

DOCUMENT TRANSMITTAL SCHEDULE

To: City of Gold Coast Council

Address : PO Box 5042
GCMC 9726

Attention: Development Assessment



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

Job No: 5941

The documents listed below are issued for your use as indicated in the "Issued for" section.
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DATE OF ISSUE	Day	20	15										
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City of Gold Coast Council	Development Assessment	1xPDF	1xPDF										
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P	- Preliminary	C	- Construction	T	-Tender								
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Issued Media

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

Drg/Doc No.	Title	Revision Issued											
5941 ENG BE2 001	DRAWING INDEX AND LOCALITY PLAN	A	B										
5941 ENG BE2 002	GENERAL NOTES SHEET 1 OF 2	A	A										
5941 ENG BE2 003	GENERAL NOTES SHEET 2 OF 2	A	A										
5941 ENG BE2 004	LEGEND	A	A										
5941 ENG BE2 005	KEY PLAN LAYOUT	A	A										
5941 ENG BE2 010	EXISTING SURFACE AND FEATURES PLAN SHEET 1 OF 9	A	A										
5941 ENG BE2 011	EXISTING SURFACE AND FEATURES PLAN SHEET 2 OF 9	A	A										
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5941 ENG BE2 437	ROAD 01 CROSS SECTIONS SHEET 8 OF 8	A	A										
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5941 ENG BE2 439	FAIRWAY STREET CROSS SECTIONS SHEET 2 OF 4	A	A										
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5941 ENG BE2 441	FAIRWAY STREET CROSS SECTIONS SHEET 4 OF 4	A	A										
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5941 ENG BE2 444	ROAD USER SAFETY CROSS SECTIONS SHEET 3 OF 5	-	A										
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5941 ENG BE2 571	OPERATIONAL PHASE BIORETENTION BASIN SHEET 2 OF 4	A	B										
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I hereby acknowledge receipt of the documents listed above.

Name & Company: Signed: Dated: / /

Project Manager: mitchell@gassman.com.au Sent by: mitchell@gassman.com.au

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

DRAWING INDEX		
DRAWING No.	REV No.	DRAWING TITLE
594I ENG BE2 001	B	DRAWING INDEX AND LOCALITY PLAN
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594I ENG BE2 005	A	KEY PLAN LAYOUT
594I ENG BE2 010	A	EXISTING SURFACE AND FEATURES PLAN SHEET 1 OF 9
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FEBRUARY 2021

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LOCALITY PLAN
SCALE 1: 8000 (A1)

CLIENT



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

VantageYatala

SITE ADDRESS

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

DWG No. 594I ENG BE2 001 – REV B

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

CONSTRUCTION

8. NOTWITHSTANDING ANY DESCRIPTION CONTAINED WITH APPROVED PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING THEMSELVES AS TO THE NATURE AND EXTENT OF THE SPECIFIED WORKS AND THE PHYSICAL AND LEGAL CONDITIONS UNDER WHICH THE WORKS WILL BE CARRIED OUT. THIS SHALL INCLUDE MEANS OF ACCESS, EXTENT OF CLEARING, NATURE OF THE MATERIALS TO BE EXCAVATED, TYPE AND SIZE OF MECHANICAL PLANT REQUIRED, LOCATION AND SUITABILITY OF WATER SUPPLY FOR CONSTRUCTION AND TESTING PURPOSES, AND ANY OTHER LIKELY MATTERS AFFECTING THE CONSTRUCTION OF THE WORKS.
9. REFER TO APPROVED PLANS FOR LOCATION, DIMENSIONS, AND CONSTRUCTION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
10. BEFORE STARTING ANY CLEARING OR CONSTRUCTION, ENSURE ALL THE NECESSARY MATERIALS AND COMPONENTS ARE ON THE SITE TO AVOID DELAYS IN COMPLETING THE SEDIMENT BASIN ONCE WORKS BEGIN.
11. INSTALL REQUIRED SHORT TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE PROPOSED EARTHWORKS TO CONTROL SEDIMENT RUNOFF DURING CONSTRUCTION OF THE BASIN.
12. THE AREA TO BE COVERED BY THE EMBANKMENT, BORROW PITS AND INCIDENTAL WORKS, TOGETHER WITH AN AREA EXTENDING BEYOND THE LIMITS OF AREA 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 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 — X — RM — X — RM — X — RM — X —	DEMOLISH RISING MAIN
— S — X — S — X — S — X — S — X —	DEMOLISH SEWER
— SW — X — SW — X — SW — X — SW — X —	DEMOLISH STORMWATER
— SS — X — SS — X — SS — X — SS — X —	DEMOLISH SUBSOIL
— W — X — W — X — W — X — W — X —	DEMOLISH WATER
— OIL — X — OIL — X — OIL — X — OIL — X —	DEMOLISH OIL
— F — X — F — X — F — X — F — X — F — X —	DEMOLISH FUEL
— HV — X — HV — X — HV — X — HV — X —	DEMOLISH HIGH VOLTAGE ELECTRICITY
— E — X — E — X — E — X — E — X — E — X —	DEMOLISH UNDERGROUND ELECTRICITY
— E — X — E — X — E — X — E — X — E — X —	DEMOLISH OVERHEAD ELECTRICITY
— L — X — L — X — L — X — L — X — L — X —	DEMOLISH LIGHTING
— G — X — G — X — G — X — G — X — G — X —	DEMOLISH GAS
— P — X — P — X — P — X — P — X — P — X —	DEMOLISH PIPELINE
— T — X — T — X — T — X — T — X — T — X —	DEMOLISH TELSTRA
— C — X — C — X — C — X — C — X — C — X —	DEMOLISH COMMUNICATIONS

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

● PP	POWER POLE
★ PP	POWER POLE WITH LIGHT
★ LP	LIGHT POLE
● SP	STAY POLE
—	LIGHT POLE WITH EXTENSION
[E]	ELECTRICAL INSPECTION BOX
○	ELECTRICAL POLE
⊠	ELECTRICAL TURRET
▷ TS	TRAFFIC SIGNAL
[MRD]	MAIN ROADS PIT
—	TANGENT POINT
(KRD)	KERB RETURN NO.
▒	PRAM RAMP
⌒	GRAVEL ROCK CHECK DAM
○ ○ ○	MESH & GRAVEL INLET FILTER
⊠	STORMWATER INLET FILTER
→	DIRECTION OF OVERLAND FLOW
	VEHICLE SHAKEDOWN
—	GATE
▒	NOT IN SCOPE OF WORKS
▒	DEMOLITION
▒	PROPOSED CONCRETE FOOTPATH
⬢	SCOUR PROTECTION
●	TREES
⌒	TADPOLE



Project:

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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LEGEND

A	20-11-2020	ORIGINAL ISSUE	BA	MO
Issue	Date	Description	DRN	CH

NOT APPLICABLE

Scale at A1:

NTS

Designed:

IG

Drafted:

BA

Approved

MG

RPEQ:

16939

Signed:

Witchell

Date:

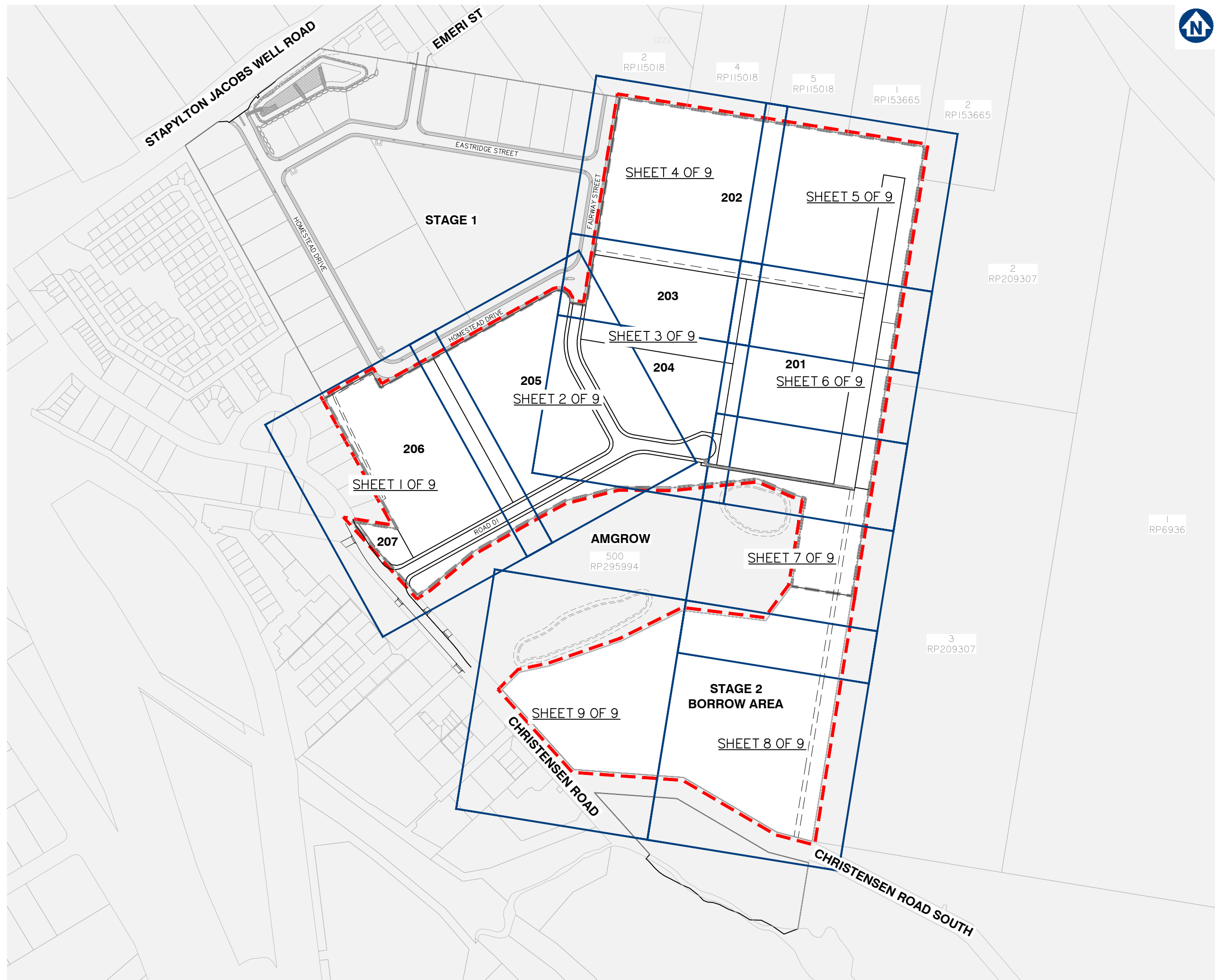
20-11-2020

Drawing No:

Rev. No:

5941 ENG BE2 004

A



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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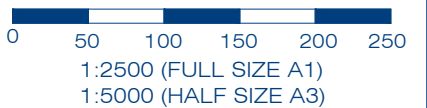
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DRAWING TITLE

KEY PLAN LAYOUT

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



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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Signed:	
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Date:	20-11-2020
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Drawing No:
5941 ENG BE2 005

Rev. No:
A



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
EXISTING SURFACE
AND FEATURES PLAN
SHEET 1 OF 9

A Issue	20-11-2020 Date	ORIGINAL ISSUE Description	BA DRN	MG CHK

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

Scale at A1: 1:500

Designed:	IG
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Drafted:	BA
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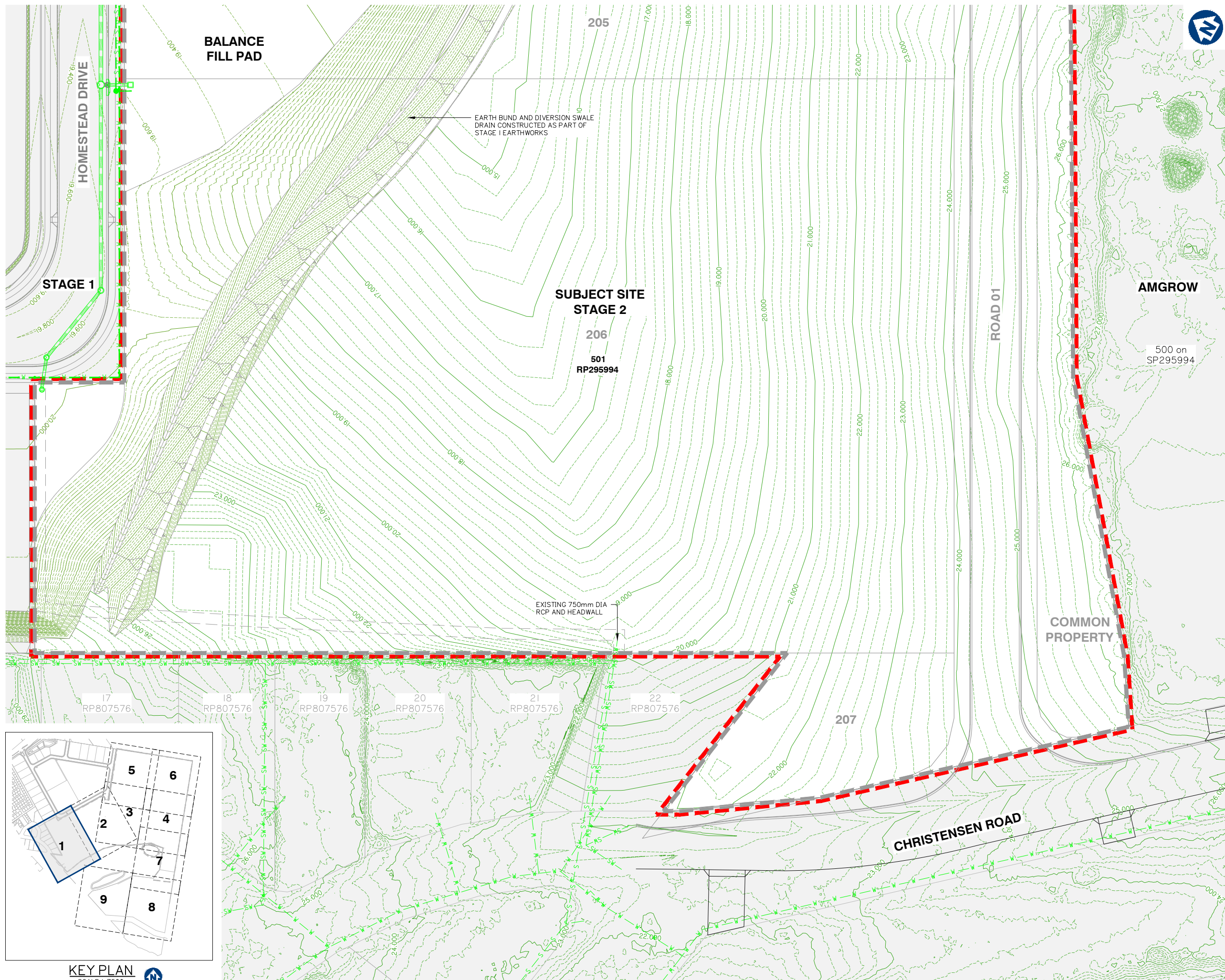
Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	20-11-2020
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Drawing No:	Rev. No:
5941 ENG BE2 010	A





Project: **VantageYatala**
STAGE 2

THIS DRAWING IS INTENDED TO
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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
EXISTING SURFACE
AND FEATURES PLAN
SHEET 2 OF 9

A Issue	20-11-2020 Date	ORIGINAL ISSUE Description	BA DRN	MG CHK

0 10 20 30 40 50

1:500 (FULL SIZE A1)

