

DOCUMENT TRANSMITTAL SCHEDULE

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Attention: FRASERS PROPERTY (AUSTRALIA) PTY. LTD.

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76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

PROJECT:

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

Job No: 5941

The documents listed below are issued for your use as indicated in the "Issued for" section.

All revisions supersede any revision of the same document.

DATE OF ISSUE	Day	20	15	31	06	31	24	27	10			
	Month	11	02	01	05	08	09	01	01			
	Year	20	21	21	21	21	21	22	22			

Distribution:

Attention	Issued To											
City of Gold Coast Council	Development Assessment	1xPDF	1xPDF	1xPDF					1xPDF			
FRASERS PROPERTY (AUSTRALIA) PTY. LTD	Commercial and Industrial				1xPDF	DWG	1xPDF 1xCAD	1xCAD				

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Issued for:

A	A	A	T	I	T	I	A				
P	- Preliminary			C	- Construction			T	-Tender		
A	- Approval			I	- Information			O	- Other		

Issued Media

EP	EP	EP	EP	ED	EP/ED	ED	EP				
D	- Disk			P	Print			CP	-CAD&PDF		
ED	- DWG/DXF			EP	- PDF						

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

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5941 ENG BE2 155	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11	A	A	B	B	B	C	C	C			
5941 ENG BE2 156	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11	A	A	A	A	A	B	B	B			
5941 ENG BE2 158	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11	A	A	B	B	B	C	C	C			
5941 ENG BE2 159	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11	A	A	A	A	A	B	B	B			
5941 ENG BE2 160	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11	A	A	A	A	A	B	B	B			
5941 ENG BE2 161	FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11	A	A	A	A	A	B	B	B			
5941 ENG BE2 163	BULK EARTHWORKS ROAD TYPICAL SECTIONS	A	B	B	B	B	C	C	C			
5941 ENG BE2 400	CONTROL LINE LAYOUT PLAN	A	B	B	B	B	C	C	D			
5941 ENG BE2 401	CONTROL LINE SETOUT TABLES SHEET 1 OF 2	A	A	A	A	A	B	B	B			
5941 ENG BE2 402	CONTROL LINE SETOUT TABLES SHEET 2 OF 2	A	A	A	A	A	B	B	B			
5941 ENG BE2 410	ROAD 01 LONGITUDINAL SECTION SHEET 1 OF 2	A	A	A	A	A	B	B	B			
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5942 ENG BE2 421	BOULDER RETAINING WALL CONTROL LINE LAYOUT PLAN							A	B			
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5942 ENG BE2 424	BOULDER RETAINING WALL LONGITUDINAL SECTION RW2							A	B			
5942 ENG BE2 425	BOULDER RETAINING WALL LONGITUDINAL SECTION RW3							A	B			
5942 ENG BE2 426	BOULDER WALL SETOUT TABLES							A	B			
5941 ENG BE2 430	ROAD 01 CROSS SECTIONS SHEET 1 OF 8	A	A	A	A	A	B	B	B			
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5941 ENG BE2 440	FAIRWAY STREET CROSS SECTIONS SHEET 3 OF 4	A	A	A	A	A	B	B	B			
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5941 ENG BE2 442	ROAD USER SAFETY CROSS SECTIONS SHEET 1 OF 5	-	A	A	A	A	B	B	B			
5941 ENG BE2 443	ROAD USER SAFETY CROSS SECTIONS SHEET 2 OF 5	-	A	A	A	A	B	B	C			
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5941 ENG BE2 572	OPERATIONAL PHASE BIORETENTION BASIN SHEET 3 OF 4	A	B	C	C	C	D	D	D			
5941 ENG BE2 573	OPERATIONAL PHASE BIORETENTION BASIN SHEET 4 OF 4	A	A	B	B	B	C	C	C			

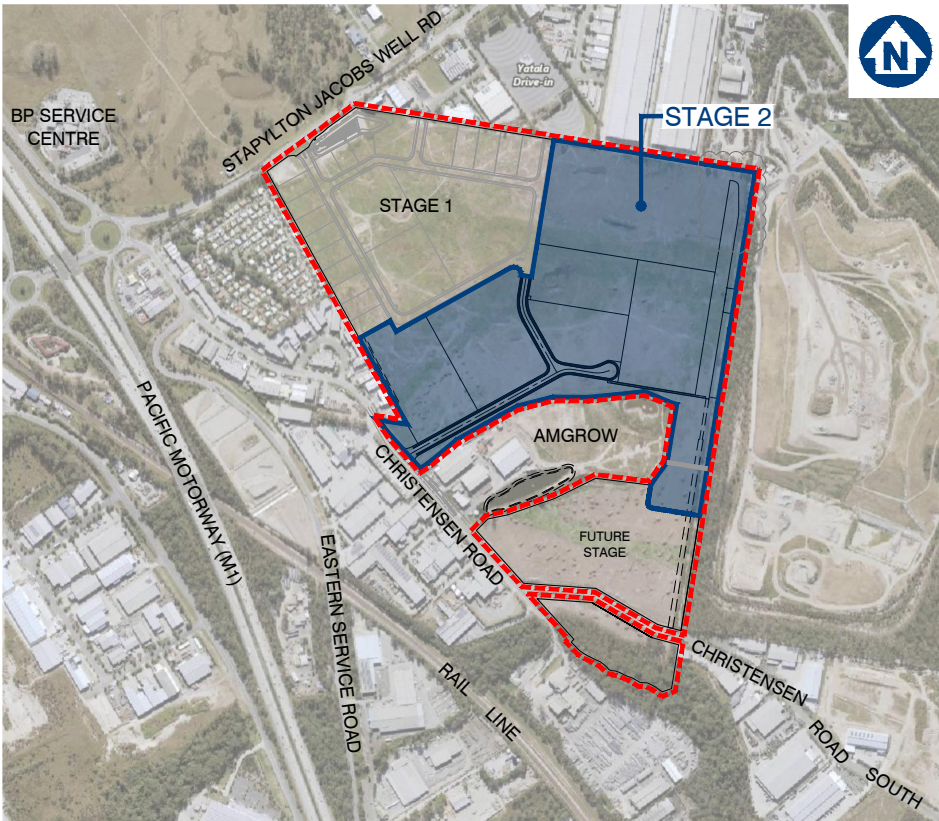
OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL VANTAGE YATALA - STAGE 2



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594I ENG BE2 031	D	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT SHEET 3 OF 4
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594I ENG BE2 034	B	CONSTRUCTION PHASE SEDIMENT BASIN TYPICAL SECTIONS
594I ENG BE2 035	B	SEDIMENT AND EROSION TYPICAL DETAILS
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594I ENG BE2 101	D	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 2 OF 7
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594I ENG BE2 103	C	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 4 OF 7
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594I ENG BE2 410	B	ROAD 01 LONGITUDINAL SECTION SHEET 1 OF 2
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594I ENG BE2 412	B	FAIRWAY STREET LONGITUDINAL SECTION
594I ENG BE2 414	B	AMGROW DAM OVERFLOW DRAIN LONGITUDINAL SECTION
594I ENG BE2 421	B	BOULDER RETAINING WALL CONTROL LINE LAYOUT PLAN
594I ENG BE2 422	B	BOULDER RETAINING WALL TYPICAL DETAILS
594I ENG BE2 423	B	BOULDER RETAINING WALL LONGITUDINAL SECTION RW1
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594I ENG BE2 437	B	ROAD 01 CROSS SECTIONS SHEET 8 OF 8
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594I ENG BE2 440	B	FAIRWAY STREET CROSS SECTIONS SHEET 3 OF 4
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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
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594I ENG BE2 570	D	OPERATIONAL PHASE BIORETENTION BASIN SHEET 1 OF 4
594I ENG BE2 571	D	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



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 E

DECEMBER 2021

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. SPILLWAY ROCK: HARD, ANGULAR, DURABLE, WEATHER RESISTANT AND EVENLY GRADED ROCK WITH 50% BY WEIGHT LARGER THAN THE SPECIFIED NOMINAL (D50) ROCK SIZE. LARGE ROCK SHOULD DOMINATE, WITH SUFFICIENT SMALL ROCK TO FILL THE VOIDS BETWEEN LARGER ROCK. THE DIAMETER OF THE LARGEST ROCK SHOULD BE NO LARGER THAN 1.5 TIMES THE NOMINAL ROCK SIZE. THE SPECIFIC GRAVITY SHOULD BE AT LEAST 2.5.
7. GEOTEXTILE FABRIC: HEAVY DUTY, NEEDLE-PUNCHED, NON-WOVEN CLOTH, MINIMUM "BIDIM" A24 OR EQUIVALENT.

CONSTRUCTION

3. 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.

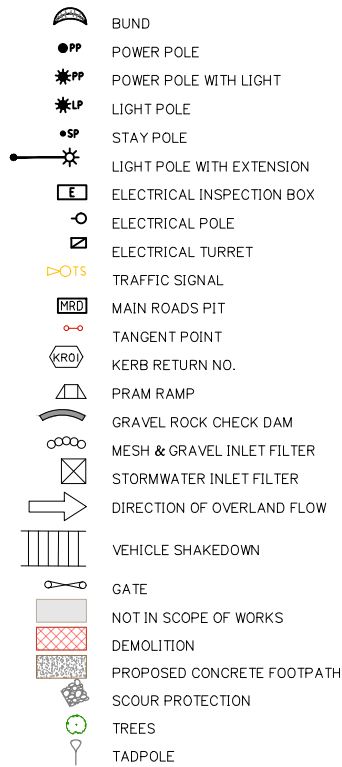
SPILLWAY CONSTRUCTION

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
	BRIFEN WIRE SAFETY BARRIER
	GUARDRAIL (STANDARD)
	RETAINING WALL (PILED)
	RETAINING WALL (WITH FOOTINGS)
	RETAINING WALL
	ROCKBLOCK RETAINING WALL
	TOP OF BATTER / BERM
	NOISE WALL
	EDGE OF VEGETATION
	PROPERTY LINE
	PROPERTY LINE WITH FENCE
	PROPOSED KERB, FOOTPATH
	CONTROL LINE / CENTER OF ROAD
	RAILWAY (MAJOR)
	RAILWAY (MINOR)
	EXISTING PROPERTY LINE
	EXISTING PROPERTY LINE WITH FENCE
	EXISTING KERB, FOOTPATH
	EXISTING EDGE OF BITUMEN
	EXISTING RAILWAY (MAJOR)
	EXISTING RAILWAY (MINOR)
	LIMIT OF WORKS
	LIMIT OF SITE
	CATCHMENT BOUNDARY
	EXISTING CONTOURS
	DESIGN CONTOURS

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

BK(A)	BARRIER KERB (A)
BK(B)	BARRIER KERB (B)
BK(G)	BARRIER KERB (G)
MK(D)	MOUNTABLE KERB (D)
SMK(C)	SEMI MOUNTABLE KERB (C)
ER(E)	EDGE RESTRAINT (E)
KER(F)	KERB EDGE RESTRAINT (F)
RK&C(H)	ROLL TOP KERB & CHANNEL (H)
BK&C(J)	BARRIER KERB & CHANNEL (J)
ERH	KERB EDGE RESTRAINT (HIGH)
ERL	KERB EDGE RESTRAINT (LOW)
CS(K/L)	CHANNEL SECTION (K/L)
PMB	PRECAST MOTOR BED
DD	DISH DRAIN
K&G	KERB AND GUTTER
K&T	KERB AND TOE
KO	KERB ONLY
MK	MOUNTABLE KERB
RK	ROLL KERB
—	EXISTING SIGN
—	PROPOSED SIGN
—	PROPOSED ROAD EDGE GUIDE POST
◻ BIN	EXISTING BIN
◻ PB	POST BOX
◻ T	TELEPHONE BOX
•	TELSTRA PIT
• MP	TELSTRA MARKER POST
• WM	WATER METER
• V	WATER VALVE
• F.H	FIRE HYDRANT
◊ AP	WATER TAP
—	WATER HYDRANT
—	WATER TEE
—	WATER REDUCER
—	WATER ENDCAP
—	WATER CONNECTION
—	WATER CROSSING
—	WATER DICL
—	SEWER MANHOLE
—	SEWER RODDING END
—	SEWER BEND
—	SEWER MAINTENANCE SHAFT
—	SEWER "T" END
—	SEWER SLUICE VALVE
—	SEWER PIT
—	SEWER PUMP STATION
—	TEMPORARY SEWER PUMP STATION
—	SEWER / STORMWATER PIT NO/LINE
—	SETOUT POINT
—	OFFSET PIT WITH GRATE
—	IN LINE PIT WITH GRATE
—	JUNCTION PIT
—	LETTERBOX PIT
—	GRATED INLET PIT
—	MANHOLE
—	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



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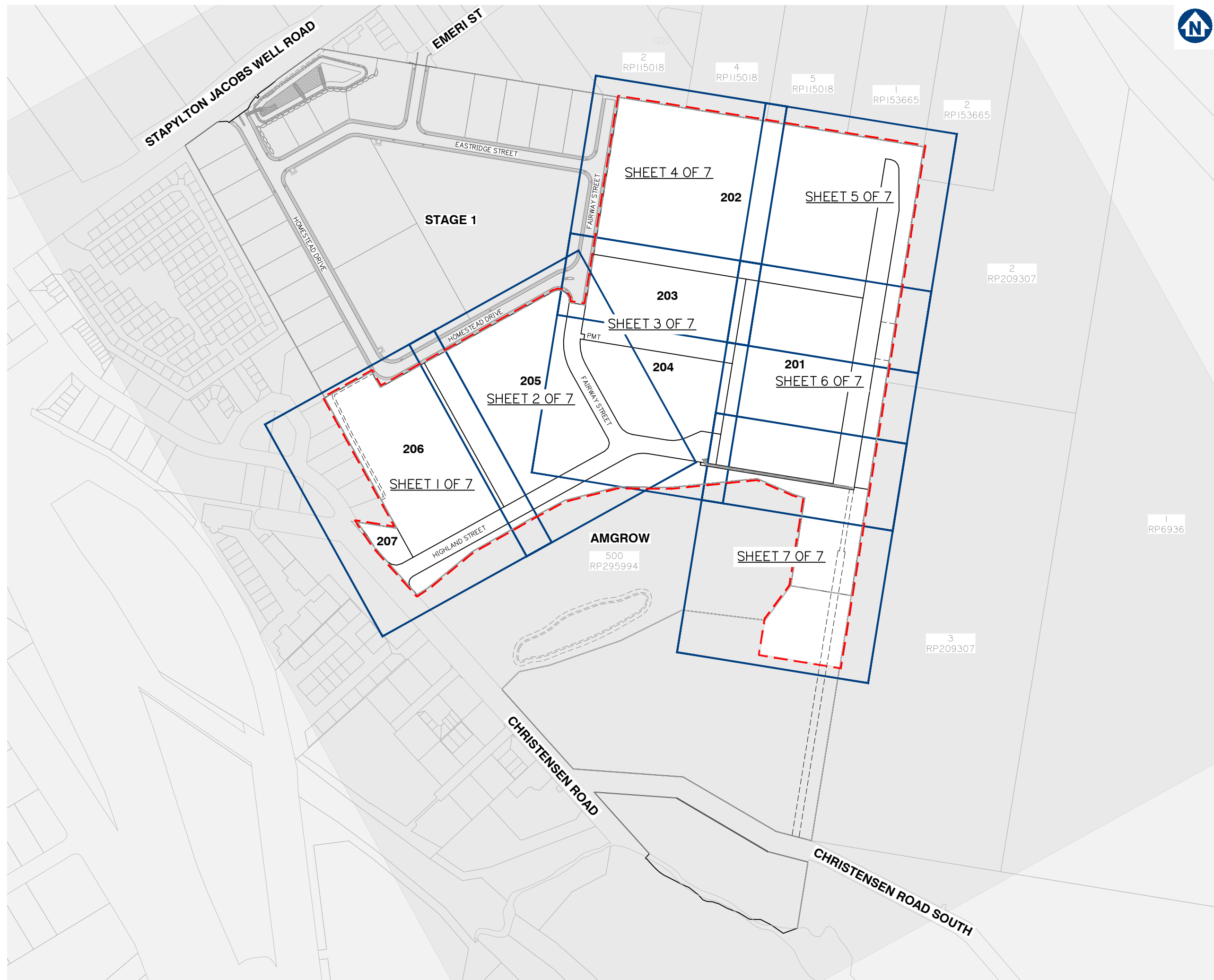
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Level Datum:	AHD
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DRAWING TITLE

KEY PLAN LAYOUT

D	10.11.21	BOUNDARY FOR LOT 205/206 CHANGED	IG	MG	
C	24/09/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG	
B	21/03/21	INFORMATION REQUEST RESPONSE	IG	MG	
A	20/11/20	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



1:2500 (FULL SIZE A1)
1:5000 (HALF SIZE A3)

Scale at A1: 1:2500

Designed:	IG
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Drafted:	BA
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Approved:	MG
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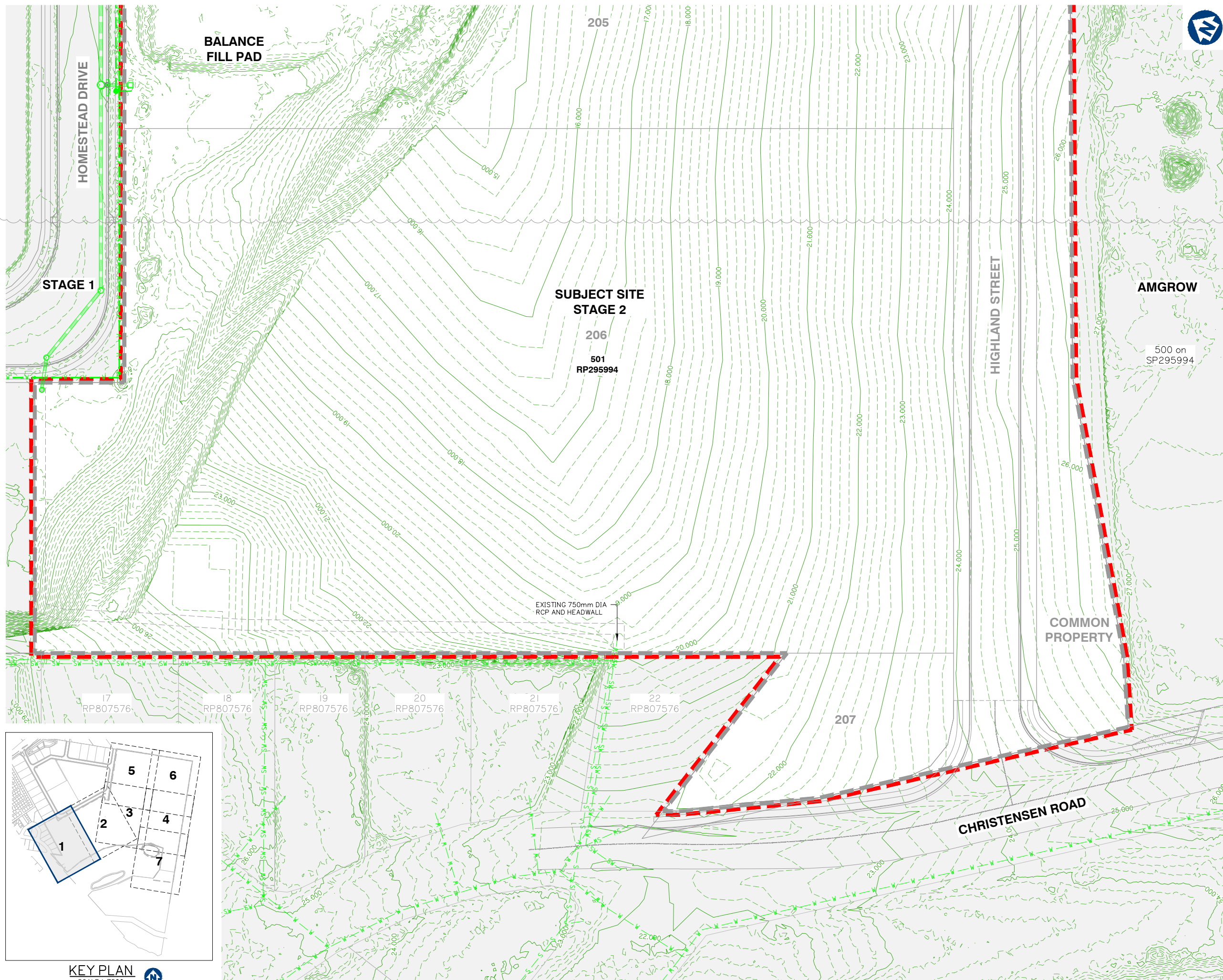
RPEQ:	16939
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Date:	11-11-2021
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 1 OF 7

Issue	Date	Description	IG	MG	BA	MG	DRN	CHK
C	10/11/21	LOT BOUNDARY FOR 205/206 MOVED	IG	MG				
B	24/09/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG				
A	20/11/20	ORIGINAL ISSUE	IG	MG	BA	MG		

SCALE IN METRES



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

Scale at A1: 1:500

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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 2 OF 7

C	10/11/21	LOT BOUNDARY FOR 205/206 MOVED					IG	MG	
B	24/09/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED					IG	MG	
A	20/11/20	ORIGINAL ISSUE					BA	MQ	
ISSUE	Date	Description					DRN	CHK	

SCALE IN METRES

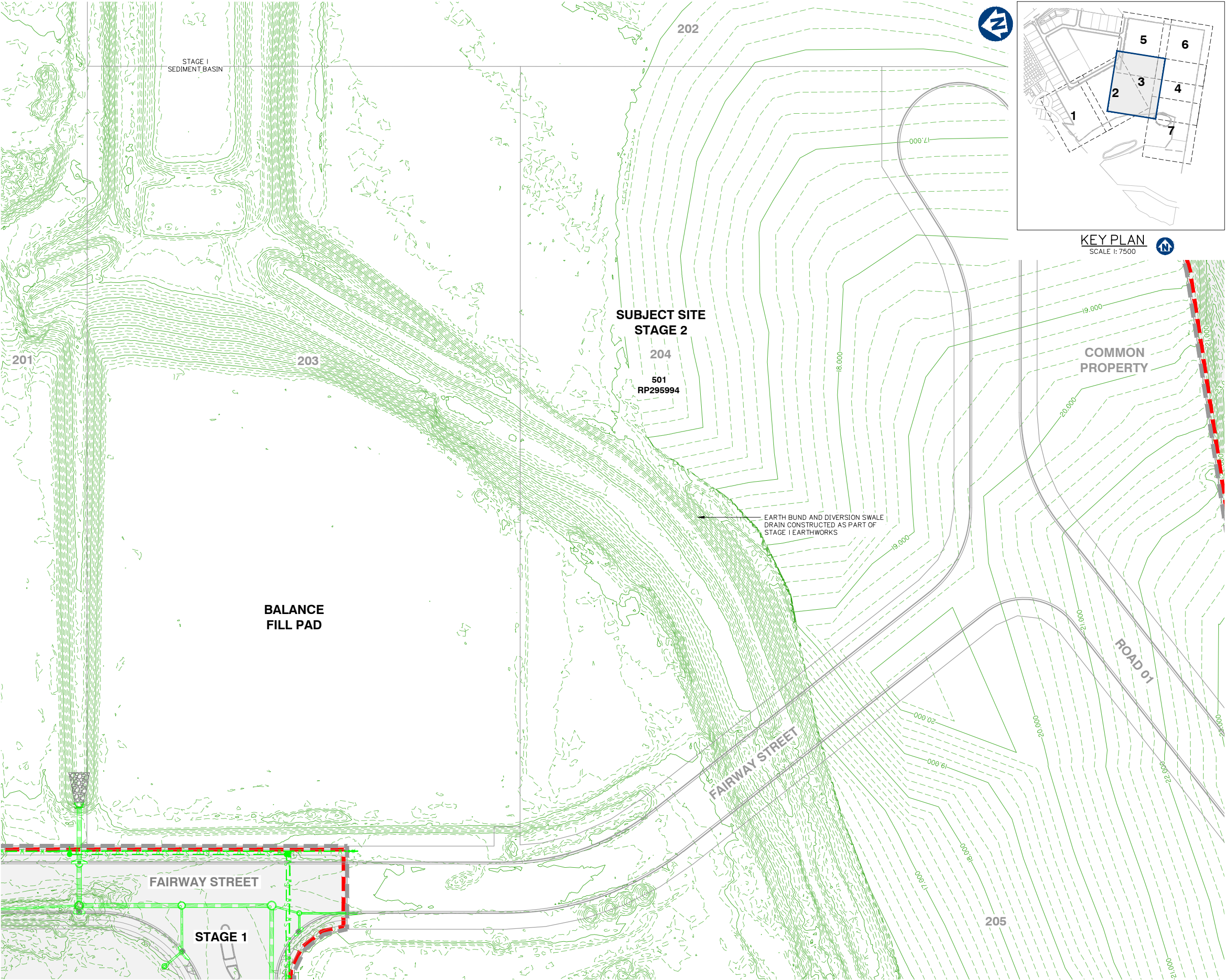


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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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AND FEATURES PLAN
SHEET 3 OF 7

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

SCALE IN METRES



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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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Meridian: -
Contour Interval: -
PSM: -
RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 4 OF 7

B	2409/21	EXTENT OF STAGE 2 EARTHWORKS REDUCED			IG
A	2011/20	ORIGINAL ISSUE			BA
Issue	Date	Description			DBN CH

SCALE IN METRES



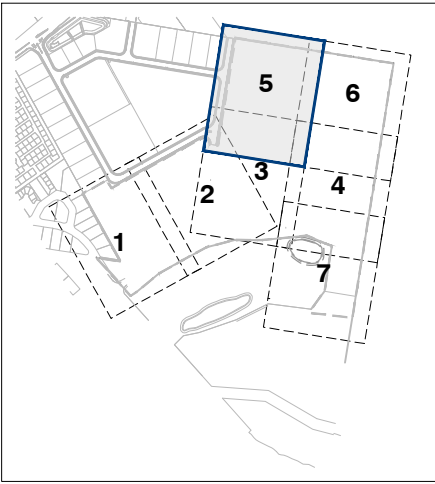
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1:1000 (HALF SIZE A3)

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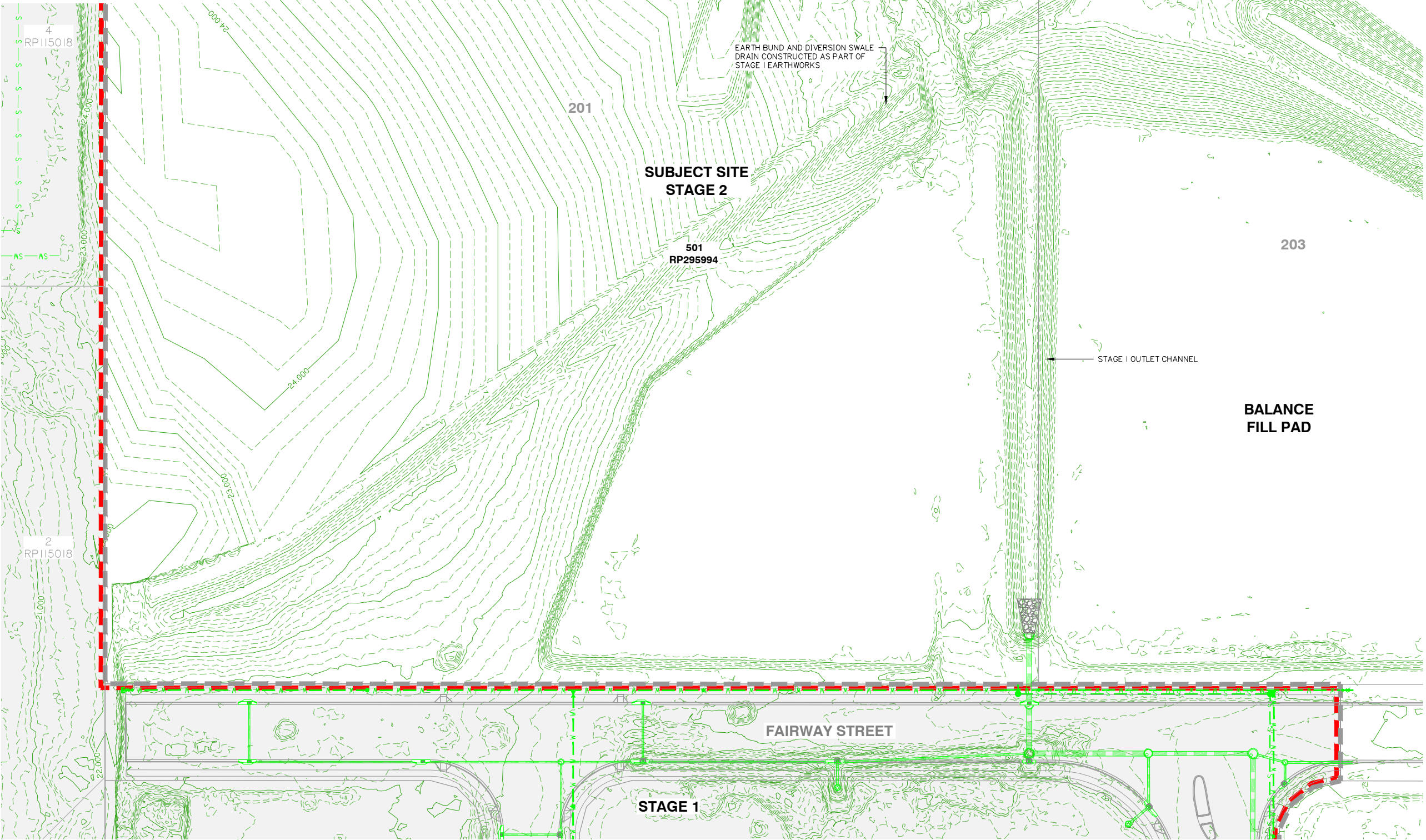
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No:
5941 ENG BE2 013

Rev. No:
B



KEY PLAN
SCALE 1: 7500



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

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

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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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 5 OF 7

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

SCALE IN METRES



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Scale at A1: 1:500

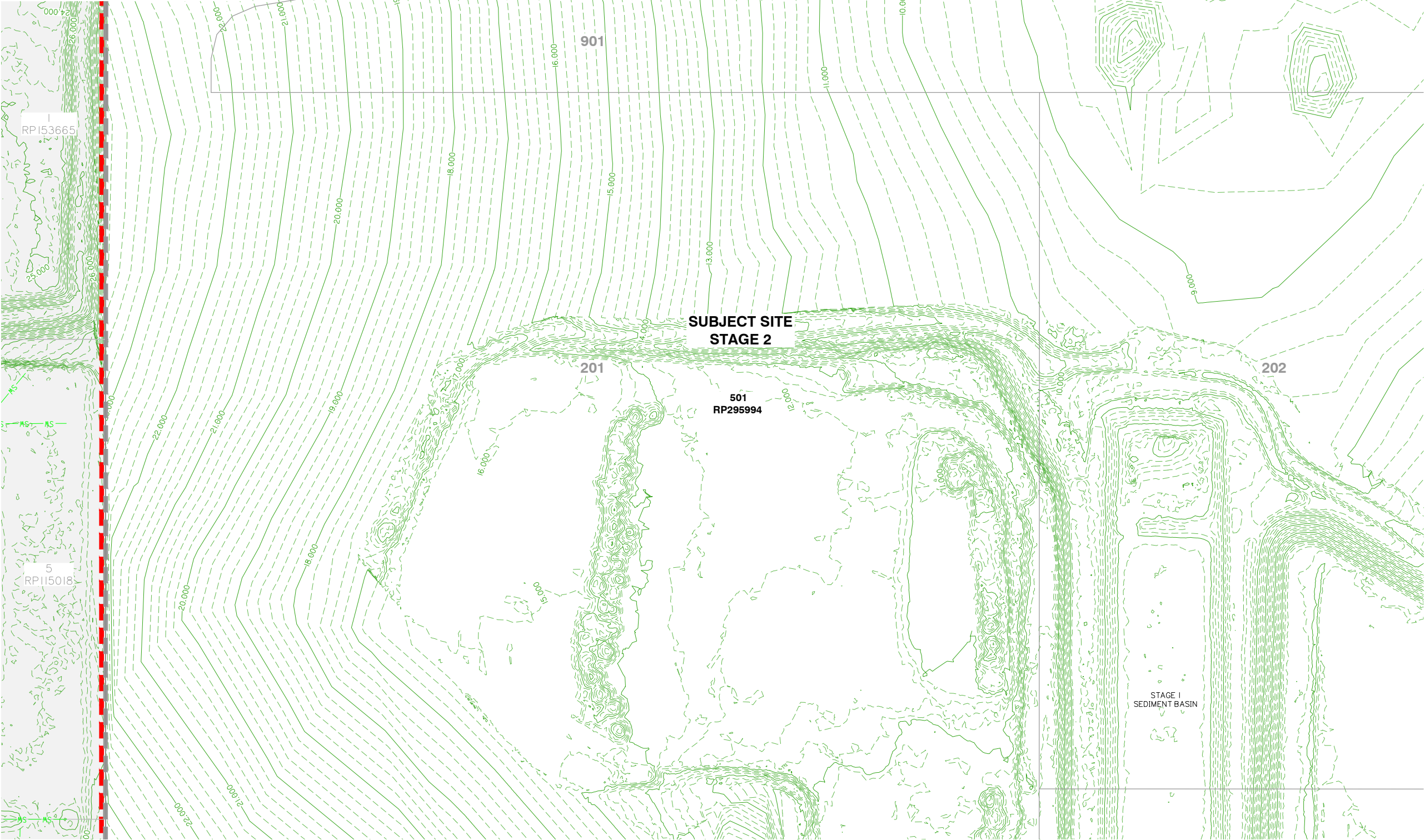
Designed:	IG
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Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

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5941 ENG BE2 014

Rev. No:
B



KEY PLAN
SCALE 1: 7500



FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 014

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 013



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VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 6 OF 7

