEPTH (m)
63.2	11.484	1.014
0.5EY	11.627	1.157
20	11.722	1.252
10	11.789	1.319
5	11.844	1.374
2	11.902	1.432
1	11.946	1.476



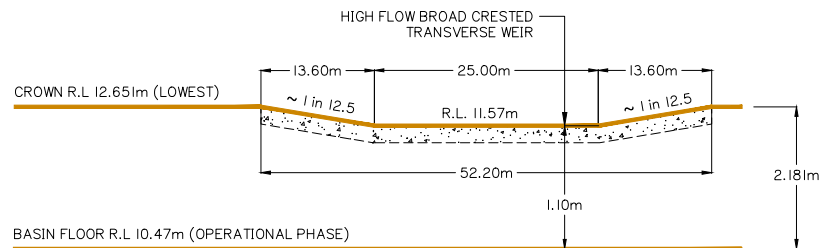
MAINTENANCE ACCESS TRACK - TYPICAL SECTION

N.T.S. UNO DENOTES 'UNLESS NOTED OTHERWISE'



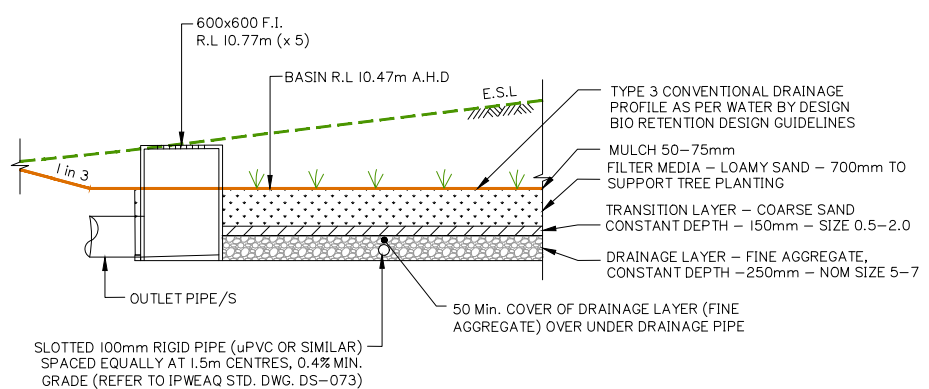
SUBSOIL DRAIN CLEANOUT - IN BASIN

N.T.S.



WEIR / SPILLWAY - TYPICAL ELEVATION

N.T.S.



TYPICAL BIO-RETENTION BASIN DETAIL

N.T.S.

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 502
Plan: SP316137
Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 1 OF 4

D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
ISSUE	Date	Description	BA	CHK