1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
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Drafted:	BA
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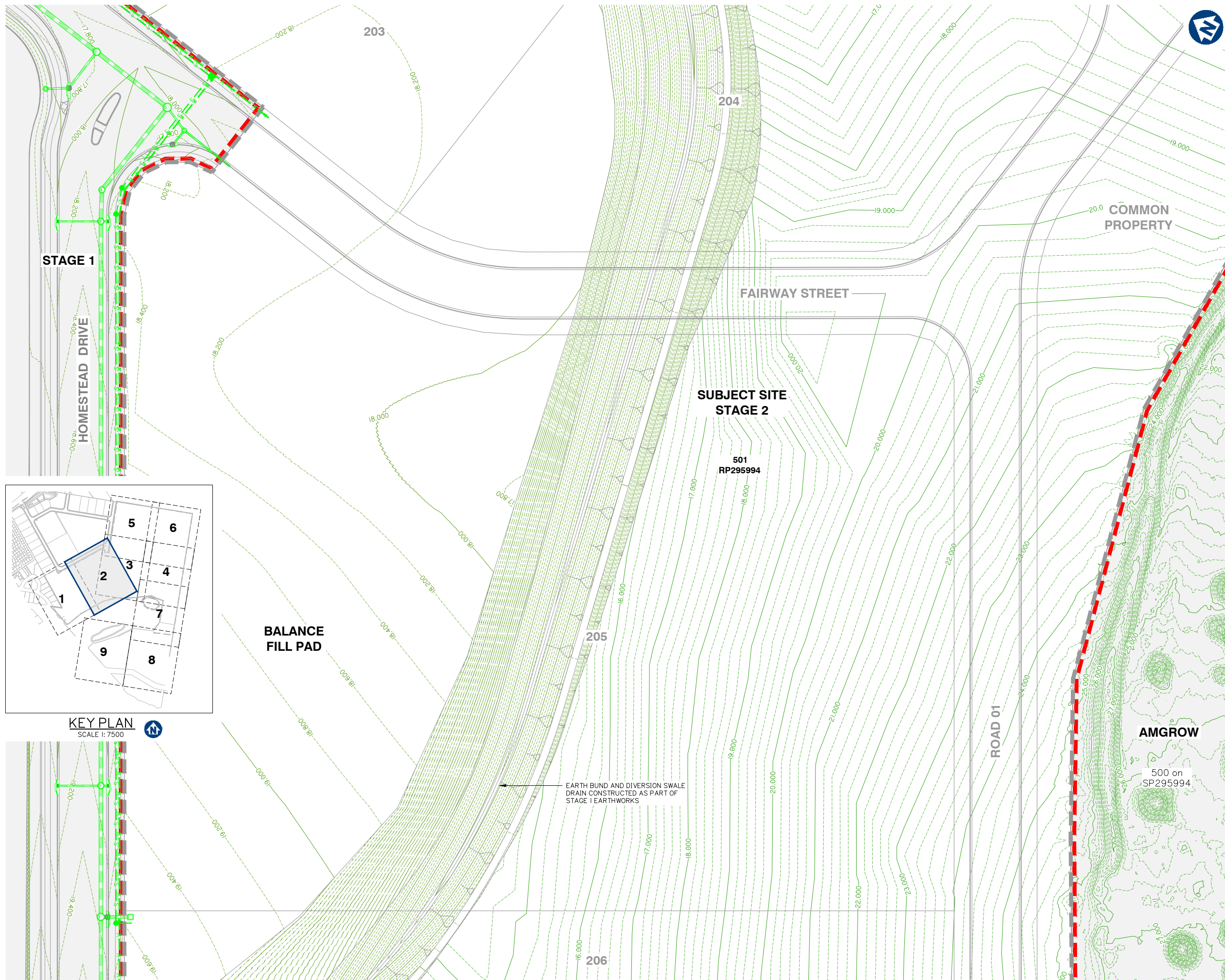
Approved:	MG
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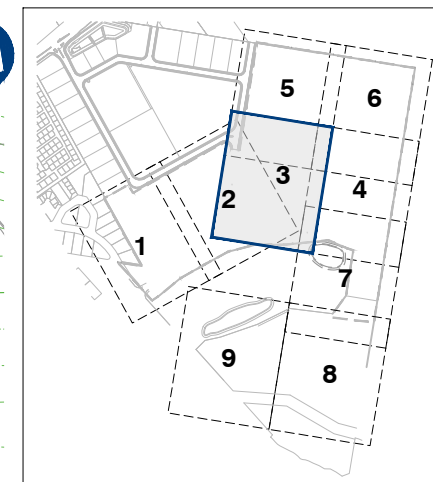
RPEQ:	16939
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Signed:	
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Date:	20-11-2020
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Drawing No:	Rev. No:
5941 ENG BE2 011	A





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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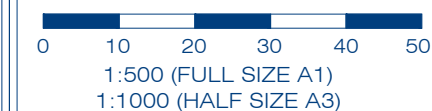
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 3 OF 9

A Issue	20-11-2020 Date		ORIGINAL ISSUE Description	BA IBN	MU OH

SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:	Rev. No:
5941 ENG BE2 012	A

The map displays a topographic site plan with contour lines ranging from 11,000 to 22,000. Key features include:

- STAGE I SEDIMENT BASIN:** Located in the upper left, showing a rectangular structure with internal divisions.
- SUBJECT SITE STAGE 2:** A large area labeled with '204' and '501 RP295994'.
- BALANCE FILL PAD:** A rectangular area labeled '203'.
- FAIRWAY STREET:** A road running diagonally across the lower half of the map.
- COMMON PROPERTY:** An area to the right of the main site, labeled '205'.
- ROAD 01:** A road running horizontally across the bottom right.
- STAGE 1:** A small area at the bottom left, near the intersection of Fairway Street and a road.
- KEY PLAN:** An inset map in the top right corner showing the site's location within a larger context, with a north arrow and scale of 1:7500.
- North Arrow:** A blue arrow pointing towards the top right of the map.



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Project:

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
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Level Datum: AHD
Meridian: -
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 4 OF 9

A	20-11-2020				ORIGINAL ISSUE			BA	MG
Issued Date					Description			(RSN)	(CHK)

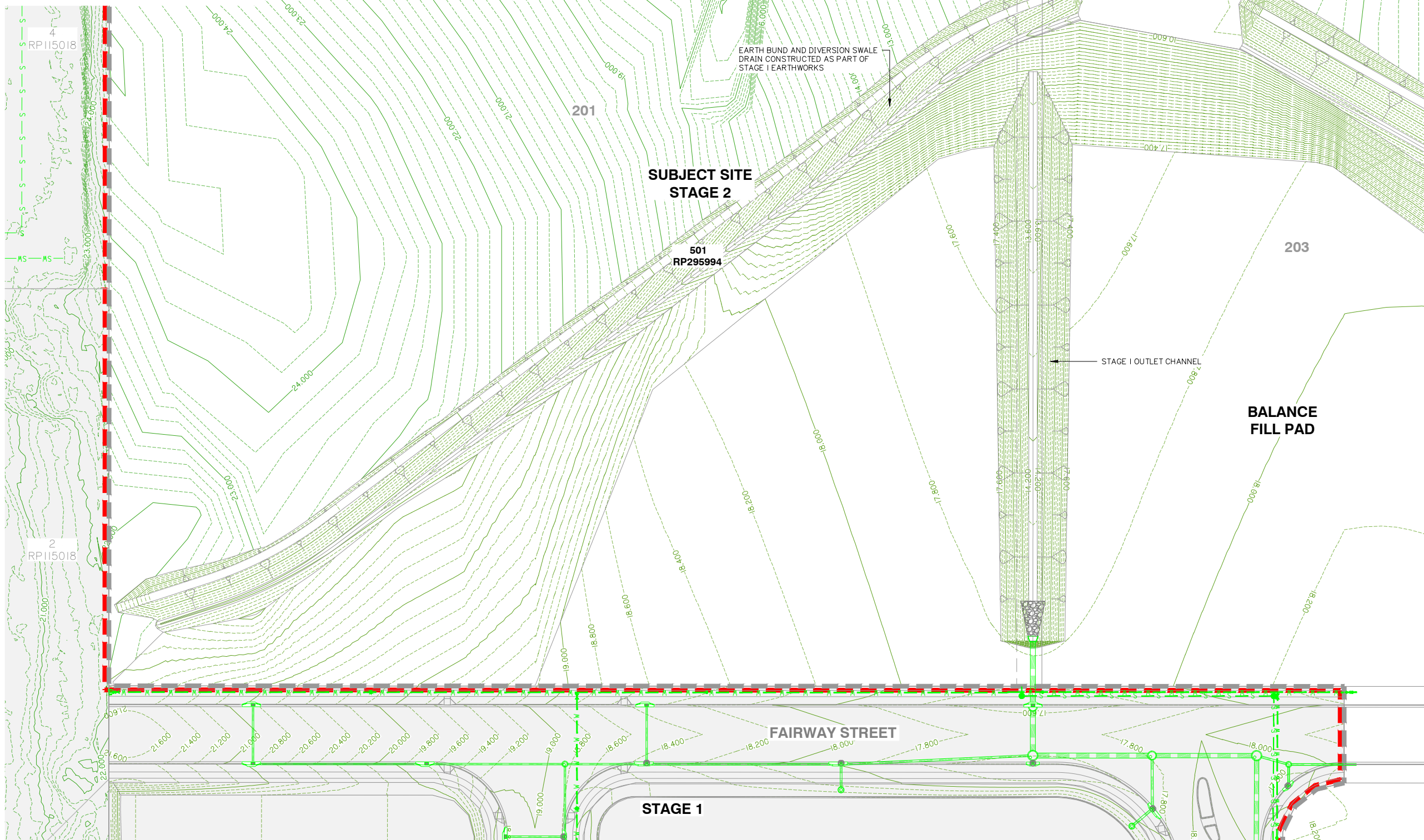
SCALE IN METRES



Scale at A1:	1:500
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Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

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5941 ENG BE2 013	A



FOR CONTINUATION REFER SHEET No. 594|ENG BE2 012



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VantageYatala
STAGE 2

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
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Contour Interval: -
PSM: -
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 5 OF 9

A	20-11-2020		ORIGINAL ISSUE	BA	MG
Issue Date	Date		Description	RBN	CHE

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	IG
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Drafted:	BA
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Approved:	MG
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RPEQ:	16939
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Date:	20-11-2020
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Drawing No:
5941 ENG BE2 014

Rev. No:
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Client:



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
EXISTING SURFACE
AND FEATURES PLAN
SHEET 6 OF 9

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHI

SCALE IN METRES



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

Scale at A1:	1:500
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Designed:	IG
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5941 ENG BE2 015

Rev. No:
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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 7 OF 9

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SCALE IN METRES



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

Scale at A1: 1:500

Designed:	IG
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Drafted:	BA
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Approved:	MG
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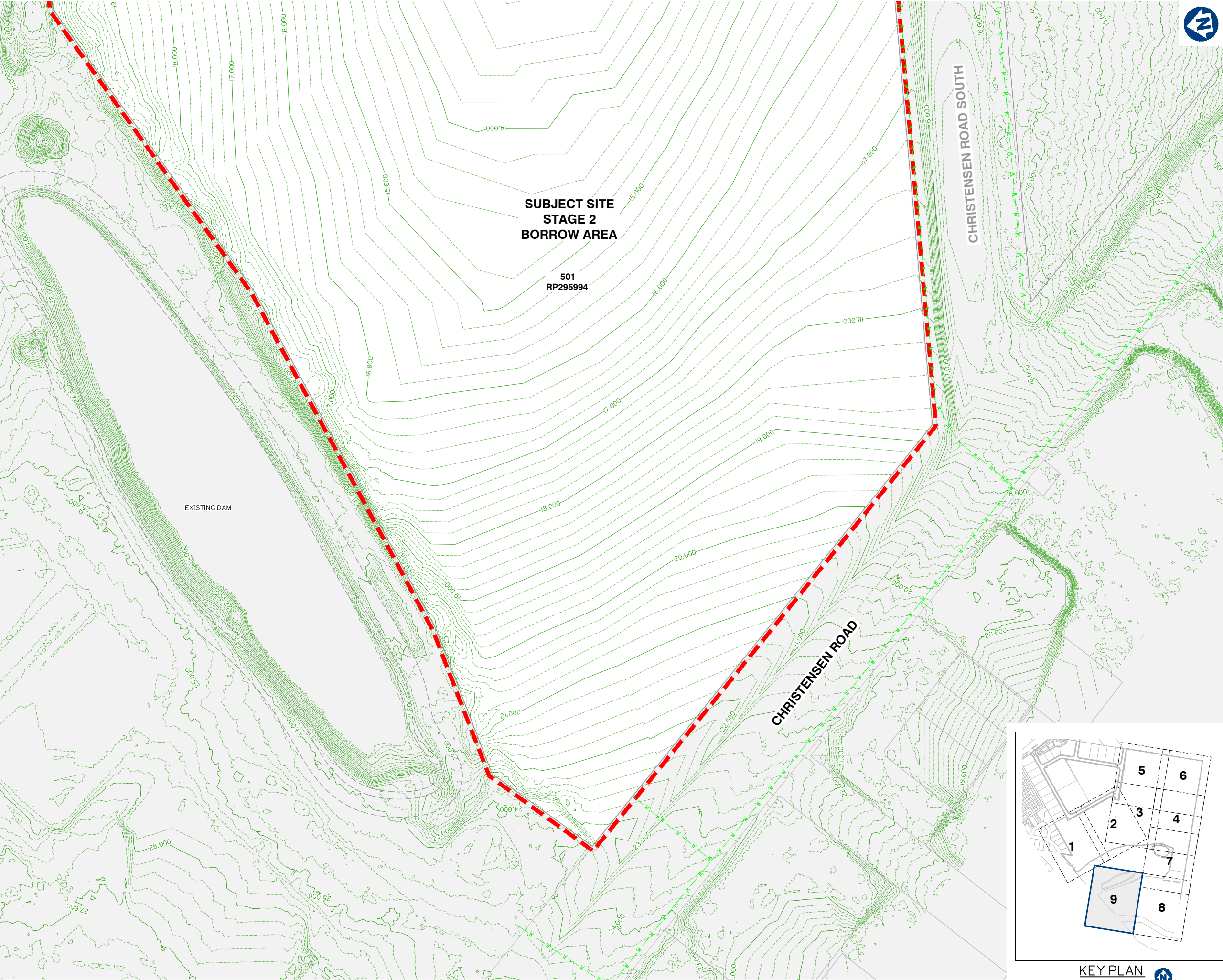
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5941 ENG BE2 016	A

Rev. No:
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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
EXISTING SURFACE AND
FEATURES PLAN SHEET
9 OF 9

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



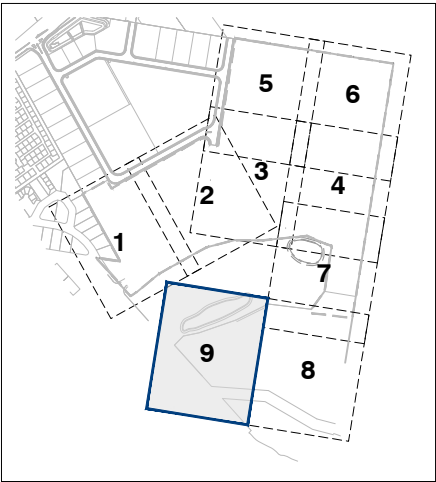
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