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



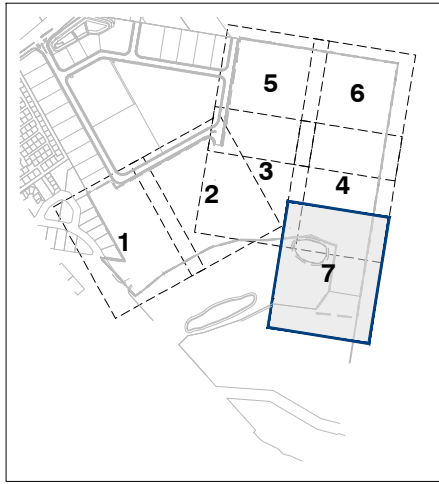
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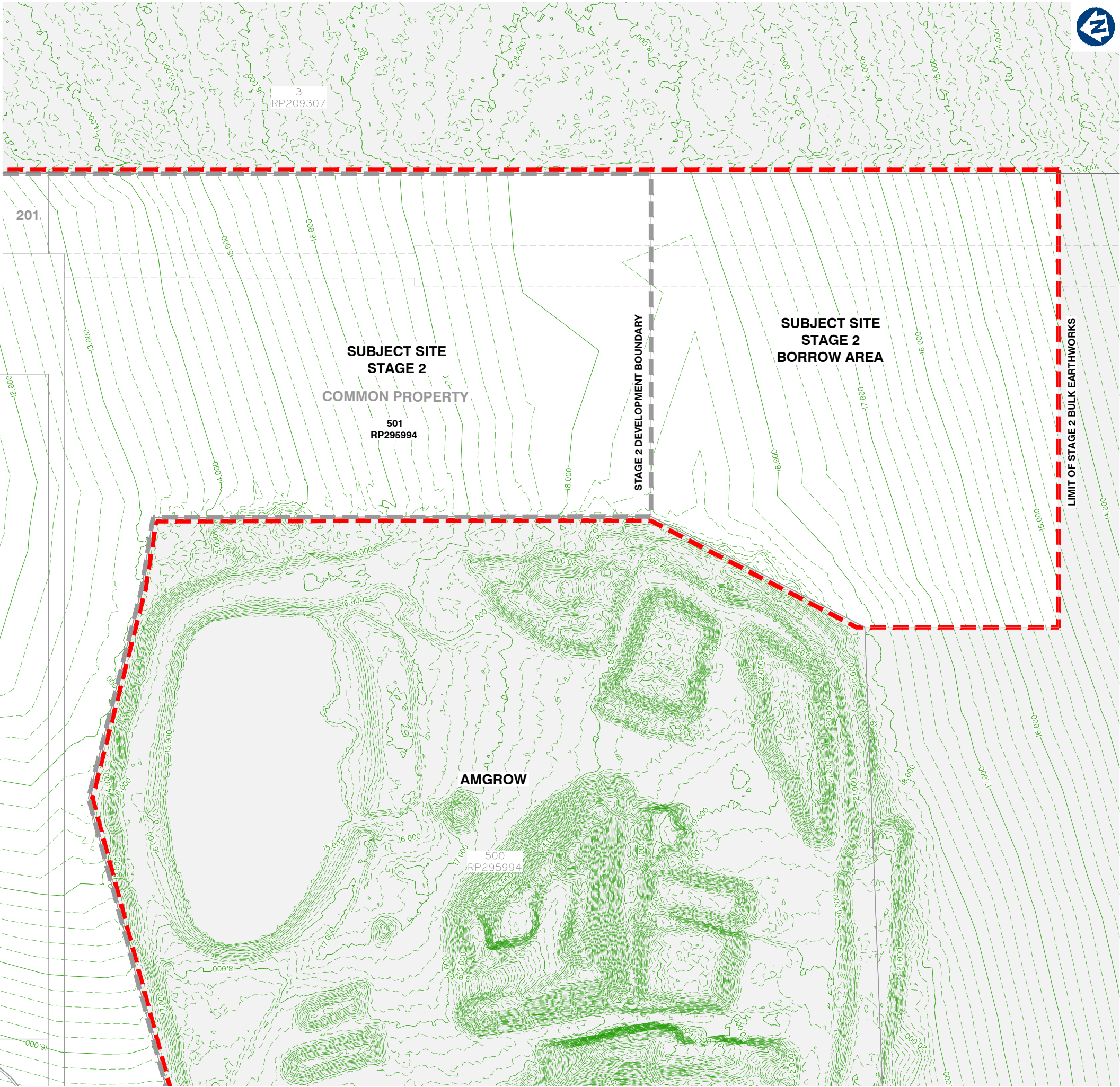
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

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Rev. No:
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KEY PLAN
SCALE 1:7500



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STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
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RPD:

Lot: 501
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Meridian: -
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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



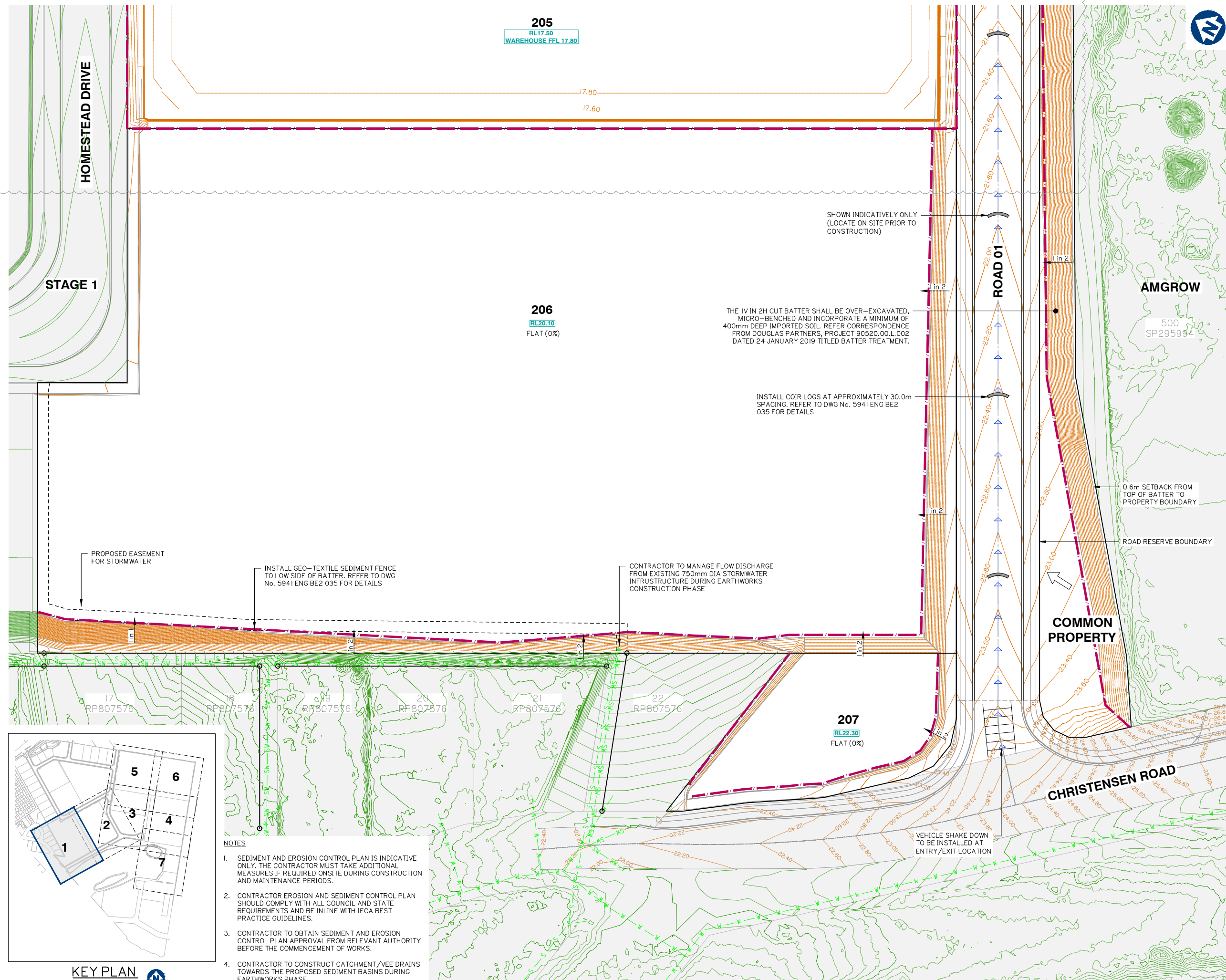
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
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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VantageYatala
STAGE 2

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

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 1 OF 7

D	Date	Description	IG	MG	BA	CHK
D	09-11-2021	LOT 205 BOUNDARY AND EARTHWORKS	dy	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	IG	MG	BA	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:	09-11-2021

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



Project: **VantageYatala**
STAGE 2

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RPD:	
Lot:	501
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D	09-11-2021	LOT 205 BOUNDARY AND EARTHWORKS	IG	MC	
O	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MC	
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MC	
A	20-11-2020	ORIGINAL ISSUE	BA	MC	
Issue	Date	Description	DRN	CH	

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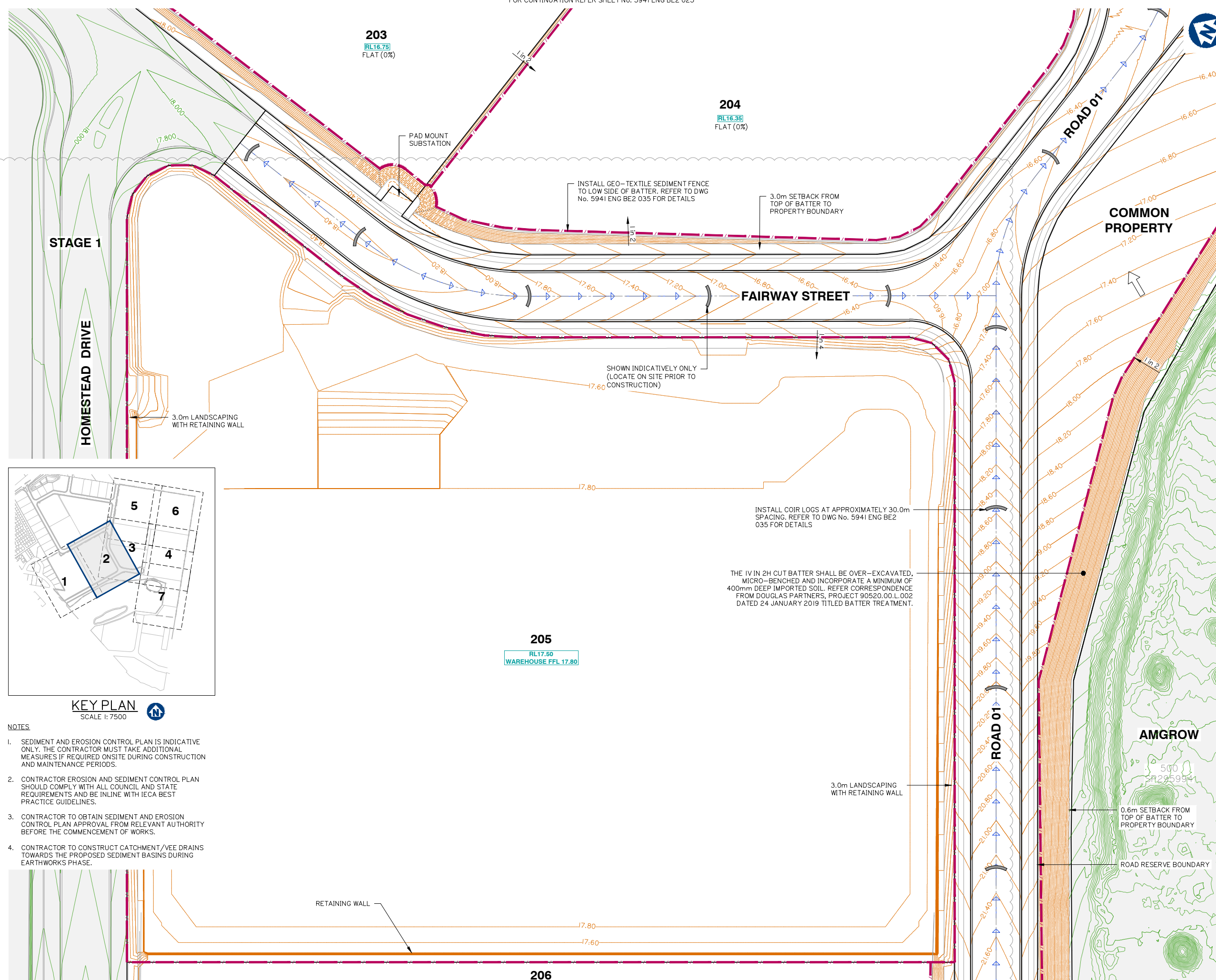
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Drafted:	IG / BA / LAB

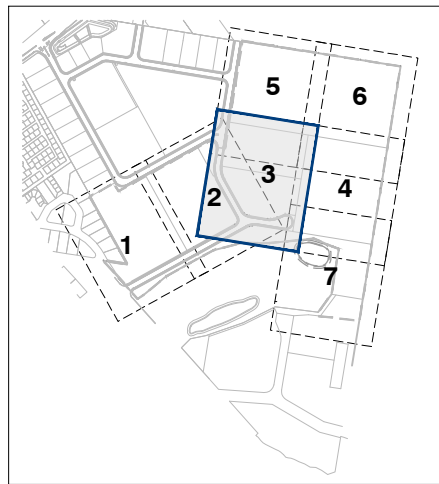
RPEQ:	16939
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Signed:	
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Date:	11-11-2021
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Drawing No:	Rev. No:
5941 ENG BE2 021	D

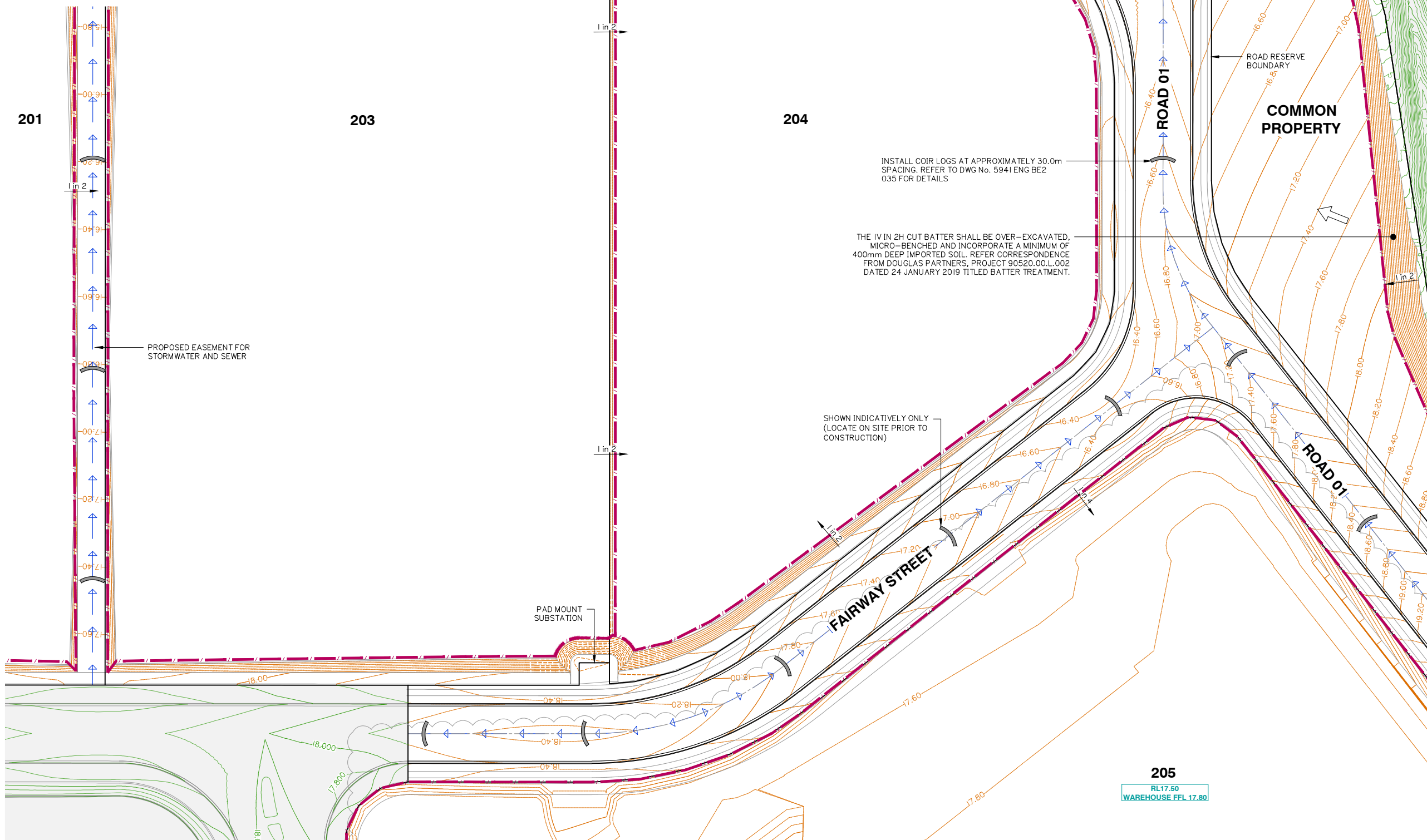




KEY PLAN
SCALE 1: 7500

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.



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: 501
Plan: SP295994
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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 3 OF 7

Rev	Date	Description	IG	MG
D	09-11-2021	LOT 205 BOUNDARY AND EARTHWORKS	IG	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	DRN	CHK

SCALE IN METRES



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

Scale at A1: 1:500

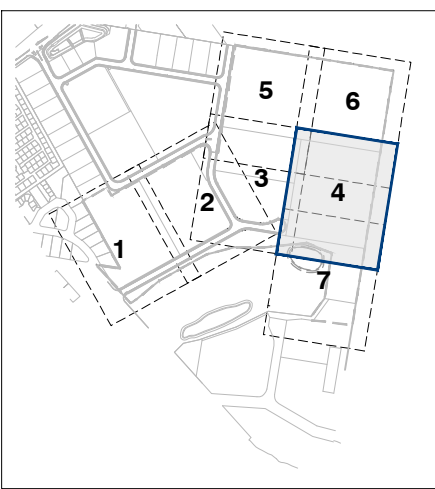
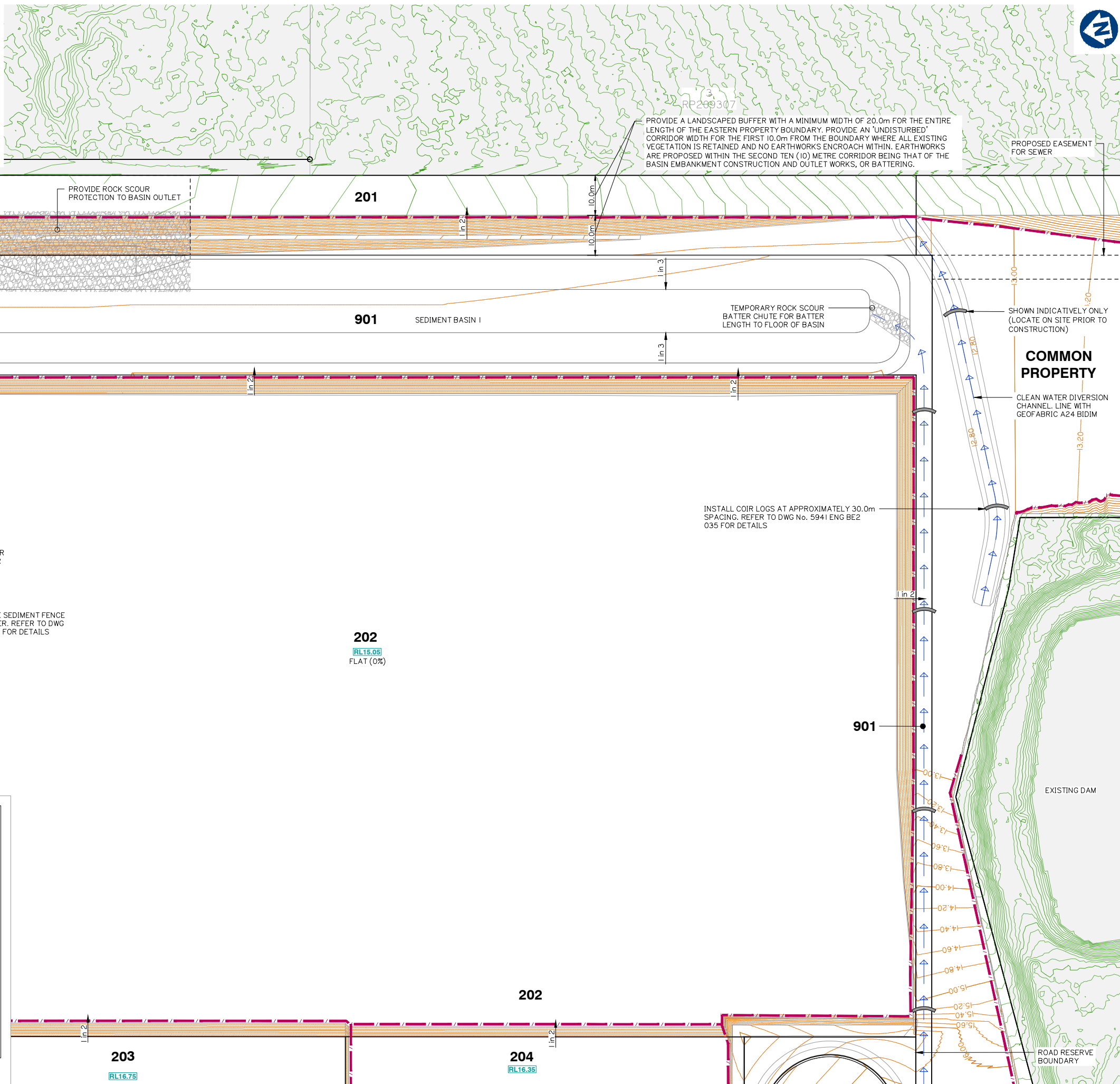
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	11-11-2021

Drawing No:
5941 ENG BE2 022

Rev. No:
D

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.
4. CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.



KEY PLAN
SCALE 1: 7500

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 022

SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 7

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: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 7

Issue	Date	Description	BA	MG	DRN	CHK
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		

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:	24-09-2021

Drawing No:
5941 ENG BE2 023

Rev. No:
C



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VantageYatala
STAGE 2

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ROAD, STAPYLTON QLD 4207

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Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 5 OF 7

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

SCALE IN METRES

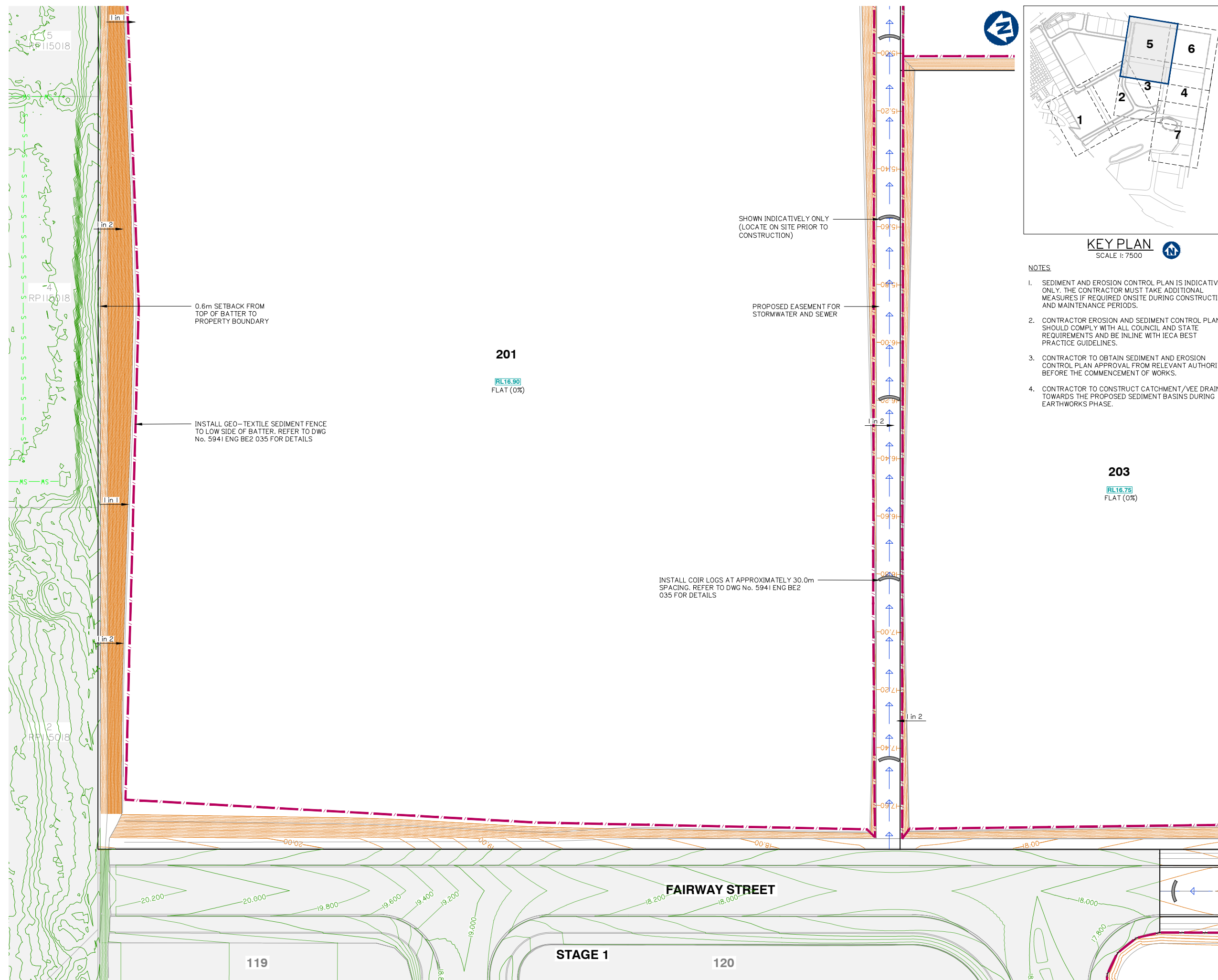


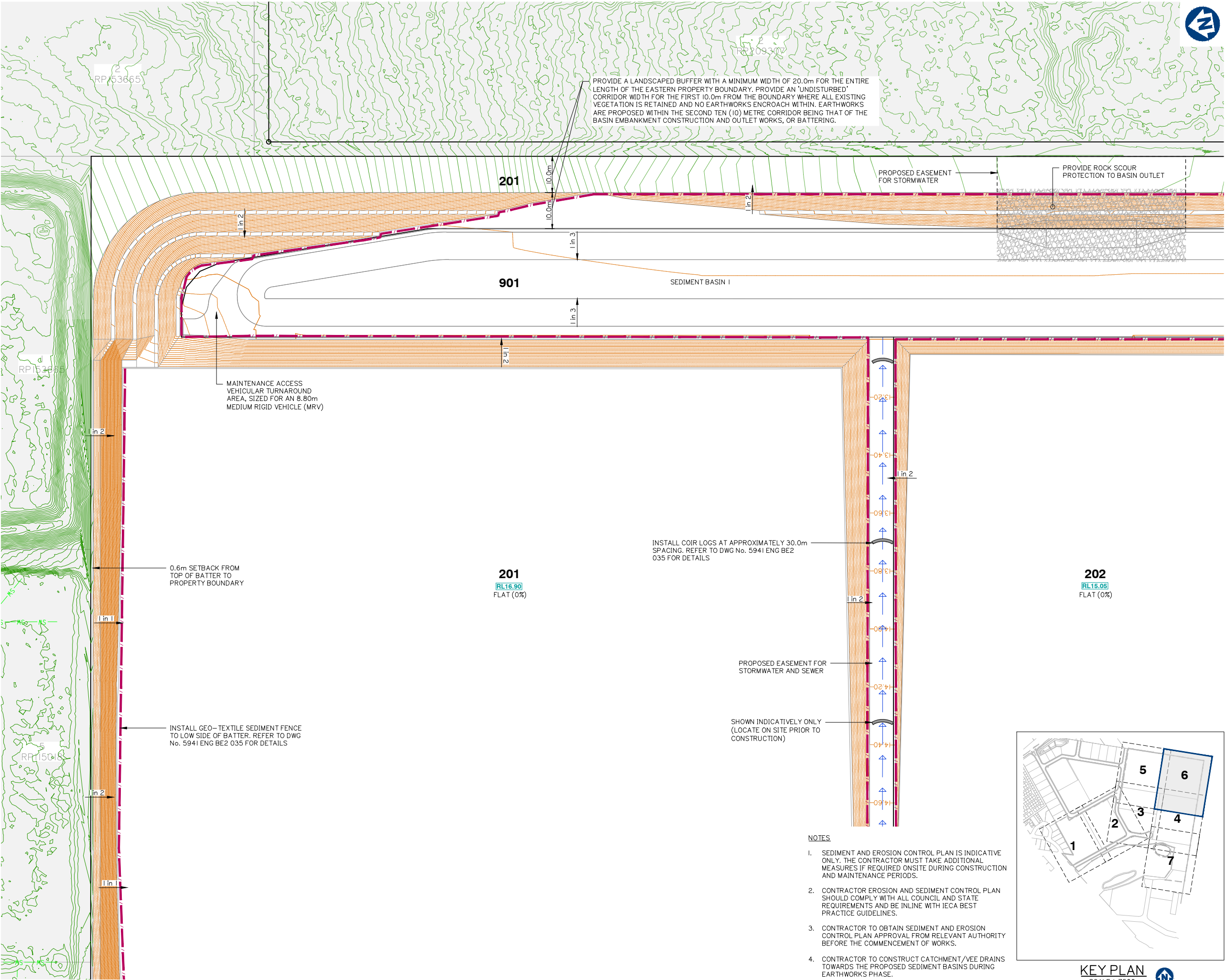
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Designed:	IG
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RPEQ:	16939
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5941 ENG BE2 024	B





Client:



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Project:

VantageYatala
STAGE 2

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

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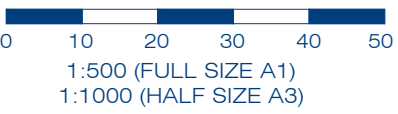
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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 6 OF 7

Issue	Date	Description	BA	MG	DRN	CHK
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		

SCALE IN METRES



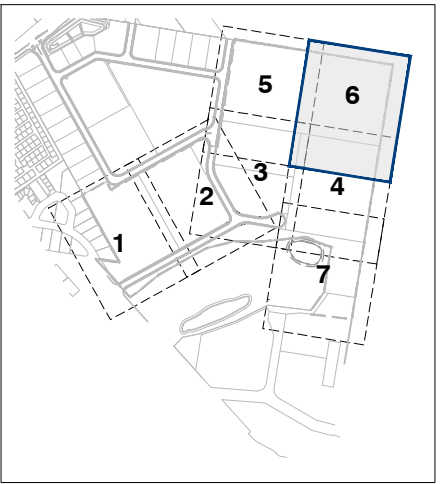
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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No: 5941 ENG BE2 025
Rev. No: C

NOTES

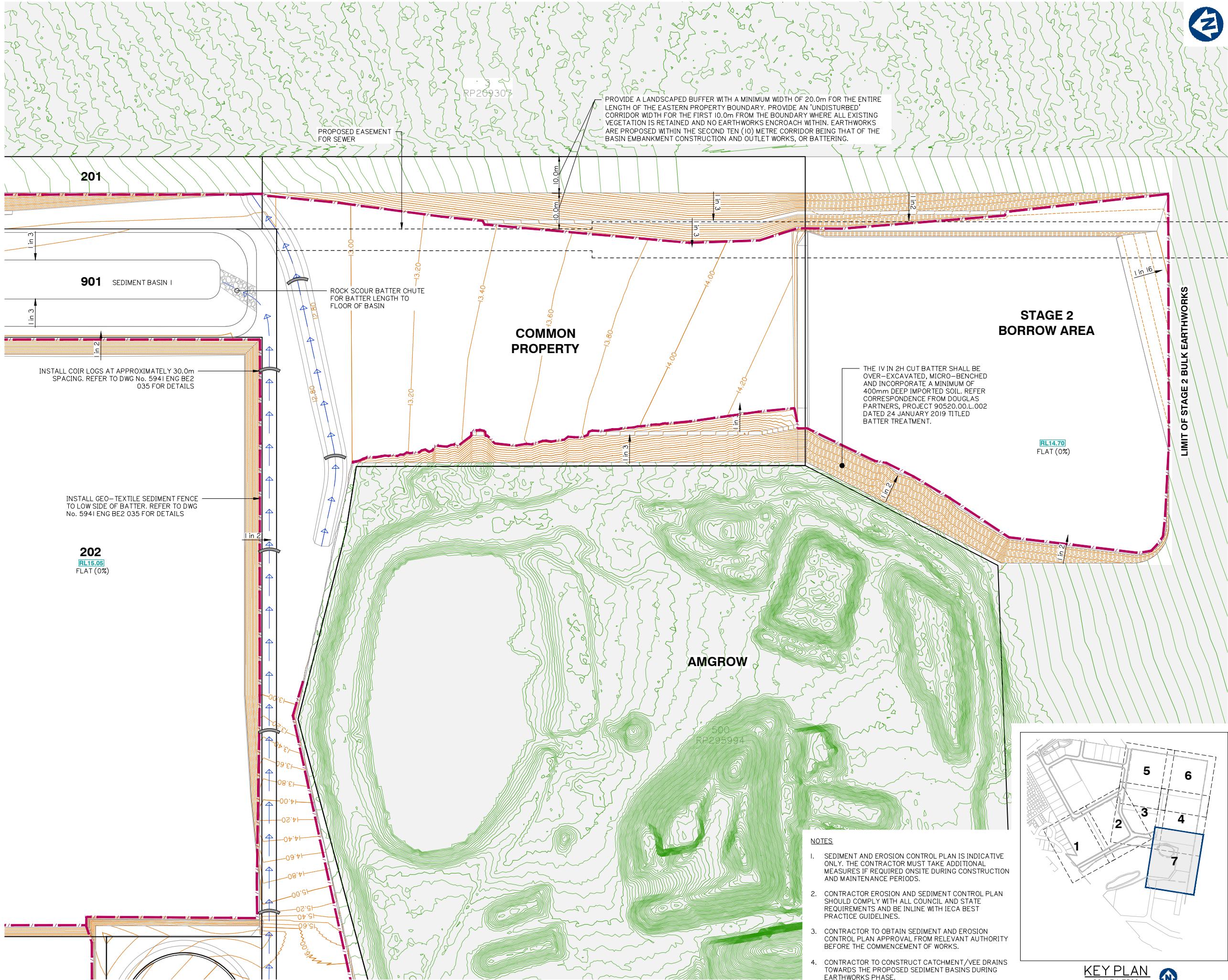
1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
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4. CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.