SCALE IN METRES



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

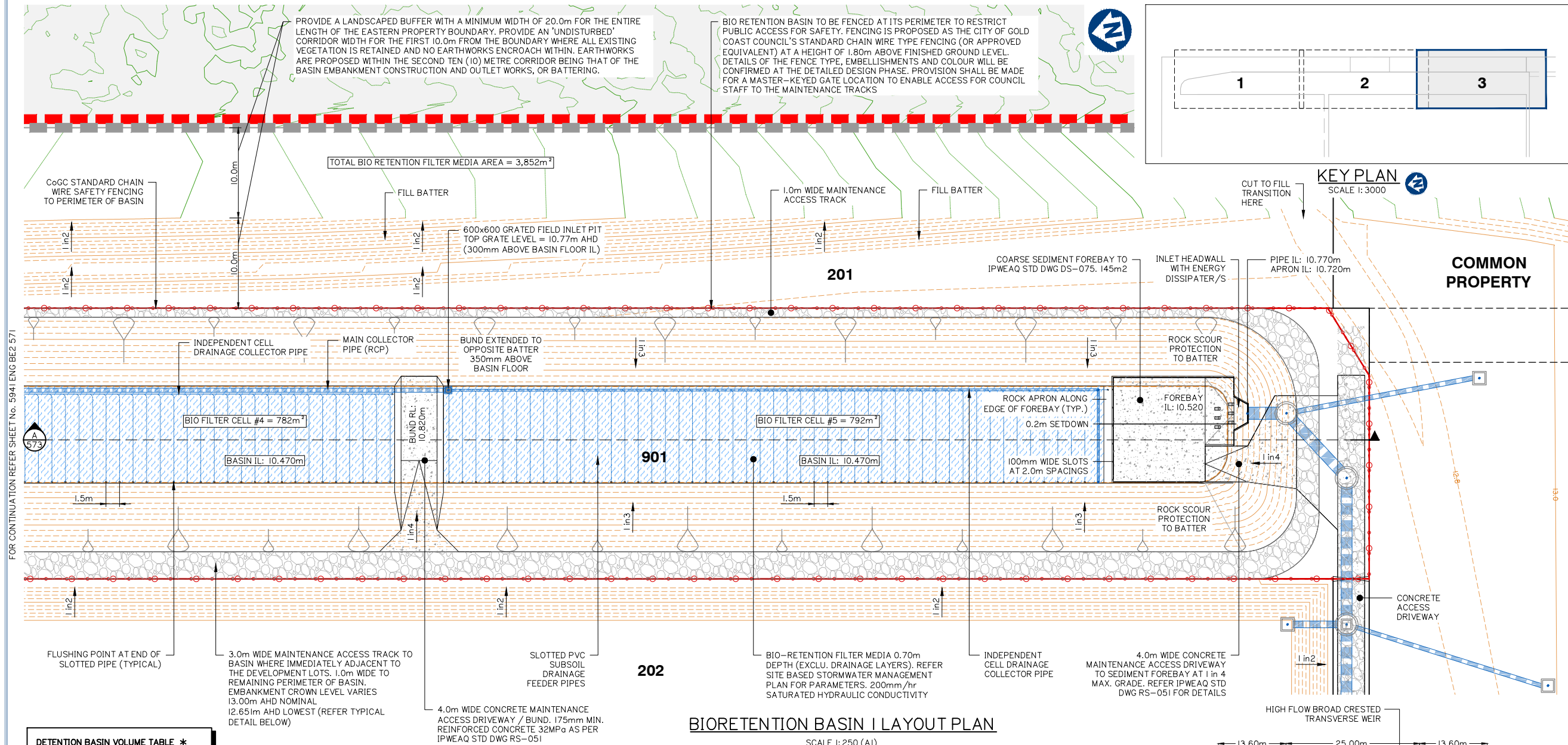
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No:
5941 ENG BE2 570

Rev. No:
D

Client:

D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG	
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-11-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	



DETENTION BASIN VOLUME TABLE *

- 14,789m3 to CROWN (RL.12.651)
- 8,076m3 to 1% AEP WSL (RL.11.946)
- 5,073m3 to WEIR LEVEL (RL.11.570)

* DEDUCTING 0.30m EXTENDED
DETENTION VOLUME OF 1,446m3

BIO-RETENTION NOTES:

MINIMUM BIO-RETENTION
'PROFILE' IS TO BE 1.10m AND IS TO
CONSIST OF THE FOLLOWING:

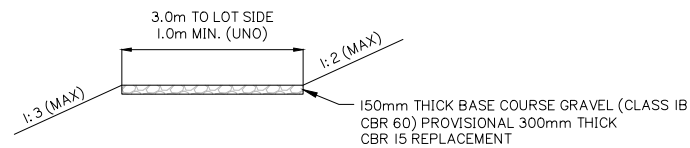
* 0.70 OF SANDY LOAM MATERIAL WITH A HYDRAULIC CONDUCTIVITY OF 200mm/h AND A PARTICLE SIZE OF 0.45–0.50mm.

* 0.15m OF COURSE SAND.
PARTICLE SIZE TYPICALLY
0.5-2.0mm.

* 0.25m OF GRAVEL DRAINAGE.
PARTICLE SIZE 5-7mm
SCREENING.

AEP (%)	MAX. WATER ELEVATION (m) A.H.D	MAX. WATER DEPTH (m)
63.2	11.484	1.014
0.5EY	11.627	1.157
20	11.722	1.252
10	11.789	1.319
5	11.844	1.374
2	11.902	1.432
1	11.946	1.476