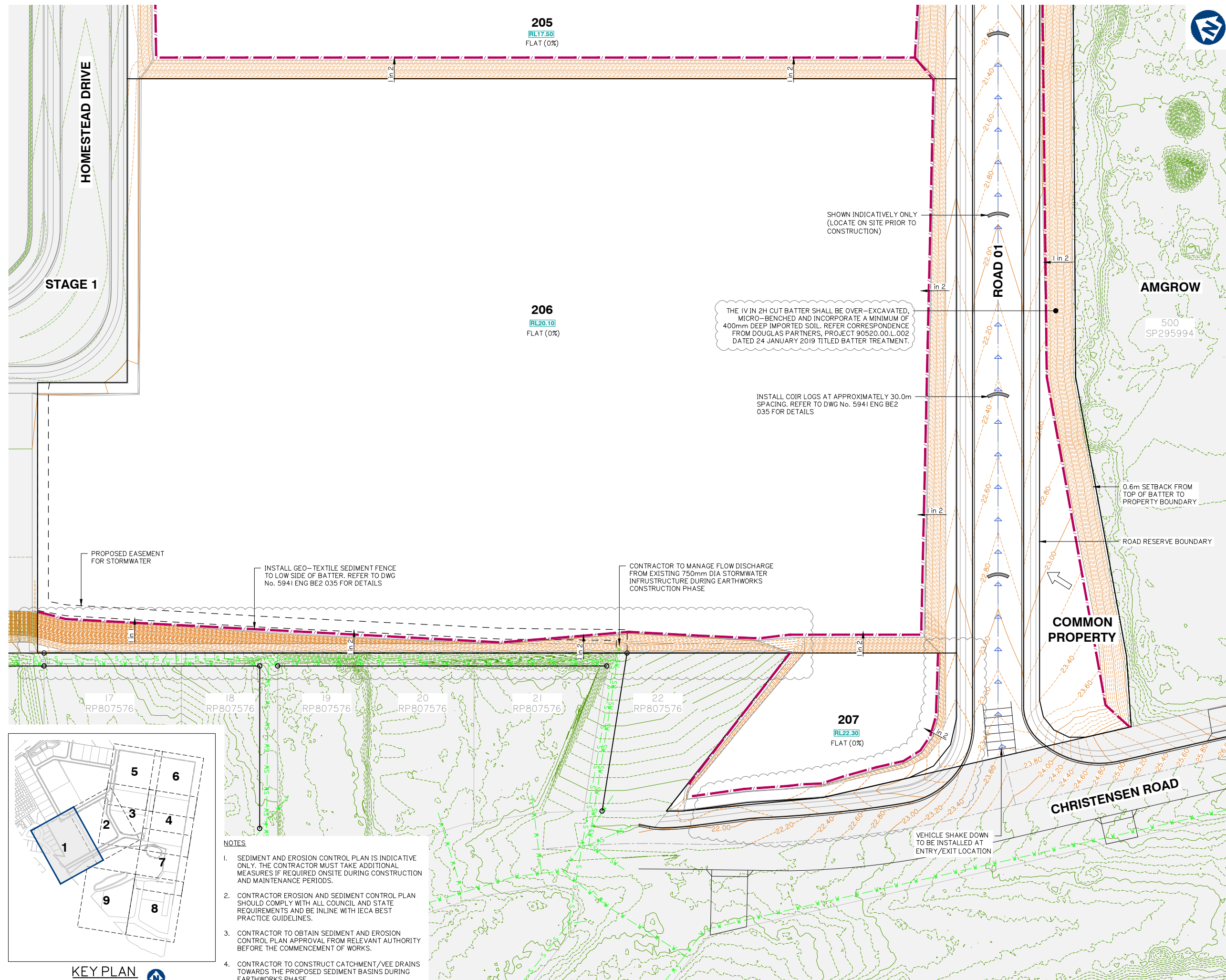
Drawing No:
5941 ENG BE2 018

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A



KEY PLAN
SCALE 1: 7500





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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
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RPD:

Lot: 501
Plan: SP295994
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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 1 OF 9

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



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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed: IG

Drafted: BA

Approved: MG

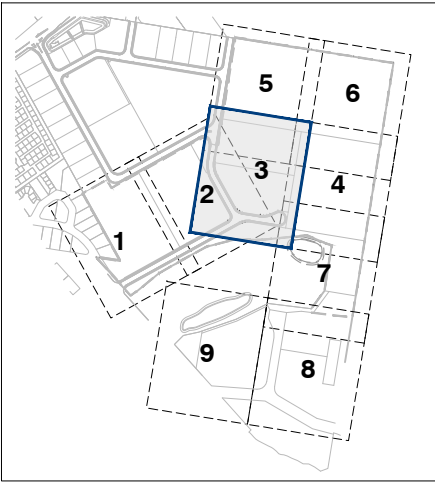
RPEQ: 16939

Signed:

Date: 15-02-2021

Drawing No:
5941 ENG BE2 020

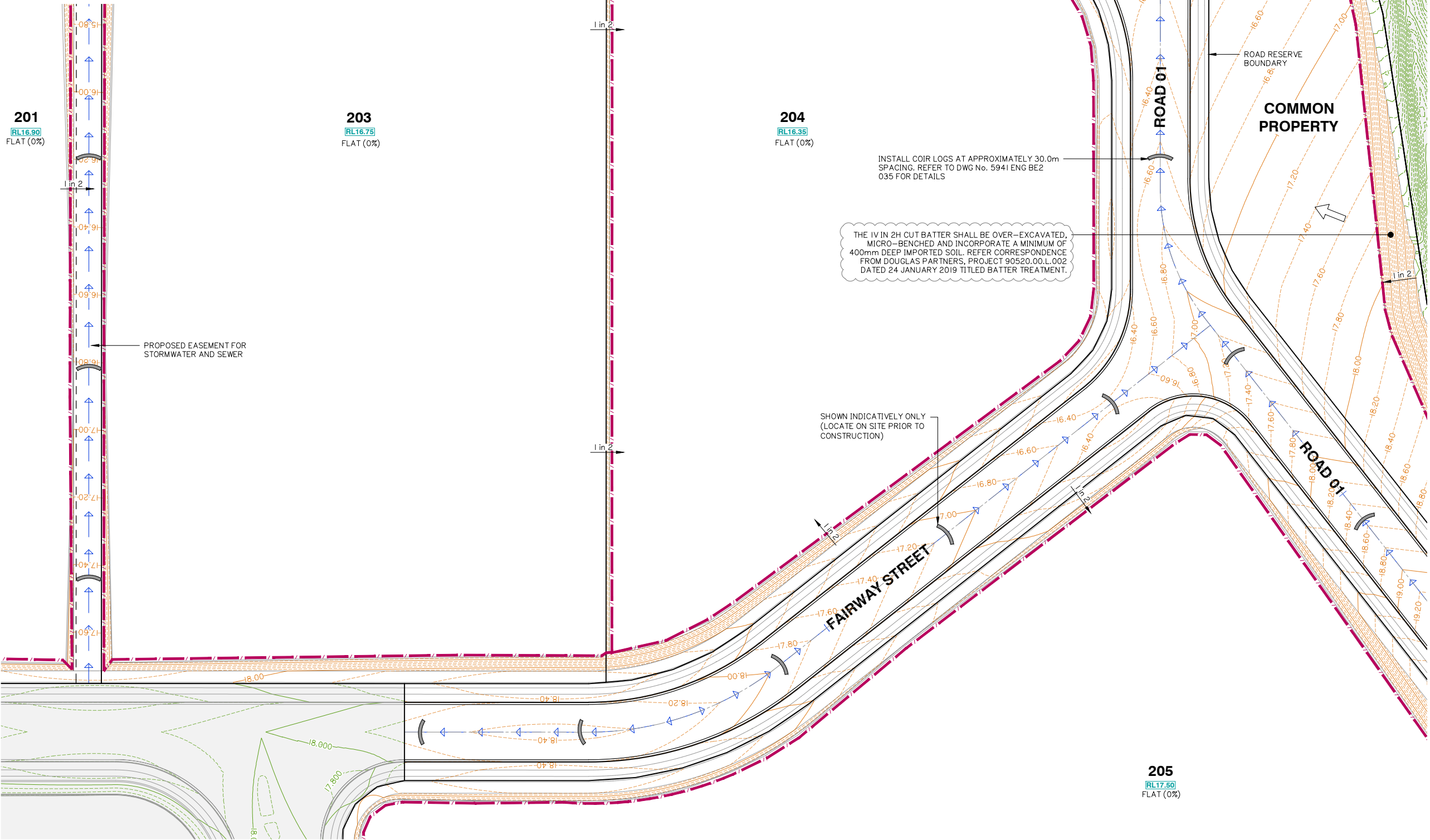
Rev. No:
B



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:



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(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
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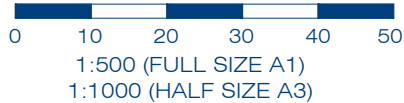
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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 3 OF 9

Rev	Date	Description	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

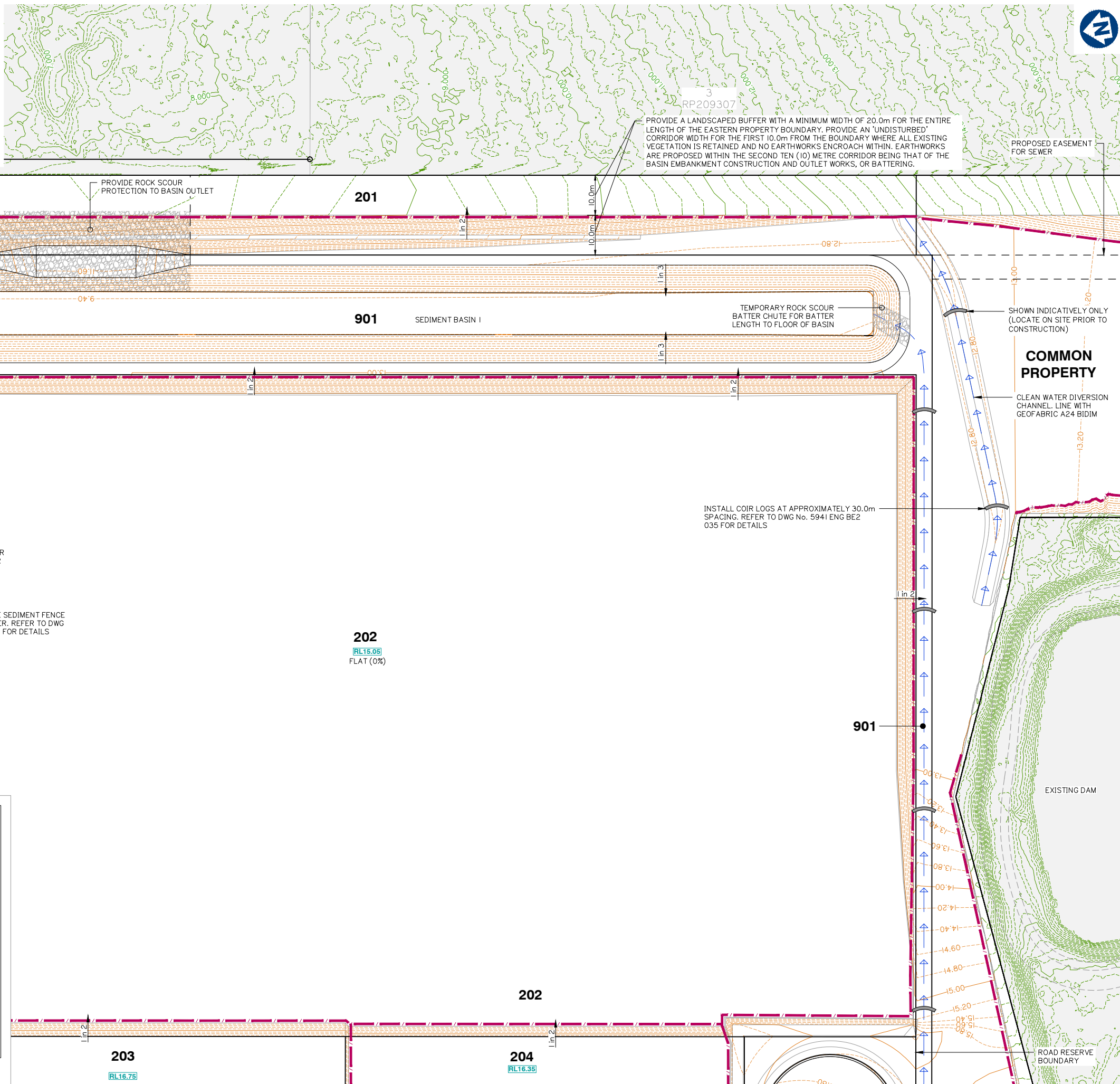
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 022

Rev. No:
B

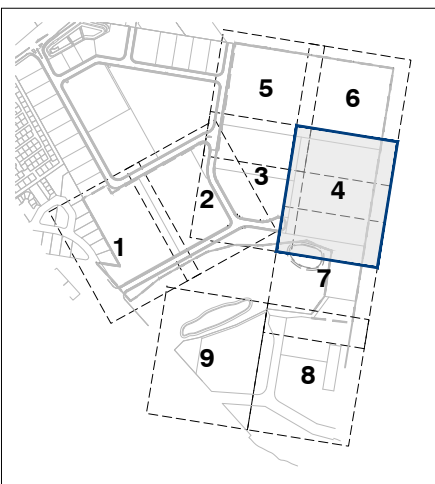
NOTES

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



FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 025

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 026



KEY PLAN
SCALE 1:7500

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 022

SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 9



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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 4 OF 9

Issue	Date	Description	BA	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG

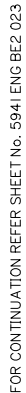
SCALE IN METRES

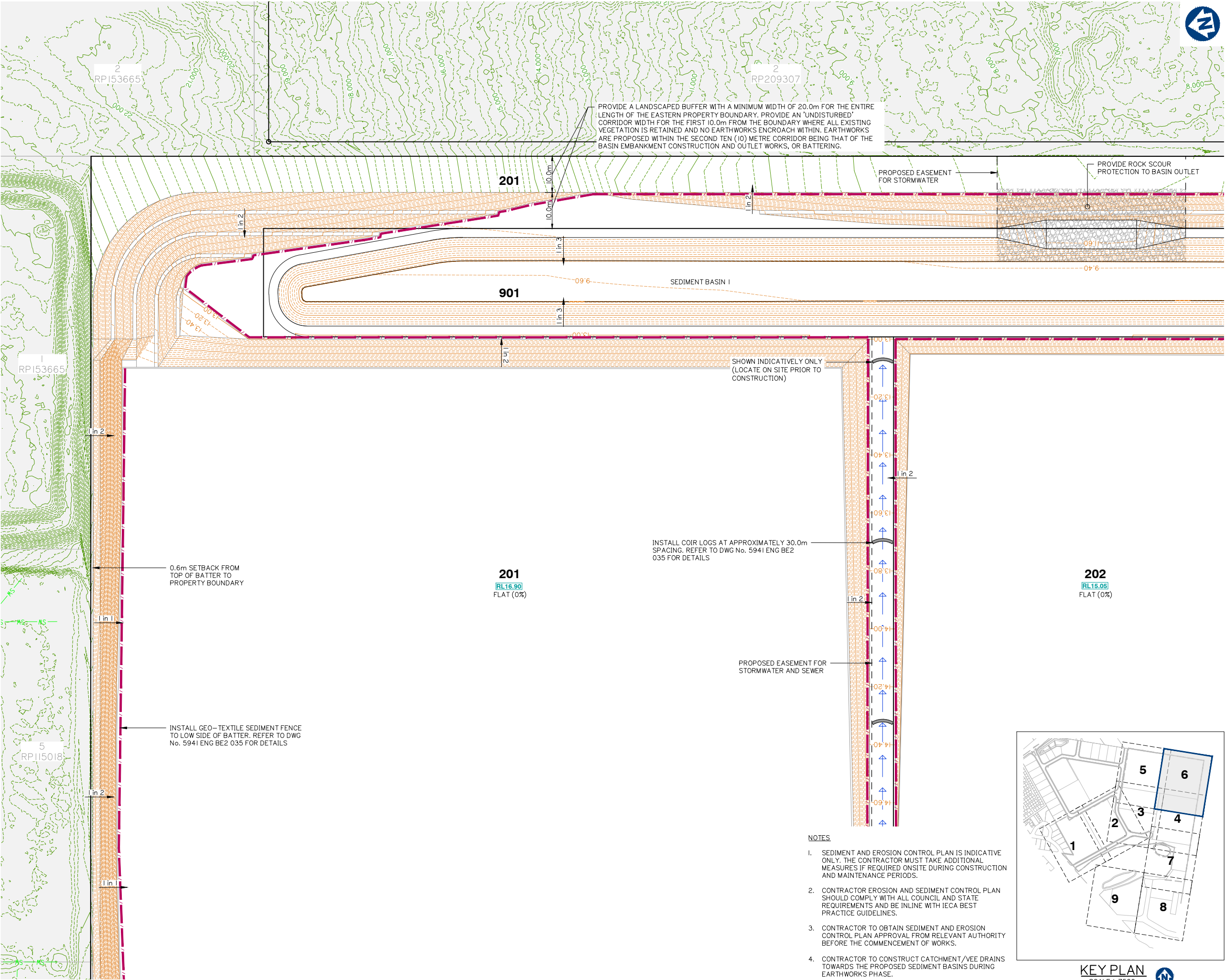


Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No: 5941 ENG BE2 023
Rev. No: A