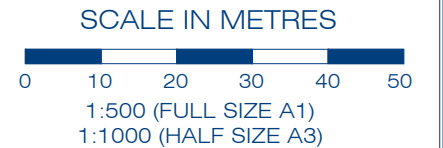
KEY PLAN
SCALE 1: 7500

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 024

SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 7



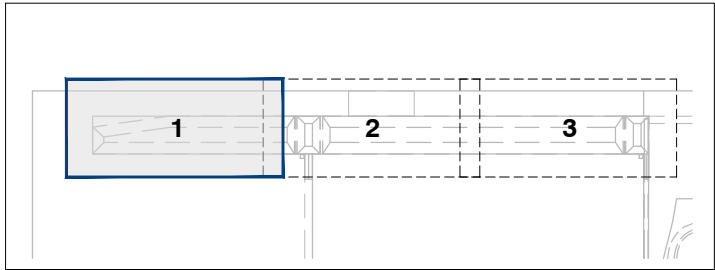
Issue	Date	Description	BA	MG	DRN	CHK
D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG		
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-11-2021	ORIGINAL ISSUE	BA	MG		



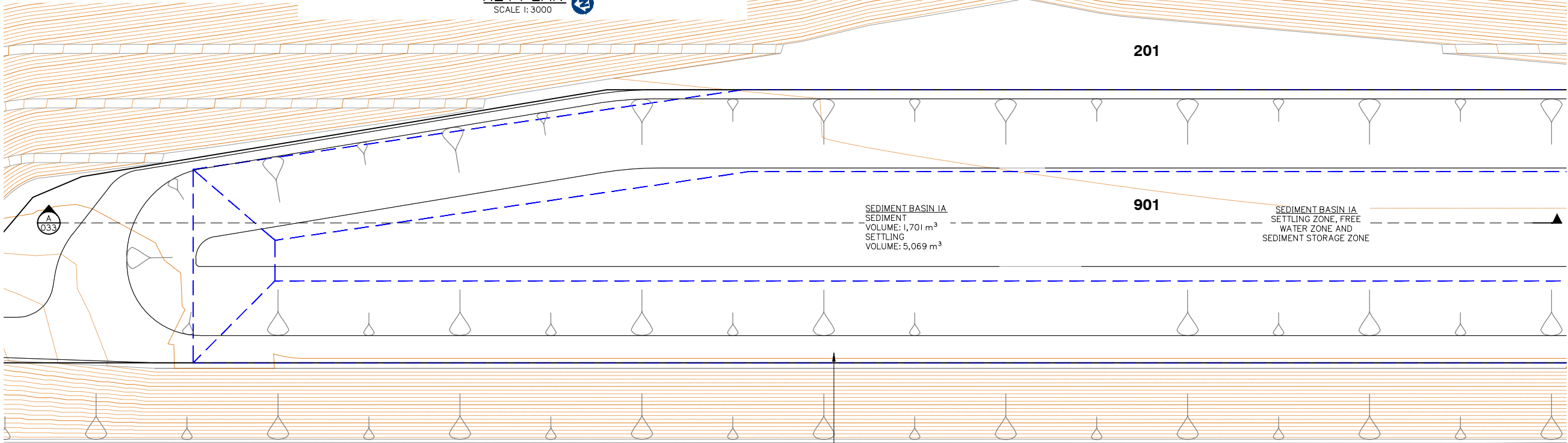
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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

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 1A
SEDIMENT
VOLUME: 1,701 m³
SETTLING
VOLUME: 5,069 m³

SEDIMENT BASIN 1A
SETTLING ZONE, FREE
WATER ZONE AND
SEDIMENT STORAGE ZONE

3.0m WIDE MAINTENANCE ACCESS TRACK TO BASIN
WHERE IMMEDIATELY ADJACENT TO THE DEVELOPMENT
LOTS. 1.0m WIDE TO REMAINING PERIMETER OF BASIN.
EMBANKMENT CROWN LEVEL VARIES
13.00m AHD NOMINAL
12.65m AHD LOWEST (REFER TYPICAL DETAIL BELOW)

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	

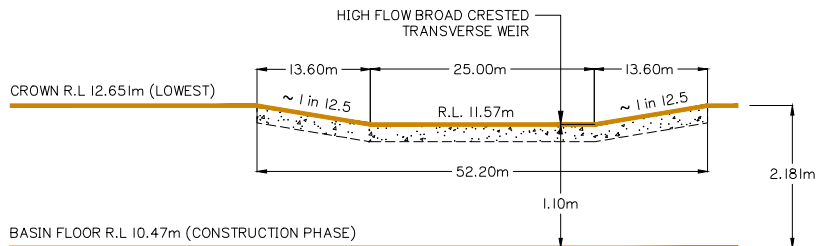
BASIN ID	CATCHMENT AREA	DESIGN EVENT	I_x yr, 24 hr	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W:L	OPTIMUM LOW-FLOW DECAN RATE	SELECTED LOW-FLOW DECAN RATE (Q_d)	MIN SETTLING ZONE VOLUME (Min V_s)	MIN SETTLING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
	(Ha)	(1:X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1:X)	(L/s/Ha)	(L/s/Ha)	(m ³)	(m ²)	
LPoD-IA	23.067	1	4.53	20	11150	1.9	5.1	9	9	5669	2315	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
	(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

SPILLWAY											
BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C_{10}	C	t_c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m ³ /s)				
LPoD-IA	> 12 MONTHS	1:50	0.80	0.92	25.00	143.00	8.43	0.20	25.00	11.57	12.22

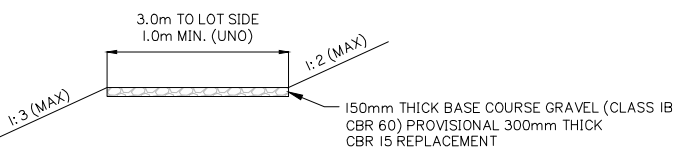
BASIN ID	FLOW RATE		FLUME DESIGN PARAMETERS				VELOCITY CHECK			OUTPUT PARAMETERS		
	BASIN DESIGN FLOW (m ³ /s)	FLUME DESIGN FLOW (m ³ /s)	BASE WIDTH (m)	SLIDE SLOPE (1:x)	LONGITUDINAL SLOPE (m/m)	FLUME LINING	MAX ALLOWABLE VELOCITY (m/s)	MANNINGS ROUGHNESS	VELOCITY (m/s)	FLOW DEPTH (m)	FLUME DEPTH (m)	CALCULATED FLOW (m ³ /s)
			b	x	s					d	y	
LPoD-IA	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 (m ³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	VOLUME (m ³)	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-IA	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: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
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)

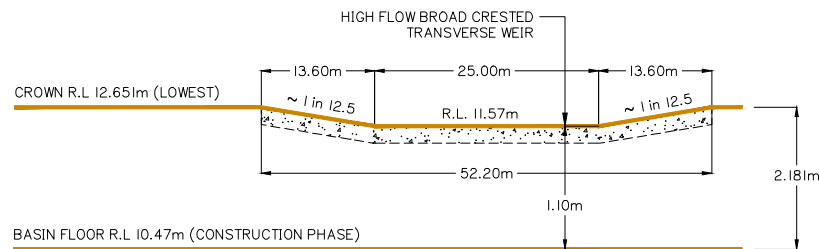
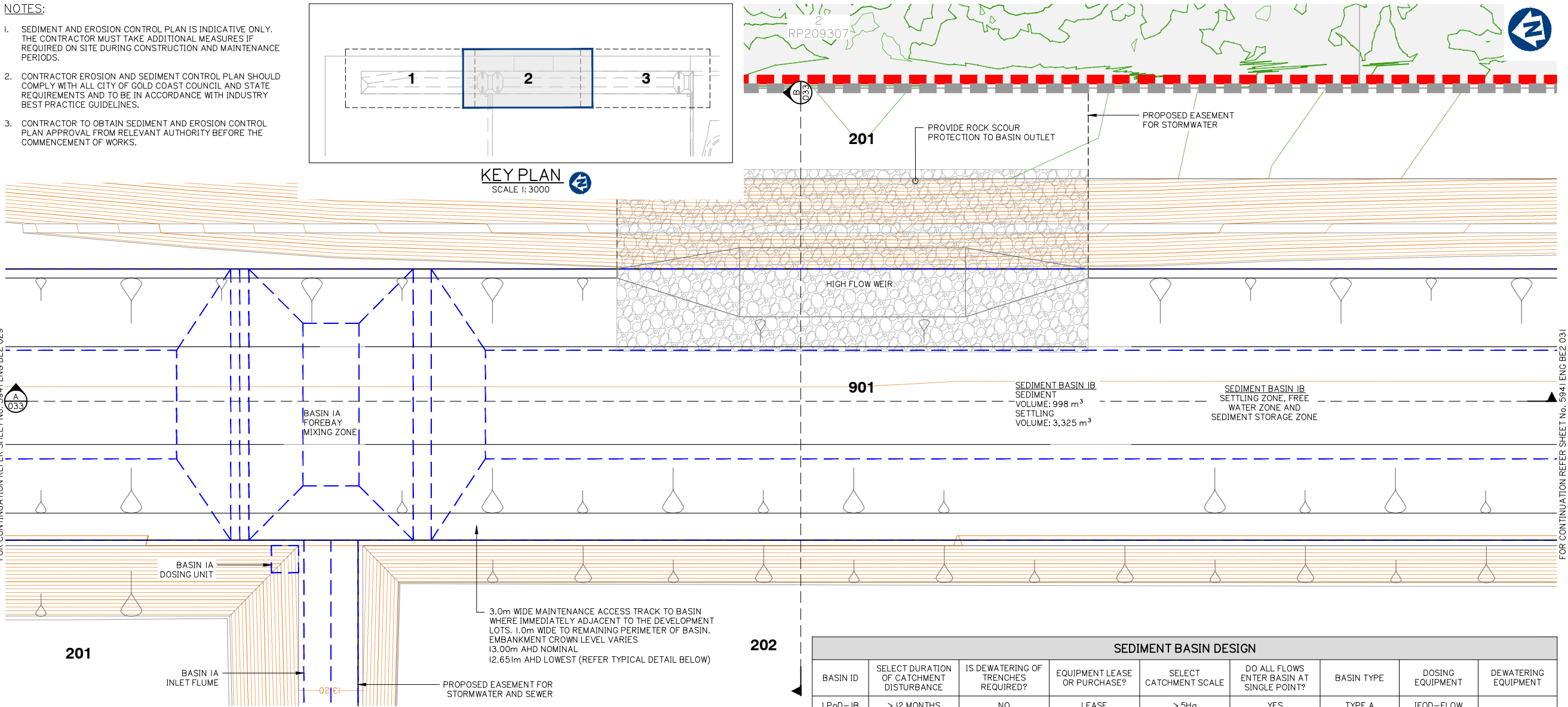
Scale at A1: 1:250

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

Drawing No: 5941 ENG BE2 029 Rev. No: D

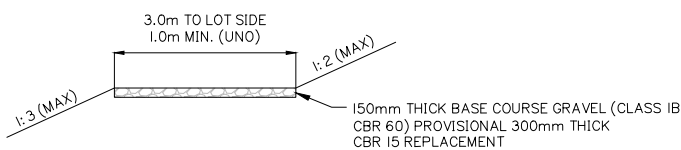
NOTES:

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



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)	(m ³)	(m ²)	
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
	(m ³)	(m ²)	(m/s)	(m)	(m ³)	(m ³)	(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)	(m ³ /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 (m ³ /s)	FLUME DESIGN FLOW (m ³ /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 (m ³ /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 (m ³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	VOLUME (m ³)	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: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 2 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

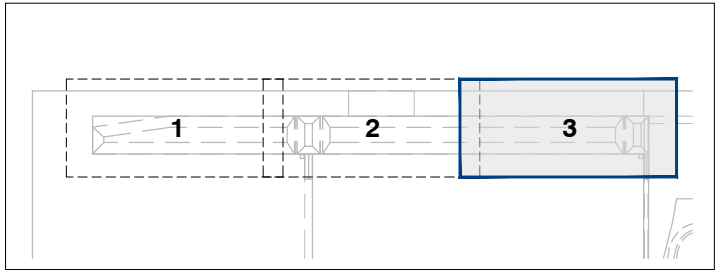
Designed: IG
Drafted: IG / BA / LAB
Approved: MG
RPEQ: 16939
Signed:
Date: 24-09-2021

Drawing No:
5941 ENG BE2 030

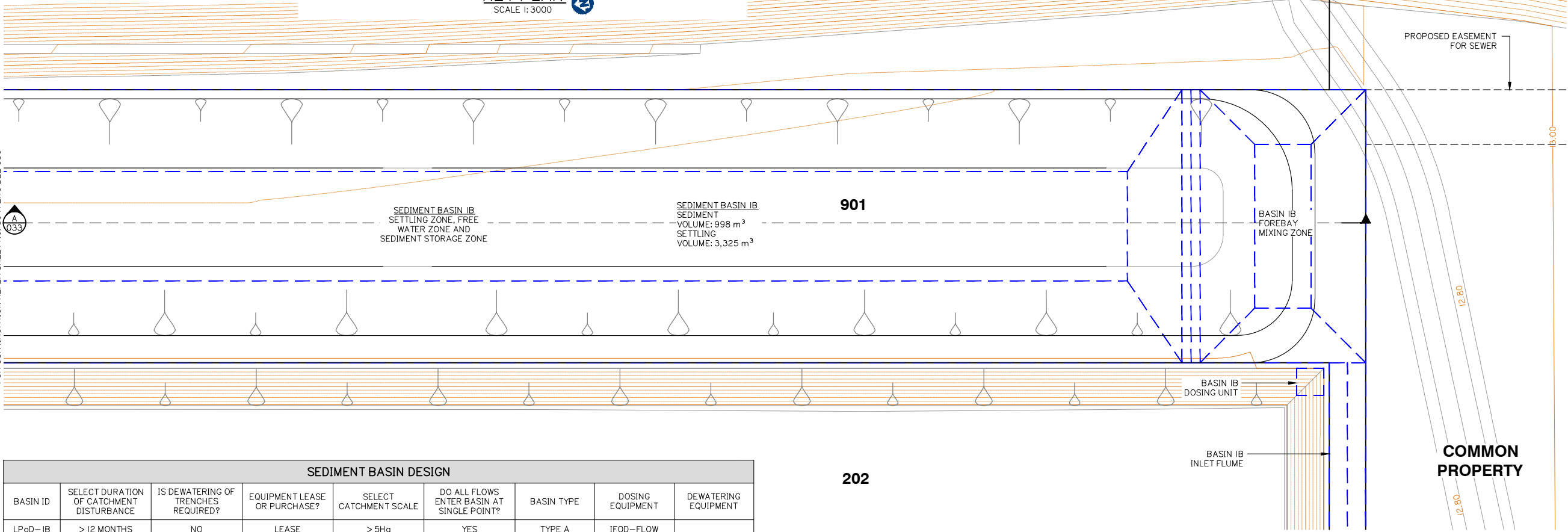
Rev. No:
D

NOTES:

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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	

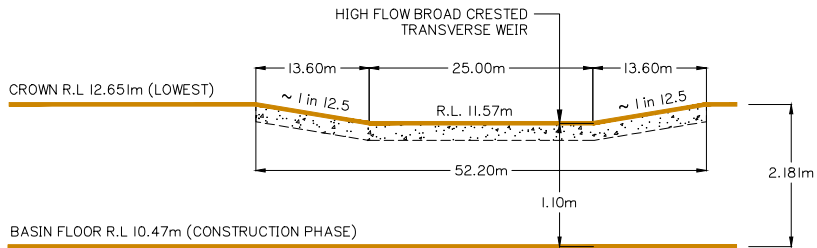
BASIN ID	CATCHMENT AREA	DESIGN EVENT	1 yr, 24 hr	WATER TEMPERATURE	Ks	SETTLING ZONE DEPTH (Ds)	W: L	OPTIMUM LOW-FLOW DECAN RATE	SELECTED LOW-FLOW DECAN RATE (Qd)	MIN SETTling ZONE VOLUME (Min Vs)	MIN SETTling ZONE SURFACE AREA (Min As)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(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 (Vs)	ACTUAL SETTling ZONE AREA (As)		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

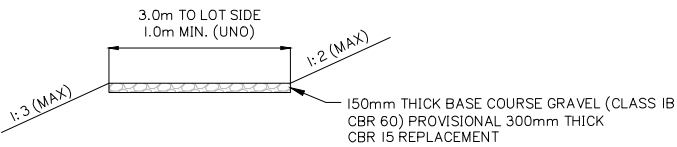
SPILLWAY											
BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C ₁₀	C	tc	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m³/s)	(m)	(m)	(m)	(m)
LPoD-IB	> 12 MONTHS	1: 50	0.80	0.92	25.00	143.00	4.95	0.20	25.00	11.57	12.22

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

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
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

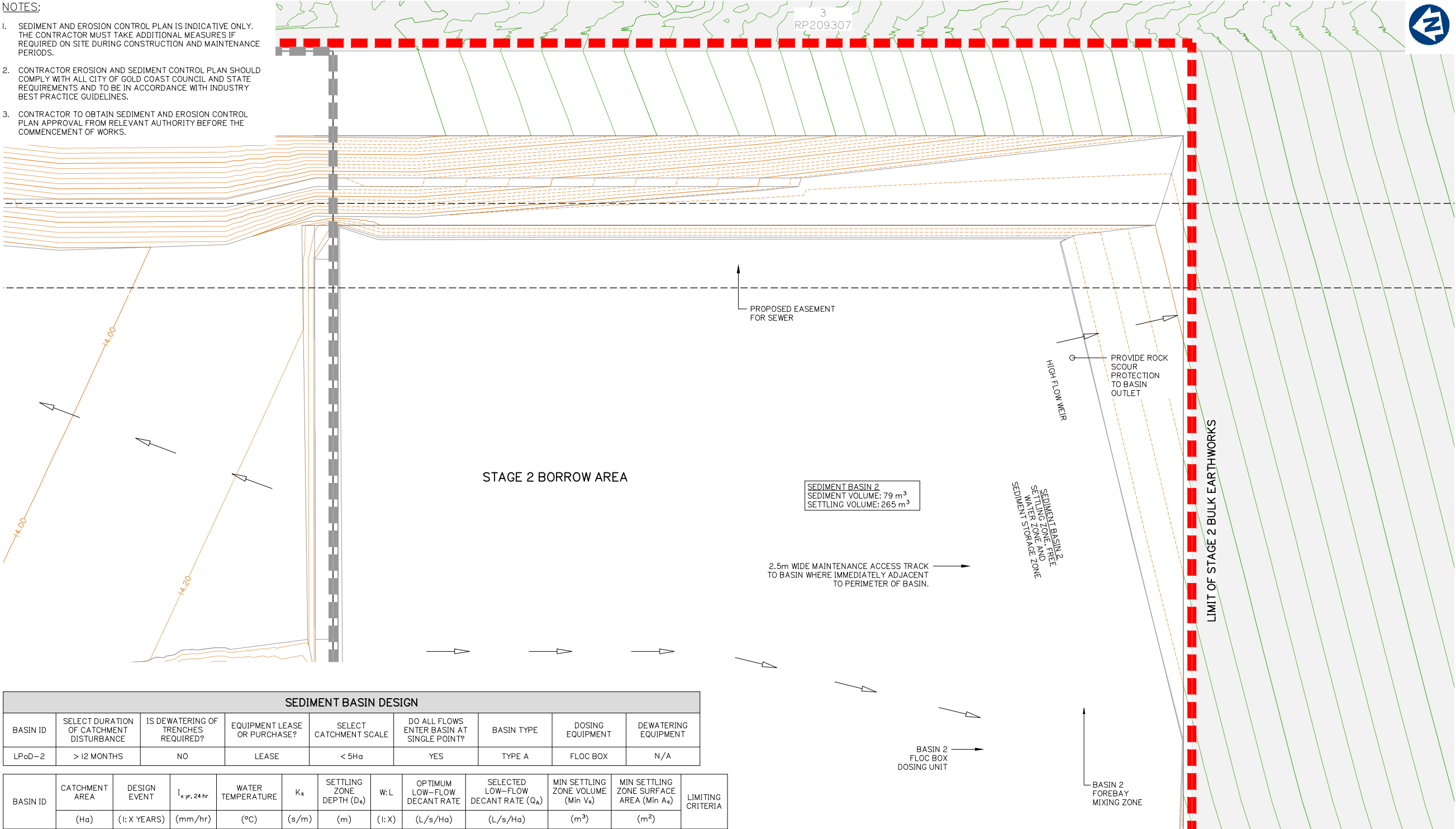
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

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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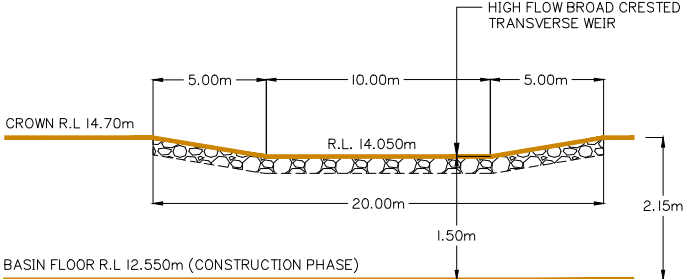
SEDIMENT BASIN DESIGN											
BASIN ID	SELECT DURATION OF CATCHMENT DISTURBANCE	IS DEWATERING OF TRENCHES REQUIRED?	EQUIPMENT LEASE OR PURCHASE?	SELECT CATCHMENT SCALE	DO ALL FLOWS ENTER BASIN AT SINGLE POINT?	BASIN TYPE	DOSING EQUIPMENT	DEWATERING EQUIPMENT			
LPoD-2	> 12 MONTHS	NO	LEASE	< 5Ha	YES	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 _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)	(m ³)	(m ²)	
LPoD-2	1.077	1	4.53	20	11150	0.86	3	9	9	265	108	VOLUME

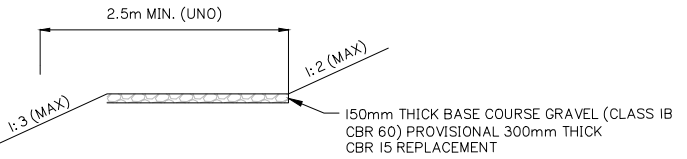
BASIN ID	SETTLING ZONE			FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	ACTUAL SETTLING ZONE VOLUME (V _s)	ACTUAL SETTLING ZONE AREA (A _s)	SCOUR VELOCITY	DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
	(m ³)	(m ²)	(m/s)	(m)	(m ³)	(m ³)	(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)	(m ³ /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 (m ³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	VOLUME (m ³)	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

Client:



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

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



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 032
Rev. No: C

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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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	DRN	CHK

SCALE IN METRES



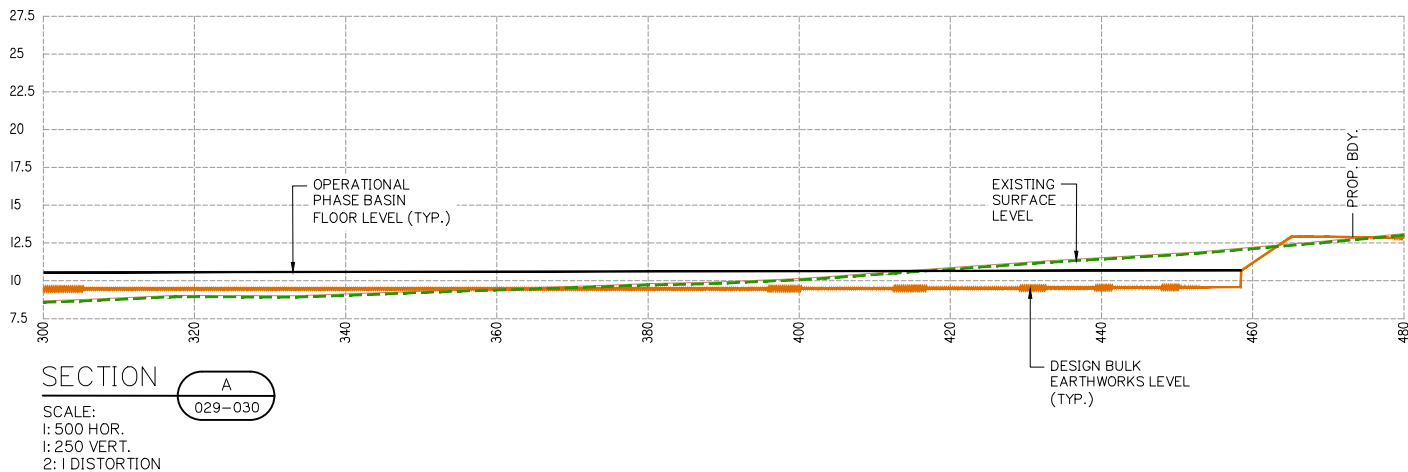
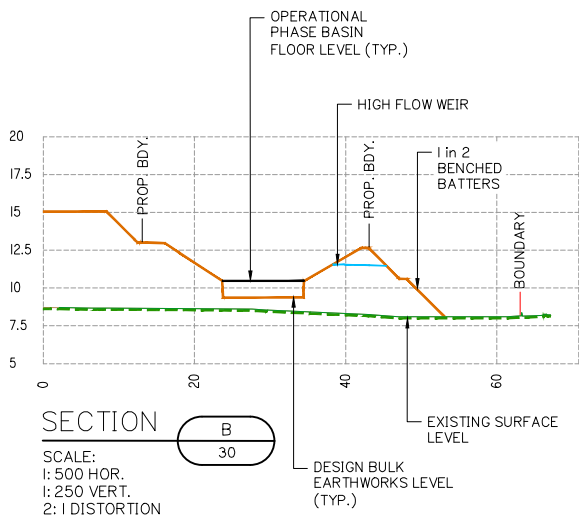
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1:500 (HALF SIZE A3)

Scale at A1: 1:250

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

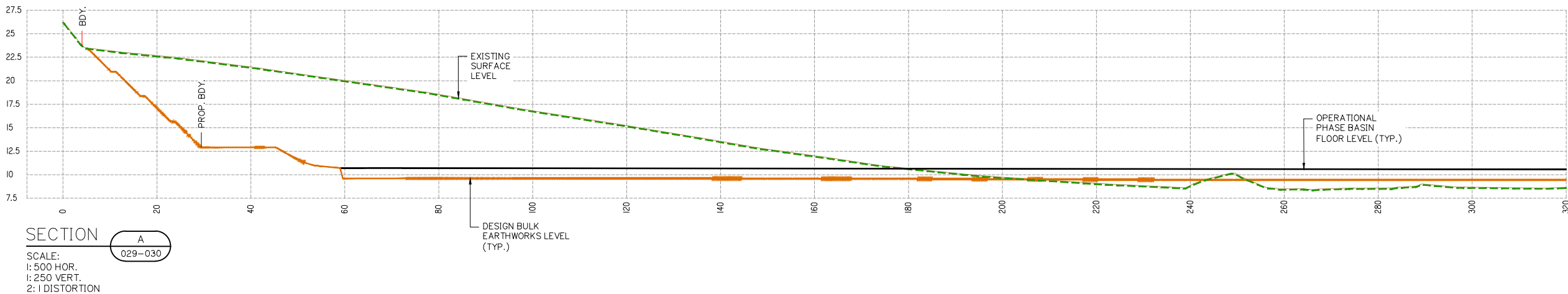
Drawing No:
5941 ENG BE2 033

Rev. No:
C

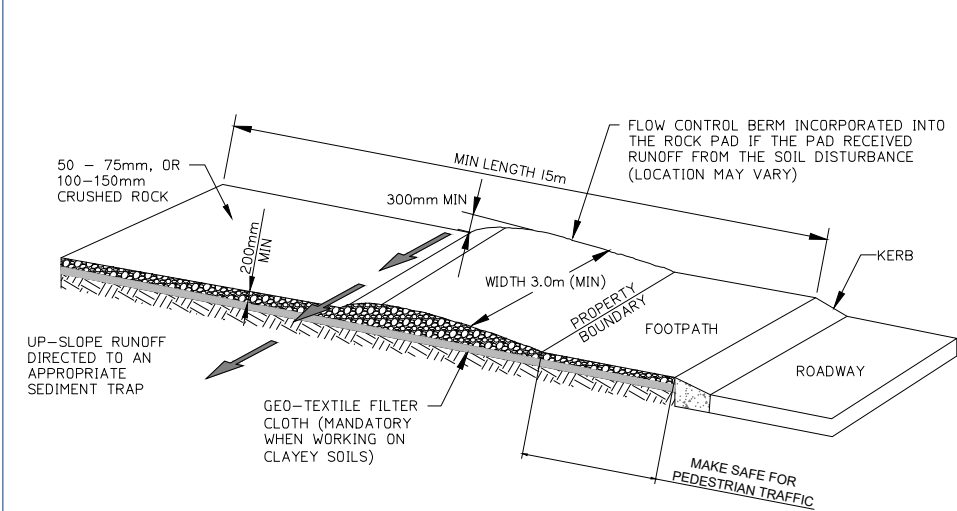


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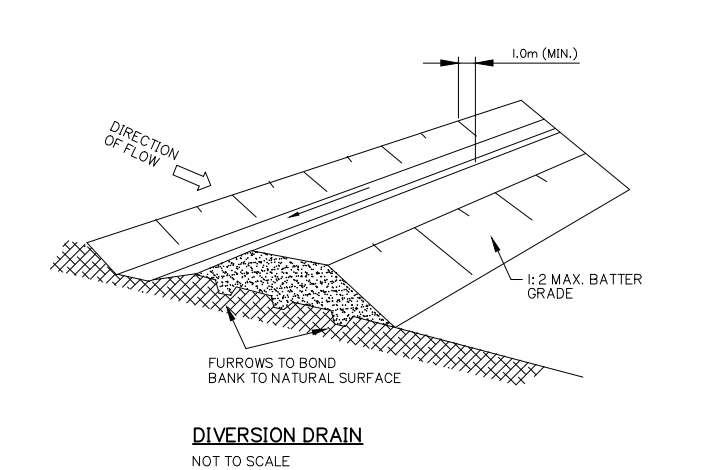
- I. SEDIMENT ACCUMULATION DEPTHS, FREE WATER ZONES, AND SETTLEMENT DEPTHS ARE OMITTED FROM CROSS SECTIONS FOR CLARITY. REFER TO CALCULATION TABLES ON DRAWINGS 5941 ENG BE2 029-032



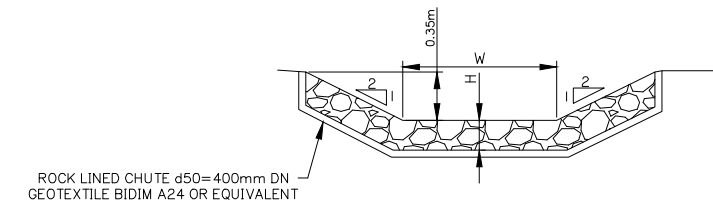
CONSTRUCTION PHASE SEDIMENT BASIN SECTIONS



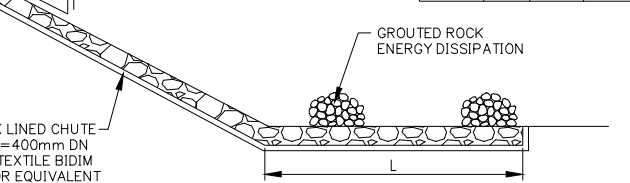
ENTRY/EXIT PAD FOR CONSTRUCTION SITE
NOT TO SCALE



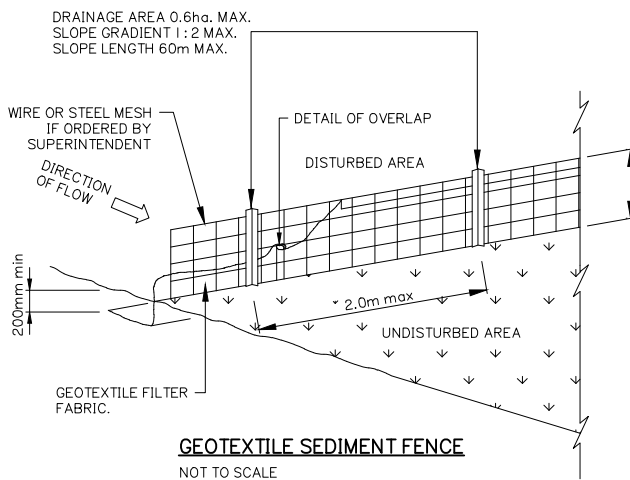
DIVERSION DRAIN
NOT TO SCALE



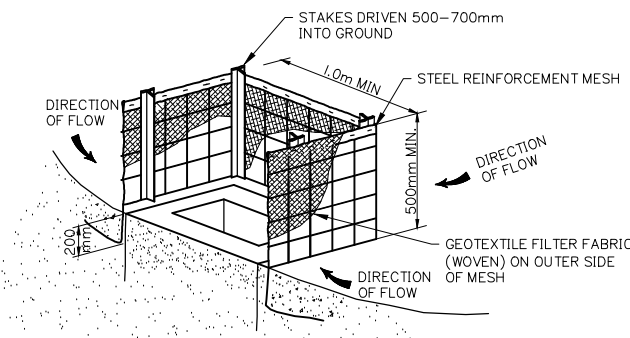
ROCK LINED CHUTE DETAILS			
	W	H	L
TYPE 1	3.5m	0.81m	6.0m
TYPE 2	5.0m	0.90m	8.0m



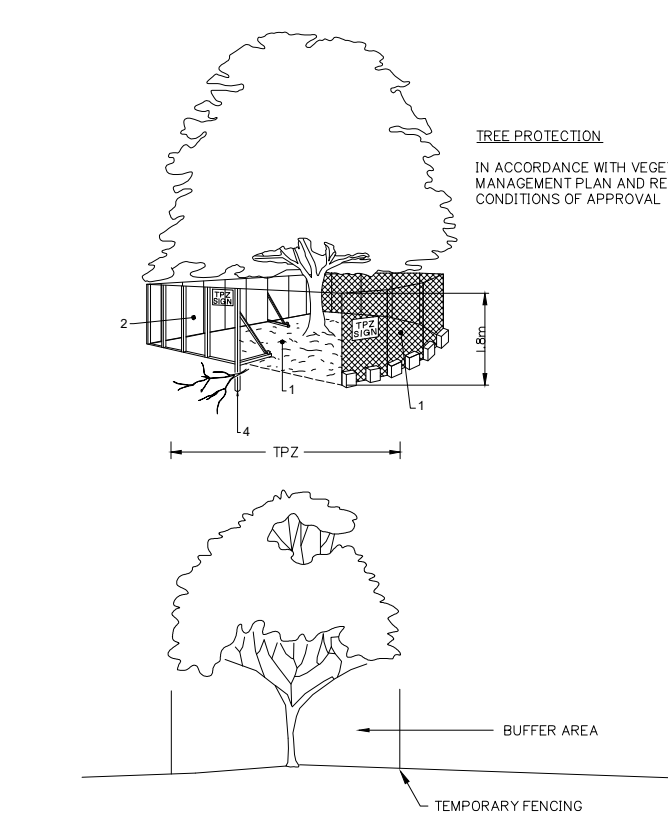
ROCK LINED CHUTE
NOT TO SCALE



GEOTEXTILE SEDIMENT FENCE
NOT TO SCALE



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



FENCING AS PER AS: 4970

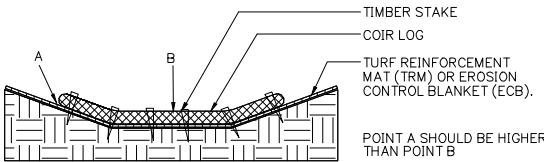
1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET.
2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THIS FENCING MATERIAL ALSO PREVENTS BUILDING MATERIALS OR SOIL ENTERING THE TPZ.
3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF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

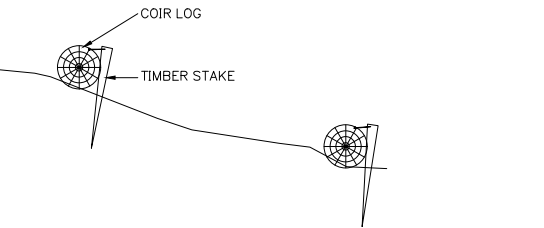
THE RADIUS OF THE TPZ IS CALCULATED FOR EACH TREE BY MULTIPLYING ITS DBH X 12 = TRUNK DIAMETER MEASURED AT 1.4M ABOVE GROUND. RADIUS IS MEASURED FROM THE CENTRE OF THE STEM AT GROUND LEVEL.

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.