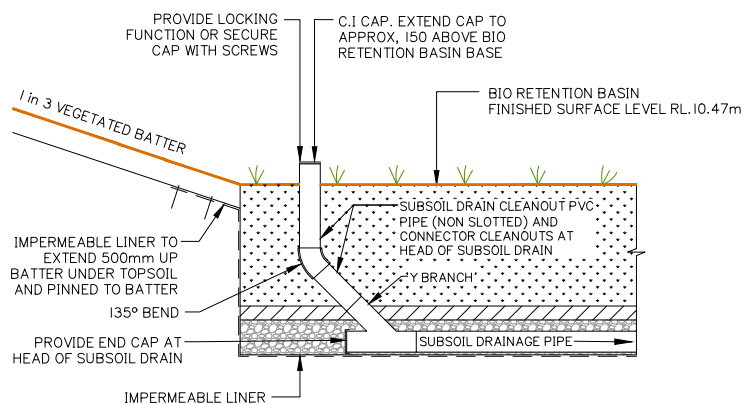
BIO RETENTION – COARSE SEDIMENT FOREBAY SIZING GUIDE CALCULATIONS	
$V_s = A_c \times R \times L_o \times F$	$= 6.495 \text{ m}^3$
$R = 1 - \left[1 + 1.1 \times \frac{V_s}{Q/A_f} \right]^{-n}$	
$0.8 = 1 - \left[1 + \frac{0.10}{0.5 \times 1.6157 \text{ m}^3/\text{s}} \right]^{-0.5}$	$A_f = 193.87 \text{ m}^2$
$D_s = \frac{V_s}{A_f}$	$D_s = \frac{6.495}{193.868} = 0.034 \text{ m}$
OPTIMIZATION OF <u>MINIMUM</u> FOREBAY SIZE:	
$D_s = \frac{6.495 \text{ m}^3}{145.007 \text{ m}^2}$	$= 0.045 \text{ m}$
CALCULATED FOR 1 FOREBAY AT 145.007 m²	
$V_s = 11.0722 \text{ m}^3 \text{ (Workings Above)}$ $A_c = 13.532 \text{ ha (Refer Catchment Plans)}$ $\text{UNMITIGATED POST–DEVELOPMENT FLOW}$ $Q = 1.6157 \text{ m}^3/\text{s} \text{ (3 month ARI)}$ $V_s = 0.1 \text{ m/s (Recommended for Imm Particle)}$ $R = 0.8 \text{ (Recommended 80\% Capture)}$ $L_o = 0.6 \text{ (From Healthy Waterways Guide)}$ $n = 0.5 \text{ (Recommended Turbulence)}$ $F_c = 1.0 \text{ (Frequency of Clean Out / Yr)}$	
REFER TO BIO RETENTION TECHNICAL DESIGN GUIDELINES FOR FURTHER INFORMATION	



MAINTENANCE ACCESS TRACK – TYPICAL SECTION

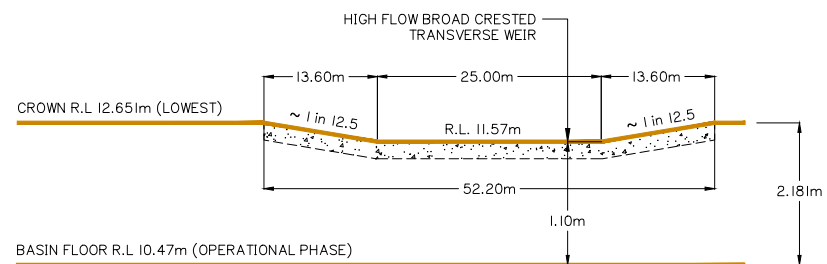
N.T.S

UNO DENOTES 'UNLESS NOTED OTHERWISE'