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Project:

VantageYatala
STAGE 2

Site Address:

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ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 6 OF 9

Issue	Date	Original Issue Description	BA DRN	MG CHK
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SCALE IN METRES

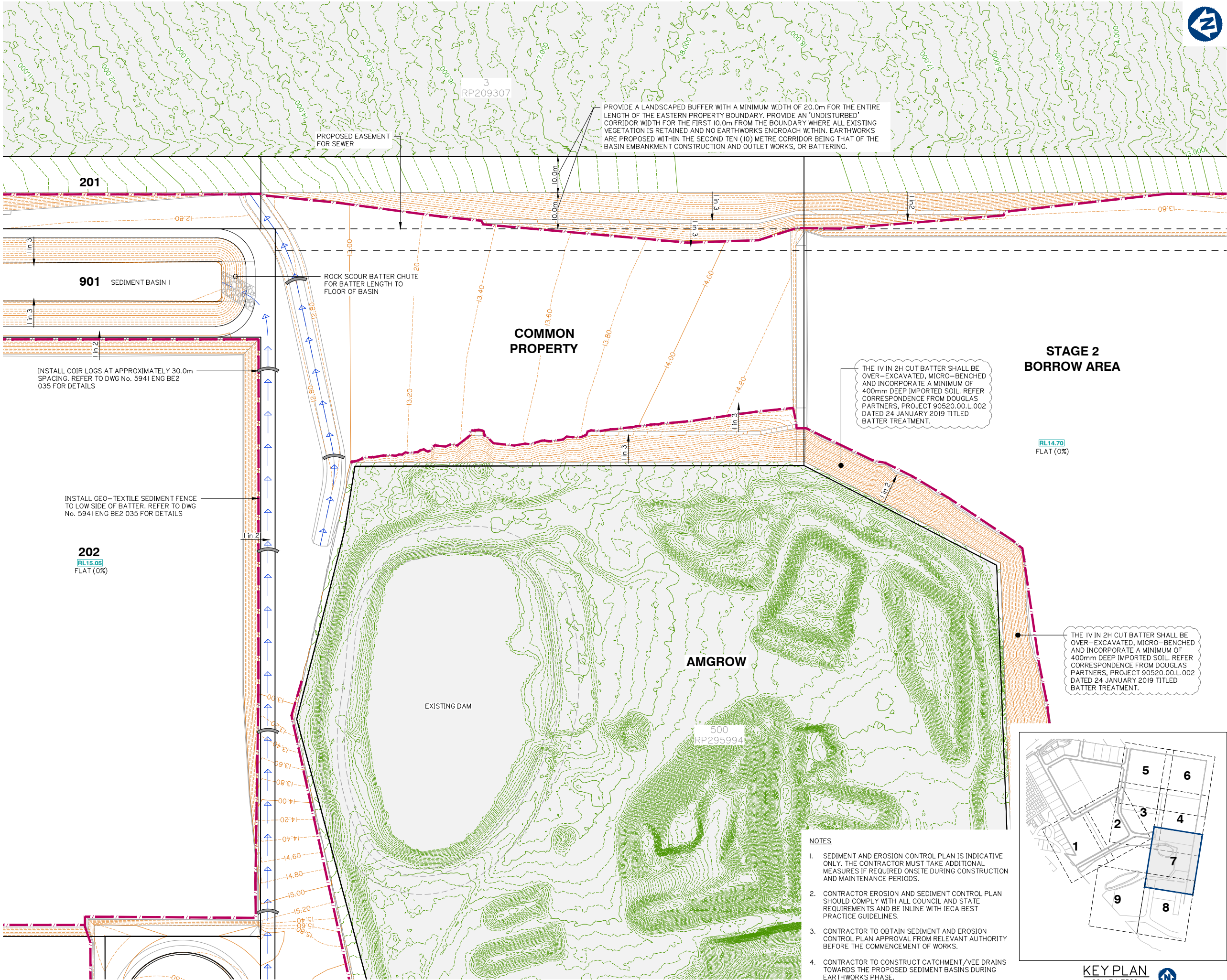


1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

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

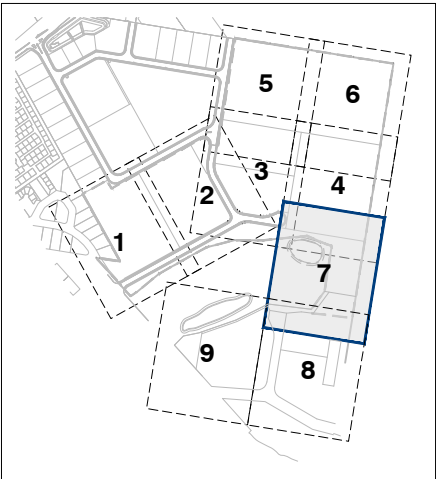


FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 023

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 027

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.
2. CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
4. CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.



KEY PLAN
SCALE 1:7500

Client:



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
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 7 OF 9

Issue	Date	Information Request Response	Original Issue	IG	MG	BA	MG	DRN	CHK
B	15-02-2021								
A	20-11-2020								

SCALE IN METRES



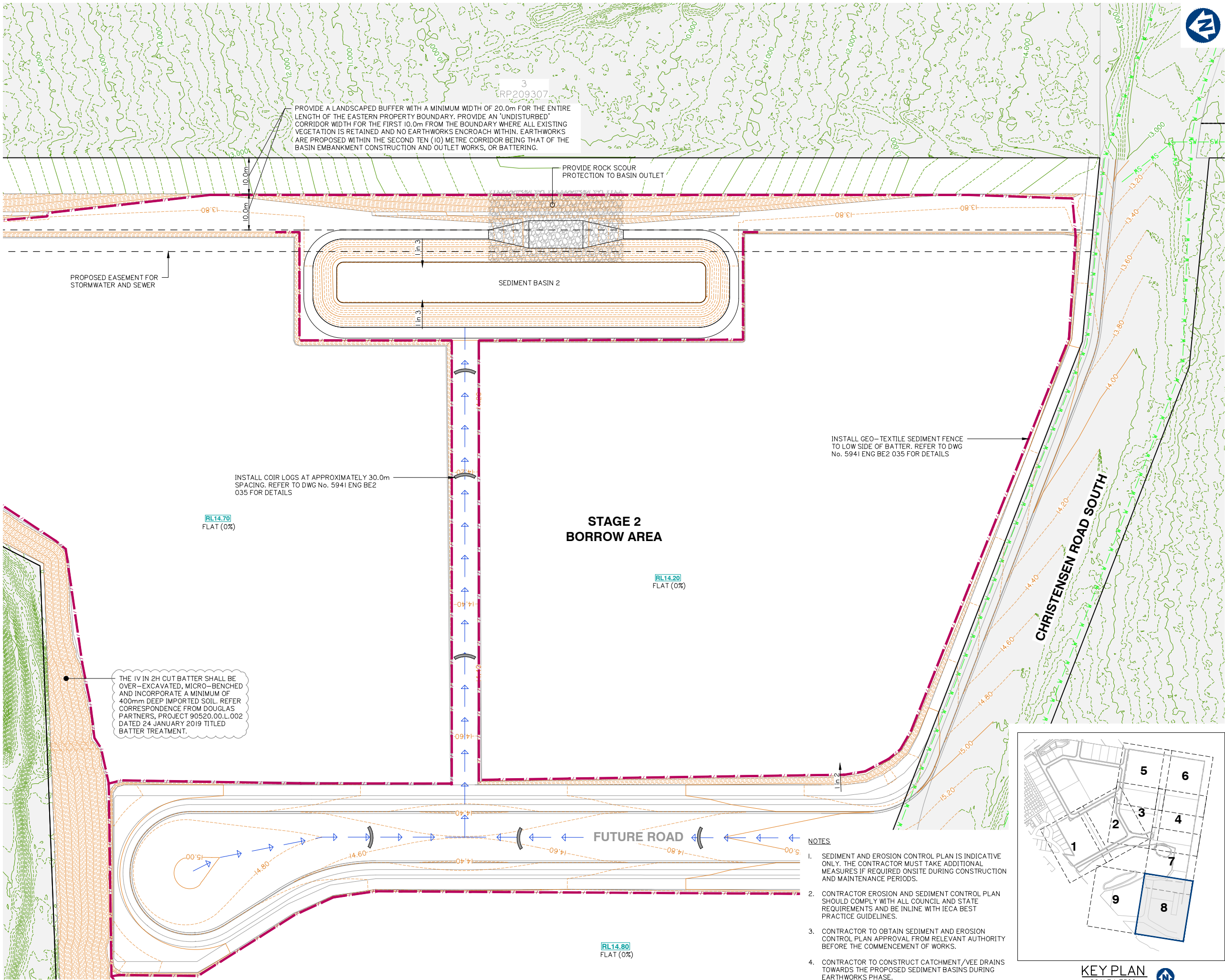
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 026

Rev. No:
B



FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 026

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 028

SEDIMENT AND EROSION CONTROL PLAN SHEET 8 OF 9

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RL: -

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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 8 OF 9

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



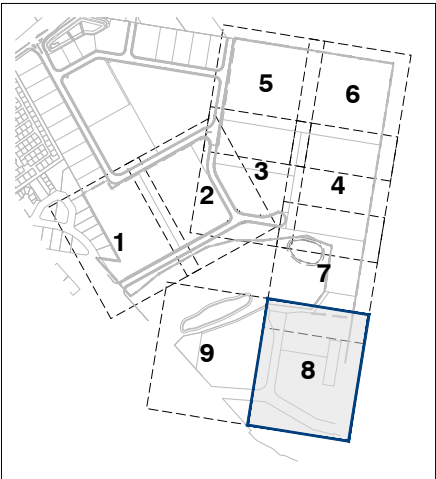
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 027

Rev. No:
B



KEY PLAN
SCALE 1:7500

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Project: **VantageYatala**
STAGE 2

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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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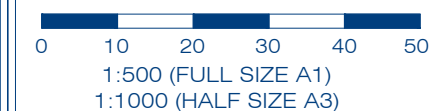
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 9 OF 9

B	15-02-2021	INFORMATION REQUEST RESPONSE		IG	MCI
A	20-11-2020	ORIGINAL ISSUE		BA	MCI
Issue	Date	Description		DRN	CH

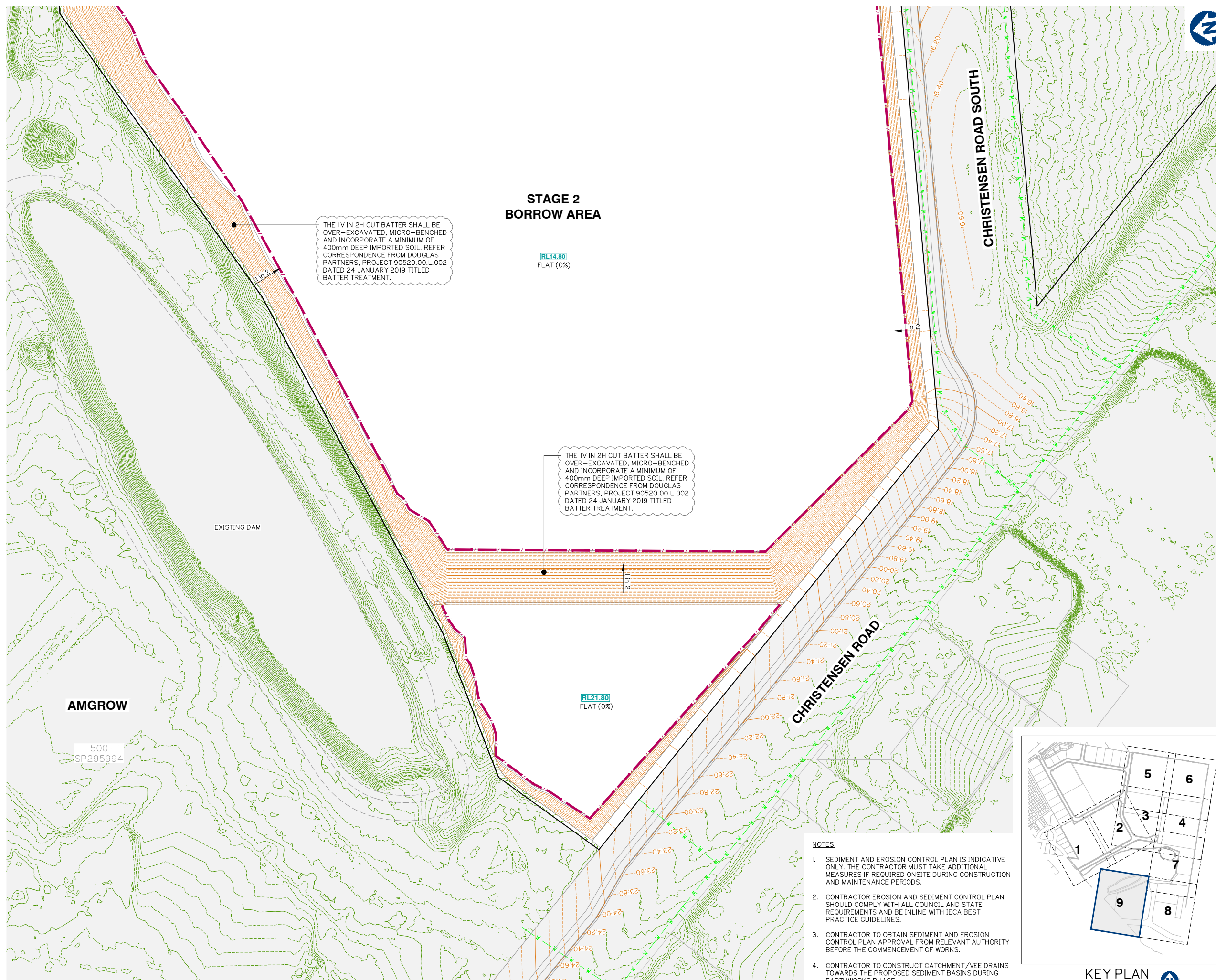
SCALE IN METRES



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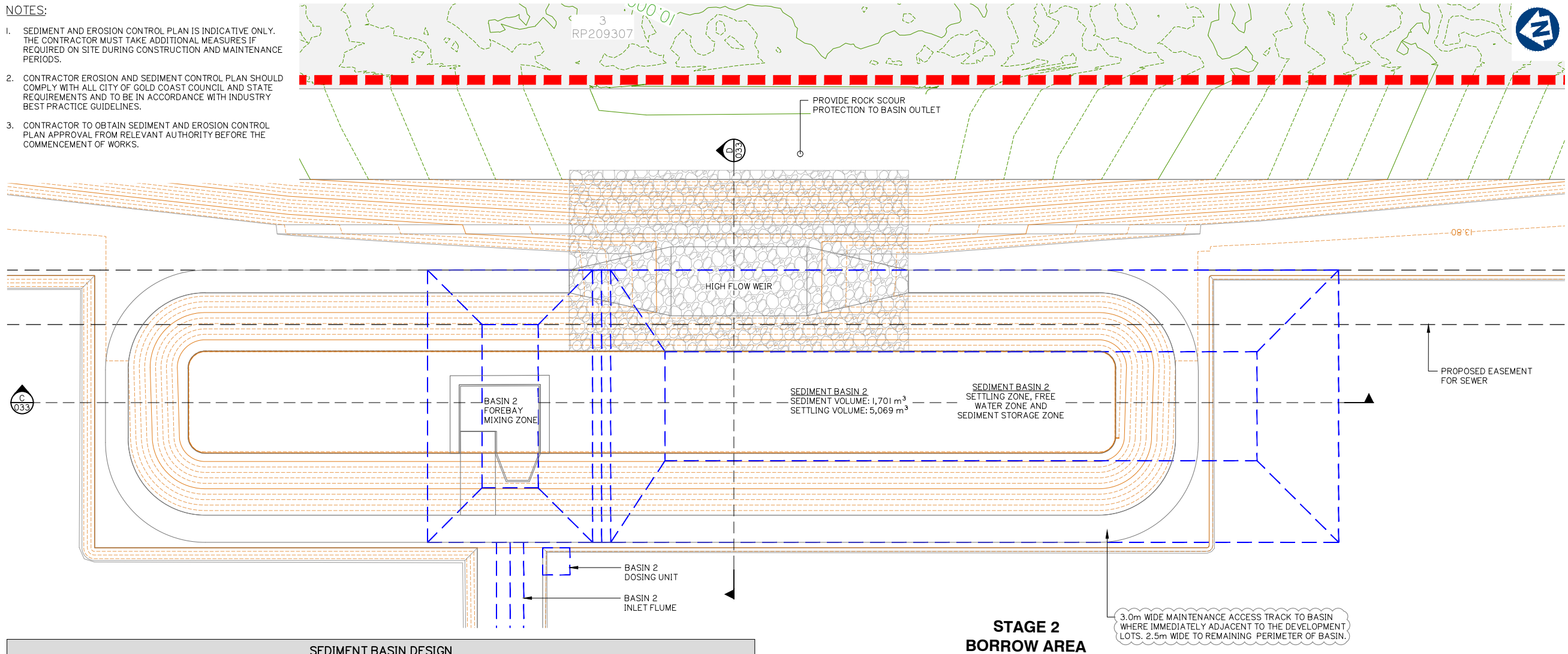
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 028	B