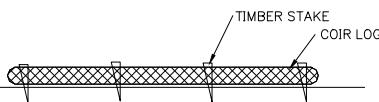
PROTECTIVE FENCING
NOT TO SCALE



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

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

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		

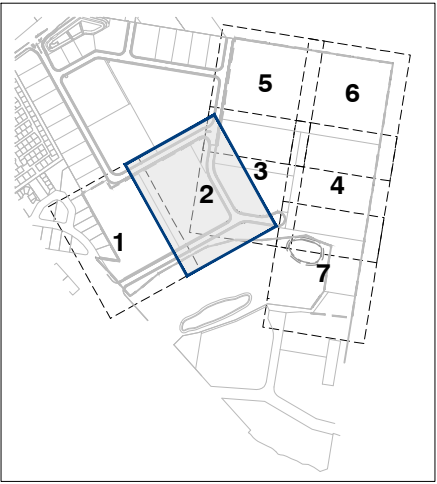
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1:10000 (FULL SIZE A1)
1:20000 (HALF SIZE A3)

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

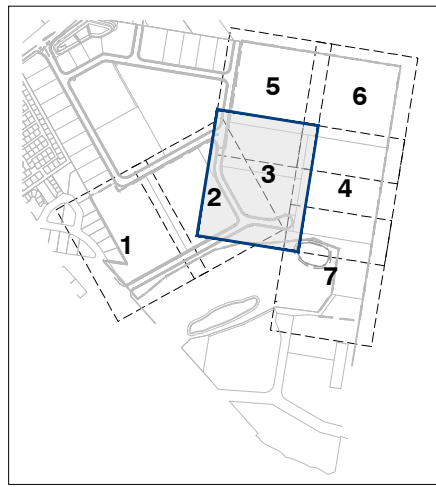


KEY PLAN
SCALE 1: 7500

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	363,411 m ³
FILL	390,156 m ³
EXCESS OF FILL OVER CUT	26,744 m ³

Drawing No:	Rev. No:
5941 ENG BE2 051	E



KEY PLAN
SCALE 1:7500

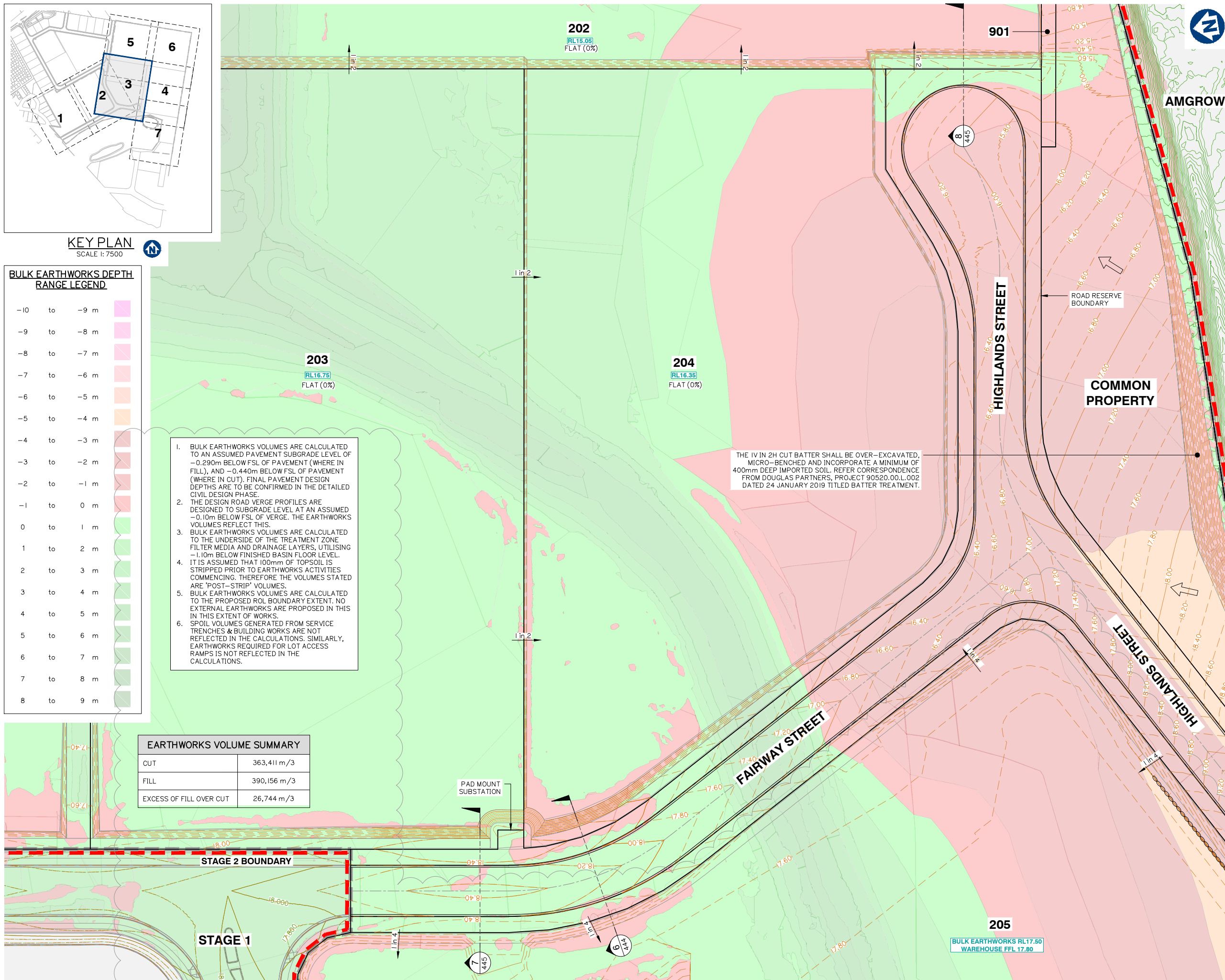
**BULK EARTHWORKS DEPTH
RANGE LEGEND**

-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

- 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.

EARTHWORKS VOLUME SUMMARY

CUT	363,411 m ³
FILL	390,156 m ³
EXCESS OF FILL OVER CUT	26,744 m ³



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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DRAWING TITLE

**BULK EARTHWORKS
LAYOUT PLAN SHEET 3 OF 7**

Rev	Date	Description	IG	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	DRN	CHK

SCALE IN METRES

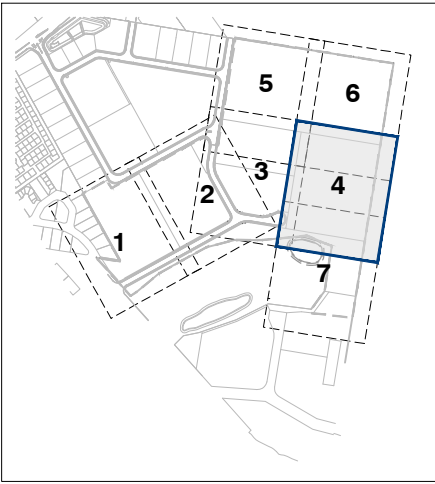


Scale at A1: 1:500

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

Drawing No:
5941 ENG BE2 052

Rev. No:
E



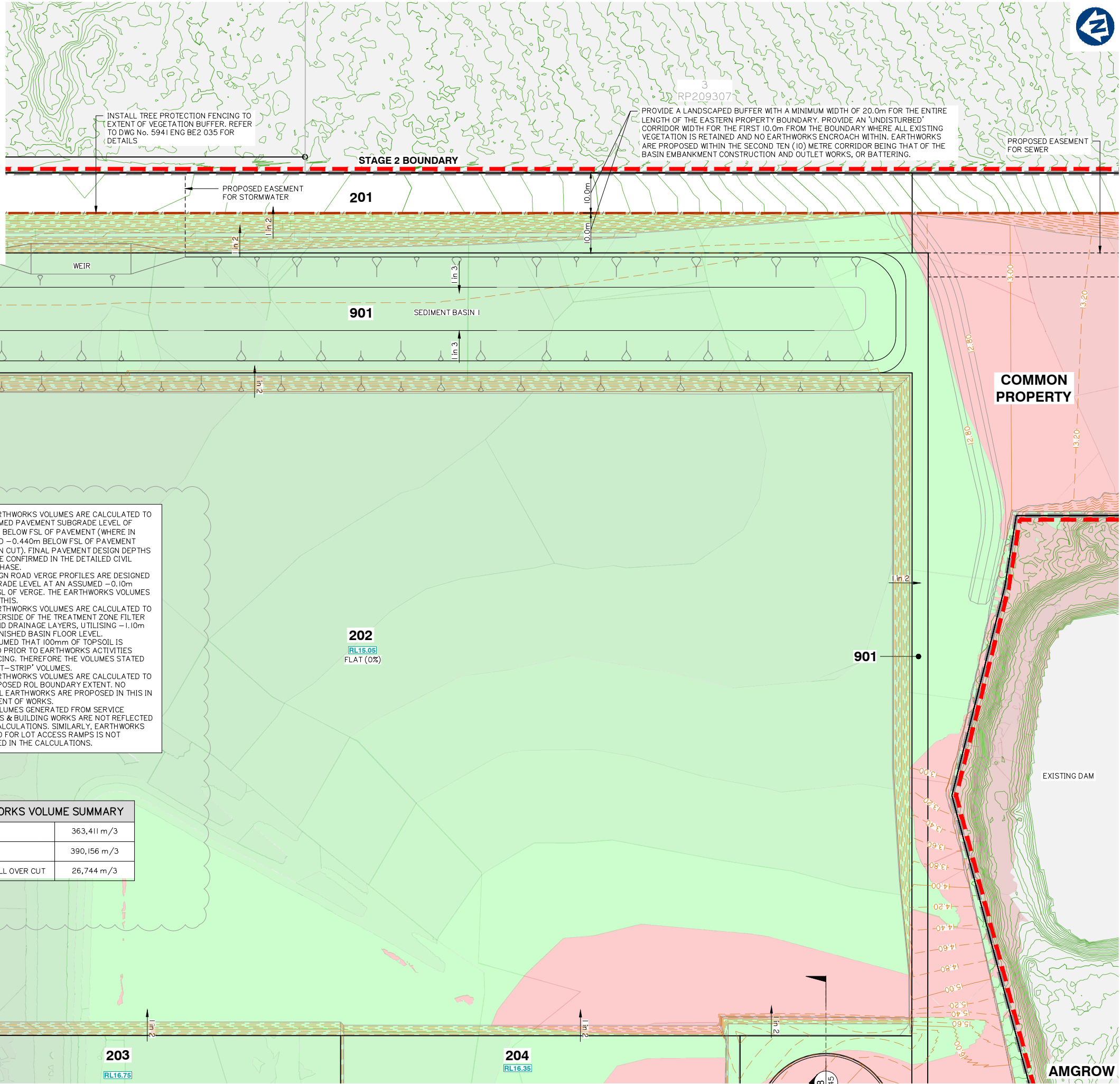
KEY PLAN
SCALE 1: 7500

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	

1. 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.
2. THE DESIGN ROAD VERGE PROFILES ARE DESIGNED TO SUBGRADE LEVEL AT AN ASSUMED -0.10m BELOW FSL OF VERGE. THE EARTHWORKS VOLUMES REFLECT THIS.
3. 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.
4. IT IS ASSUMED THAT 100mm OF TOPSOIL IS STRIPPED PRIOR TO EARTHWORKS ACTIVITIES COMMENCING. THEREFORE THE VOLUMES STATED ARE 'POST-STRIP' VOLUMES.
5. BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE PROPOSED ROL BOUNDARY EXTENT. NO EXTERNAL EARTHWORKS ARE PROPOSED IN THIS IN THIS EXTENT OF WORKS.
6. 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.

EARTHWORKS VOLUME SUMMARY	
CUT	363,411 m ³
FILL	390,156 m ³
EXCESS OF FILL OVER CUT	26,744 m ³



FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 055

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 056

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 052

BULK EARTHWORKS LAYOUT PLAN SHEET 4 OF 7

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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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 4 OF 7

Issue	Date	Description	BA	MG	DRN	CHK
E	15-11-2021	RETAINING WALLS LOT 205	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		

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:	15-11-2021

Drawing No:
5941 ENG BE2 053

Rev. No:
E



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(AUSTRALIA) PTY. LTD.

VantageYatala
STAGE 2

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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BE PRINTED IN COLOUR

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

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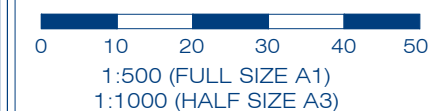
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 5 OF 7

F	17-12-2021	BATTER ALONG FAIRWAY STREET REDUCED	DV	MG
E	15-11-2021	RETAINING WALLS LOT 205	IG	MG
D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
O	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	DA	MG
Issue	Date	Description	DRN	CHK

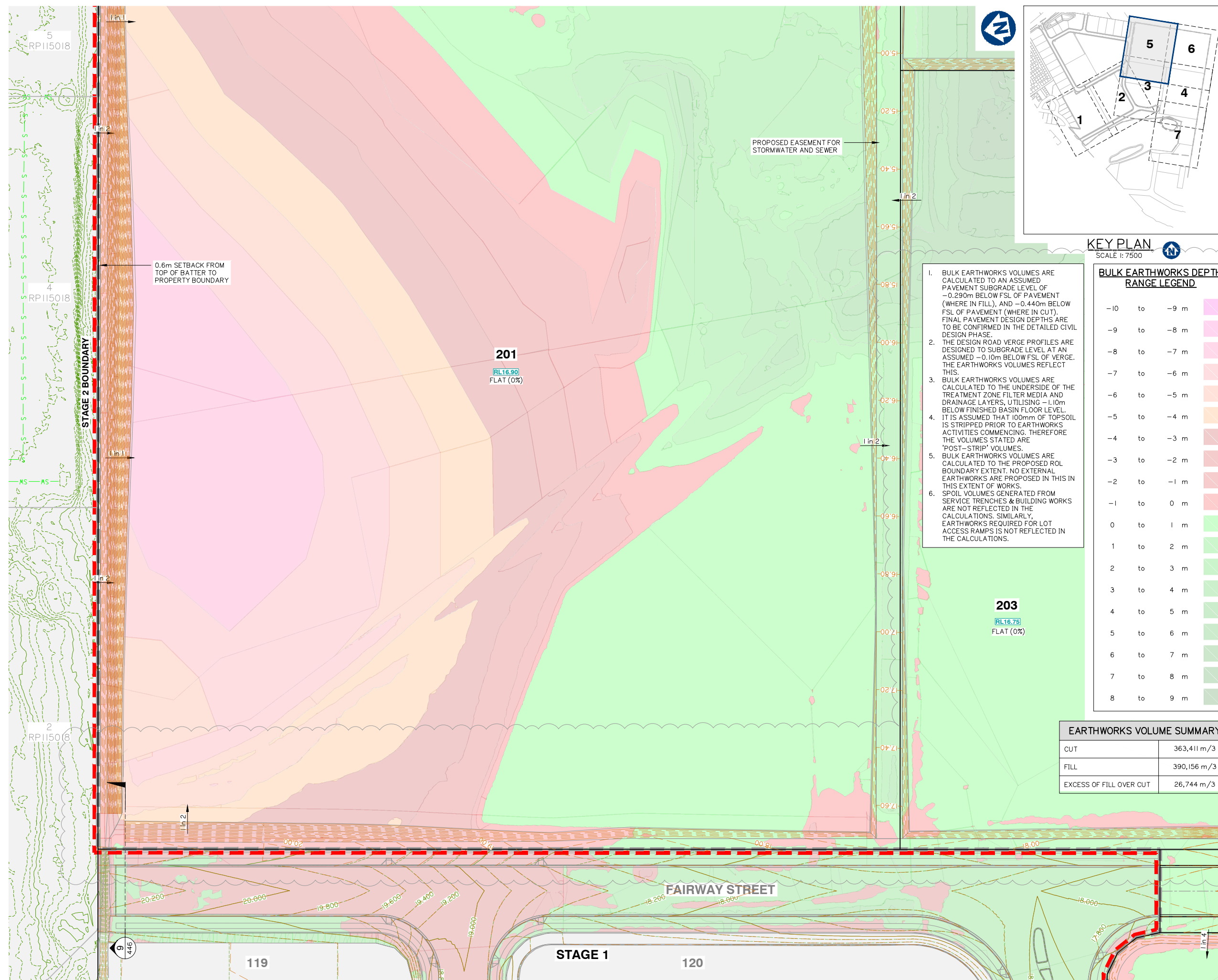
SCALE IN METRES

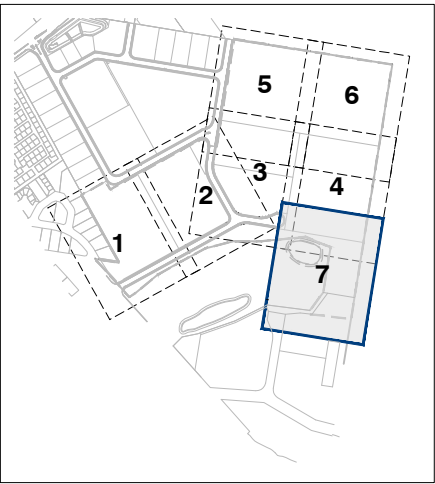


Scale at A1: 1:500

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

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



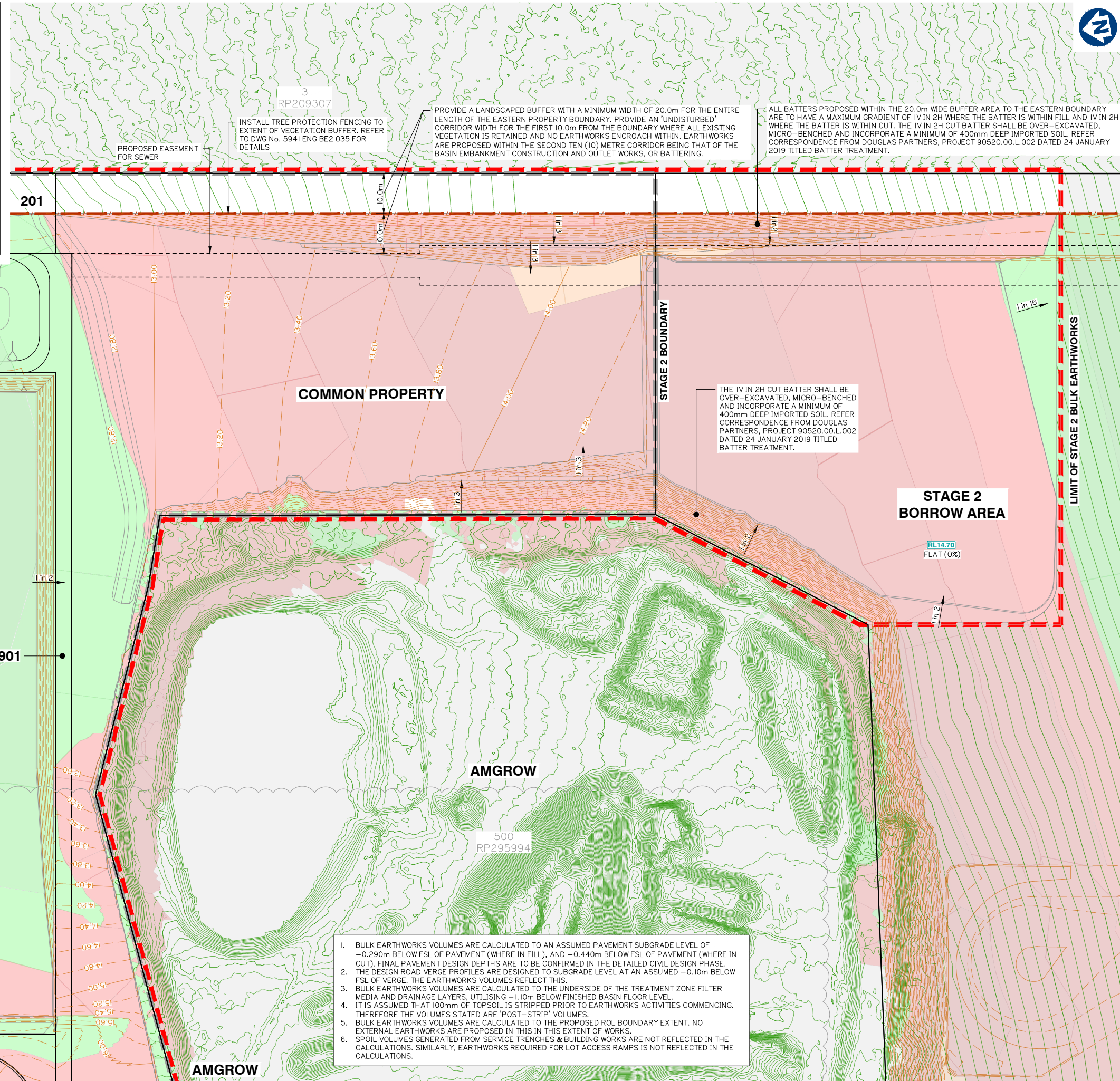


KEY PLAN
SCALE 1: 7500

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	363,411 m ³
FILL	390,156 m ³
EXCESS OF FILL OVER CUT	26,744 m ³



BULK EARTHWORKS LAYOUT PLAN SHEET 7 OF 7

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:	-
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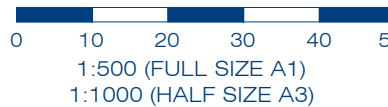
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

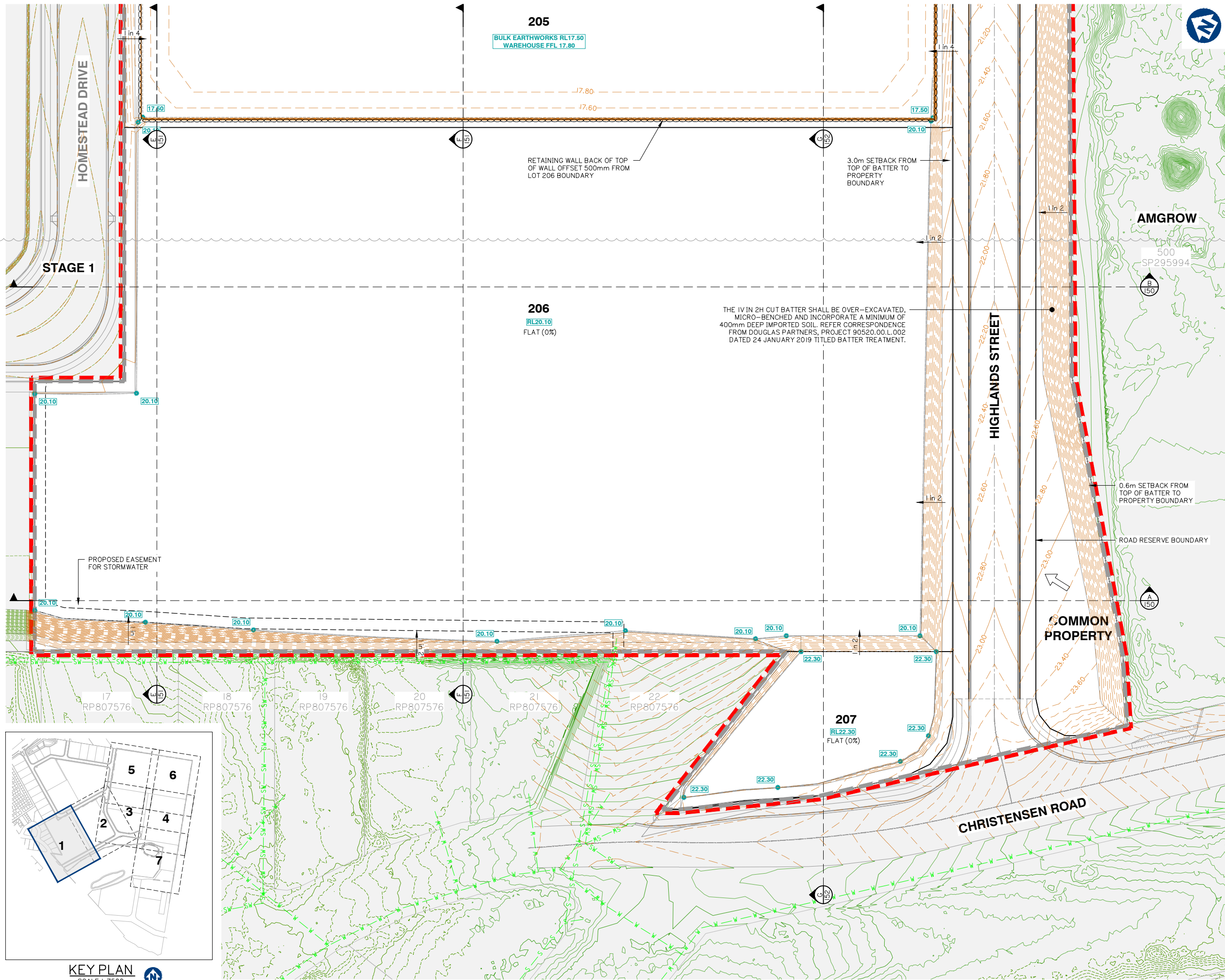
BULK EARTHWORKS
LAYOUT PLAN SHEET 7 OF 7

Issue	Date	Description	BA	MG	CHK
E	15-11-2021	RETAINING WALLS LOT 205	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	

SCALE IN METRES

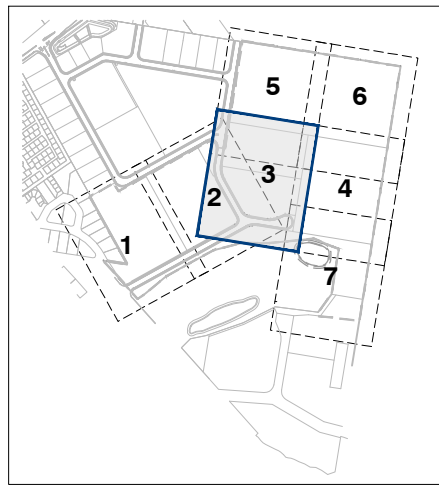


Scale at A1:	1:500
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-11-2021

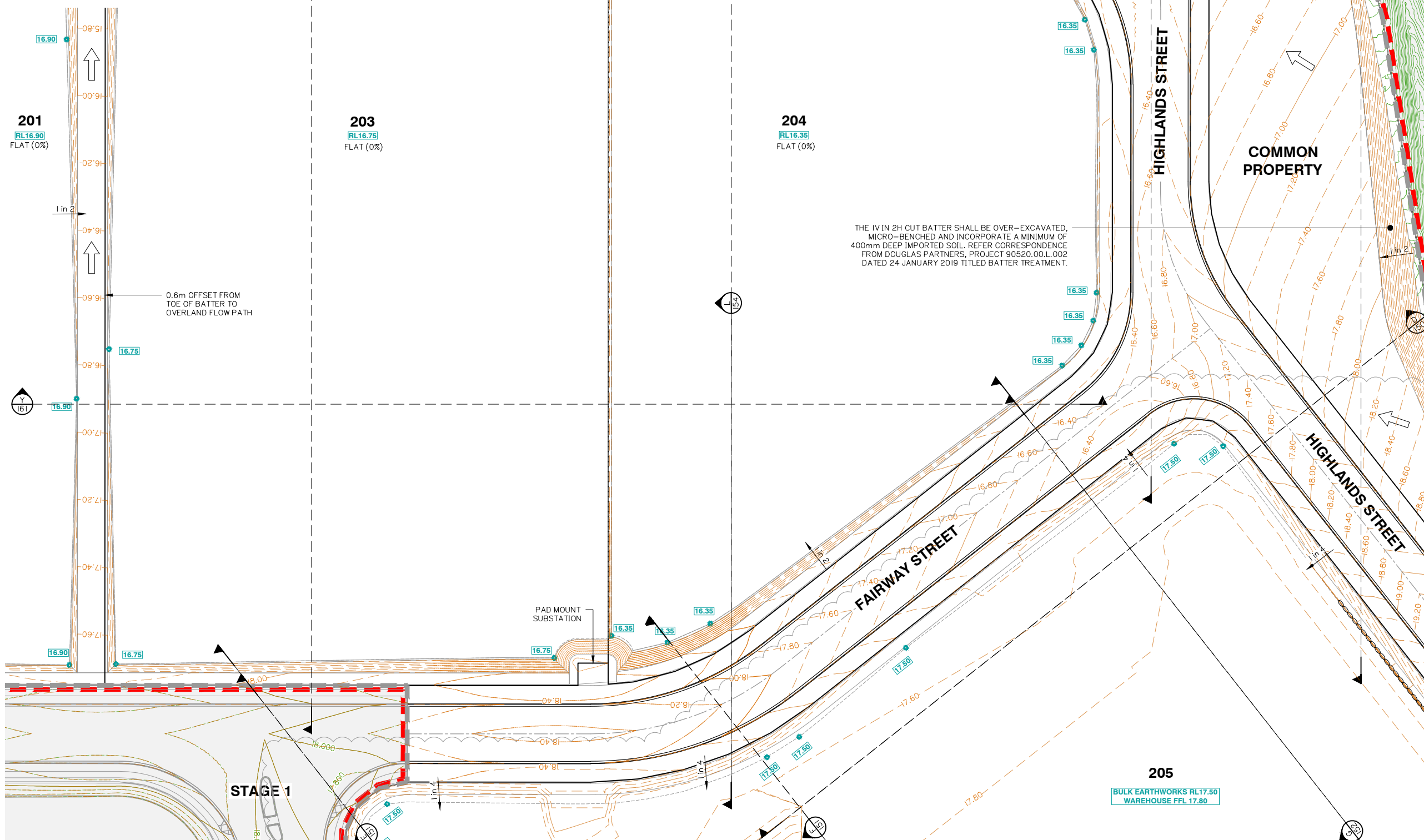


D	Date	Description	IG	MG
D	09-11-2021	LOT 205 BOUNDARY AND EARTHWORKS	IG	MG
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

Scale at A1:	1:500
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	11-11-2021



KEY PLAN
SCALE 1: 7500



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
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RPD:

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

ISSUED FOR TENDER

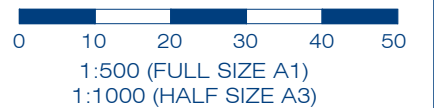
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

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

Issue	Date	Description	BA	MG	DRN	CHK
D	09-11-2021	LOT 205 BOUNDARY AND EARTHWORKS	IG	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



Scale at A1: 1:500

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

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





FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

VantageYatala
STAGE 2

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

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

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

ISSUED FOR INFORMATION

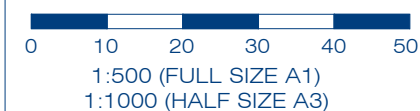
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

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

O	17-12-2021	BATTER ALONG FAIRWAY STREET REDUCED	DV	MG	
B	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IQ	MG	
A	20-11-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	

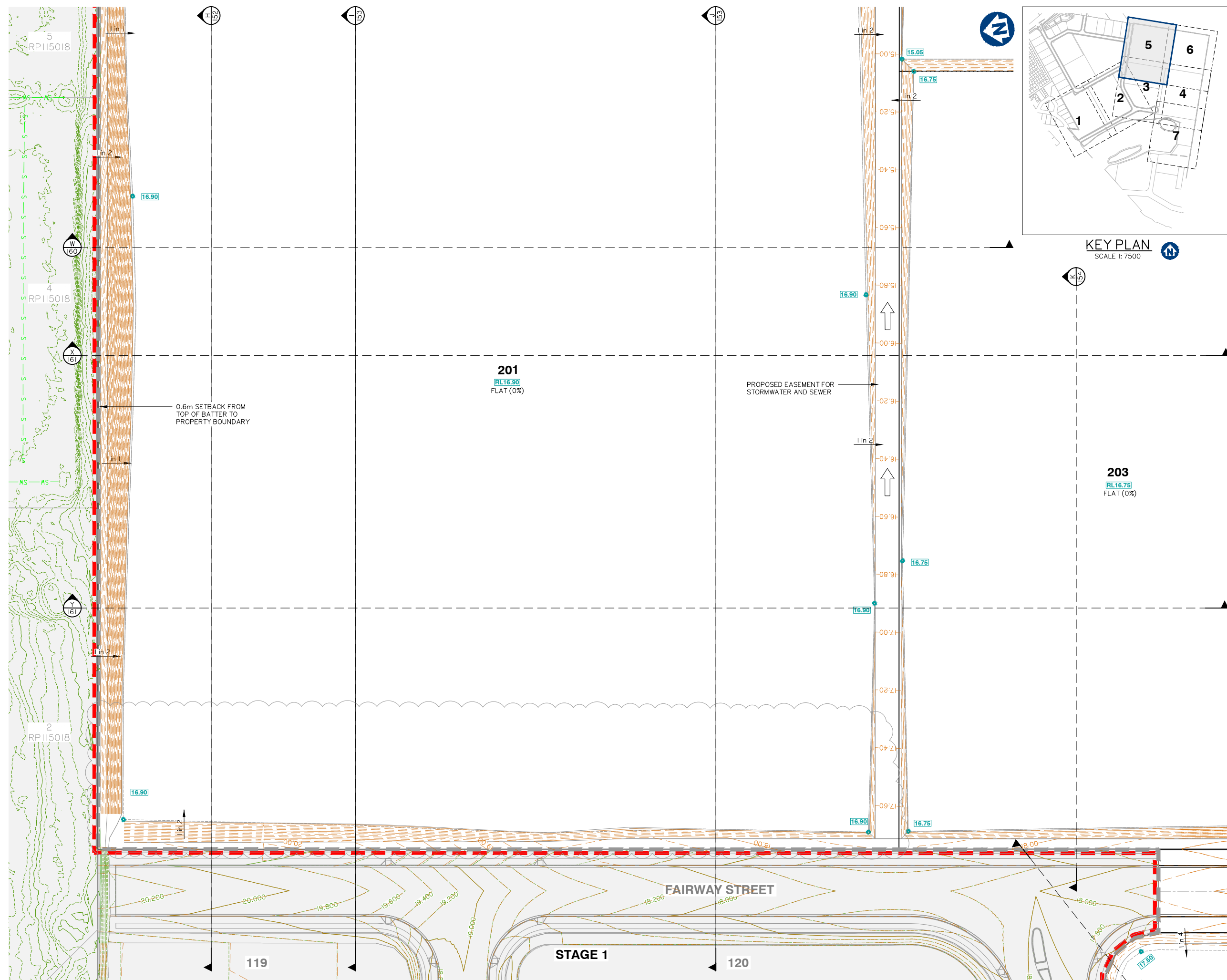
SCALE IN METRES

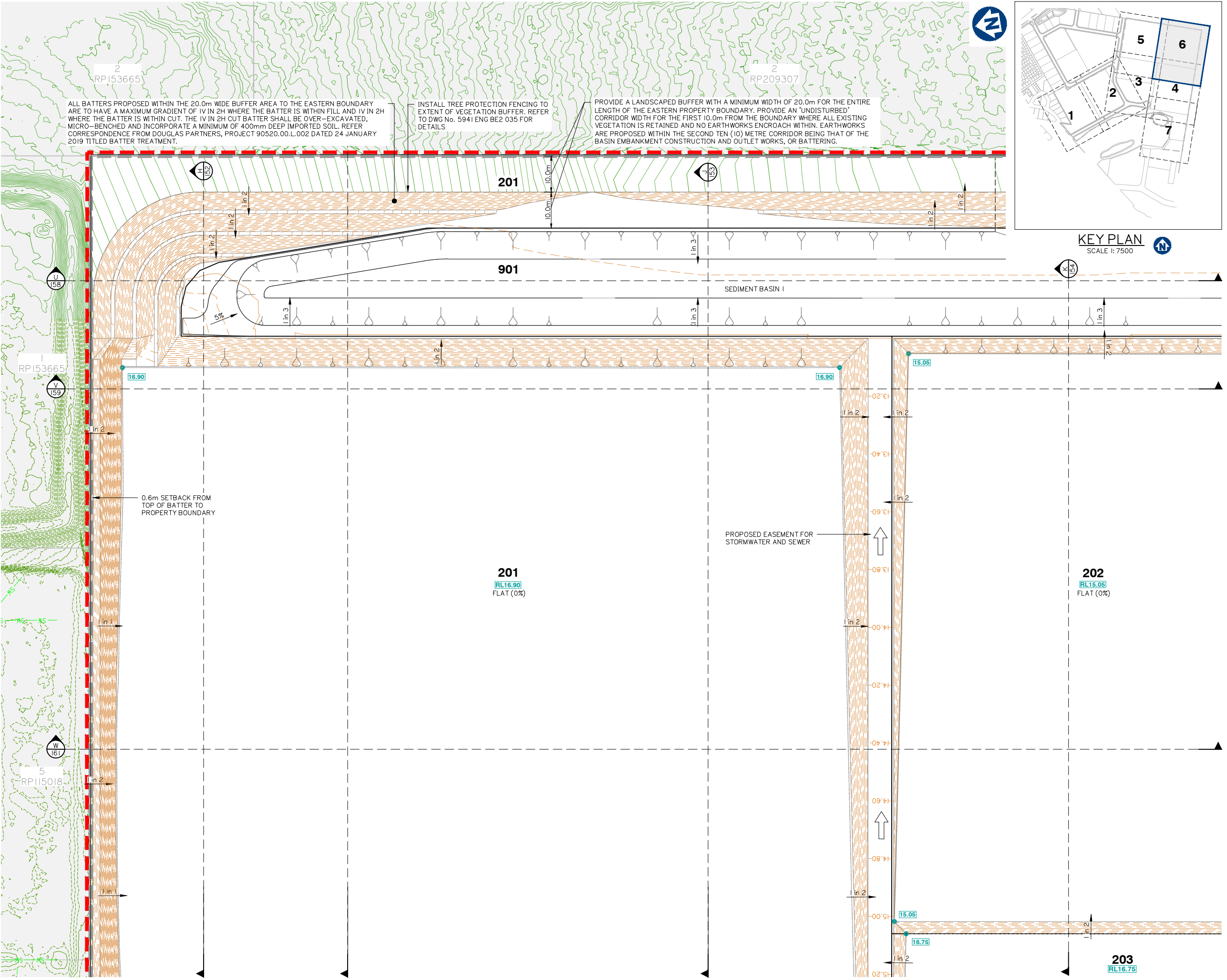


Scale at A1: 1:500

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

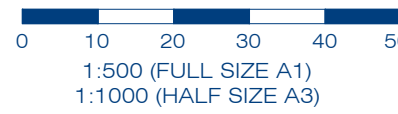
Drawing No:	Rev. No:
5941 ENG BE2 104	C





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

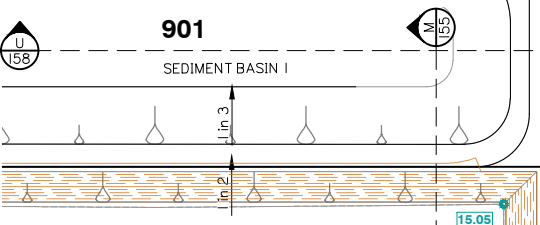
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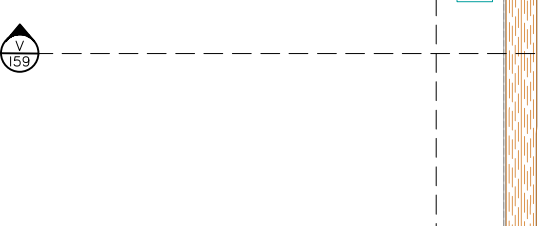
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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021