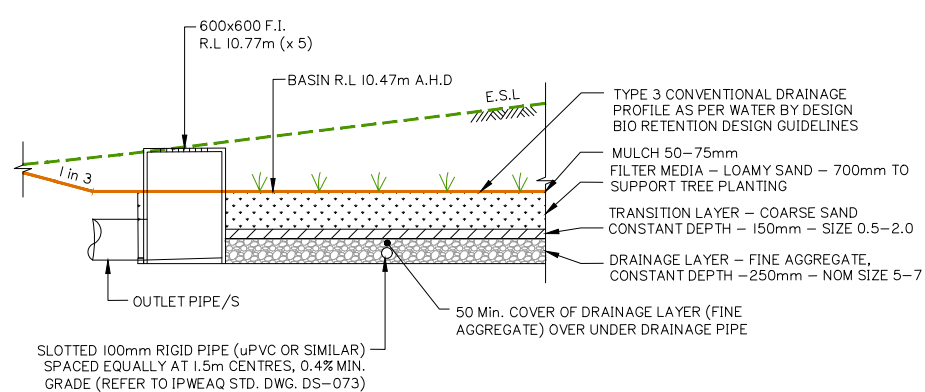
SUBSOIL DRAIN CLEANOUT – IN BASIN

N.T.S



WEIR / SPILLWAY – TYPICAL ELEVATION

N.T.S



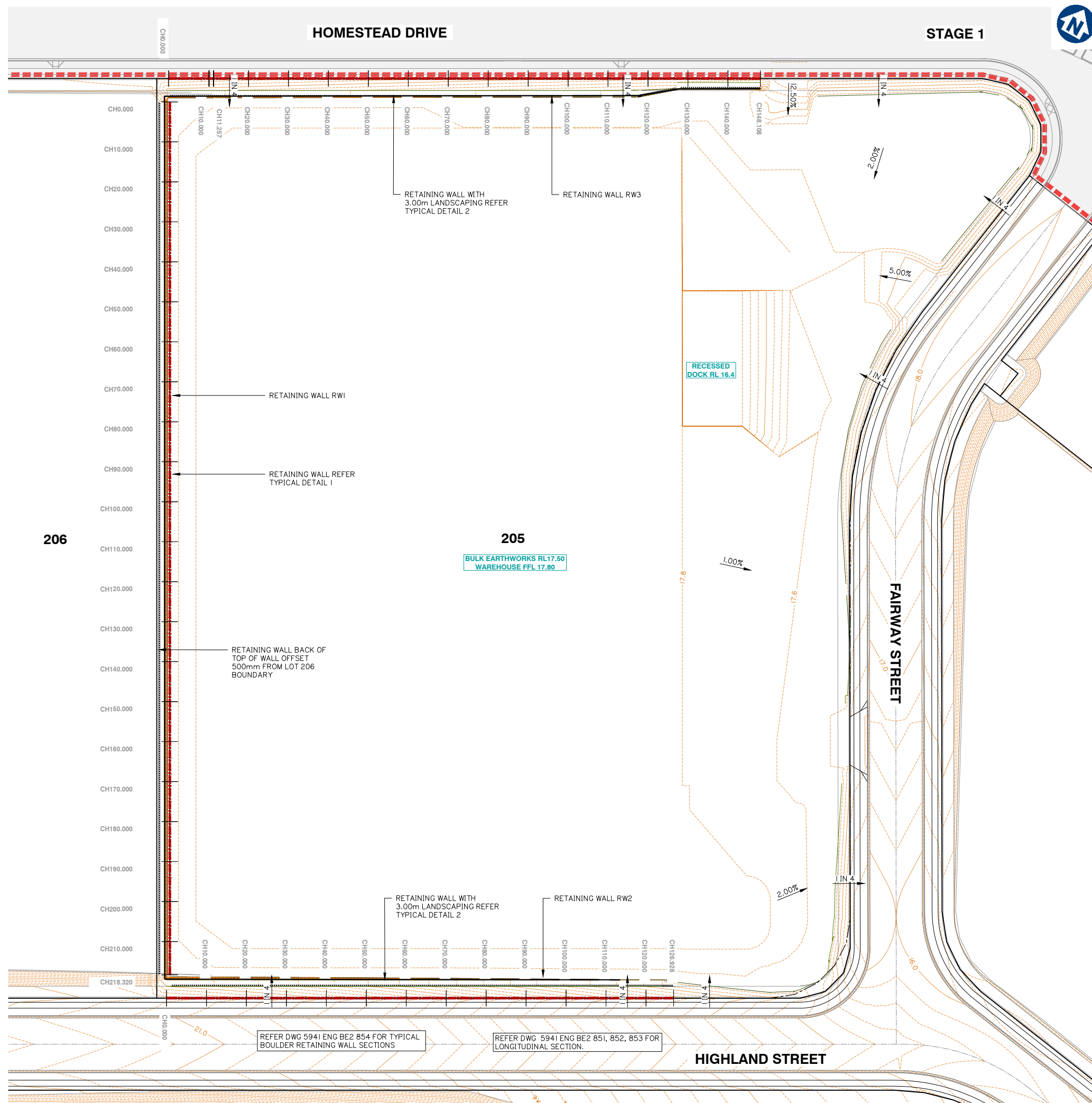
TYPICAL BIO-RETENTION BASIN DETAIL

N.T.S

RETAINING WALL 1					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	2464.155	6664.200	17.500	151°00'47.00"
	10.000	2469.001	6655.453	17.500	151°00'47.00"
	20.000	2473.847	6646.705	17.500	151°00'47.00"
	30.000	2478.693	6637.958	17.500	151°00'47.00"
	40.000	2483.539	6629.211	17.500	151°00'47.00"
	50.000	2488.385	6620.463	17.500	151°00'47.00"
	60.000	2493.231	6611.716	17.500	151°00'47.00"
	70.000	2498.077	6602.969	17.500	151°00'47.00"
	80.000	2502.923	6594.221	17.500	151°00'47.00"
	90.000	2507.769	6585.474	17.500	151°00'47.00"
	100.000	2512.616	6576.727	17.500	151°00'47.00"
	110.000	2517.462	6567.980	17.500	151°00'47.00"
	120.000	2522.308	6559.232	17.500	151°00'47.00"
	130.000	2527.154	6550.485	17.500	151°00'47.00"
	140.000	2532.000	6541.738	17.500	151°00'47.00"
	150.000	2536.846	6532.990	17.500	151°00'47.00"
	160.000	2541.692	6524.243	17.500	151°00'47.00"
	170.000	2546.538	6515.496	17.500	151°00'47.00"
	180.000	2551.384	6506.748	17.500	151°00'47.00"
	190.000	2556.231	6498.001	17.500	151°00'47.00"
	200.000	2561.077	6489.254	17.500	151°00'47.00"
	210.000	2565.923	6480.507	17.500	151°00'47.00"
IP 2	218.320	2569.955	6473.229	17.500	151°00'47.00"

RETAINING WALL 2					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	2572.080	6467.717	21.735	61°00'47.00"
	10.000	2580.827	6472.563	21.581	61°00'47.00"
	20.000	2589.574	6477.409	21.407	61°00'47.00"
	30.000	2598.321	6482.255	21.212	61°00'47.00"
	40.000	2607.069	6487.101	20.997	61°00'47.00"
	50.000	2615.816	6491.948	20.761	61°00'47.00"
	60.000	2624.563	6496.794	20.504	61°00'47.00"