SEDIMENT AND EROSION CONTROL PLAN SHEET 9 OF 9

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



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

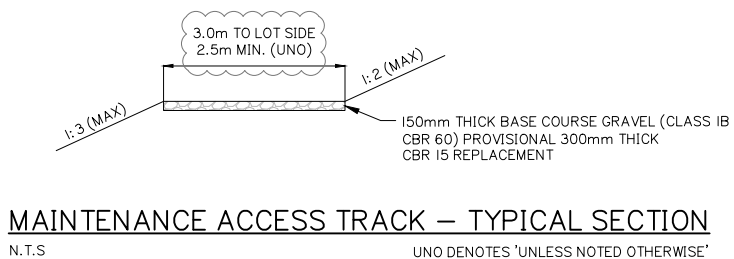
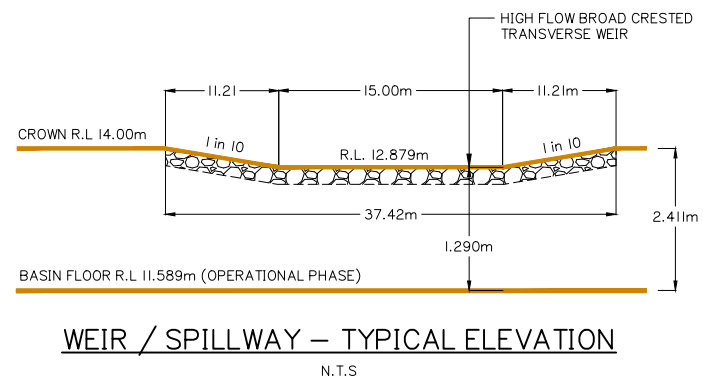
BASIN ID	CATCHMENT AREA	DESIGN EVENT	$i_{x\text{ yr}, 24\text{ hr}}$	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W:L	OPTIMUM LOW-FLOW DECAT RATE	SELECTED LOW-FLOW DECAT RATE (Q_d)	MIN SETTLLING ZONE VOLUME (Min V_s)	MIN SETTLLING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m^3)	(m^2)	
LPoD-2	9.904	1	4.53	20	11150	1.76	3	9	9	2434	994	VOLUME

	SETTLING ZONE			FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
BASIN ID	ACTUAL SETTLING ZONE VOLUME (V_s)	ACTUAL SETTLING ZONE AREA (A_s)	SCOUR VELOCITY	DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
	(m^3)	(m^2)	(m/s)	(m)	(m^3)	(m^3)	(m)	(1: X)	(m)	(m)	(m)
LPoD-2	2434	1383	0.007	0.35	243	730	0.89	3	26.75	80.25	3.00

BASIN ID	BASIN DESIGN LIFE	SPILLWAY									
		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	25	143	3.62	0.20	15.0	12.879	13.529

	Flow Rate		Flume Design Parameters				Velocity Check			Output Parameters		
Basin ID	Basin Design Flow (m³/s)	Flume Design Flow (m³/s)	Base Width (m)	Slide Slope (1: x)	Longitudinal Slope (m/m)	Flume Lining	Max Allowable Velocity (m/s)	Mannings Roughness	Velocity (m/s)	Flow Depth (m)	Flume Depth (m)	Calculated Flow (m³/s)
			b	x	s					d	y	
LPoD-2	3.62	5.43	3.00	2.00	0.01	Concrete	5.00	0.013	3.515	0.42	0.57	5.67

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-2	3164.1	80.3	26.8	3.00	644.01	8.0	26.8	3.00	15.0	12.88	13.53	13.08	3.0	2.0	0.6



Client:



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: -
PSM: -
RI: -

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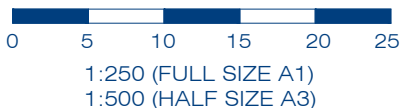
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DRAWING TITLE

CONSTRUCTION PHASE
SEDIMENT BASIN 2
LAYOUT SHEET 4 OF 4

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:

1:250

Designed:

IG

Drafted:

BA

Approve

MG

RPEQ:

16939

Signed:

Wickham

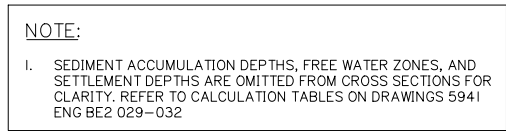
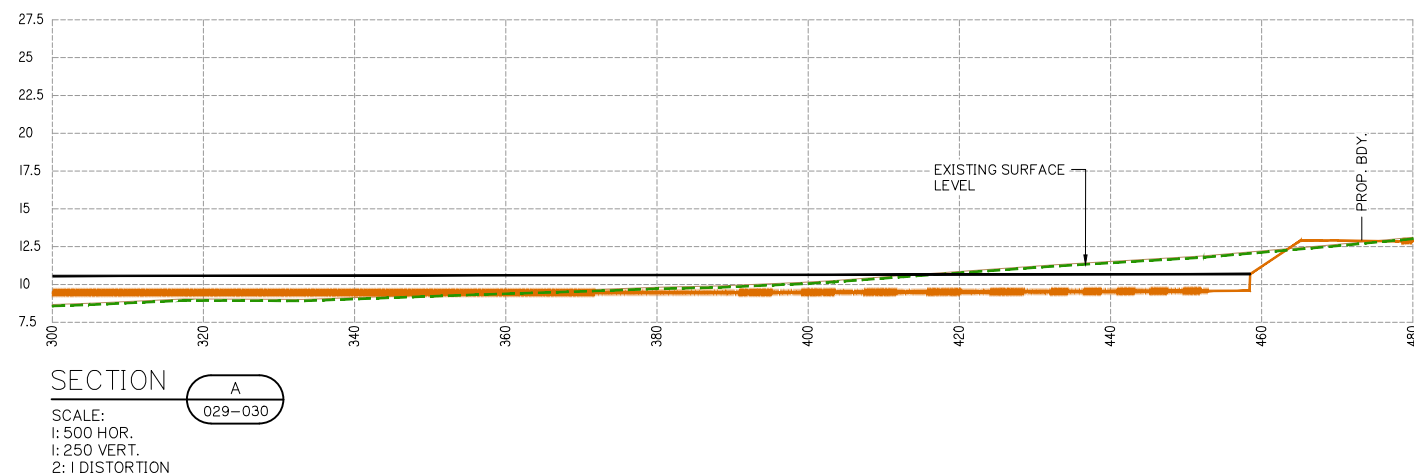
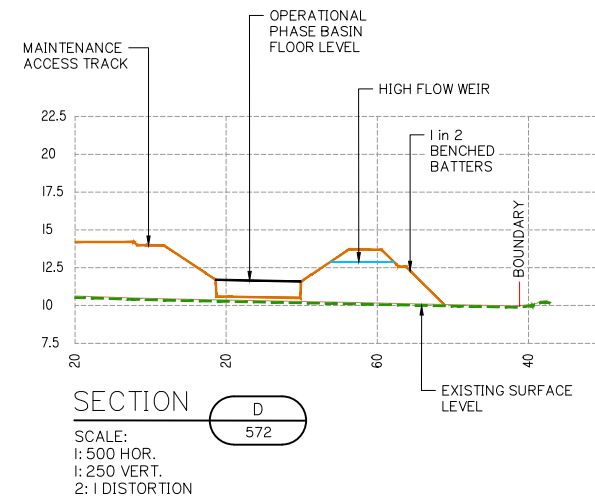
Date:

21

Drawing No:

Rev. No:

B



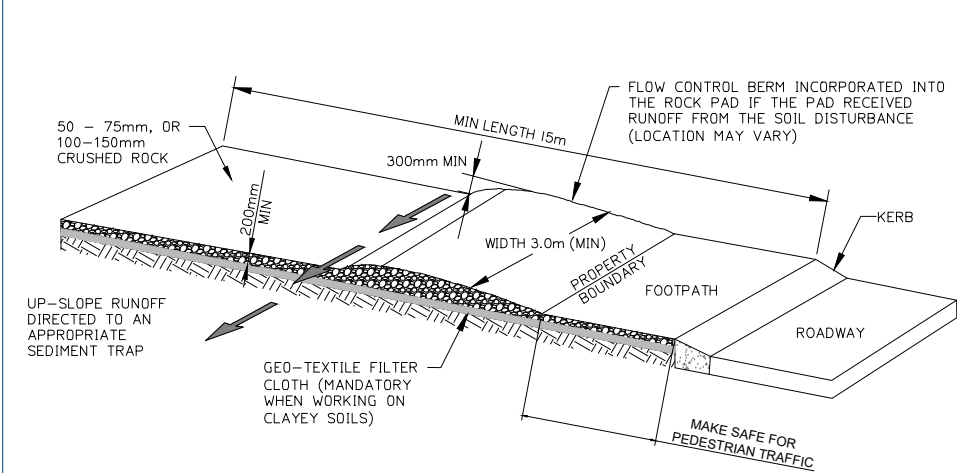
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK



Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

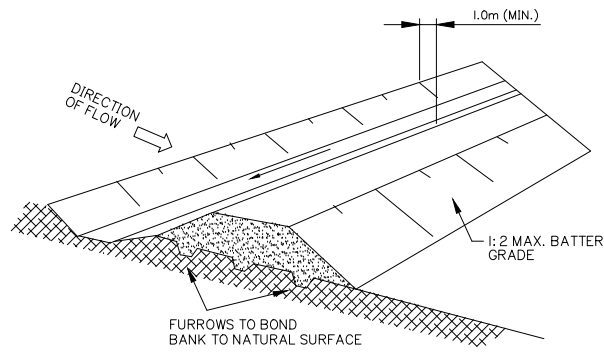


Drawing No:	Rev. No:
5941 ENG BE2 034	A



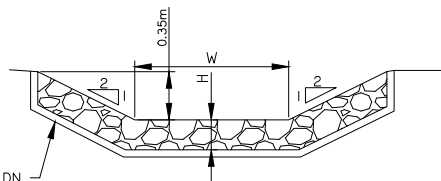
ENTRY/EXIT PAD FOR CONSTRUCTION SITE

NOT TO SCALE



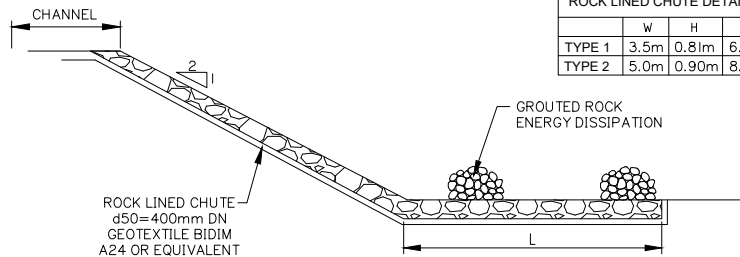
DIVERSION DRAIN

NOT TO SCALE



ROCK LINED CHUTE d50=400mm DN
GEOTEXTILE BIDIM A24 OR EQUIVALENT

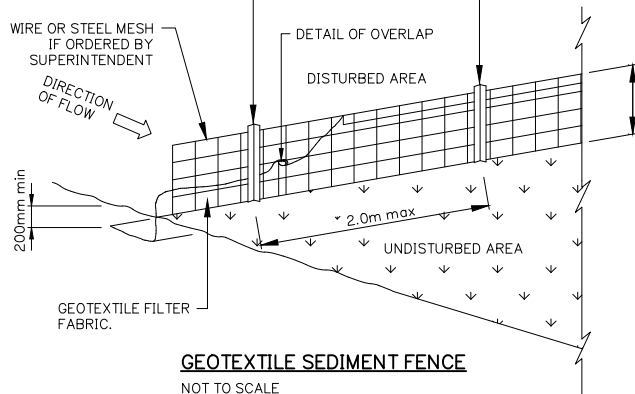
	W	H	L
TYPE 1	3.5m	0.81m	6.0m
TYPE 2	5.0m	0.90m	8.0m



ROCK LINED CHUTE

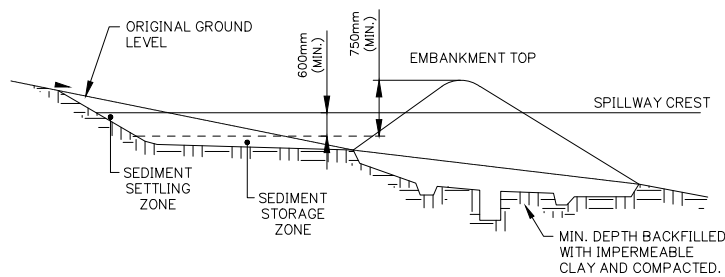
NOT TO SCALE

DRAINAGE AREA 0.6ha. MAX.
SLOPE GRADIENT 1:2 MAX.
SLOPE LENGTH 60m MAX.