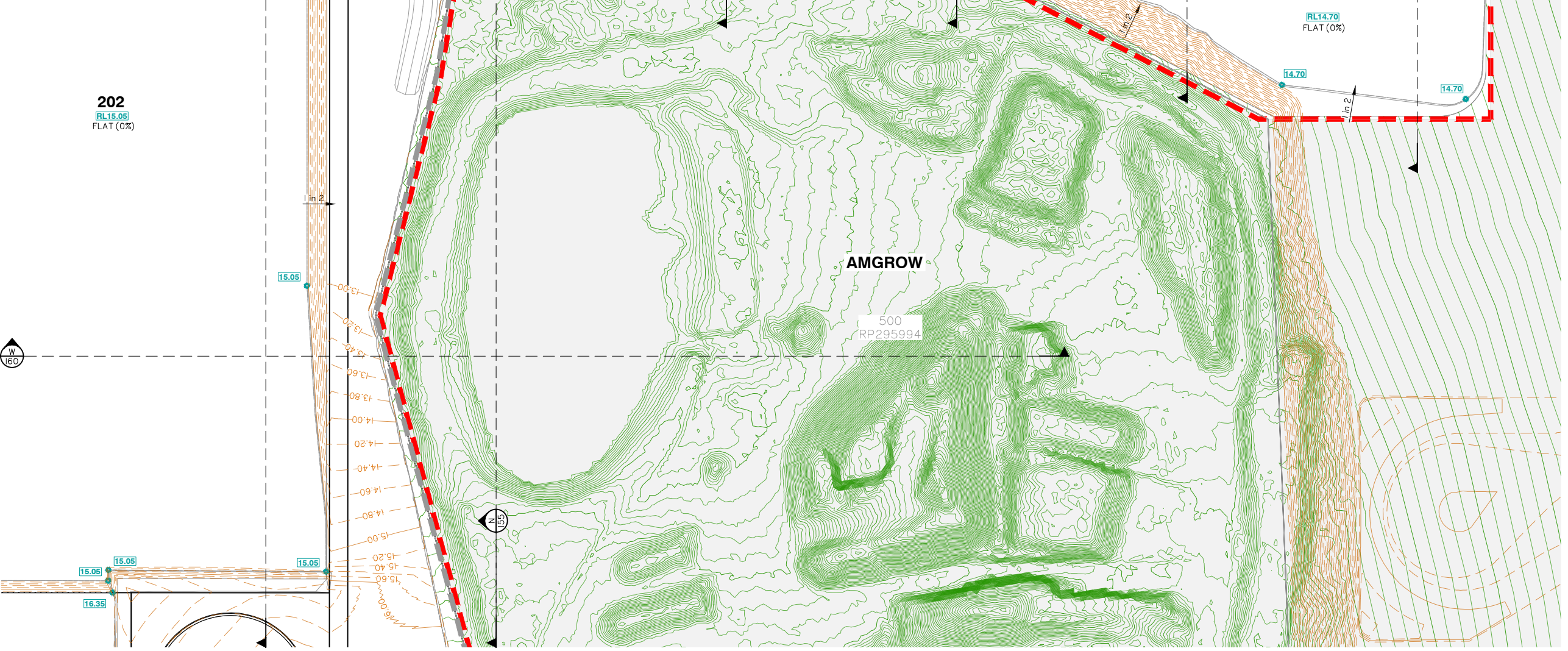
KEY PLAN
SCALE 1: 7500



901
SEDIMENT BASIN I



202
FLAT (0%)



FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 7 OF 7

Client:



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

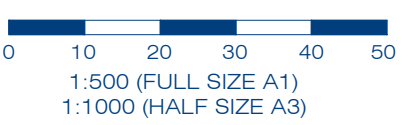
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

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

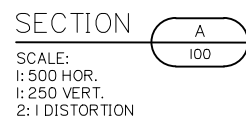
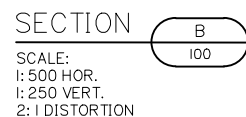
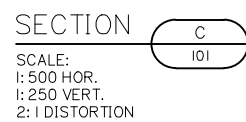
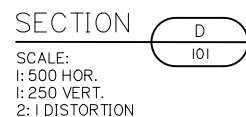
Issue	Date	Description	BA	MG	DRN	CHK
D	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG		
C	31-03-2021	INFORMATION REQUEST RESPONSE	IG	MG		
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-11-2020	ORIGINAL ISSUE	BA	MG		

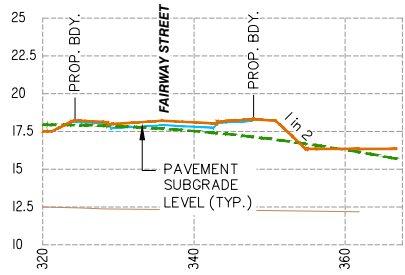
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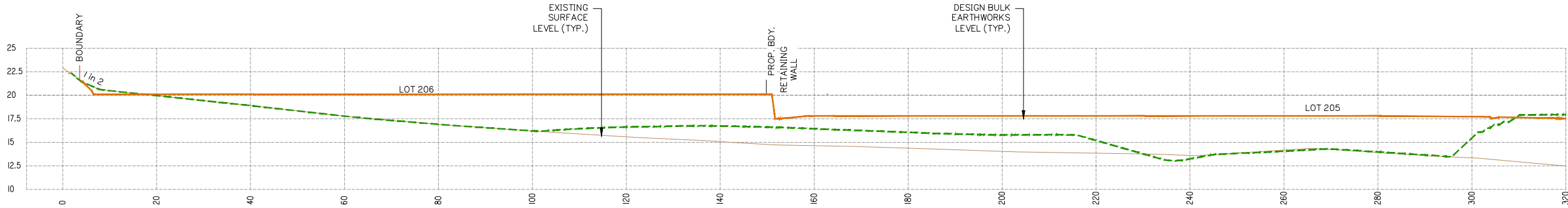
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Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No: 5941 ENG BE2 106
Rev. No: D

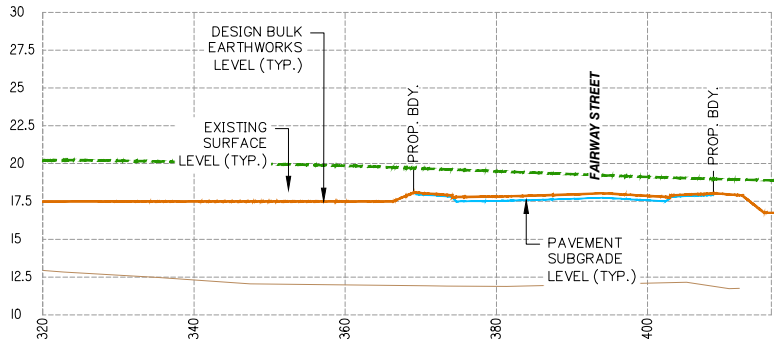




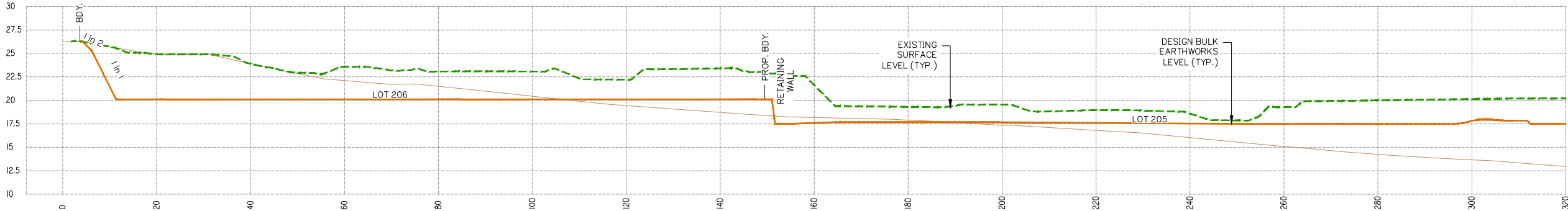
SECTION F
SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



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



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



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

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 11

D	09-11-2021	LOT 205 BOUNDARY AND EARTHWORKS	IG	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	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:	11-11-2021

Drawing No: 5941 ENG BE2 151
Rev. No: D

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11

Issue	Date	Description	DRN	CHK
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

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

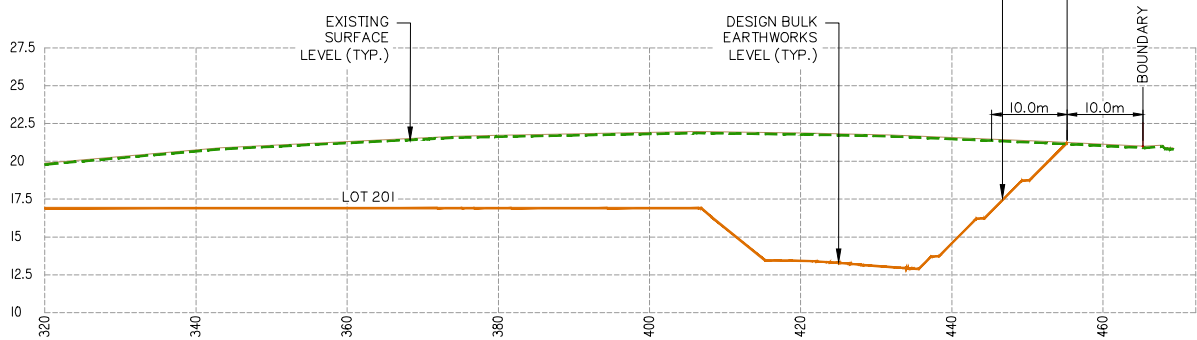
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Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-12-2021

Drawing No:
5941 ENG BE2 152

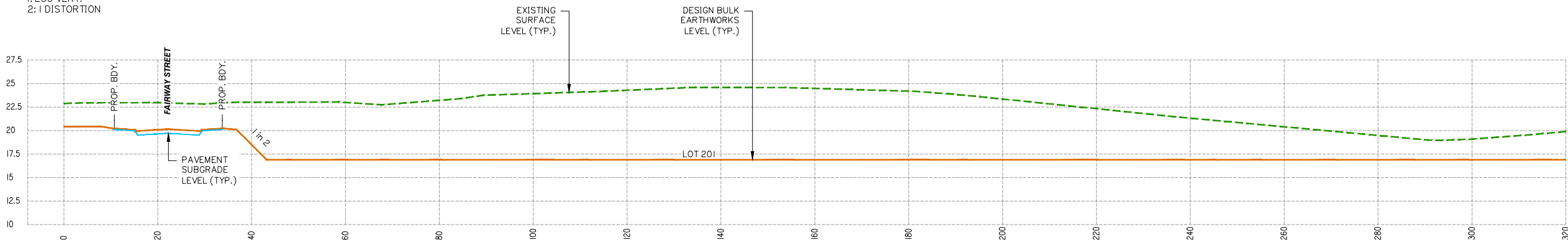
Rev. No:
F

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.

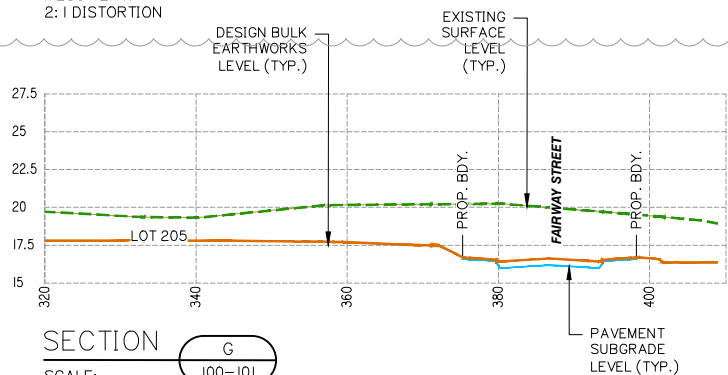
PROVIDE A LANDSCAPED BUFFER WITH A MINIMUM WIDTH OF 20.0m FOR THE ENTIRE LENGTH OF THE EASTERN PROPERTY BOUNDARY. PROVIDE AN 'UNDISTURBED' CORRIDOR WIDTH FOR THE FIRST 10.0m FROM THE BOUNDARY WHERE ALL EXISTING VEGETATION IS RETAINED AND NO EARTHWORKS ENCROACH WITHIN. EARTHWORKS ARE PROPOSED WITHIN THE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



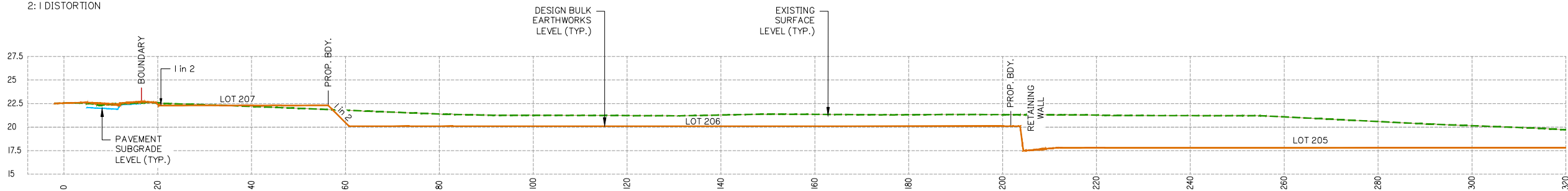
SECTION H
104-105
SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



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



Project: **VantageYatala**
STAGE 2

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

D	17-12-2021	BATTER ALONG FAIRWAY STREET REDUCED	DV	M	C
C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IQ	M	C
B	31/03/21	INFORMATION REQUEST RESPONSE	IQ	M	C
A	20-11-2020	ORIGINAL ISSUE	BA	M	C
Issue	Date	Description	DRN	CH	

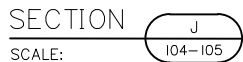
HOZ:

VERT:

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

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 ENCRATCH WITHIN. EARTHWORKS ARE PROPOSED WITHIN THE SECOND TEN (10) METRE CORRIDOR BEING THAT OF THE BASIN EMBANKMENT CONSTRUCTION AND OUTLET WORKS, OR BATTERING.



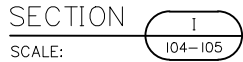
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1: 250 VERT.
2: 1 DISTORTION



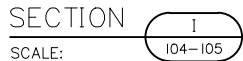
SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION

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.L002 DATED 24 JANUARY 2019 TITLED BATTER TREATMENT.

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



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



Project: **VantageYatala**
STAGE 2

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

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:
 Plot: 501
 Plan: SP295994
 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.

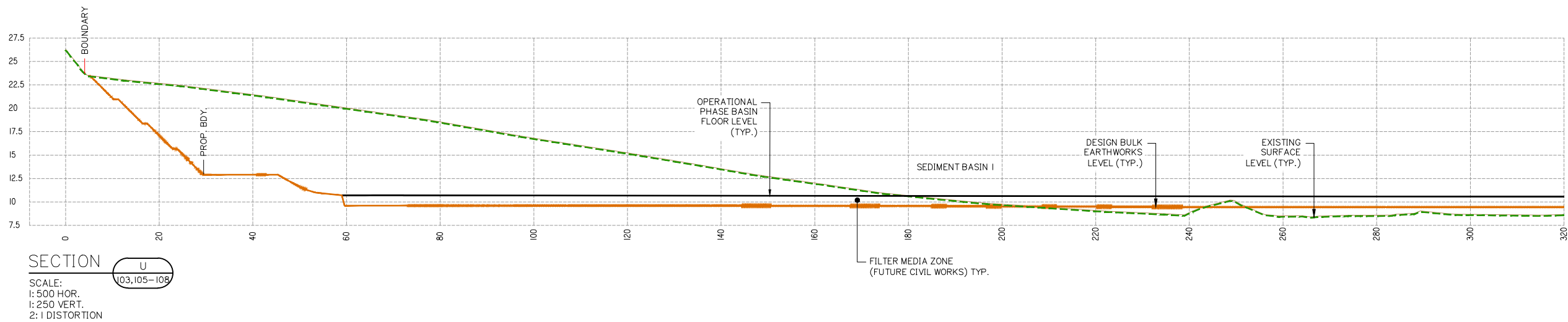
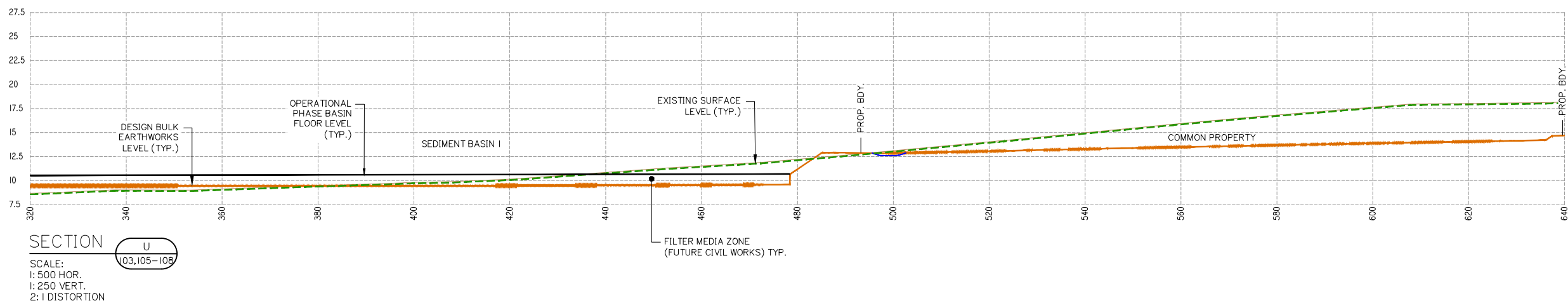
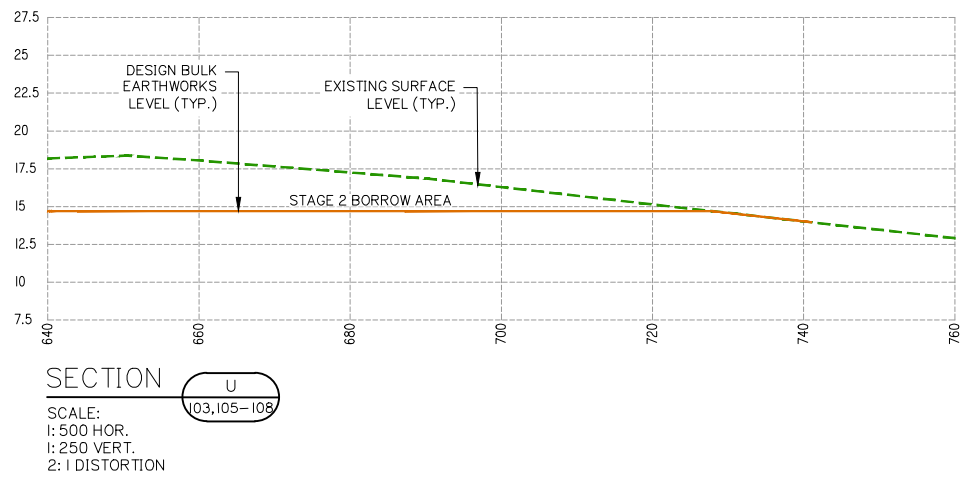
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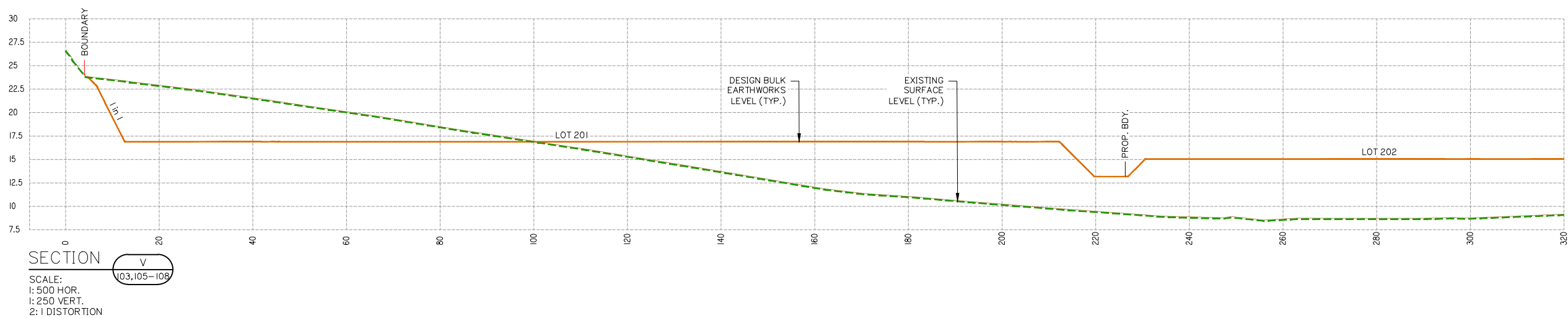
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Scale at A1: AS SHOWN

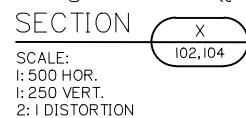
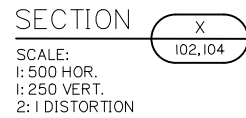
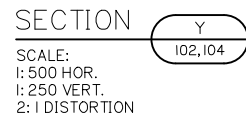
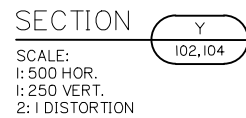
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
PEQ:	16939
Signed:	
Date:	24-09-2021

Drawing No:	Rev. N
041 ENG BE2 158	C





Drawing No:	Rev. No:
5941 ENG BE2 159	B



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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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 11 OF 11

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.

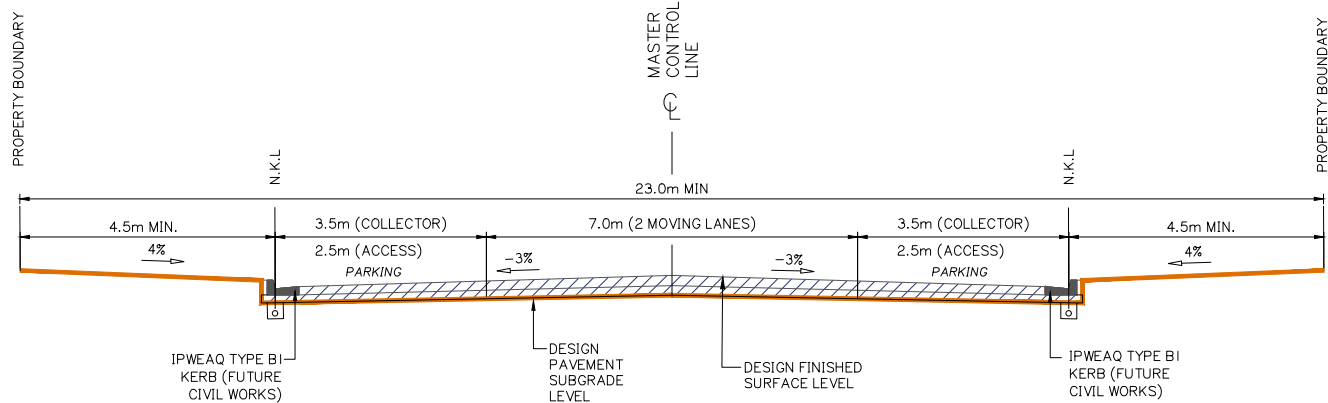
HOZ: 

VERT: 

Scale at A1: AS SHOWN

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

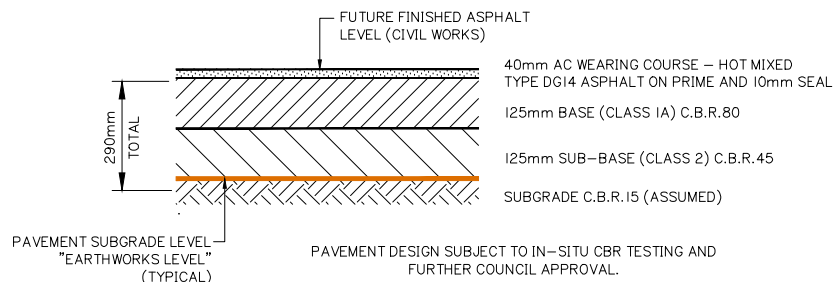
Drawing No:	Rev. No:
5941 ENG BE2 161	B



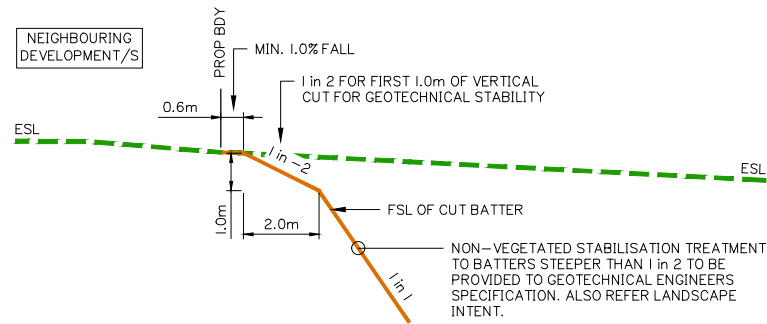
TYPICAL CROSS SECTION – INDUSTRIAL / COMMERCIAL
COLLECTOR AND ACCESS STREETS (23.0m)
FAIRWAY STREET AND ROAD 01

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

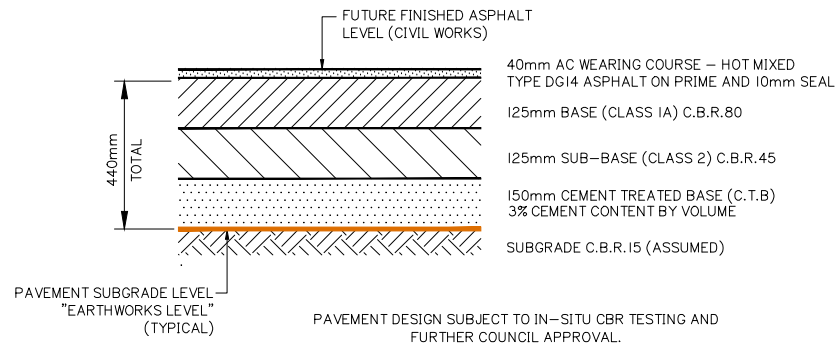
ONLY THE BULK EARTHWORKS IS APPLICABLE.
A SEPARATE APPLICATION WILL BE SUBMITTED
FOR THE CIVIL ROADWORKS ASSOCIATED WITH
THE RECONFIGURATION OF LOTS.



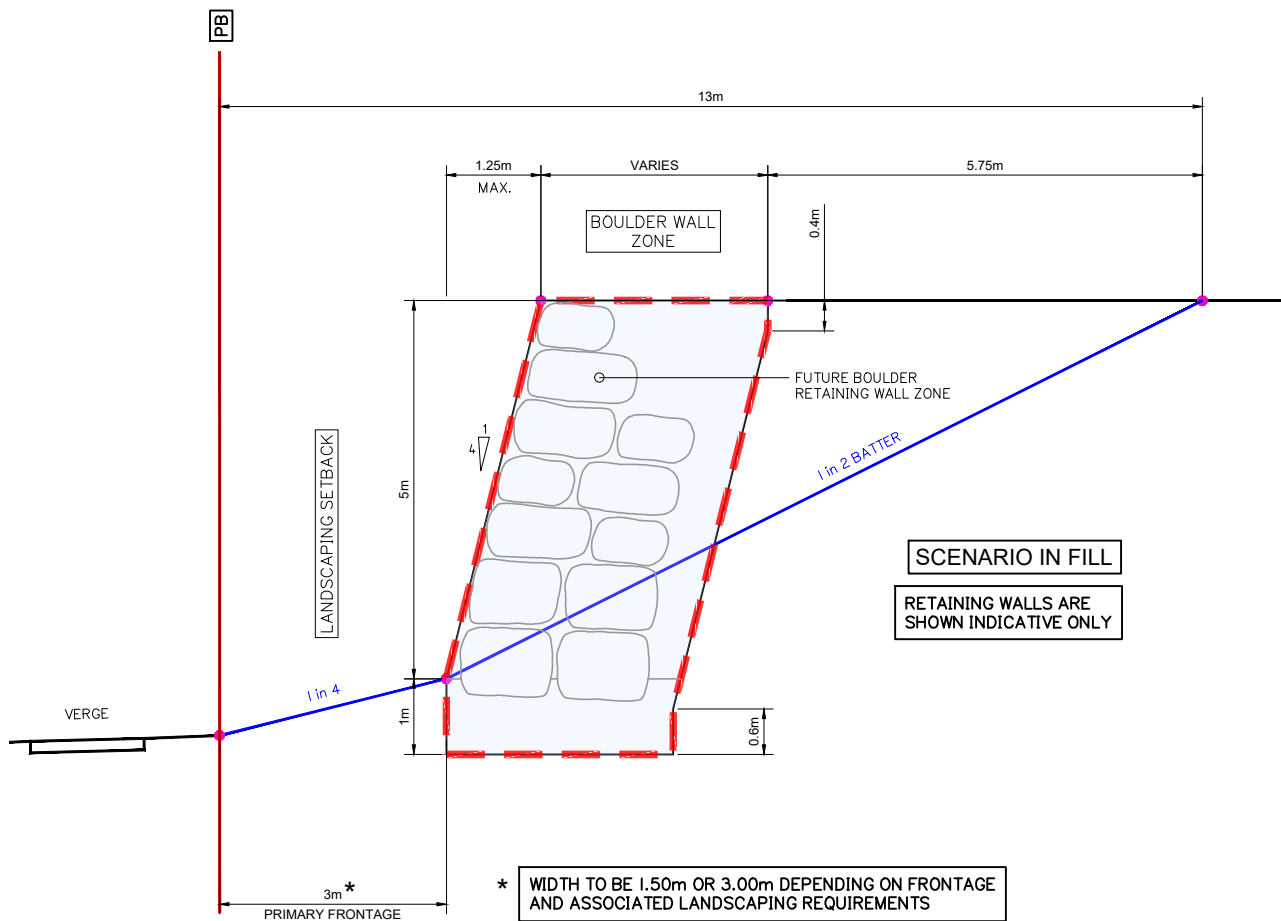
NOMINAL ROAD PAVEMENT DETAIL – IN FILL AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET N.T.S



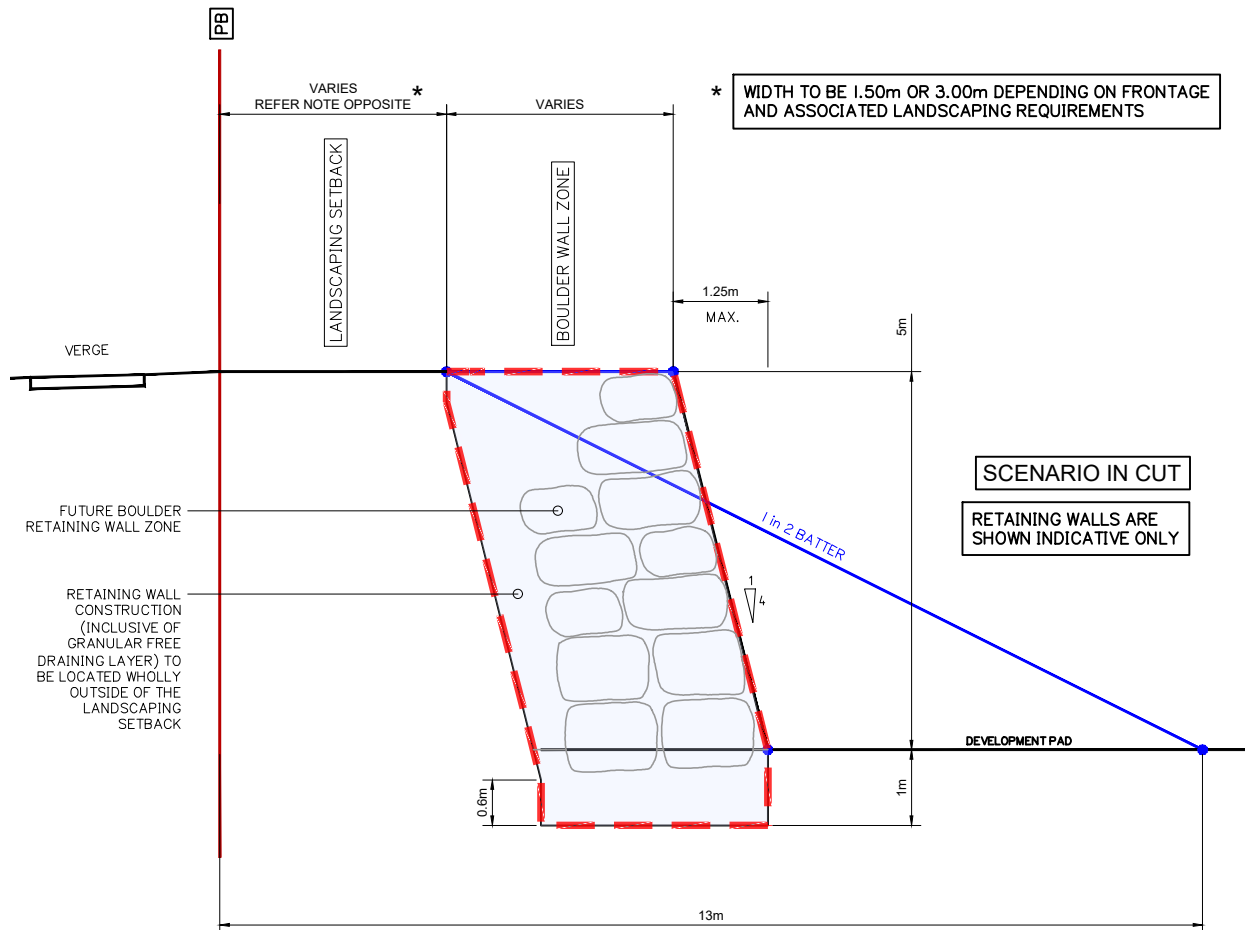
TYPICAL TOP OF CUT BATTER TREATMENT AT
NEIGHBOURING DEVELOPMENT INTERFACES SCALE 1: 100



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:



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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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		