	70.000	2633.311	6501.640	20.227	61°00'47.00"
	80.000	2642.058	6506.486	19.931	61°00'47.00"
	90.000	2650.805	6511.332	19.631	61°00'47.00"
	100.000	2659.553	6516.178	19.331	61°00'47.00"
	110.000	2668.300	6521.024	19.031	61°00'47.00"
	120.000	2677.047	6525.870	18.731	61°00'47.00"
IP 2	126.928	2683.108	6529.228	18.523	61°00'47.00"

RETAINING WALL 3					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	2461.057	6669.171	19.640	61°00'47.00"
	10.000	2469.804	6674.018	19.576	61°00'47.00"
IP 2	10.257	2470.029	6674.142	19.575	
IP 3	10.257	2470.029	6674.142	19.575	
IP 4	10.257	2470.029	6674.142	19.575	
IP 5	10.257	2470.029	6674.142	19.575	
IP 6	11.257	2470.904	6674.627	19.568	
IP 7	11.257	2470.904	6674.627	19.568	
	20.000	2478.552	6678.864	19.513	61°00'47.00"
	30.000	2487.299	6683.710	19.449	61°00'47.00"
	40.000	2496.046	6688.556	19.385	61°00'47.00"
	50.000	2504.793	6693.402	19.321	61°00'47.00"
	60.000	2513.541	6698.248	19.257	61°00'47.00"
	70.000	2522.288	6703.094	19.194	61°00'47.00"
	80.000	2531.035	6707.940	19.130	61°00'47.00"
	90.000	2539.783	6712.786	19.066	61°00'47.00"
	100.000	2548.530	6717.633	19.002	61°00'47.00"
	110.000	2557.277	6722.479	18.938	61°00'47.00"
	120.000	2566.025	6727.325	18.875	61°00'47.00"
	130.000	2574.772	6732.171	18.811	61°00'47.00"
	140.000	2583.519	6737.017	18.747	61°00'47.00"
IP 8	148.108	2590.611	6740.946	18.695	61°00'47.00"



[illegible]

TOP DESIGN SURFACE LEVEL	19.031	18.731	18.523
TOP OF WALL DESIGN LEVELS	18.281	17.981	17.773
HEIGHT OF FACE OF RETAINING WALL	0.781	0.481	0.273
BOTTOM OF WALL DESIGN LEVELS	17.500	17.500	17.500
EXISTING SURFACE LEVEL	19.031	18.731	18.523
CONTROL LINE CHAINAGES	110.000	120.000	126.928

VERT 1:50

A1 SCALE: HOR 1:200
VERT 1:50

FACE AREA: 259m2



Project:

VantageYatala

STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

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

ISSUED FOR TENDER

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

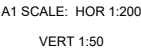
DRAWING TITLE
LOT 205 BOULDER RETAINING
WALL LONGITUDINAL
SECTION RW2

A	10-02-2022	ISSUED FOR APPROVAL	DV	MG
Issue	27-01-2022	ISSUED FOR TENDER	DV	MG
	Date	Description	DRN	CHK

Scale at A1: AS NOTED

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10-02-2022

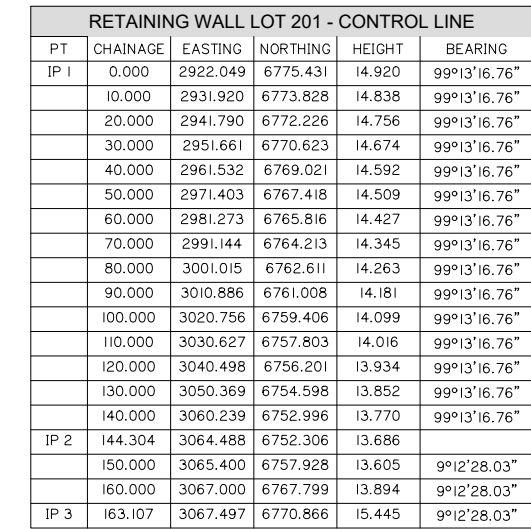
Drawing No:	Rev. No:
5941 ENG BE2 850	A



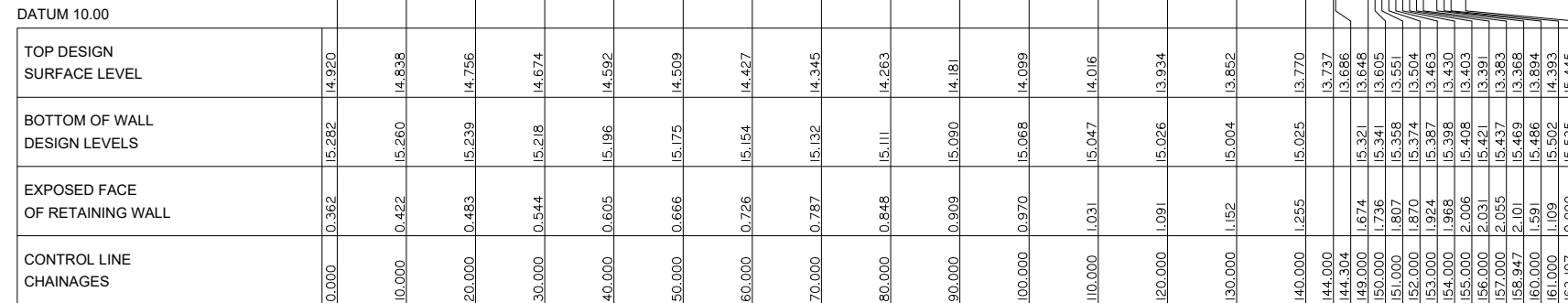
A	10-02-2022		ISSUED FOR APPROVAL	DV	MG
Issue	Date		ISSUED FOR TENDER	DRN	CH
			Description		



Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10-02-2022



RETAINING WALL LOT 201 - CONTROL LINE					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	2922.049	6775.431	14.920	99°13'16.76"
	10.000	2931.920	6773.828	14.838	99°13'16.76"
	20.000	2941.790	6772.226	14.756	99°13'16.76"
	30.000	2951.661	6770.623	14.674	99°13'16.76"
	40.000	2961.532	6769.021	14.592	99°13'16.76"
	50.000	2971.403	6767.418	14.509	99°13'16.76"
	60.000	2981.273	6765.816	14.427	99°13'16.76"
	70.000	2991.144	6764.213	14.345	99°13'16.76"
	80.000	3001.015	6762.611	14.263	99°13'16.76"
	90.000	3010.886	6761.008	14.181	99°13'16.76"
	100.000	3020.756	6759.406	14.099	99°13'16.76"
	110.000	3030.627	6757.803	14.016	99°13'16.76"
120.000	3040.498	6756.201	13.934	99°13'16.76"	
130.000	3050.369	6754.598	13.852	99°13'16.76"	
140.000	3060.239	6752.996	13.770	99°13'16.76"	
IP 2	144.304	3064.488	6752.306	13.686	
	150.000	3065.400	6757.928	13.605	9°12'28.03"
	160.000	3067.000	6767.799	13.894	9°12'28.03"
IP 3	163.107	3067.497	6770.866	15.445	9°12'28.03"



LOT 201 BOULDER RETAINING WALL LAYOUT PLAN AND DETAILS