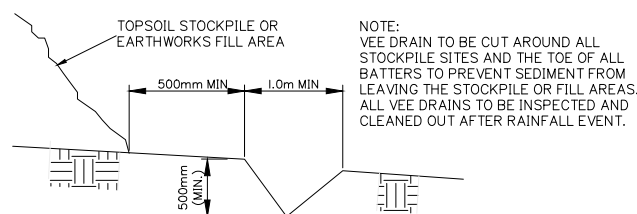
GEOTEXTILE SEDIMENT FENCE

NOT TO SCALE



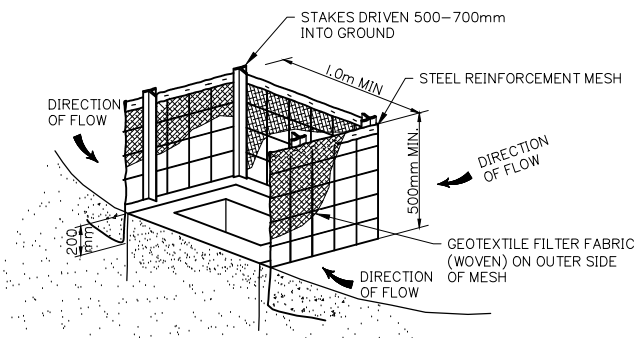
TYPICAL SEDIMENT BASIN

NOT TO SCALE



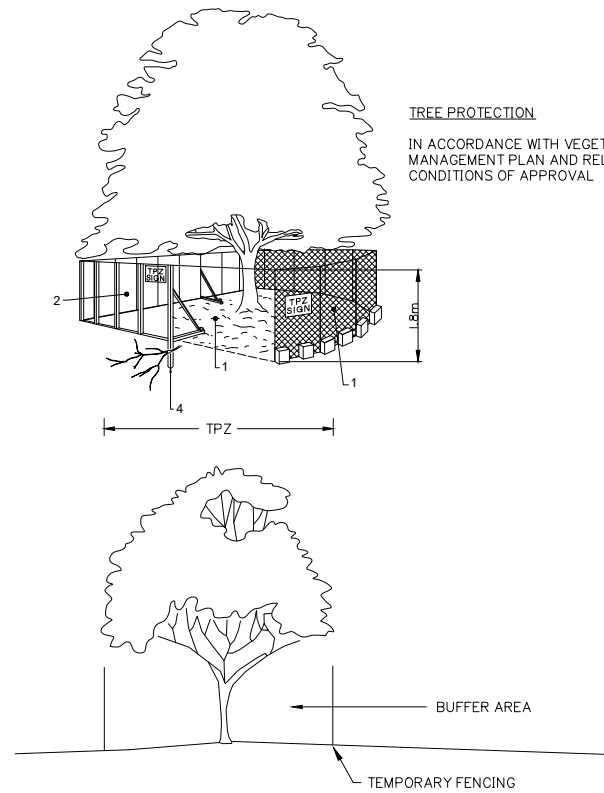
TYPICAL SECTION VEE DRAIN

NOT TO SCALE



STORMWATER INLET - SEDIMENT TRAP

NOTE:
FOURTH SIDE OF TRAP NOT SHOWN FOR CLARITY



TREE PROTECTION

IN ACCORDANCE WITH VEGETATION
MANAGEMENT PLAN AND RELEVANT
CONDITIONS OF APPROVAL

FENCING AS PER AS: 4970

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

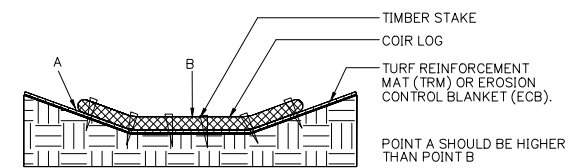
DETERMINING THE TPZ

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

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

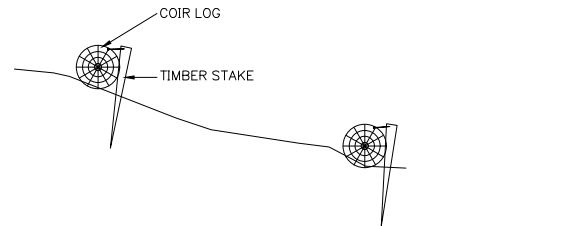
PROTECTIVE FENCING

NOT TO SCALE



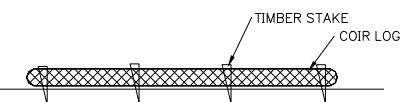
PROPER PLACEMENT OF COIR LOG IN DRAINAGE PATH

NOT TO SCALE



COIR LOG AND TIMBER STAKES STABILISING SLOPE

NOT TO SCALE



PROPER PLACEMENT OF COIR LOG IN SLOPE

NOT TO SCALE

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

SEDIMENT AND EROSION
TYPICAL DETAILS

Issue	Date	Description	BA	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG

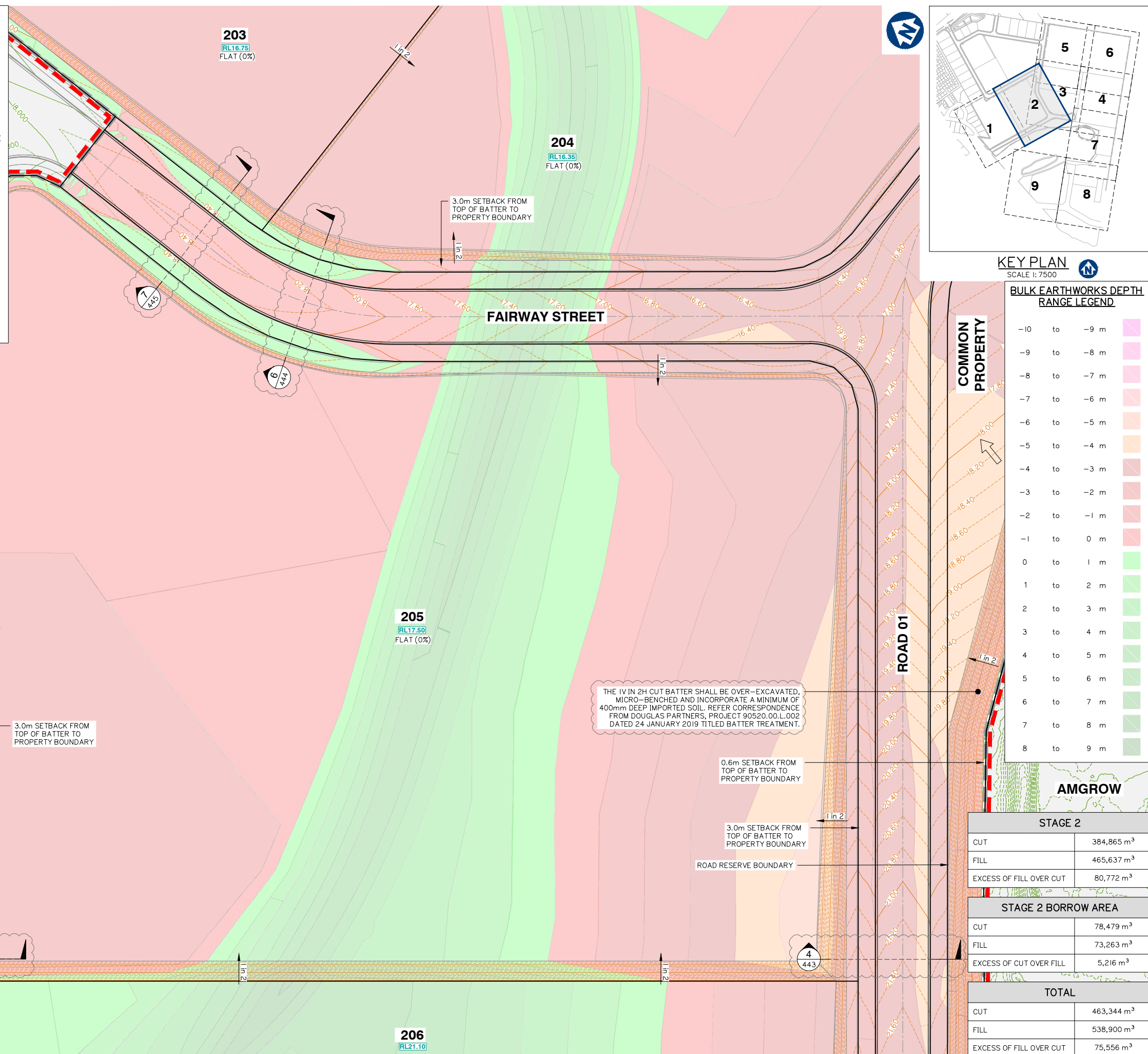
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1:10000 (FULL SIZE A1)
1:20000 (HALF SIZE A3)

Scale at A1: 1:XXXX

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No: 5941 ENG BE2 035
Rev. No: A



B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

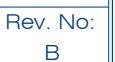
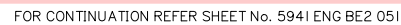
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

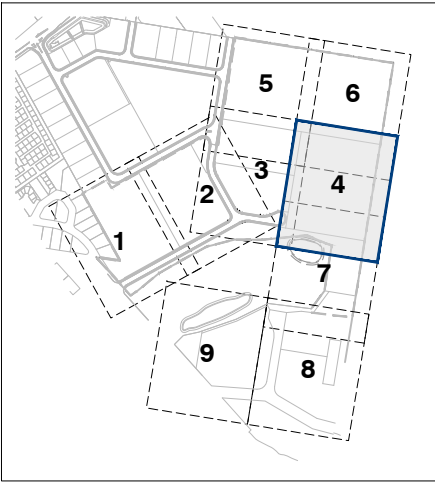


STAGE 2	
CUT	384,865 m ³
FILL	465,637 m ³
EXCESS OF FILL OVER CUT	80,772 m ³

STAGE 2 BORROW AREA	
CUT	78,479 m ³
FILL	73,263 m ³
EXCESS OF CUT OVER FILL	5,216 m ³

TOTAL	
CUT	463,344 m ³
FILL	538,900 m ³
EXCESS OF FILL OVER CUT	75,556 m ³

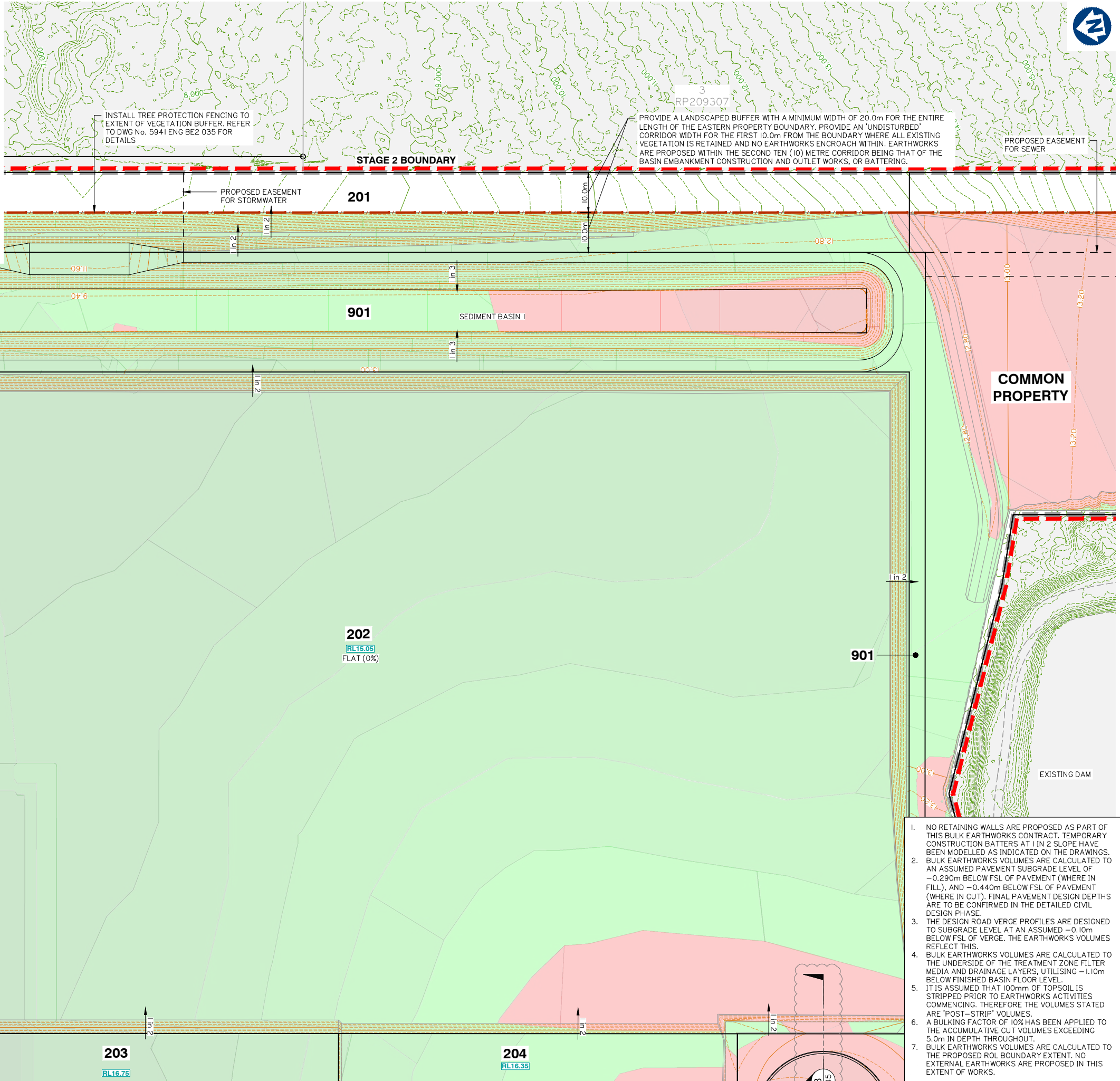




KEY PLAN
SCALE 1: 7500

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

STAGE 2	
CUT	384,865 m ³
FILL	465,637 m ³
EXCESS OF FILL OVER CUT	80,772 m ³
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CUT	78,479 m ³
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FILL	538,900 m ³
EXCESS OF FILL OVER CUT	75,556 m ³



- NO RETAINING WALLS ARE PROPOSED AS PART OF THIS BULK EARTHWORKS CONTRACT. TEMPORARY CONSTRUCTION BATTERS AT 1 IN 2 SLOPE HAVE BEEN MODELLED AS INDICATED ON THE DRAWINGS. 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.
- A BULKING FACTOR OF 10% HAS BEEN APPLIED TO THE ACCUMULATIVE CUT VOLUMES EXCEEDING 5.0m IN DEPTH THROUGHOUT.
- BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE PROPOSED ROL BOUNDARY EXTENT. NO EXTERNAL EARTHWORKS ARE PROPOSED IN THIS EXTENT OF WORKS.

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 052

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

BULK EARTHWORKS
LAYOUT PLAN SHEET 4 OF 9

Issue	Date	Original Issue	Description	BA	MG	DRN	CHK
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:	BA
Approved:	MG
RPEQ:	16939
Signed:	<i>Michael</i>
Date:	15-02-2021

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

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 055

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 056



Project: **VantageYatala**
STAGE 2

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

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

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

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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 5 OF 9

B	15-02-2021			ig	MO
A	20-11-2020	INFORMATION REQUEST RESPONSE		BA	MG
		ORIGINAL ISSUE		DGB	CH
Issue					

SCALE IN METRES



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

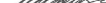
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Designed:	IG
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Drafted:	BA
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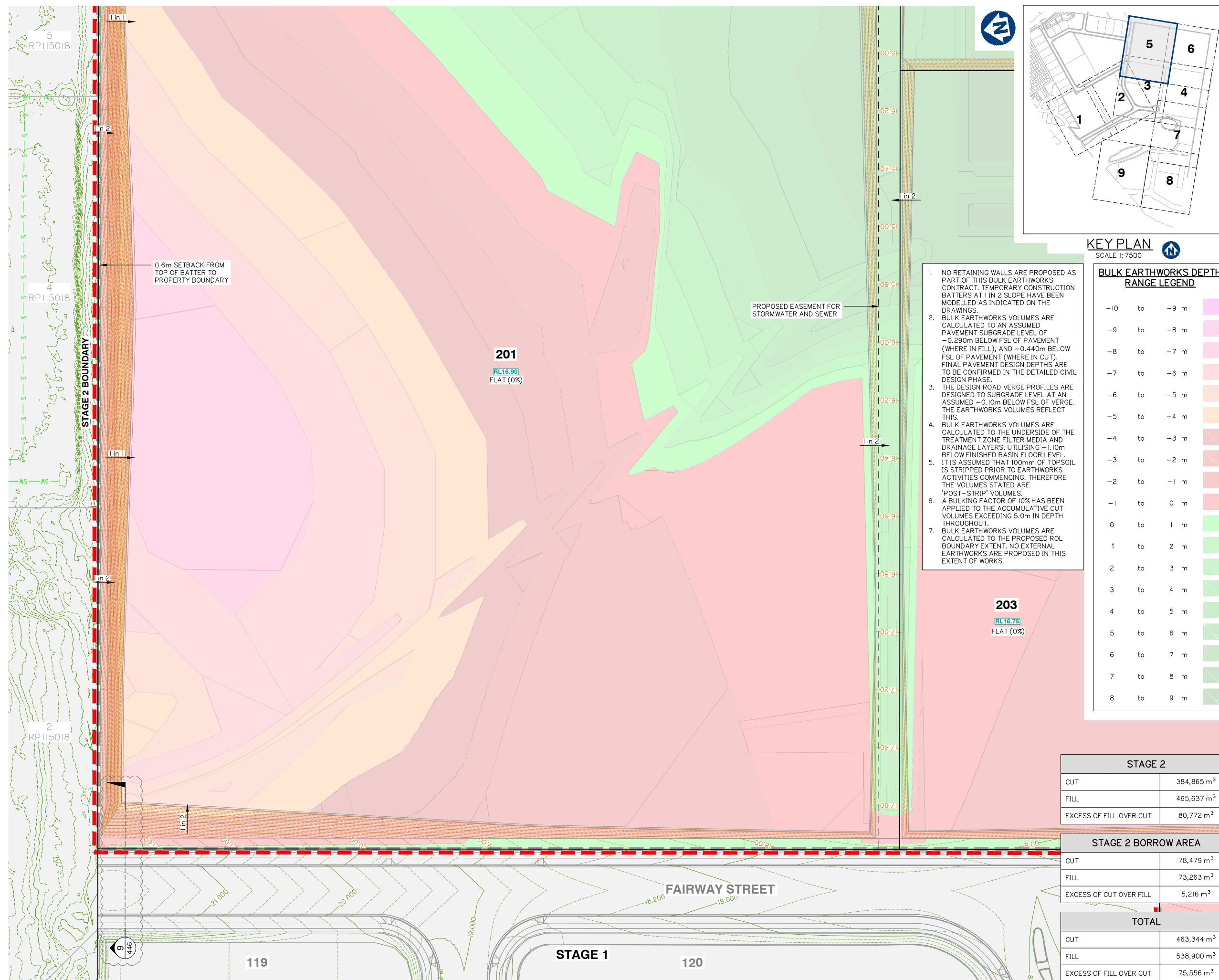
Approved:	MC
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RPEQ:	16939
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Signed:	
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Date:	15-02-2021
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Drawing No:	Rev. No:
5941 ENG BE2 054	B