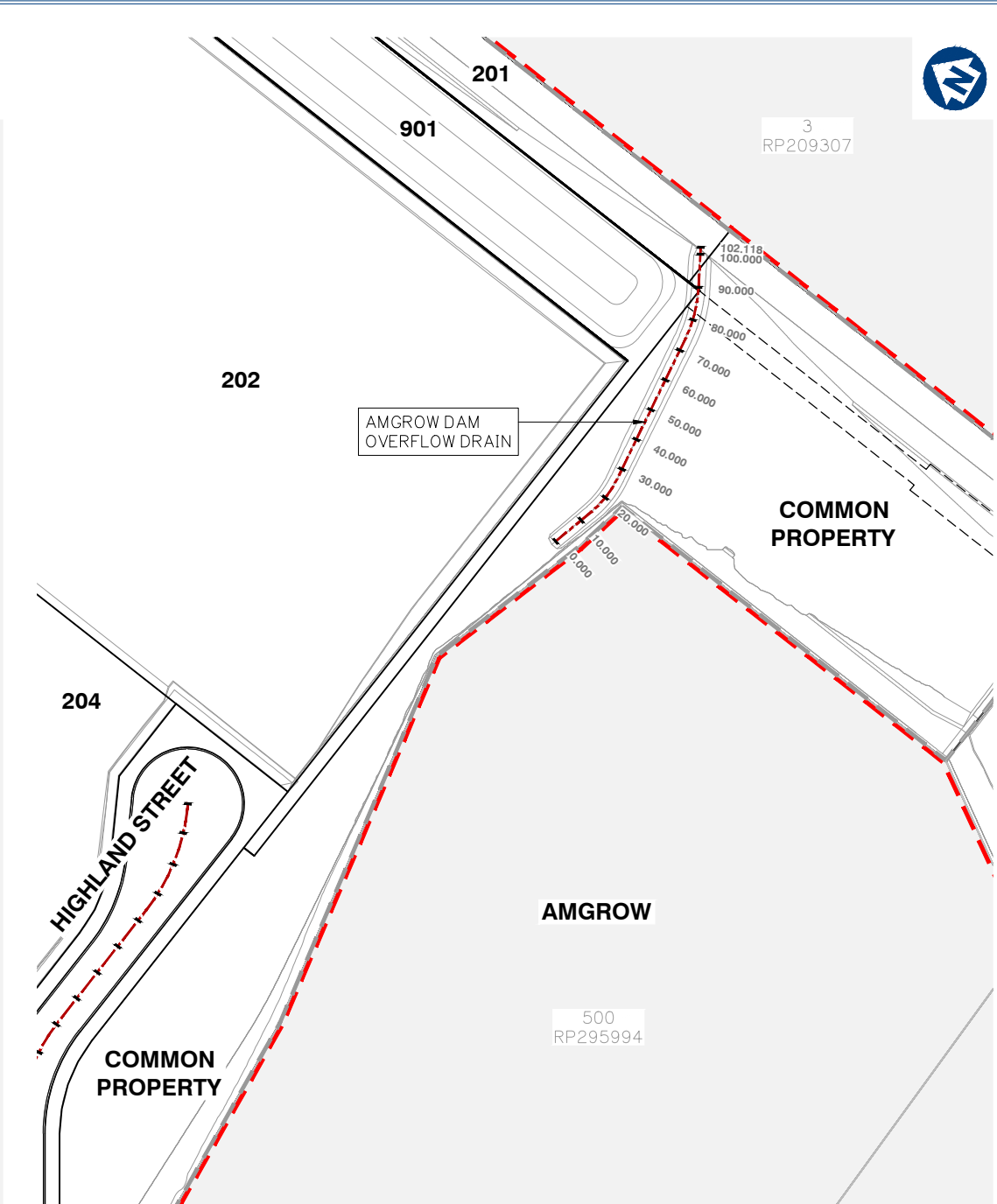
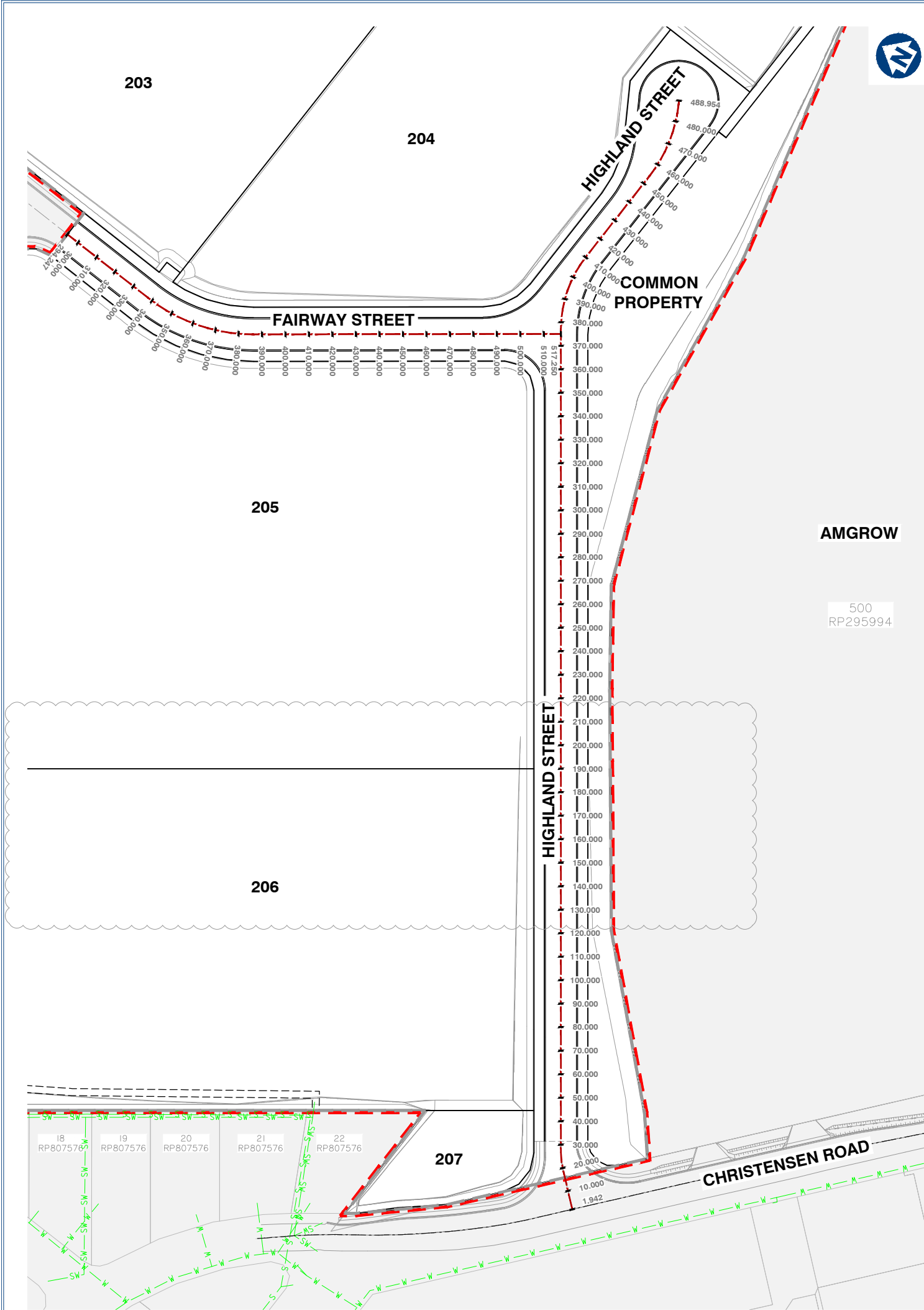
SCALE IN METRES

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



CONTROL LINE LAYOUT PLAN

Client:



Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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DRAWING TITLE
CONTROL LINE LAYOUT
PLAN

Issue	Date	Description	DRN	CHK
D	09-11-2021	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

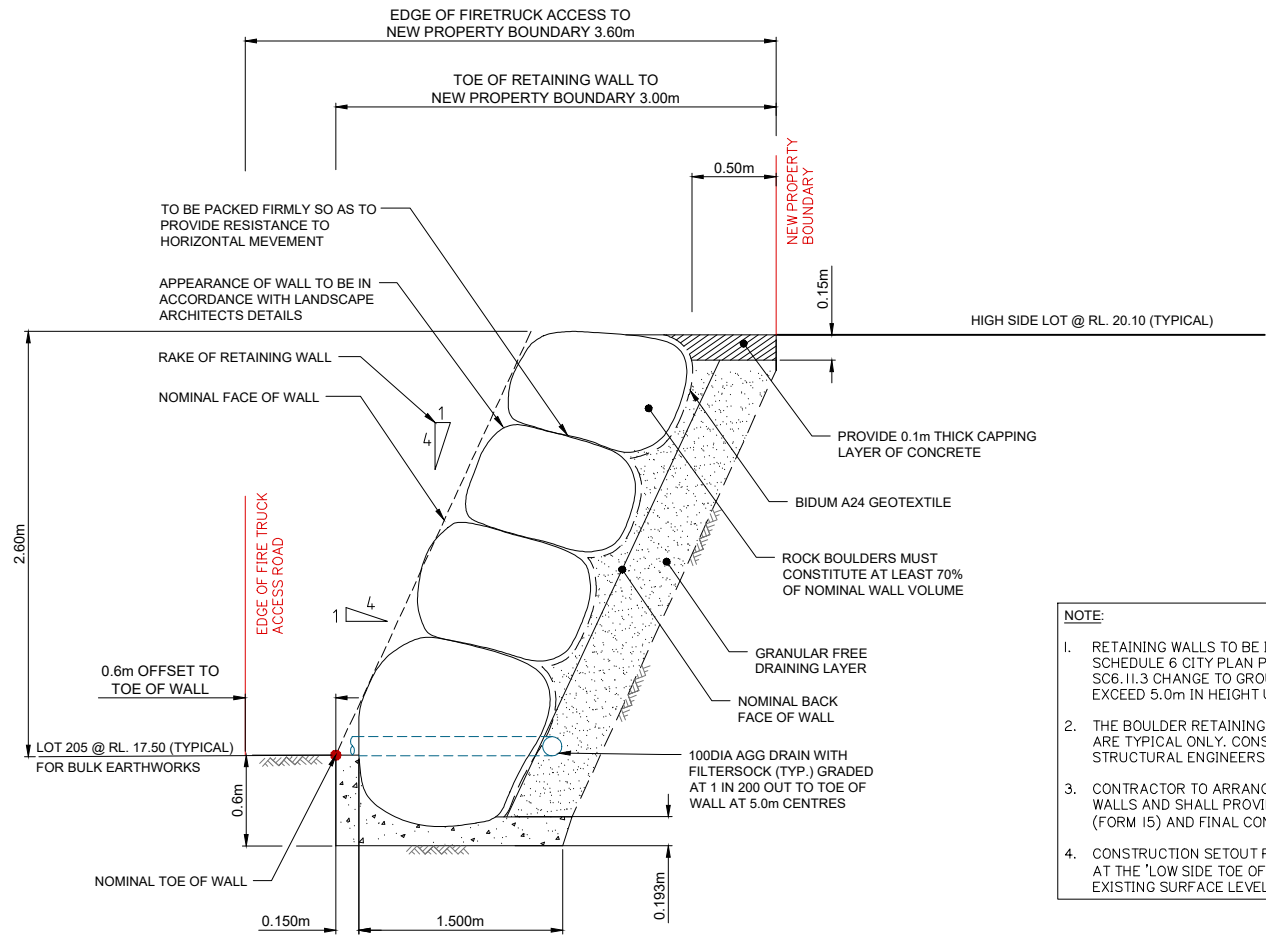
SCALE IN METRES
0 20 40 60 80 100
1:1000 (FULL SIZE A1)
1:2000 (HALF SIZE A3)

Scale at A1:	1:1000
Designed:	IG
Drafted:	IG / BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	11-11-2021

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

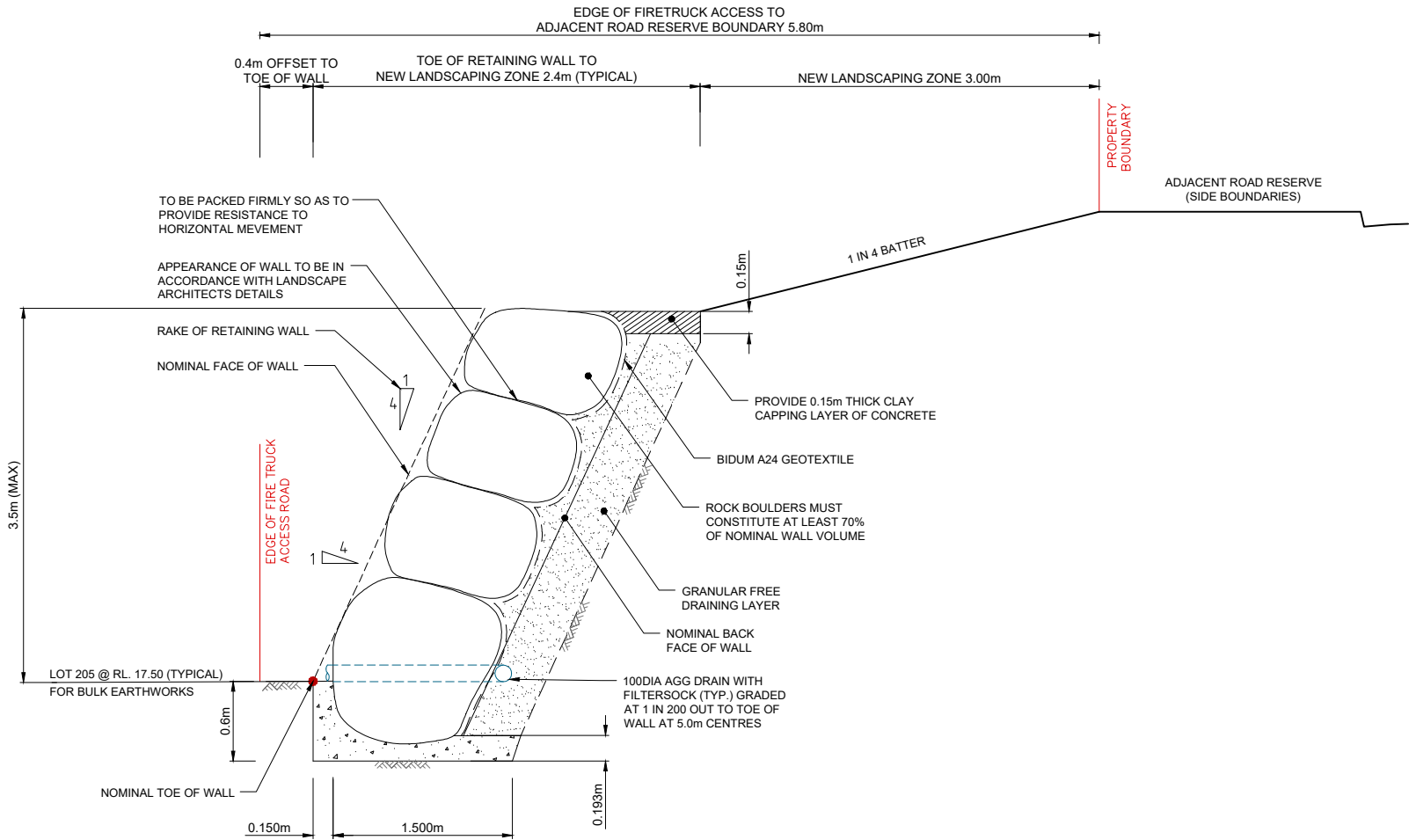






- NOTE:**
- RETAINING WALLS TO BE IN ACCORDANCE WITH CITY OF GOLD COAST SCHEDULE 6 CITY PLAN POLICY – LAND DEVELOPMENT GUIDELINES SC6.II.3 CHANGE TO GROUND LEVEL STANDARDS. THEY SHALL NOT EXCEED 5.0m IN HEIGHT UNLESS SUITABLY BENCHED.
 - THE BOULDER RETAINING WALL DETAILS SHOWN ON THIS DRAWING ARE TYPICAL ONLY. CONSTRUCTION TO BE UNDERTAKEN TO STRUCTURAL ENGINEERS SPECIFICATION.
 - CONTRACTOR TO ARRANGE FOR DESIGN AND CONSTRUCTION OF WALLS AND SHALL PROVIDE STRUCTURAL CERTIFICATION OF DESIGN (FORM I5) AND FINAL CONSTRUCTION (FORM I6).
 - CONSTRUCTION SETOUT POINT FOR BOULDER WALLS IS TYPICALLY AT THE 'LOW SIDE TOE OF WALL' WHERE IT INTERFACES WITH EXISTING SURFACE LEVEL OR THE LOW SIDE PAD FSL.

TYPICAL 1 SECTION BOULDER
RETAINING WALL ALONG REAR BOUNDARY



TYPICAL SECTION 2 BOULDER RETAINING
WALL WITH 3m LANDSCAPING

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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DRAWING TITLE

BOULDER RETAINING
WALL TYPICAL DETAILS

B	10-02-2022	ISSUED FOR TENDER	DV	MG	
A	11-11-2021	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

NOT APPLICABLE

Scale at A1: NTS

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

Drawing No:
5941 ENG BE2 422

Rev. No:
B



Project:

VantageYatala

STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
Meridian: -
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DRAWING TITLE
BOULDER RETAINING
WALL LONGITUDINAL
SECTION RW1

B	10-02-2022				ISSUED FOR TENDER	DV	MG		
A	10-11-2021				ORIGINAL ISSUE	BA	MO		
Issue	Date				Description	DRN	CHK		

SCALE IN METRES



1:200 (FULL SIZE A1)
1:400 (HALF SIZE A3)

Scale at A1:

AS NOTED

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

Drawing No:
5941 ENG BE2 423

Rev. No:
B

[illegible]

A1 SCALE: HOR 1:200
VERT 1:50

MAXIMUM HEIGHT OF WALL: 3.485m

FACE AREA: 259m2



A1 SCALE: HOR 1:200
VERT 1:50

DATUM 14.00

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

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
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RPD:

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

BOULDER RETAINING
WALL LONGITUDINAL
SECTION RW2

B	10-02-2022	ISSUED FOR TENDER	DV	MC
A	10-11-2021	ORIGINAL ISSUE	BA	MC
Issue	Date	Description	DRN	CH

SCALE IN METRES



1:200 (FULL SIZE A1)
1:400 (HALF SIZE A3)

Scale at A1: AS NOTED

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

Drawing No:
5941 ENG BE2 424

Rev. No:
B

RETAINING WALL 1 - RW1 HORIZONTAL POINTS					
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 - RW2 HORIZONTAL POINTS					
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"
	126.928	2683.108	6529.228	18.523	61°00'47.00"
IP 2					

RETAINING WALL 3 - RW3 HORIZONTAL POINTS					
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"
	10.257	2470.029	6674.142	19.575	
	10.257	2470.029	6674.142	19.575	
	10.257	2470.029	6674.142	19.575	
	10.257	2470.029	6674.142	19.575	
	11.257	2470.904	6674.627	19.568	
	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"



planning | environment | landscape | engineering | survey
T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

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
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RPD:

Lot: 501
Plan: SP295994
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COUNCIL
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Meridian: -
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DRAWING TITLE

BOULDER WALL
SETOUT TABLES

B	10-09-2022	ISSUED FOR TENDER	DV	MG	
A	10-11-2021	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	

Scale at A1: AS NOTED

Designed: IG

Drafted: BA

Approved: MG

RPEQ: 16939

Signed: 

Date: 10-02-2022

Drawing No:
5941 ENG BE2 426

Rev. No:
B

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
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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	
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 / I AB
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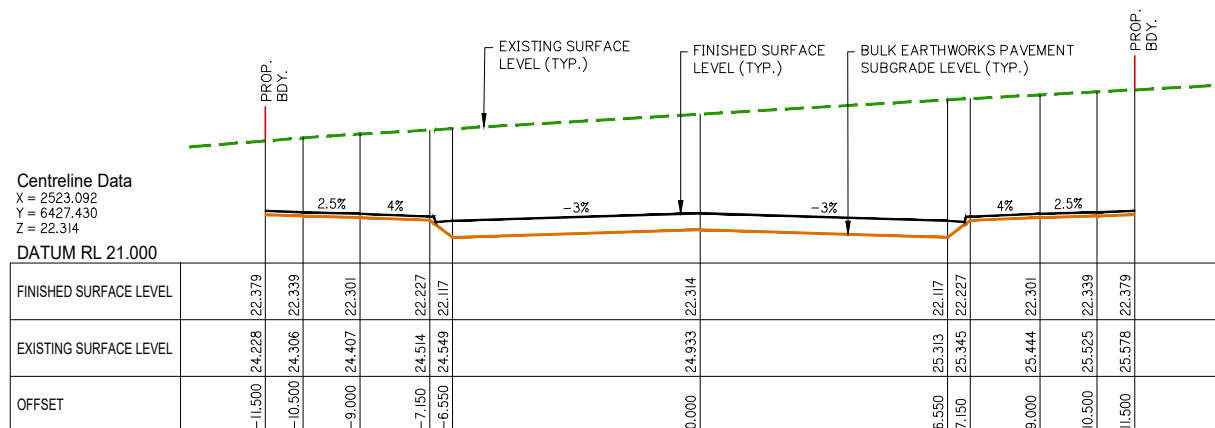
Approved:	MG
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RPEQ:	16939
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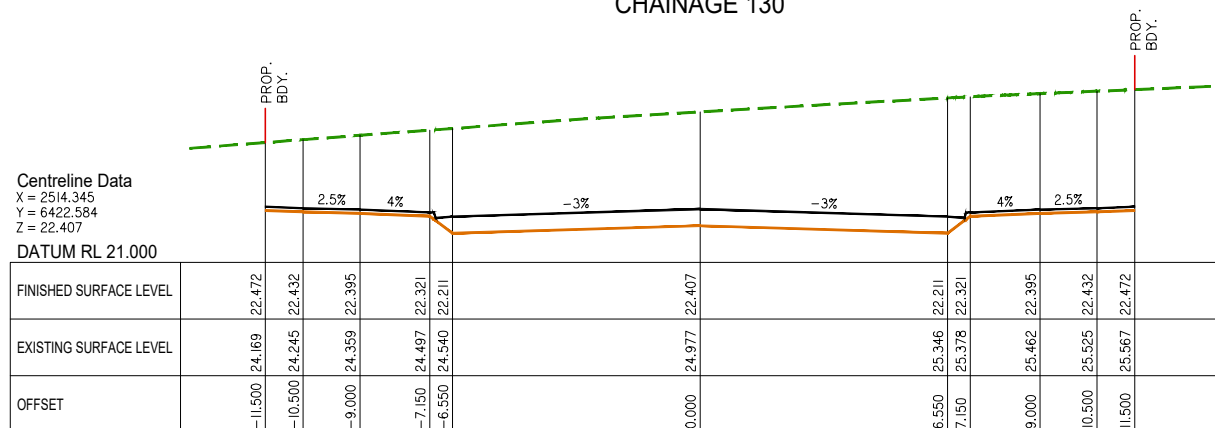
Signed:	
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Date:	24-09-2021
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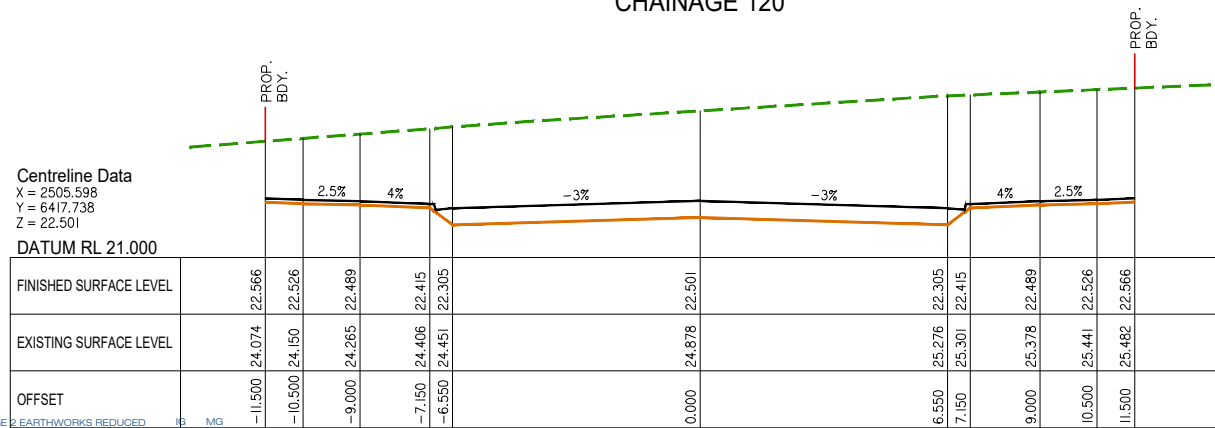
Drawing No:	Rev. No:
5941 ENG BE2 431	B



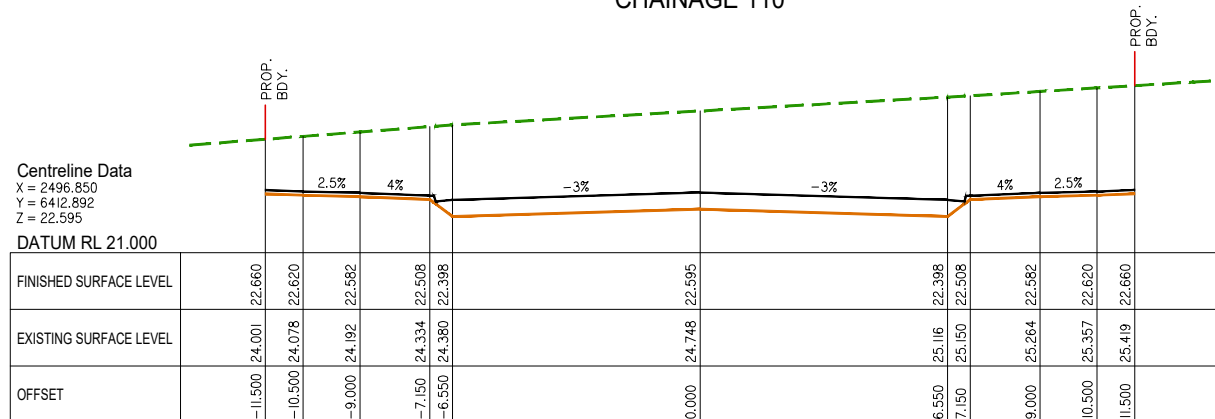
CHAINAGE 130



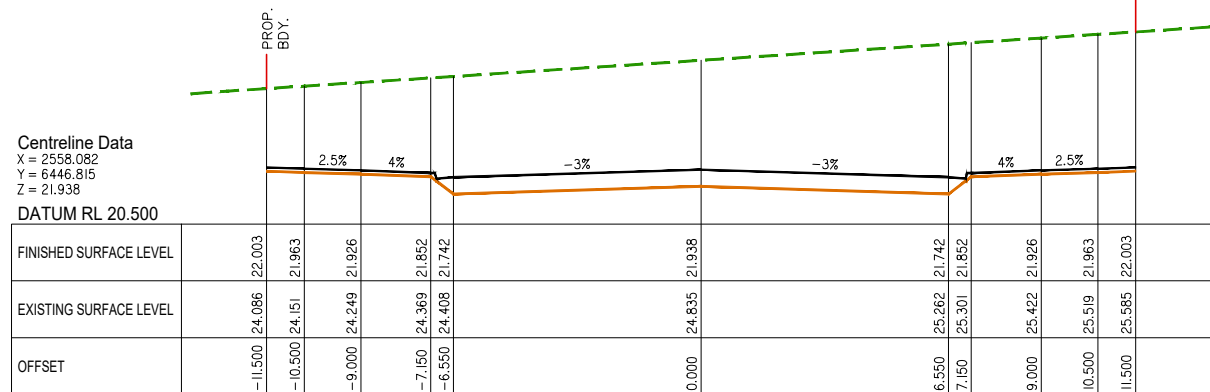
CHAINAGE 120



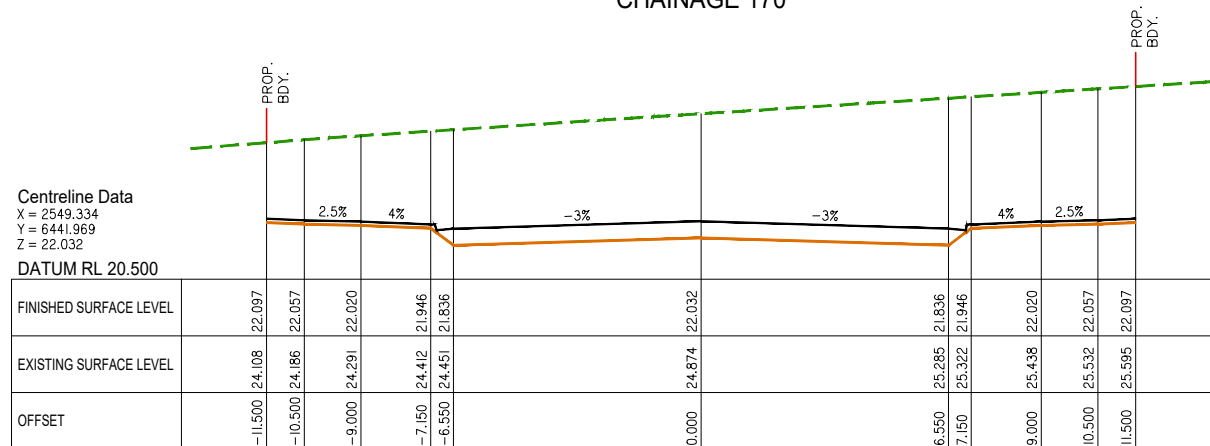
CHAINAGE 110



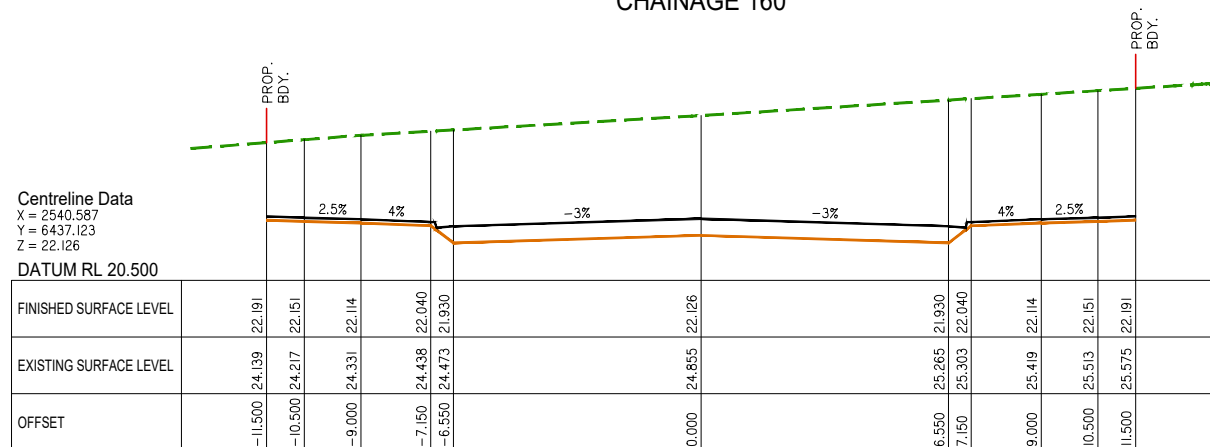
CHAINAGE 100



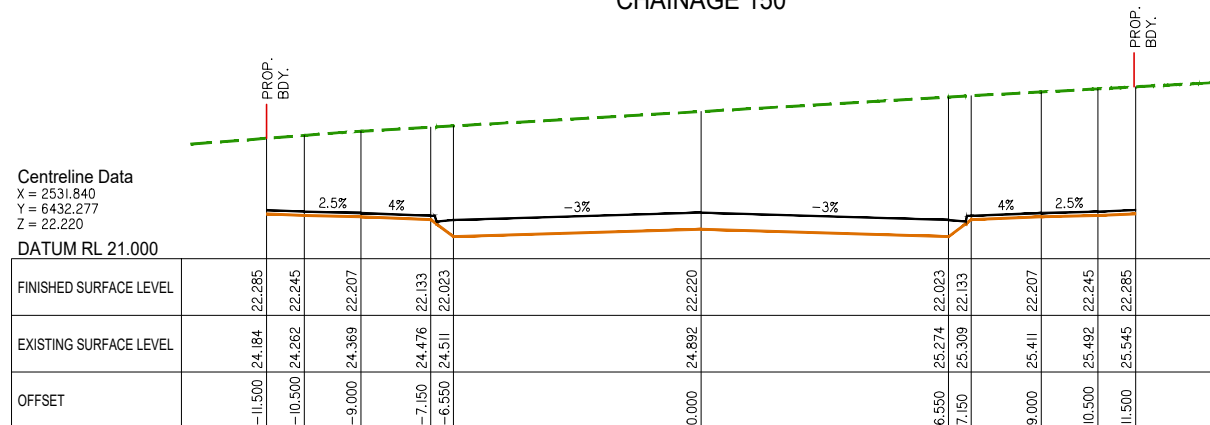
CHAINAGE 170



CHAINAGE 160



CHAINAGE 150



CHAINAGE 140

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

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ROAD, STAPYLTON QLD 4207

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RPD:

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DRAWING TITLE

ROAD 01 CROSS SECTIONS
SHEET 4 OF 8

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

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ: 

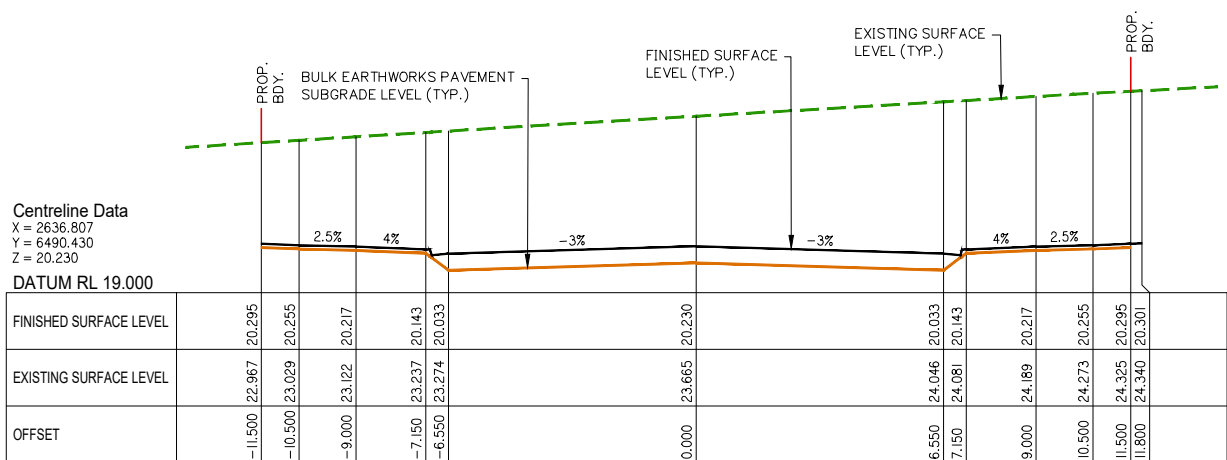
Scale 1:100 - Lengths are in Metres.