1. NO RETAINING WALLS ARE PROPOSED AS PART OF THIS BULK EARTHWORKS CONTRACT. TEMPORARY CONSTRUCTION BATTERS AT 1 IN 2 SLOPE HAVE BEEN MODELLED AS INDICATED ON THE DRAWINGS.
2. BULK EARTHWORKS VOLUMES ARE CALCULATED TO AN ASSUMED PAVEMENT SUBGRADE LEVEL OF $\sim 200\text{m}$ BELOW FSL OF PAVEMENT (WHERE IN FILL), AND $\sim 0.440\text{m}$ BELOW FSL OF PAVEMENT (WHERE IN CUT). FINAL PAVEMENT DESIGN DEPTHS ARE TO BE CONFIRMED IN THE DETAILED CIVIL DESIGN PHASE.
3. THE DESIGN ROAD VERGE PROFILES ARE DESIGNED TO SUBGRADE LEVEL AT AN ASSUMED $\sim 0.10\text{m}$ BELOW FSL OF VERGE. THE EARTHWORKS VOLUMES REFLECT THIS.
4. BULK EARTHWORKS VOLUMES ARE CALCULATED TO UNDERLIE THE TREATMENT ZONE FILTER MEDIA AND DRAINAGE LAYERS, UTILISING $\sim 1.0\text{m}$ BELOW FINISHED BASIN FLOOR LEVEL.
5. IT IS ASSUMED THAT 100mm OF TOPSOIL IS STRIPPED PRIOR TO EARTHWORKS ACTIVITIES COMMENCING. THEREFORE THE VOLUMES STATED ARE 'POST-STRIP' VOLUMES.
6. A BULKING FACTOR OF 10% HAS BEEN APPLIED TO THE ACCUMULATIVE CUT VOLUMES EXCEEDING 5.0m IN DEPTH THROUGHOUT.
7. BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE PROPOSED ROL BOUNDARY EXTENT. NO EXTERNAL EARTHWORKS ARE PROPOSED IN THIS EXTENT OF WORKS.

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	

STAGE 2	
CUT	384,865 m ³
FILL	465,637 m ³
EXCESS OF FILL OVER CUT	80,772 m ³

STAGE 2 BORROW AREA	
CUT	78,479 m ³
FILL	73,263 m ³
EXCESS OF CUT OVER FILL	5,216 m ³

TOTAL	
CUT	463,344 m ³
FILL	538,900 m ³
EXCESS OF FILL OVER CUT	75,556 m ³

Client:



Projects

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 6 OF 9

[illegible]

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
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Drafted:	BA
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Approved:	MG
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RPEQ:	16939
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Signed: 

Date: 20-11-2020

Drawing No:
5941 ENG BE2 055

Rev. No:
A



STAGE 2	
CUT	384,865 m ³
FILL	465,637 m ³
EXCESS OF FILL OVER CUT	80,772 m ³
STAGE 2 BORROW AREA	
CUT	78,479 m ³
FILL	73,263 m ³
EXCESS OF CUT OVER FILL	5,216 m ³
TOTAL	
CUT	463,344 m ³
FILL	538,900 m ³
EXCESS OF FILL OVER CUT	75,556 m ³



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: -
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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 7 OF 9

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
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 056	B

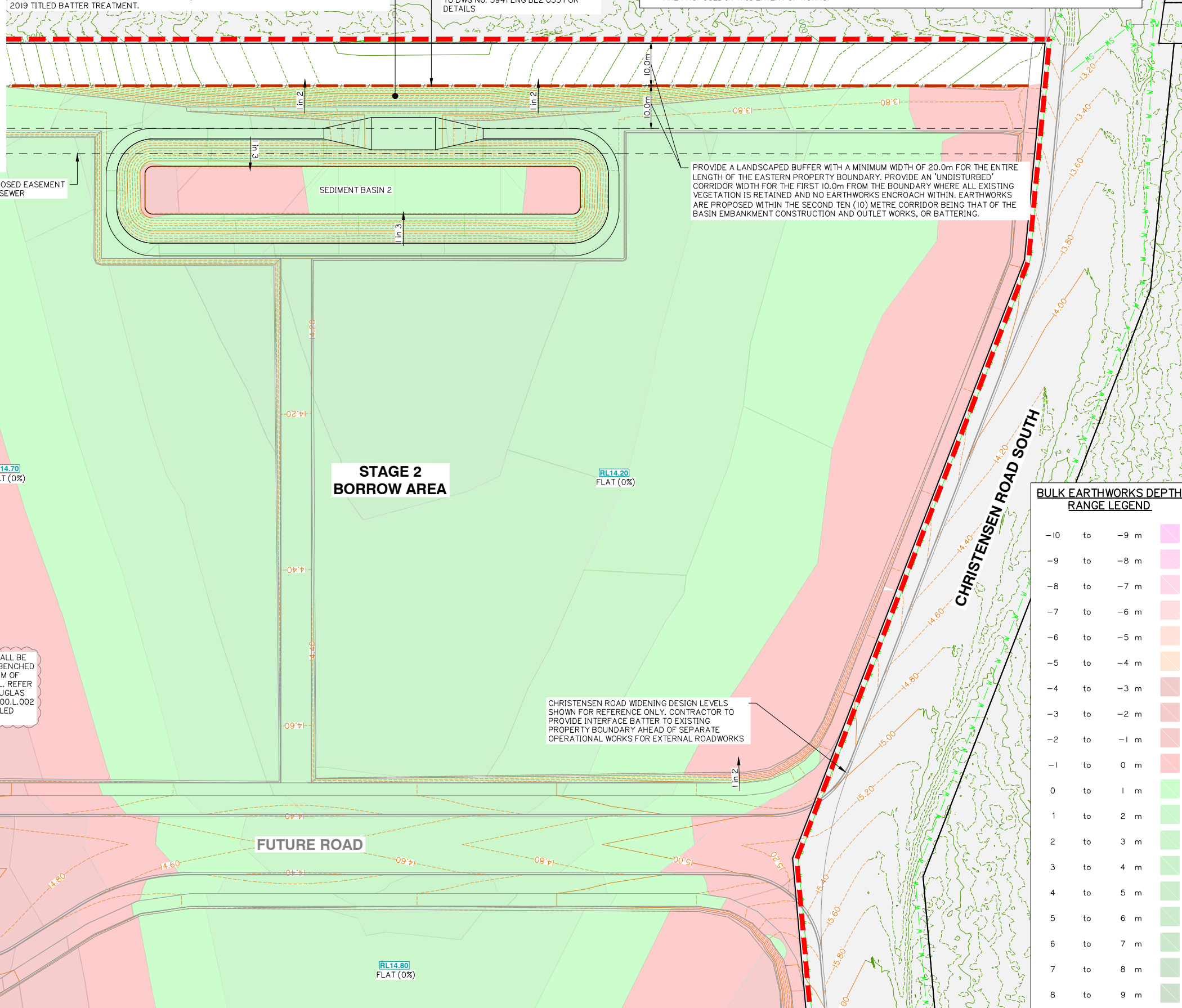


TOTAL	
CUT	463,344 m³
FILL	538,900 m³
EXCESS OF FILL OVER CUT	75,556 m³

1. NO RETAINING WALLS ARE PROPOSED AS PART OF THIS BULK EARTHWORKS CONTRACT. TEMPORARY CONSTRUCTION BATTERS AT 1 IN 2 SLOPE HAVE BEEN MODELLED AS INDICATED ON THE DRAWINGS.
2. 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.
3. THE DESIGN ROAD VERGE PROFILES ARE DESIGNED TO SUBGRADE LEVEL AT AN ASSUMED -0.10m BELOW FSL OF VERGE. THE EARTHWORKS VOLUMES REFLECT THIS.
4. BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF THE TREATMENT ZONE FILTER MEDIA AND DRAINAGE LAYERS, UTILISING -1.0m BELOW FINISHED BASIN FLOOR LEVEL.
5. IT IS ASSUMED THAT 100mm OF TOPSOIL IS STRIPPED PRIOR TO EARTHWORKS ACTIVITIES COMMENCING. THEREFORE THE VOLUMES STATED ARE 'POST-STRIP' VOLUMES.
6. A DRAINAGE FACTOR OF 10% HAS BEEN APPLIED TO THE ACCUMULATIVE CUT VOLUMES EXCEEDING 5.0m IN DEPTH THROUGHOUT.
7. BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE PROPOSED ROL BOUNDARY EXTENT. NO EXTERNAL EARTHWORKS ARE PROPOSED IN THIS EXTENT OF WORKS.

ALL BATTERS PROPOSED WITHIN THE 20.0m WIDE BUFFER AREA TO THE EASTERN BOUNDARY ARE TO HAVE A MAXIMUM GRADIENT OF 1 IN 1 WHERE THE BATTER IS WITHIN FILL AND IV IN 2H WHERE THE BATTER IS WITHIN CUT. THE IV IN 2H CUT BATTER SHALL BE OVER-EXCAVATED, MICRO-BENCHED AND INCORPORATE A MINIMUM OF 400mm DEEP IMPORTED SOIL. REFER CORRESPONDENCE FROM DOUGLAS PARTNERS, PROJECT 90520.00.L002 DATED 24 JANUARY 2019 TITLED BATTER TREATMENT.

INSTALL TREE PROTECTION FENCING TO
EXTENT OF VEGETATION BUFFER. REFER
TO DWG No. 5941 ENG BE2 035 FOR
DETAILS



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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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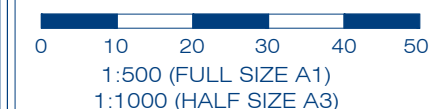
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 8 OF 9

B	15-02-2021			IG	MO
A	20-11-2020	INFORMATION REQUEST RESPONSE ORIGINAL ISSUE		BA	MA
Voglia				BN	CH

SCALE IN METRES

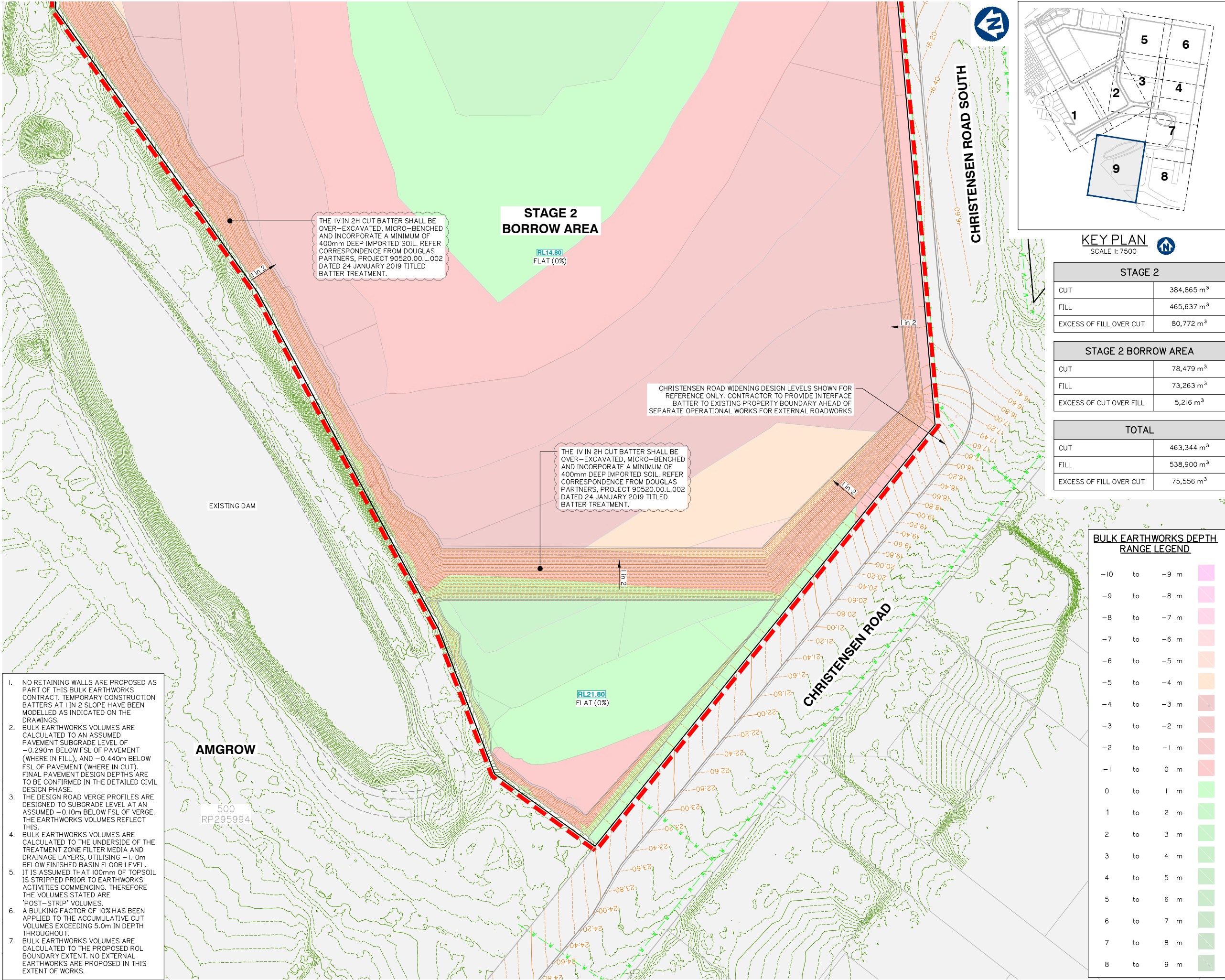


Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 057

Rev. No:
B



- NO RETAINING WALLS ARE PROPOSED AS PART OF THIS BULK EARTHWORKS CONTRACT. TEMPORARY CONSTRUCTION BATTERS AT 1 IN 2 SLOPE HAVE BEEN MODELLED AS INDICATED ON THE DRAWINGS.
- 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.
- A BULKING FACTOR OF 10% HAS BEEN APPLIED TO THE ACCUMULATIVE CUT VOLUMES EXCEEDING 5.0m IN DEPTH THROUGHOUT.
- BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE PROPOSED ROL BOUNDARY EXTENT. NO EXTERNAL EARTHWORKS ARE PROPOSED IN THIS EXTENT OF WORKS.