VERT: 

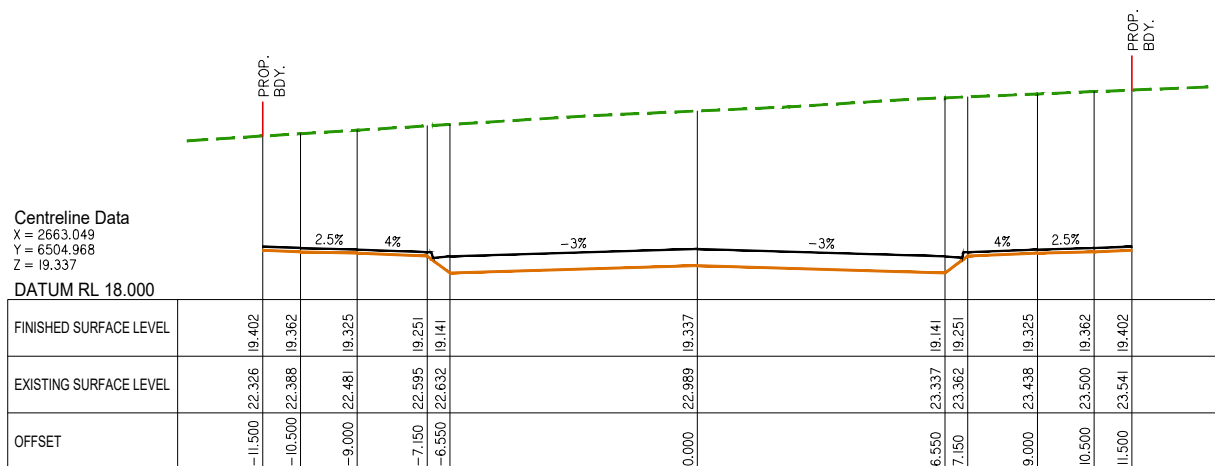
Scale at A1: AS SHOWN

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

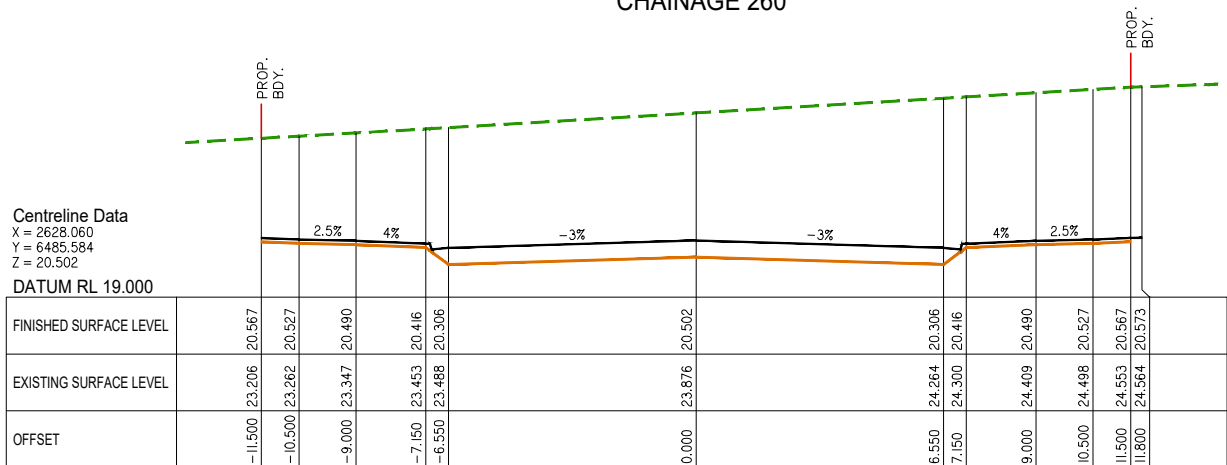
Drawing No:	Rev. No:
5941 ENG BE2 433	B



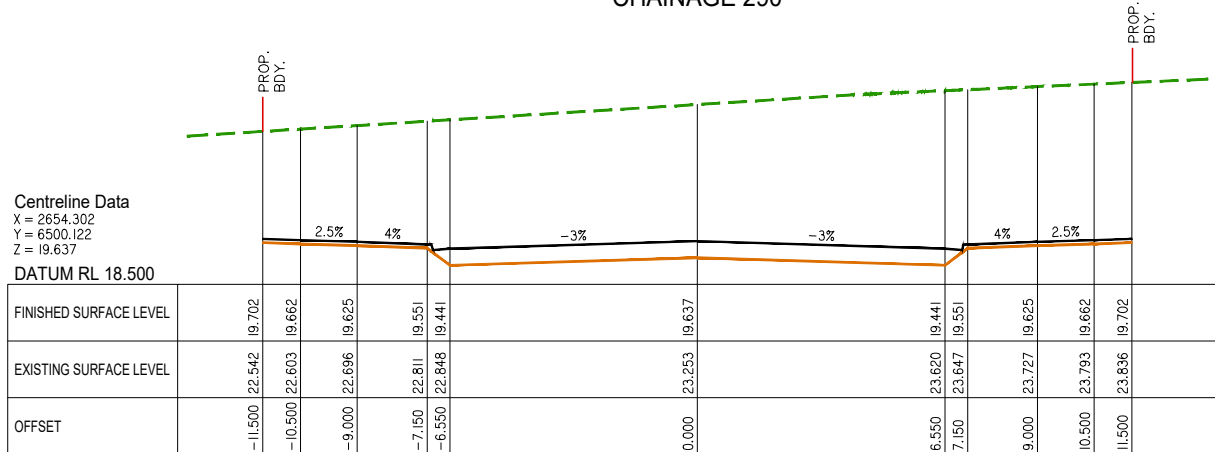
CHAINAGE 260



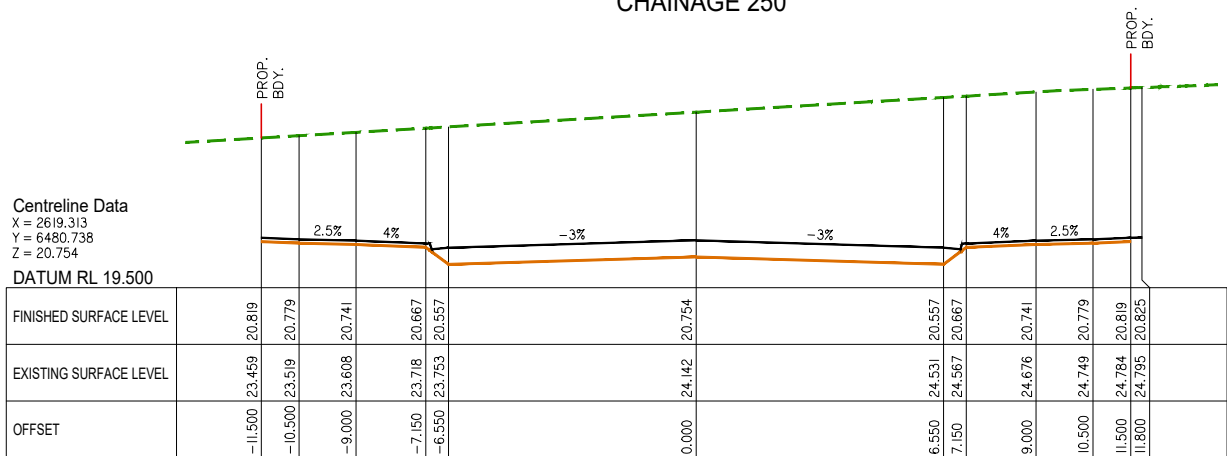
CHAINAGE 290



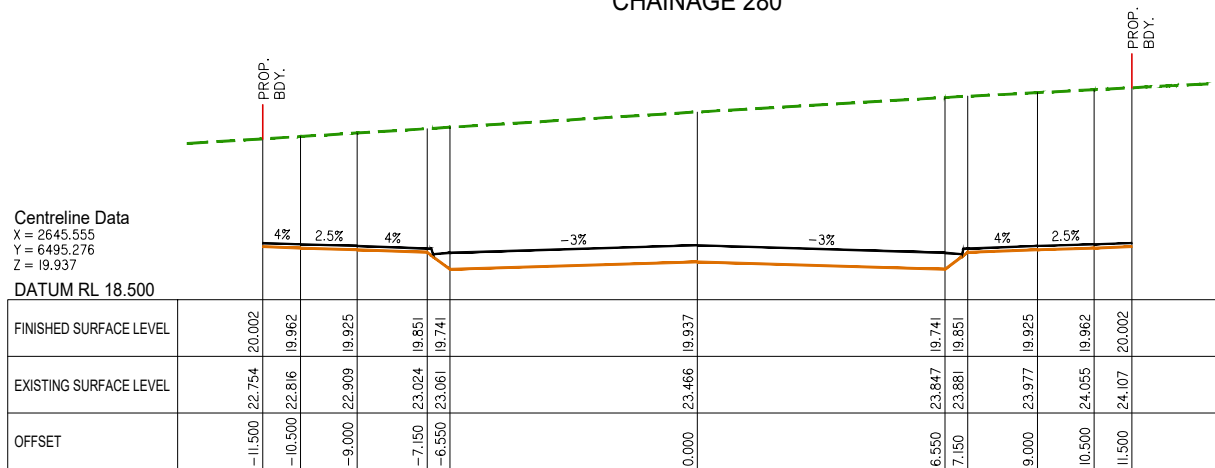
CHAINAGE 250



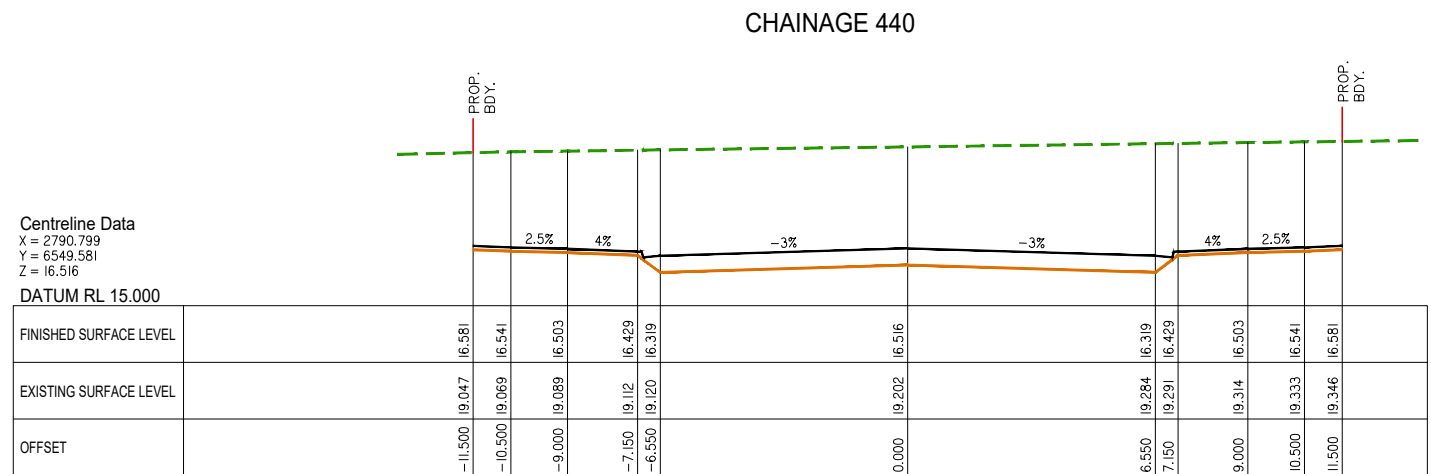
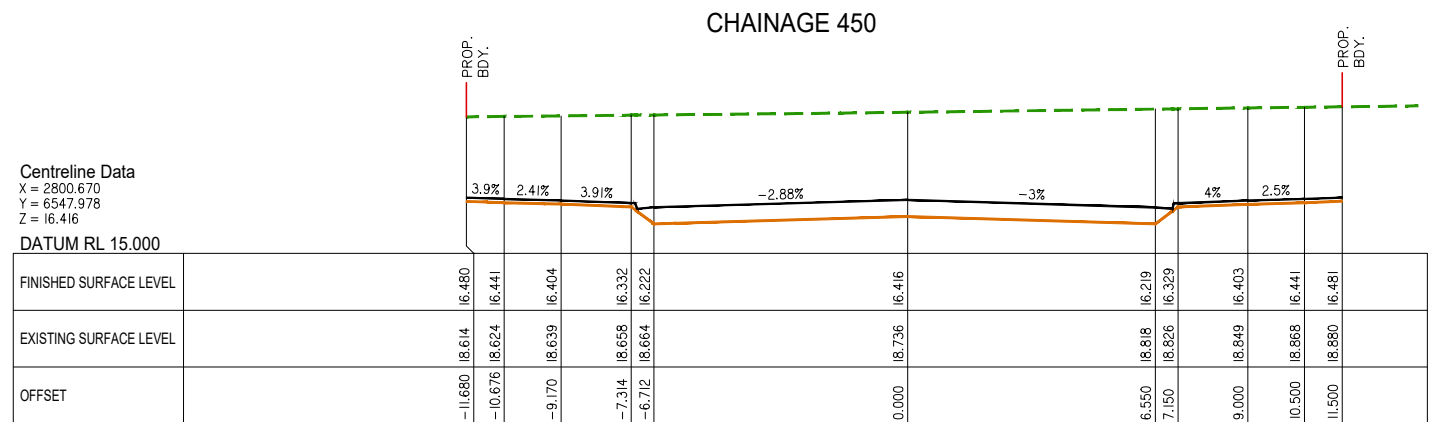
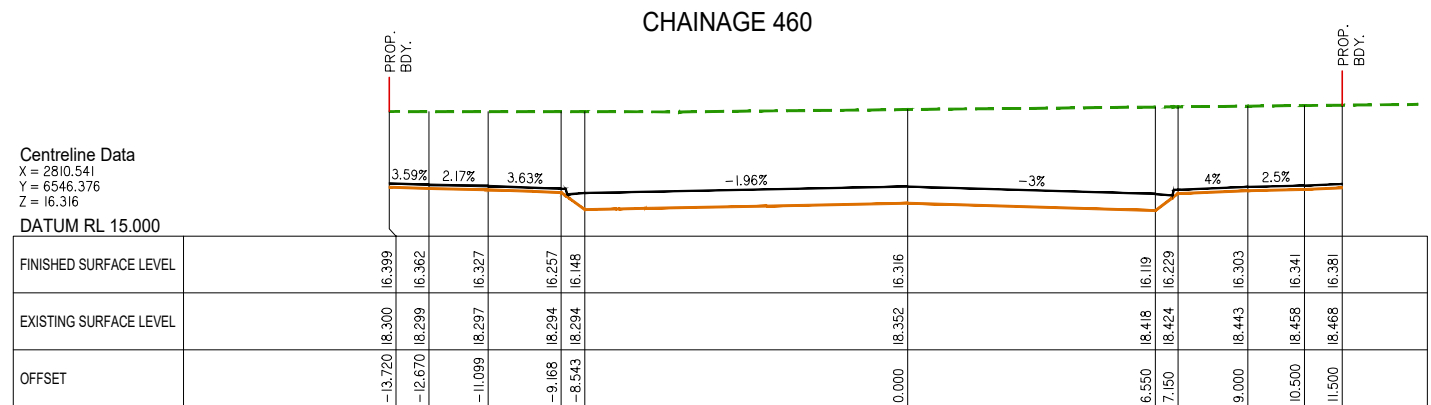
CHAINAGE 280



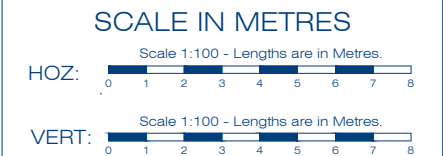
CHAINAGE 240



CHAINAGE 270



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



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





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(AUSTRALIA) PTY. LTD.

VantageYatala

STAGE 2

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

Lot:	501
Plan:	SP295994
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: 

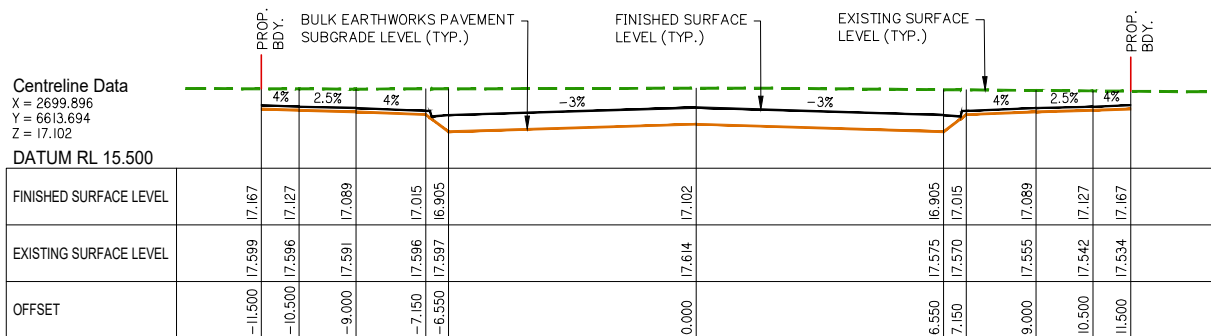
Scale 1:100 - Lengths are in Metres.

VERT: 

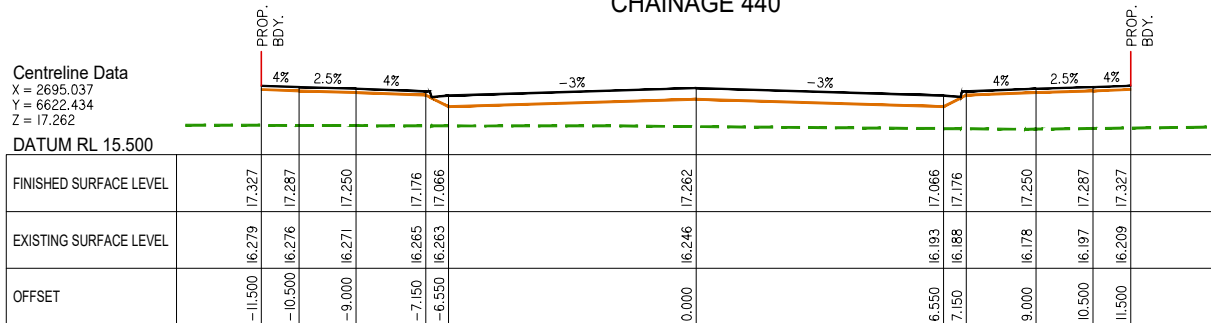
Scale at A1: AS SHOWN

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

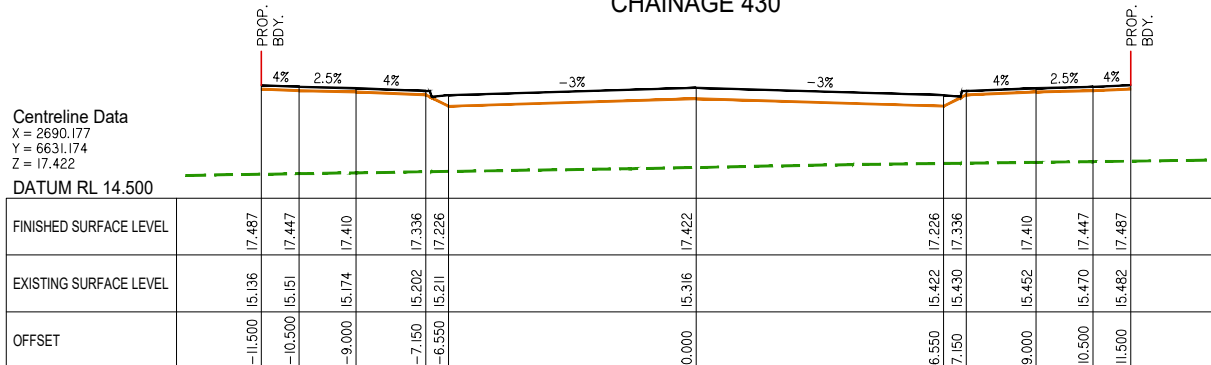
Drawing No:	Rev. No:
5941 ENG BE2 440	B



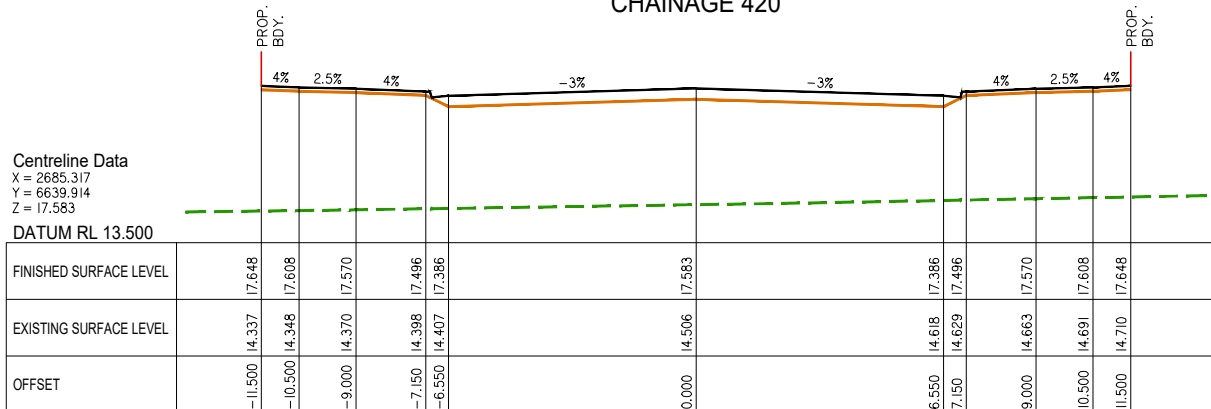
CHAINAGE 440



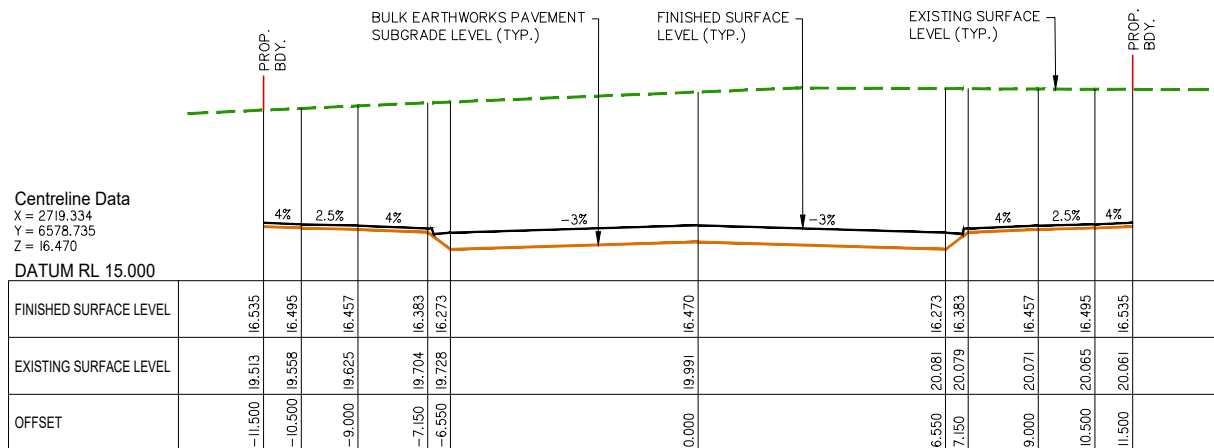
CHAINAGE 430



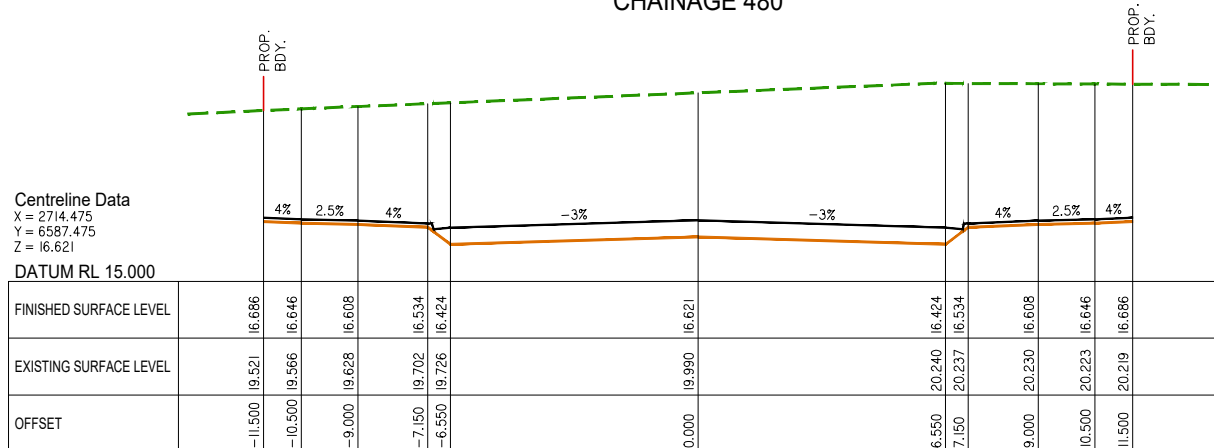
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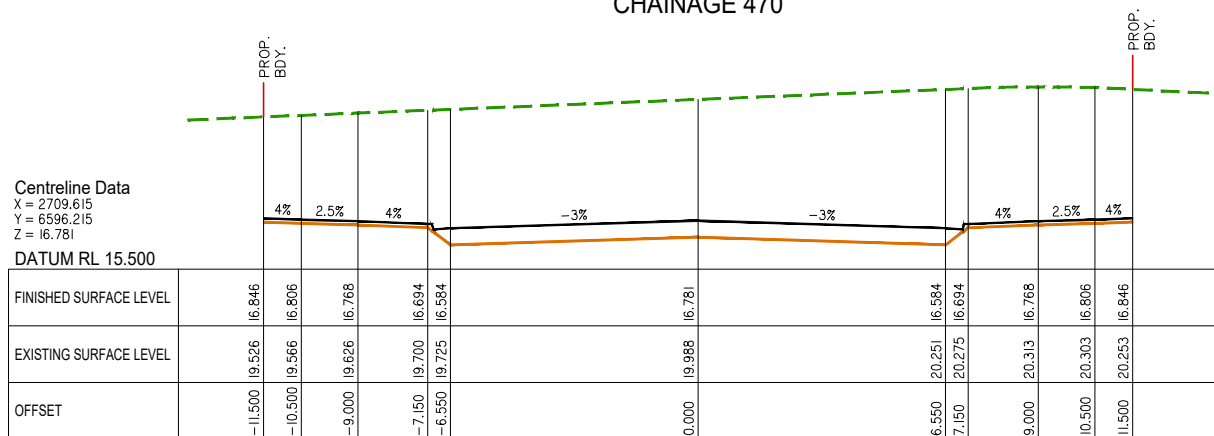
CHAINAGE 410



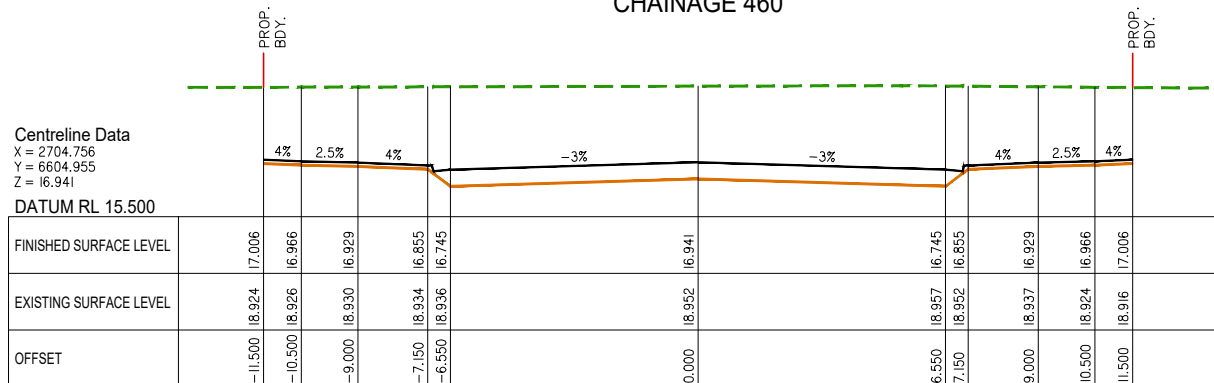
CHAINAGE 480



CHAINAGE 470



CHAINAGE 460



CHAINAGE 450



Project: **VantageYatala**
STAGE 2

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

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DRAWING TITLE

[illegible]SCALE IN METRES

Scale at A1: AS SHOWN

[illegible]

Drawing No:	Rev. No:
5941 ENG BE2 441	B





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

RPD:
 Plot: 501
 Plan: SP295994
 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

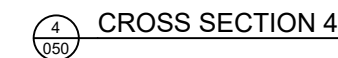
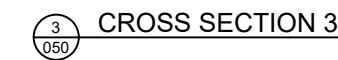
SCALE IN METRES

2 4 6 8 10

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

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

Drawing No:	Rev. N
041 ENG BE2 443	C



ROAD USER SAFETY CROSS SECTIONS – SHEET 2 OF 5

Client:



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: -
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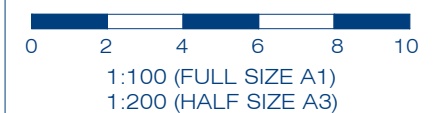
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

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	

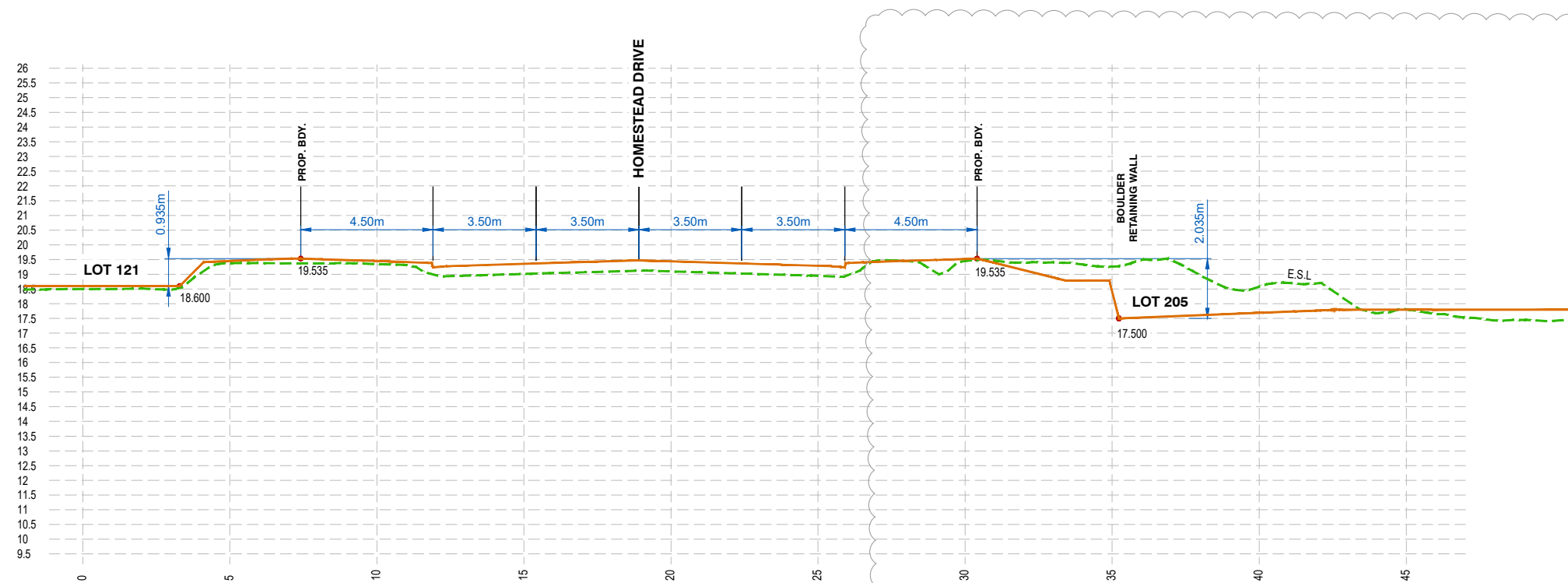
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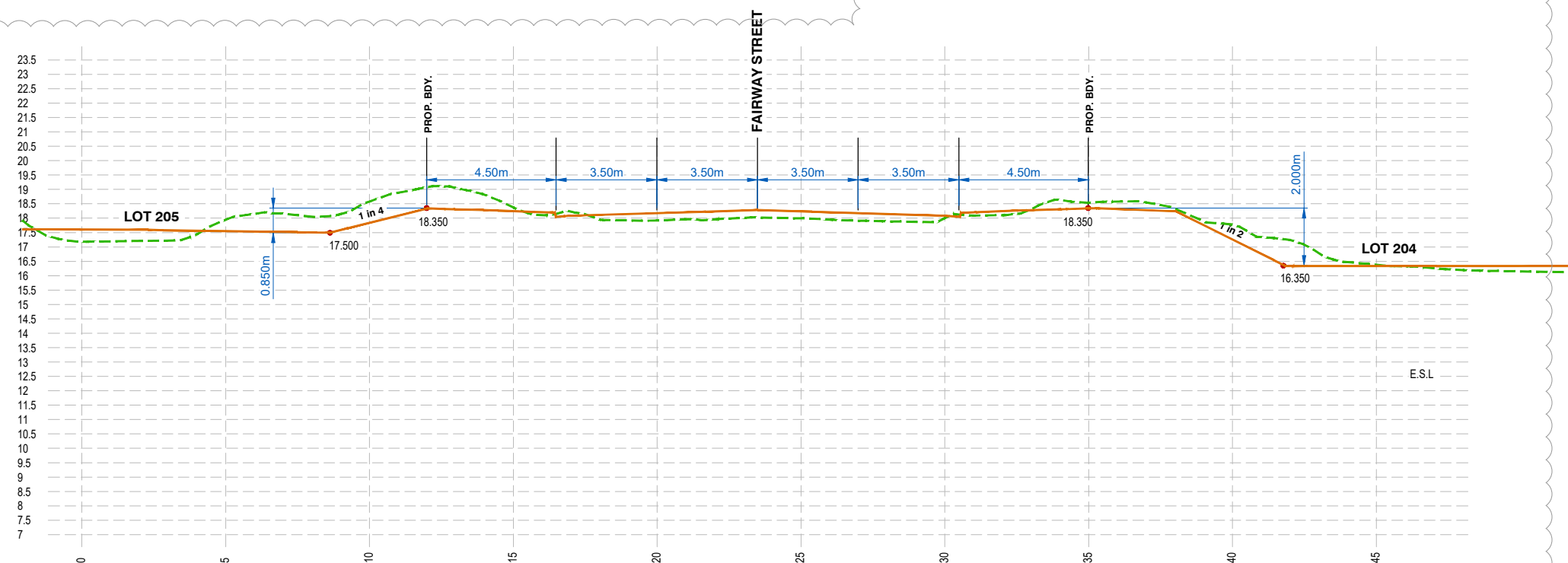
Scale at A1: 1:100

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 CROSS SECTION 5



6 CROSS SECTION 6



Client:



Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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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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DRAWING TITLE

ROAD USER SAFETY CROSS
SECTIONS - SHEET 4 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

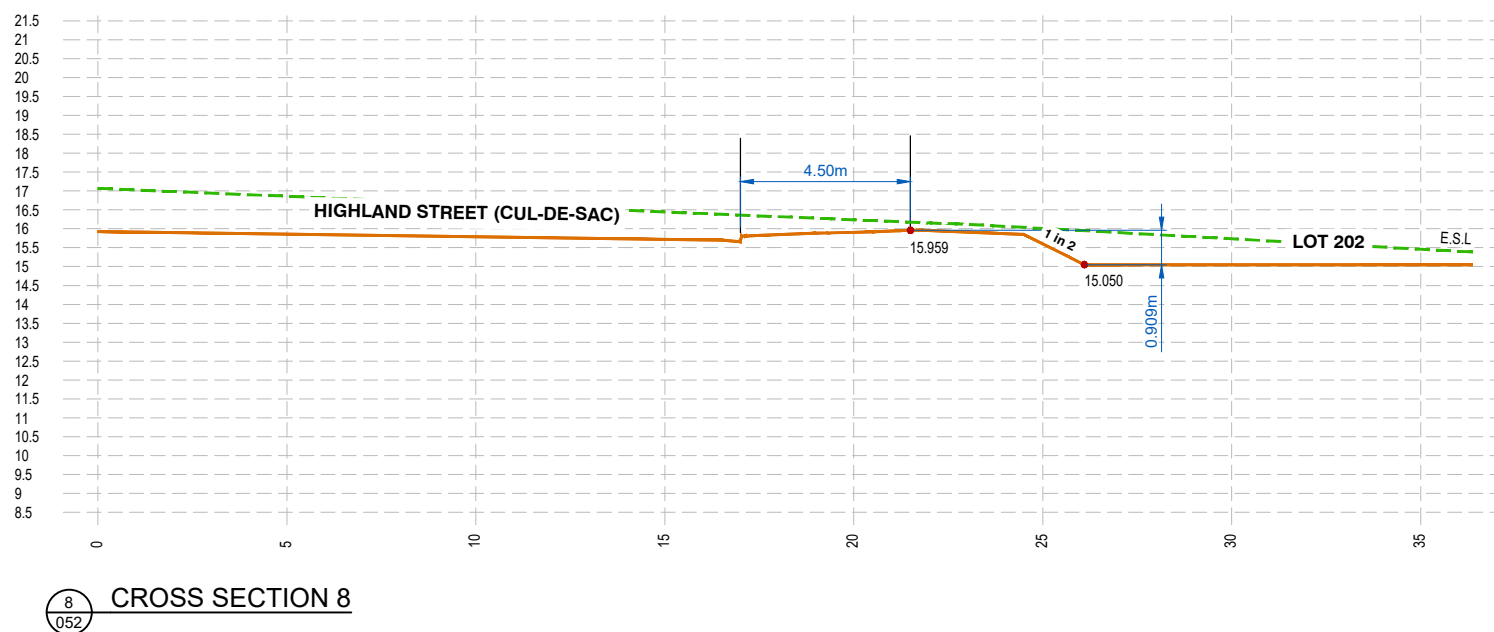
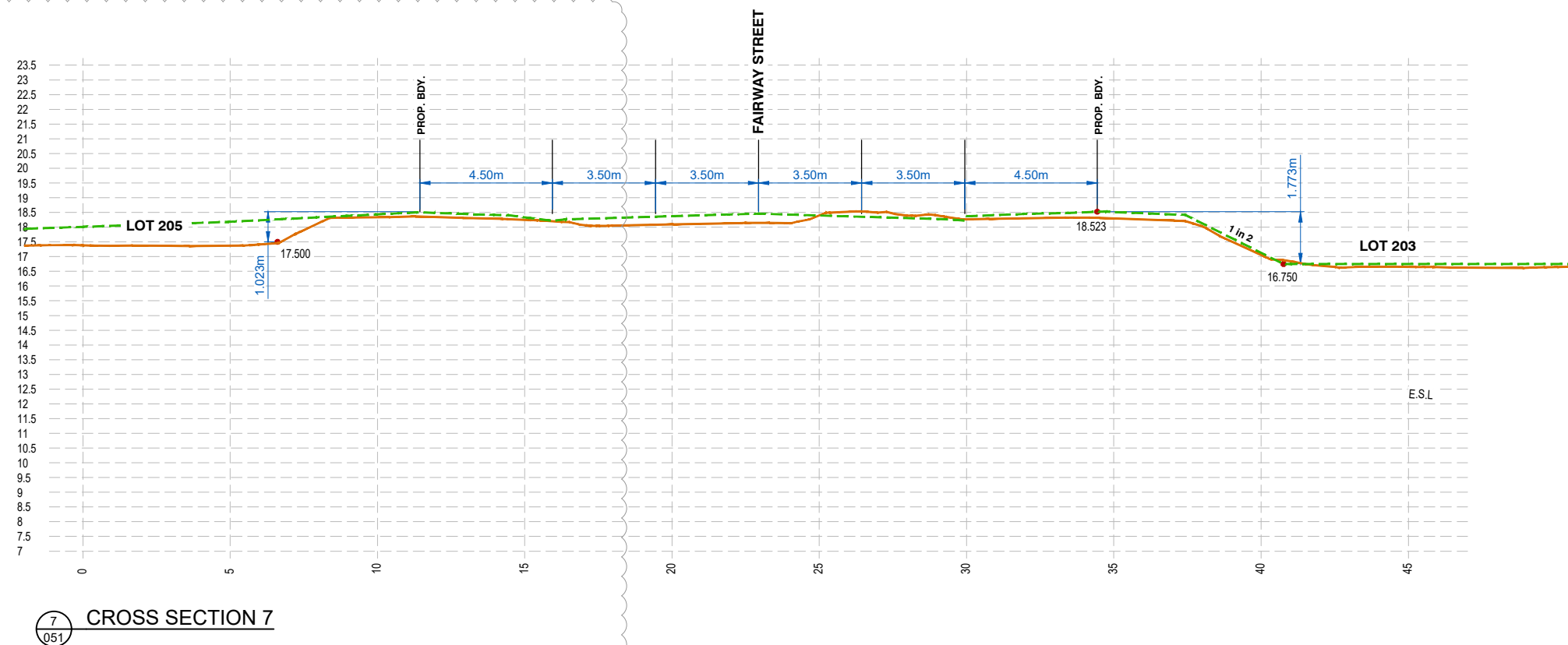


1:100 (FULL SIZE A1)
1:200 (HALF SIZE A3)

Scale at A1:	1:100
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Approved:	MG
RPEQ:	16939
Signed:	
Date:	10-11-2021

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





Project: **VantageYatala**
STAGE 2

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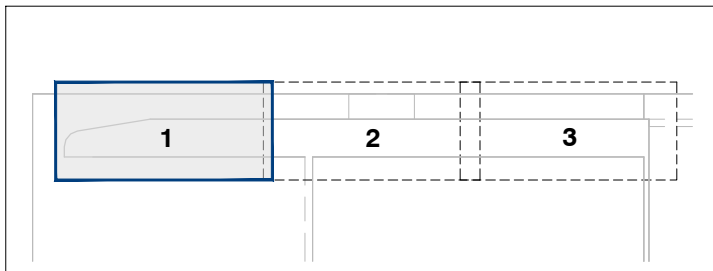
ROAD USER SAFETY CROSS
SECTIONS - SHEET 5 OF 5

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

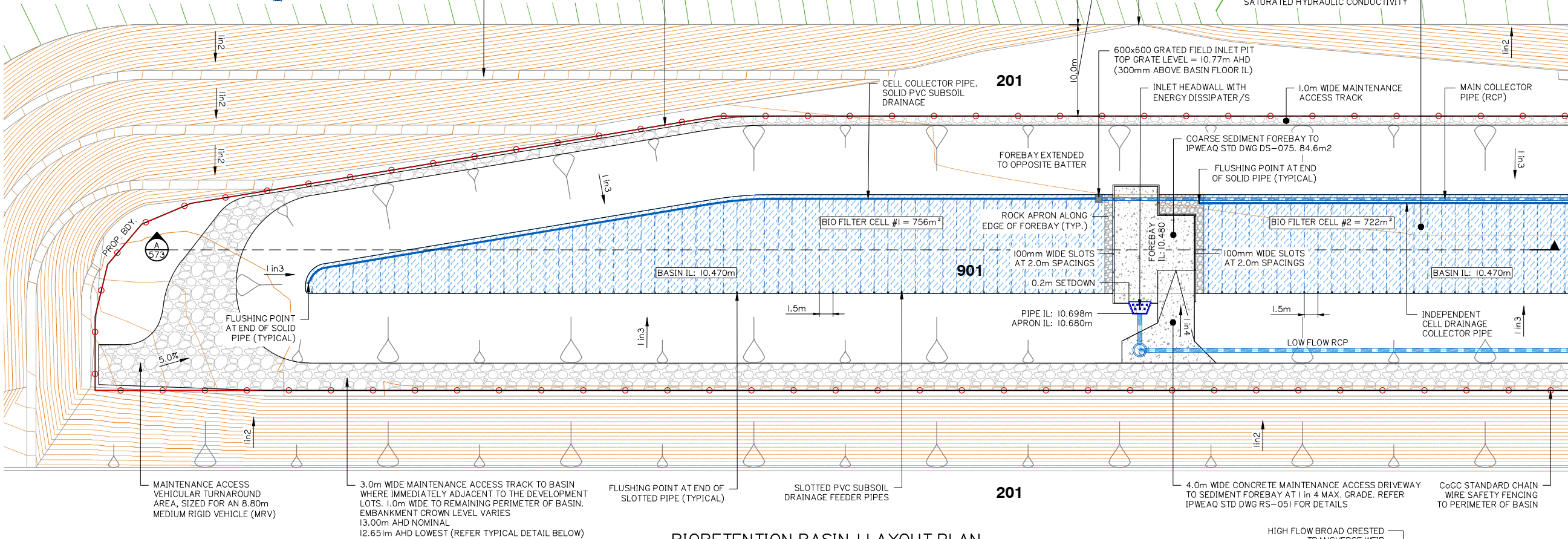
Designed:	IG
Drafted:	IG BA / LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	24-09-2021

The profile view shows the proposed road alignment (blue line) and the existing ground surface (green dashed line). The road starts at an elevation of 20.597 at station 0+00 and rises to 21.814 at station 0+30. The road then descends to an elevation of 16.900 at station 0+45. The existing ground surface is relatively flat, with a slight dip around station 0+20. The road is labeled 'PROPOSED ROAD' and 'FAIRWAY STREET'. The lot numbers 'LOT 119' and 'LOT 201' are indicated. The elevation of the existing ground surface at the end of the section is 22.200. The road is shown with a 1 in 2 slope on both the rising and falling sections. The road width is 4.50m, and the distance between the road centerline and the existing ground surface is 1.217m. The road is shown with a 4.914m offset from the existing ground surface at the end of the section.

ROAD USER SAFETY CROSS SECTIONS – SHEET 5 OF 5



KEY PLAN
SCALE 1:3000



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

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

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

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

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

OPTIMIZATION OF MINIMUM FOREBAY SIZE:

$$D_s = \frac{11.0722 \text{ m}^3}{253.97 \text{ m}^2} = 0.044 \text{ m}$$

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)

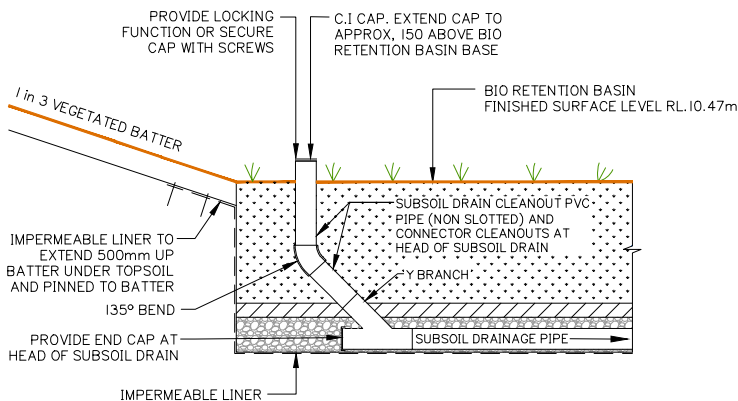
$n = 0.5$ (Recommended Turbulence)

$F_c = 1.0$ (Frequency of Clean Out / Yr)

REFER TO BIO RETENTION TECHNICAL DESIGN GUIDELINES FOR FURTHER INFORMATION

MAINTENANCE ACCESS TRACK - TYPICAL SECTION

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

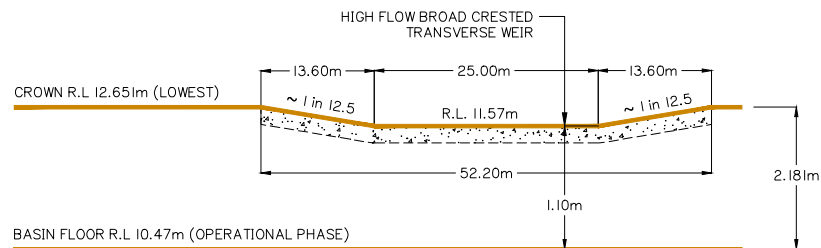


SUBSOIL DRAIN CLEANOUT - IN BASIN

N.T.S.

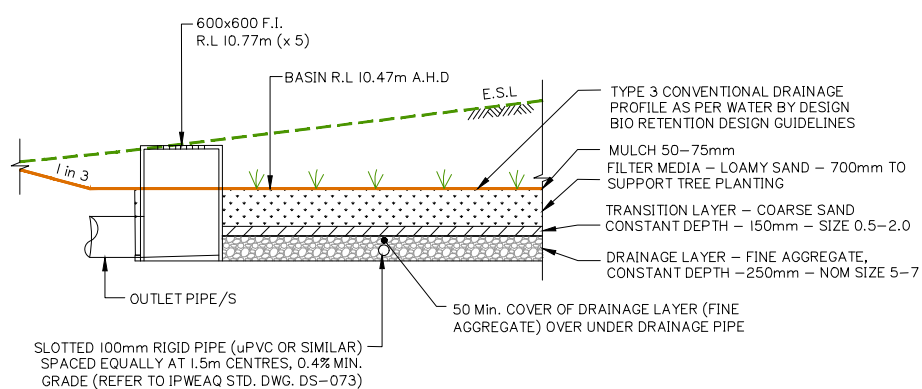
WEIR / SPILLWAY - TYPICAL ELEVATION

N.T.S.



TYPICAL BIO-RETENTION BASIN DETAIL

N.T.S.



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

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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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)

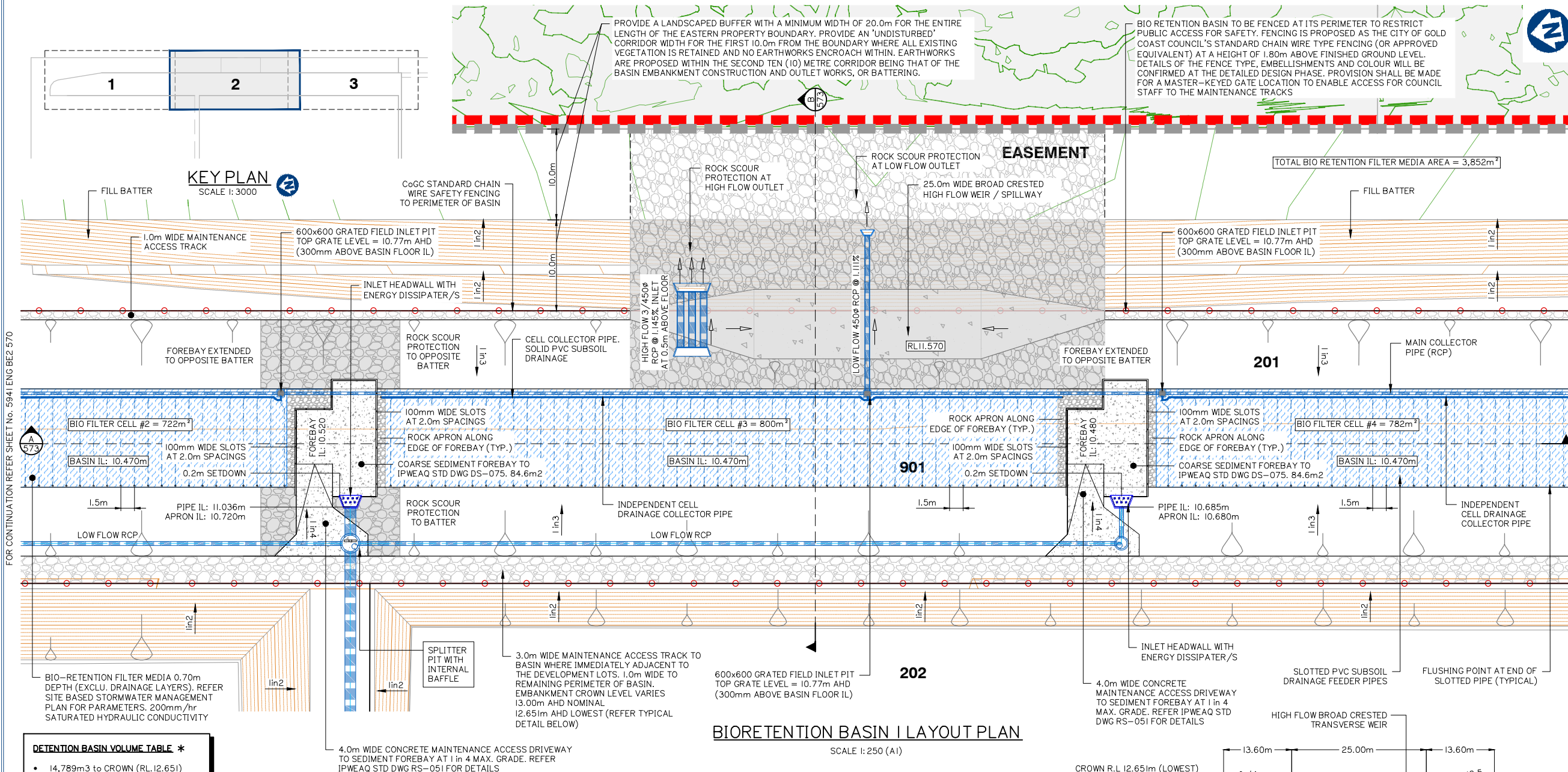
Scale at A1: 1:250

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

Drawing No:
5941 ENG BE2 570

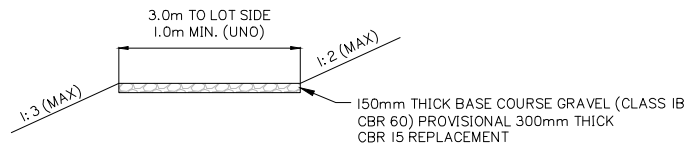
Rev. No:
D

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 570



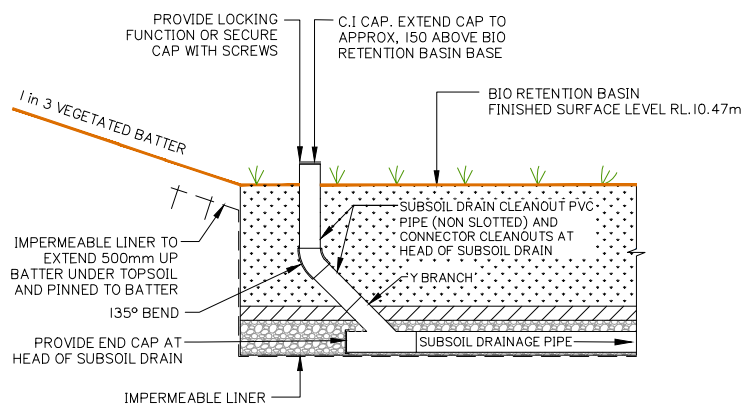
BIORETENTION BASIN I LAYOUT PLAN

SCALE 1:250 (A1)



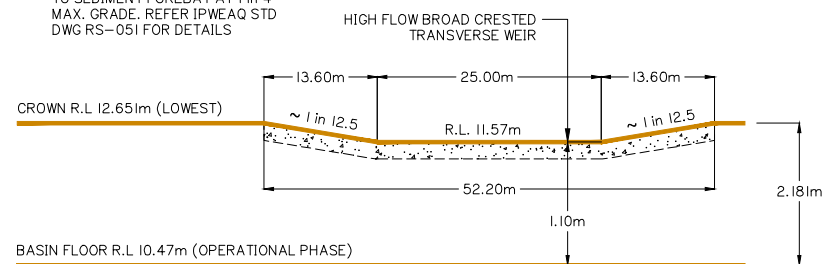
MAINTENANCE ACCESS TRACK – TYPICAL SECTION

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



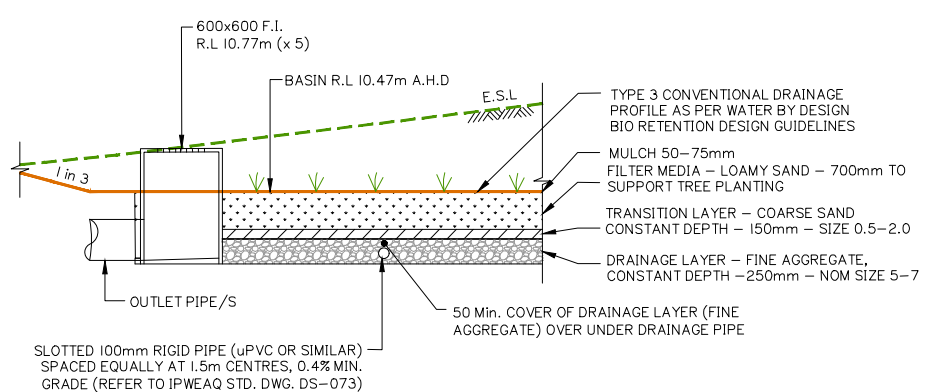
SUBSOIL DRAIN CLEANOUT – IN BASIN

N.T.S.



WEIR / SPILLWAY – TYPICAL ELEVATION

N.T.S.



TYPICAL BIO-RETENTION BASIN DETAIL

N.T.S.

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/hr AND A PARTICLE SIZE OF 0.45–0.50mm.

* 0.15m OF COARSE 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)
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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	
$V_s = A_c \times R \times L_o \times F$	= 11.0722m³
$R = 1 - \left[1 + \frac{1}{n} \times \frac{V_s}{Q/A_c} \right]^{-n}$	
$0.8 = 1 - \left[1 + \frac{0.10}{0.5} \times \frac{11.0722}{2.7508/A_c} \right]^{-0.5}$	$A_c = 330.1 \text{ m}^2$
$D_s = \frac{V_s}{A_c}$	$D_s = \frac{11.0722}{330.1} = 0.034 \text{ m}$
OPTIMIZATION OF MINIMUM FOREBAY SIZE:	
$D_s = \frac{11.0722 \text{ m}^3}{253.977 \text{ m}^2}$	= 0.044m
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)	
$V_s = 0.1 \text{ m}^3/\text{s}$ (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	

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
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RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
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DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 2 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)

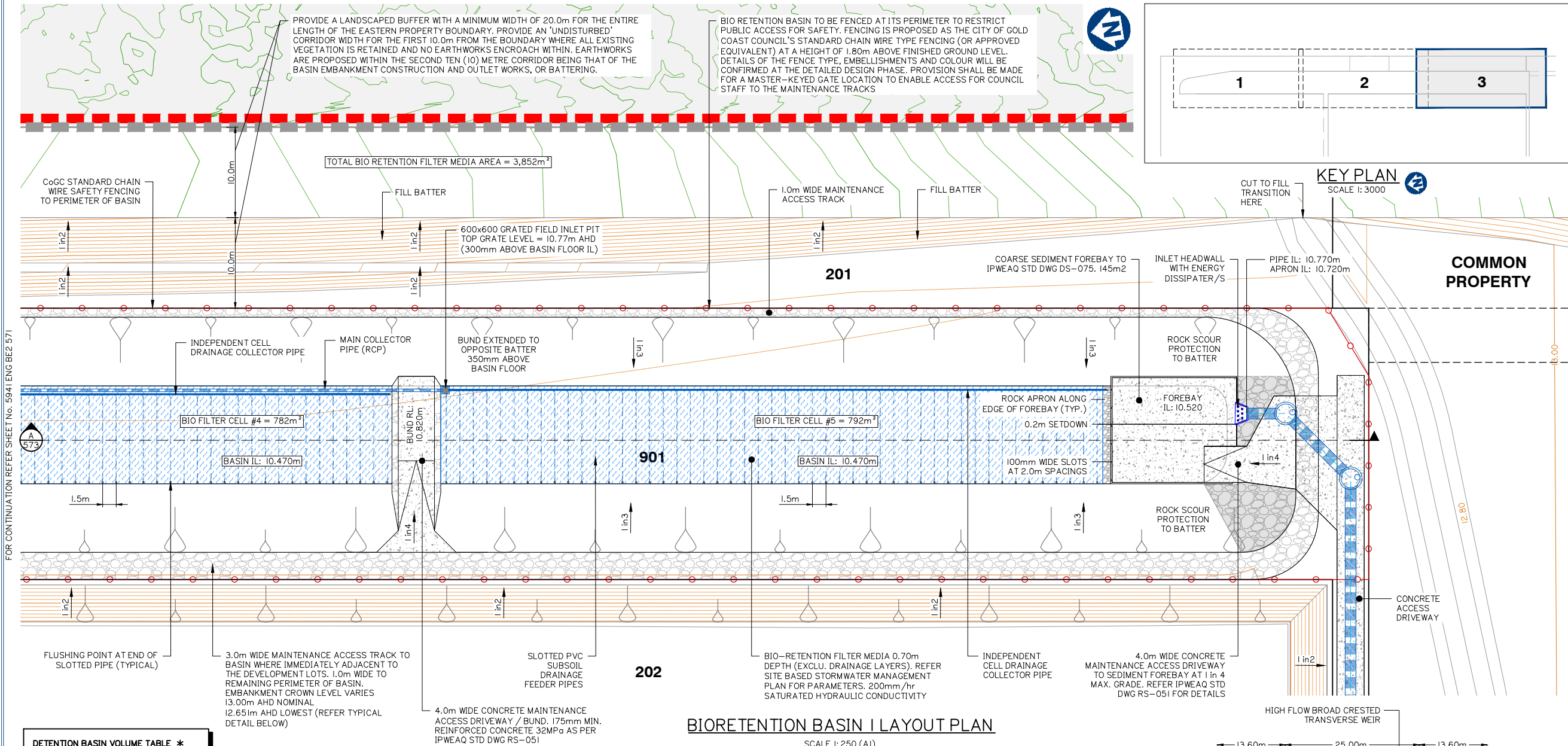
Scale at A1: 1:500

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

Drawing No:
5941 ENG BE2 571

Rev. No:
D

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 571



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

$$V_s = A_c \times R \times L_o \times F = 6.495 \text{ m}^3$$

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

$$0.8 = 1 - \left[1 + \frac{0.10}{0.5 \times 1.6156/A_f} \right]^{-0.5} \quad A_f = 193.87 \text{ m}^2$$

$$D_s = \frac{V_s}{A_f} \quad D_s = \frac{6.495}{193.868} = 0.034 \text{ m}$$

OPTIMIZATION OF MINIMUM FOREBAY SIZE:

$$D_s = \frac{6.495 \text{ m}^3}{145.007 \text{ m}^2} = 0.045 \text{ m}$$

CALCULATED FOR 1 FOREBAY AT 145.007m²

$V_s = 11.0722 \text{ m}^3$ (Workings Above)

$A_c = 13.532 \text{ ha}$ (Refer Catchment Plans)

UNMITIGATED POST-DEVELOPMENT FLOW

$Q = 1.61557 \text{ m}^3/\text{s}$ (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)

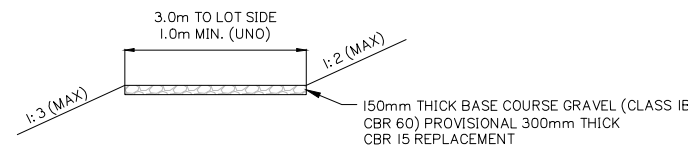
$F_c = 1.0$ (Frequency of Clean Out / Yr)

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

BIORETENTION BASIN LAYOUT PLAN

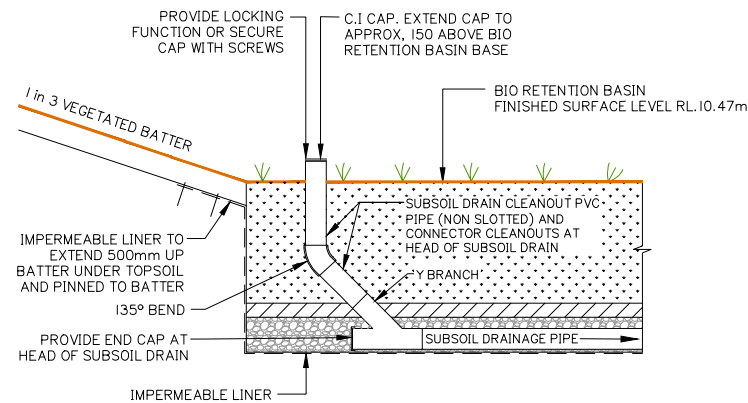
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MAINTENANCE ACCESS TRACK – TYPICAL SECTION

N.T.S

UNO DENOTES 'UNLESS NOTED OTHERWISE'

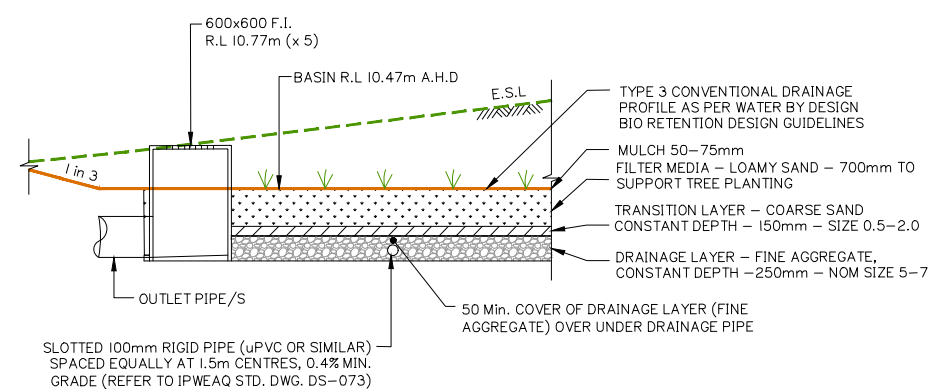
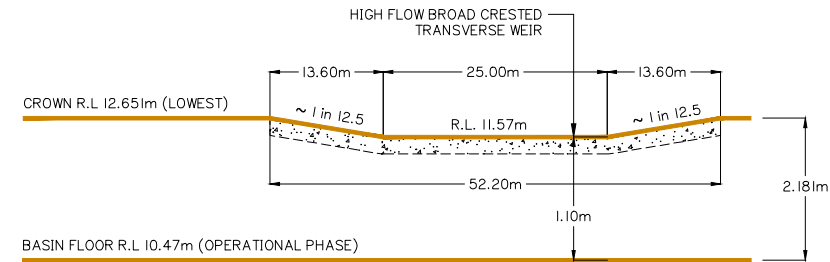


SUBSOIL DRAIN CLEANOUT – IN BASIN

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: 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

OPERATIONAL PHASE BIORETENTION BASIN 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	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 572
Rev. No: D

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

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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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DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 4 OF 4

C	24-09-2021	EXTENT OF STAGE 2 EARTHWORKS REDUCED	IG	MG
B	31.03.21	INFORMATION REQUEST RESPONSE	IG	MG
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Issue	Date	Description	DRN	CHK

SCALE IN METRES



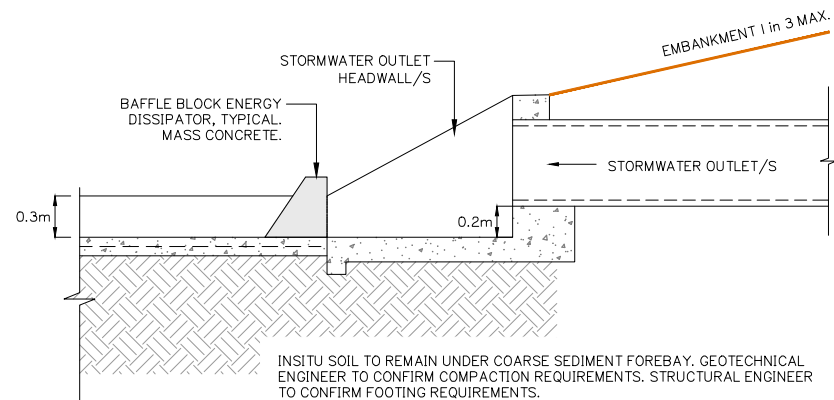
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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

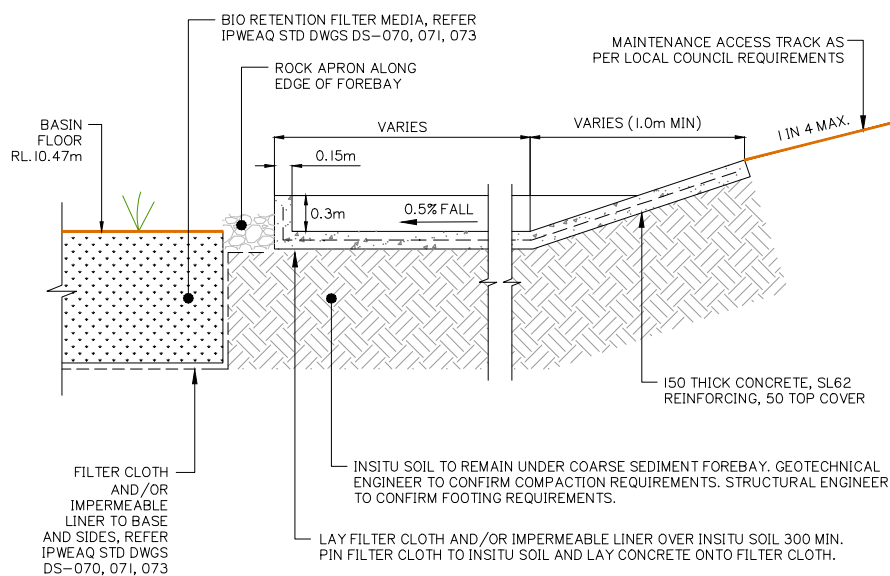
Drawing No:
5941 ENG BE2 573

Rev. No:
C



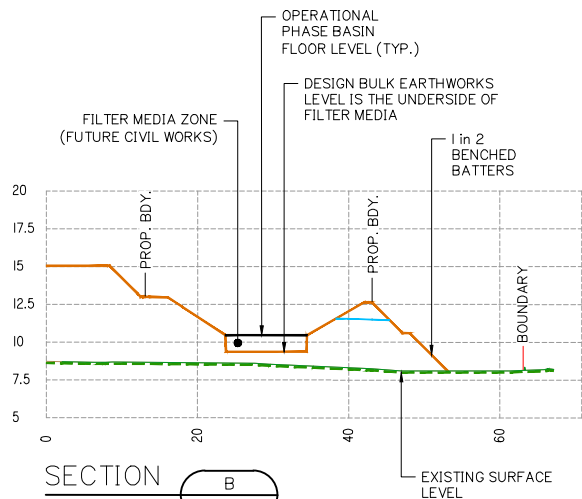
TYPICAL STORMWATER OUTLET TO SEDIMENT FOREBAY

N.T.S



COARSE SEDIMENT FOREBAY TYPICAL SECTION

N.T.S

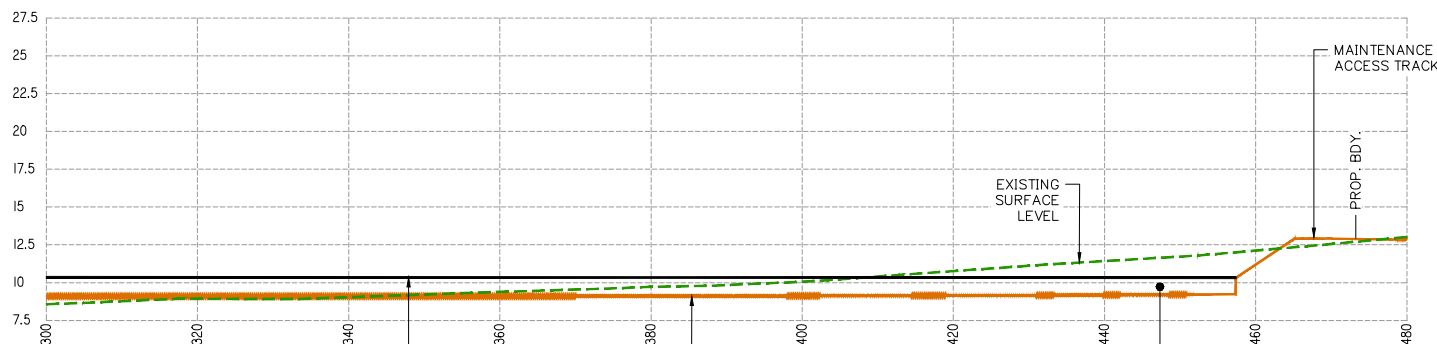


SECTION B

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

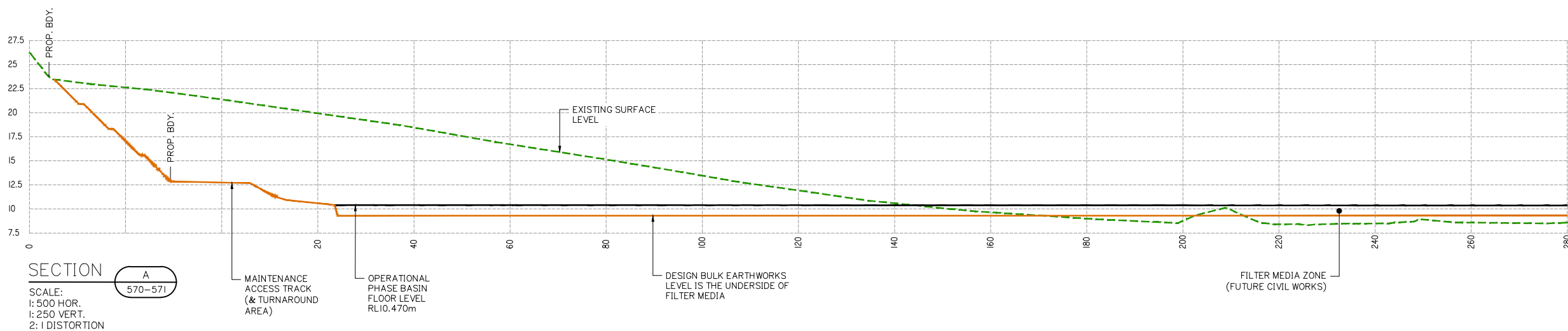
NOTE:

- I. BASIN INUNDATION DEPTHS OMITTED FROM CROSS SECTIONS FOR CLARITY. REFER TO CALCULATION TABLES ON DRAWINGS 5941 ENG BE2 570-572



SECTION A

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



SECTION A

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