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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
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Level Datum: AHD
Meridian: -
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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 9 OF 9

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 058

Rev. No:
B



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

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

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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 1 OF 9

B	15-02-2021			ig	MO
A	20-11-2020	INFORMATION REQUEST RESPONSE		BA	MG
		ORIGINAL ISSUE		DGB	CH
Issue					

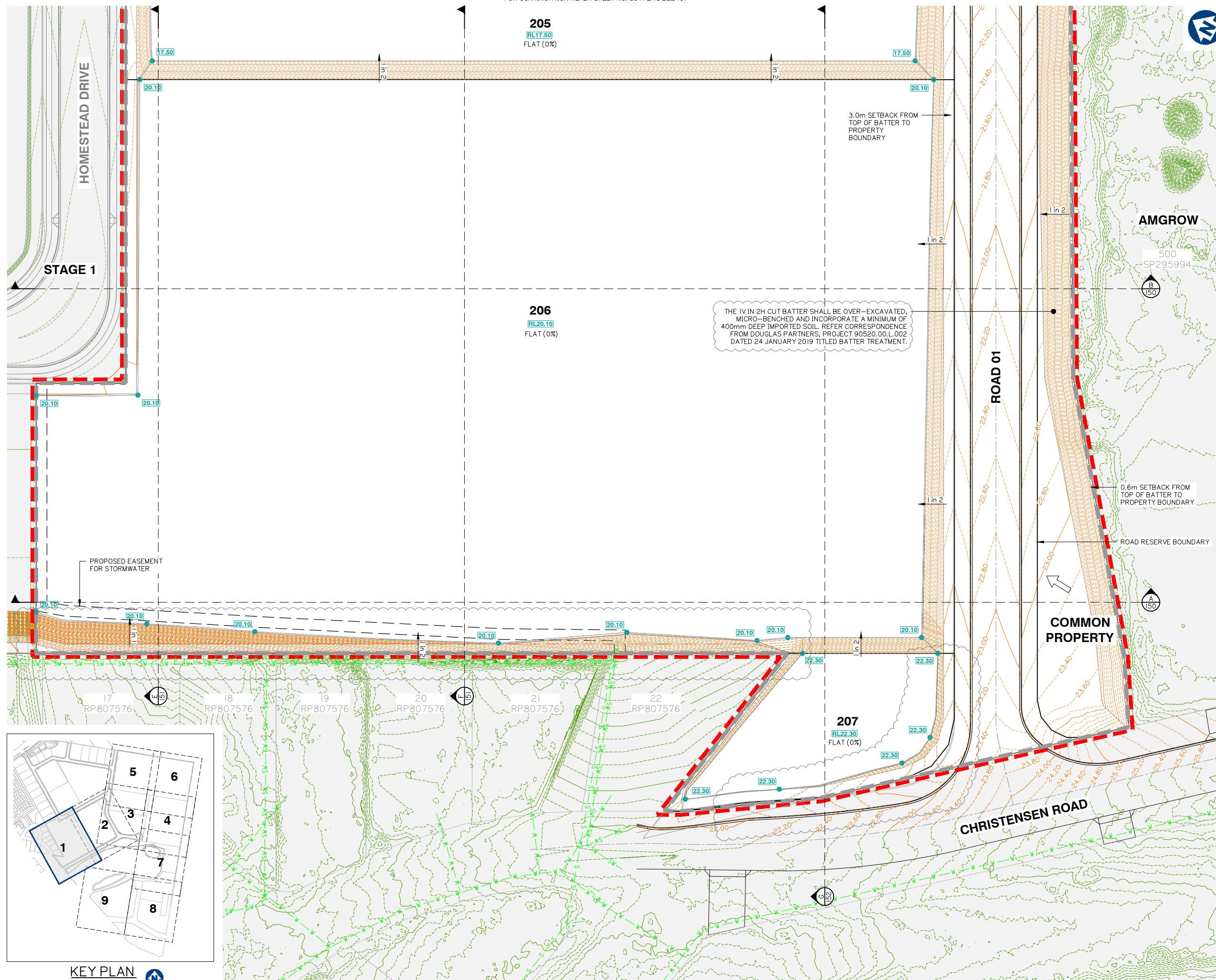
0 10 20 30 40 50

1:500 (FULL SIZE A1)

1:1000 (HALF SIZE A3)

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 100	B







Project: **VantageYatala**
STAGE 2

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:	-

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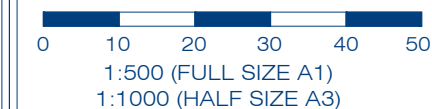
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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 5 OF 9

A Issue	20-11-2020		ORIGINAL ISSUE	BA DBU	MO CH-

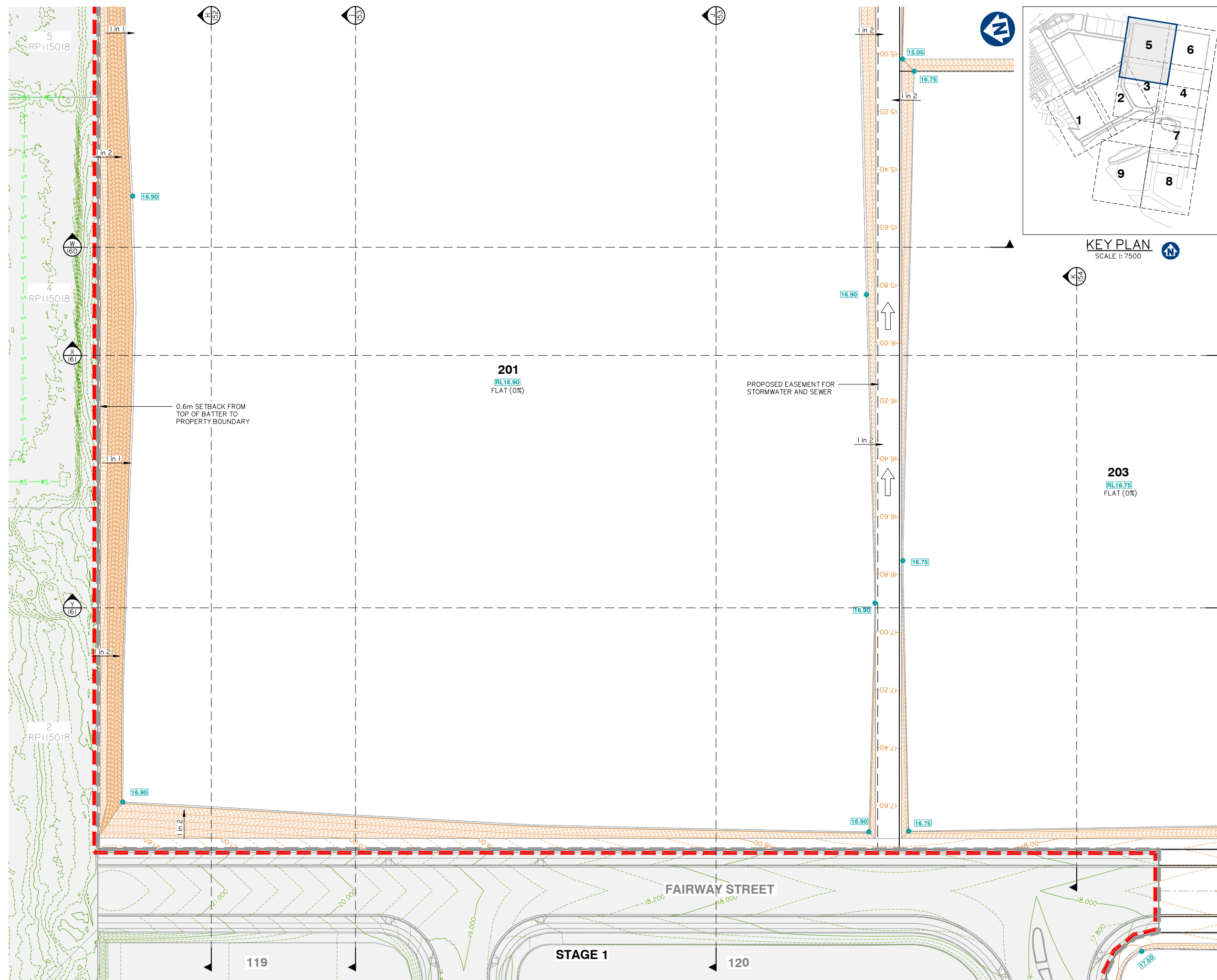
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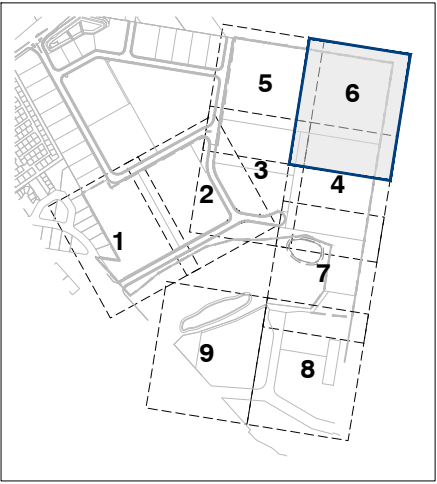


Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

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





KEY PLAN
SCALE 1: 7500



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Client:



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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:	-
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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 6 OF 9

A Issue	20-11-2020 Date	ORIGINAL ISSUE Description	BA DRI	MG CHK

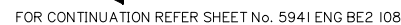
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:	Rev. No:
5941 ENG BE2 105	A



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

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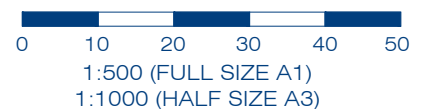
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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 8 OF 9

B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	29-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

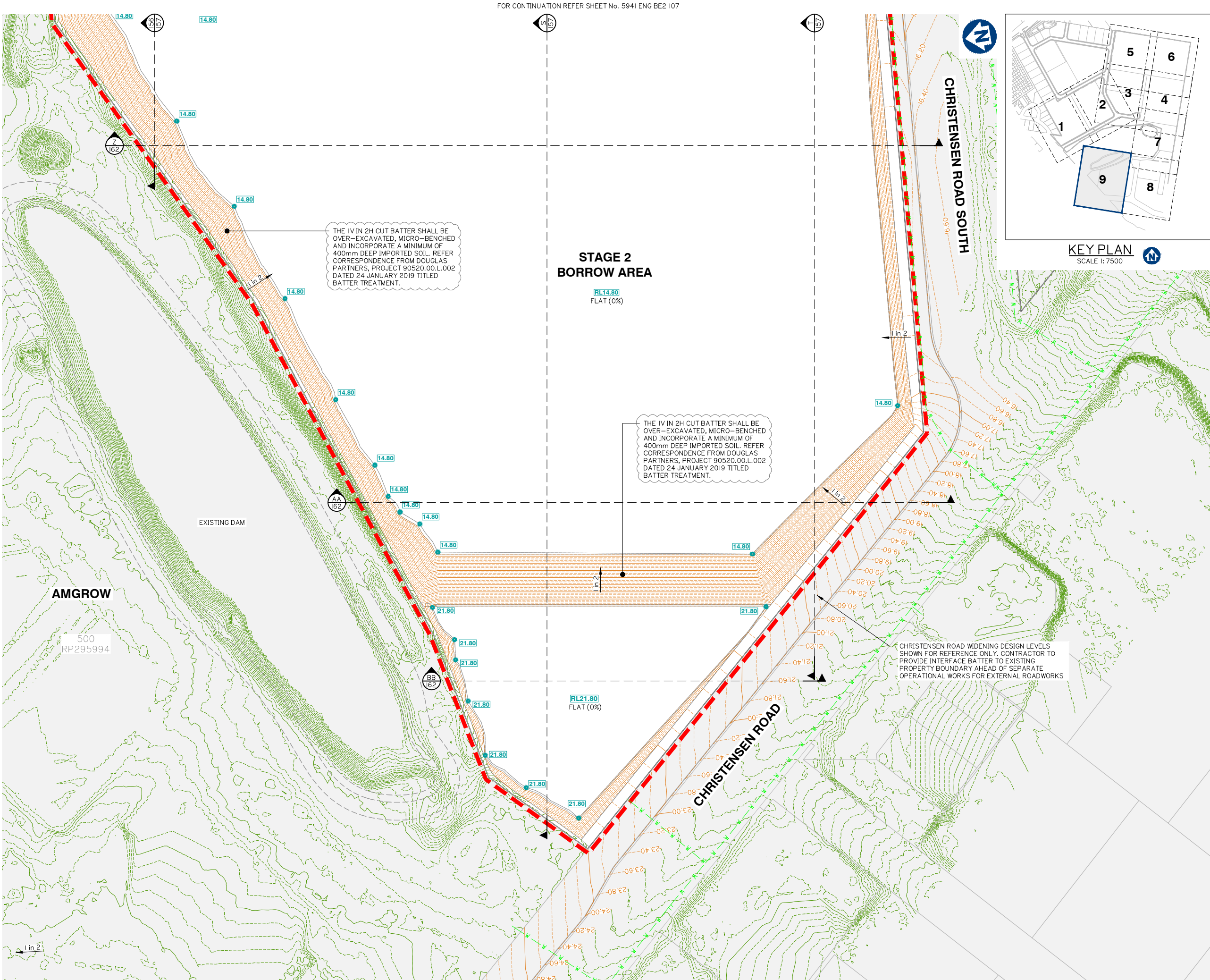
SCALE IN METRES



Scale at A1:	1:500
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 107	B



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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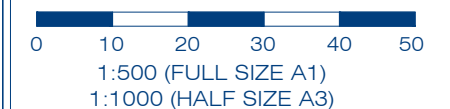
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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 9 OF 9

B	15-02-2021	INFORMATION REQUEST RESPONSE			IG MG
A	20-11-2020	ORIGINAL ISSUE			BA MG
Issue	Date	Description			DRN CHK

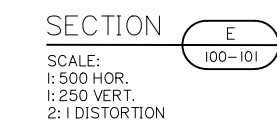
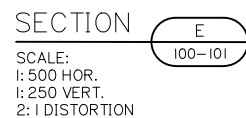
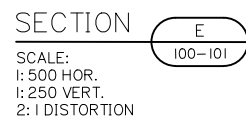
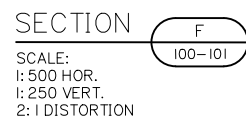
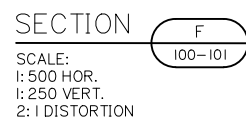
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No: 5941 ENG BE2 108
Rev. No: B



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
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 13

B	15-02-2021	INFORMATION REQUEST RESPONSE	IC	MO	
A	20-11-2020	ORIGINAL ISSUE	BA	MO	
Issue	Date	Description	DBN	CH	

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

Scale 1:250 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

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



FRASERS
PROPERTY

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

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

RPD:

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

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B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

Scale 1:500 - Lengths are in Metres.

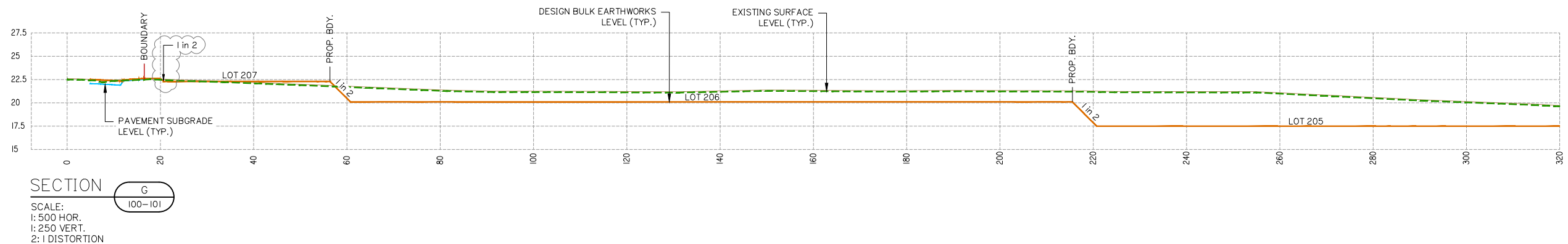
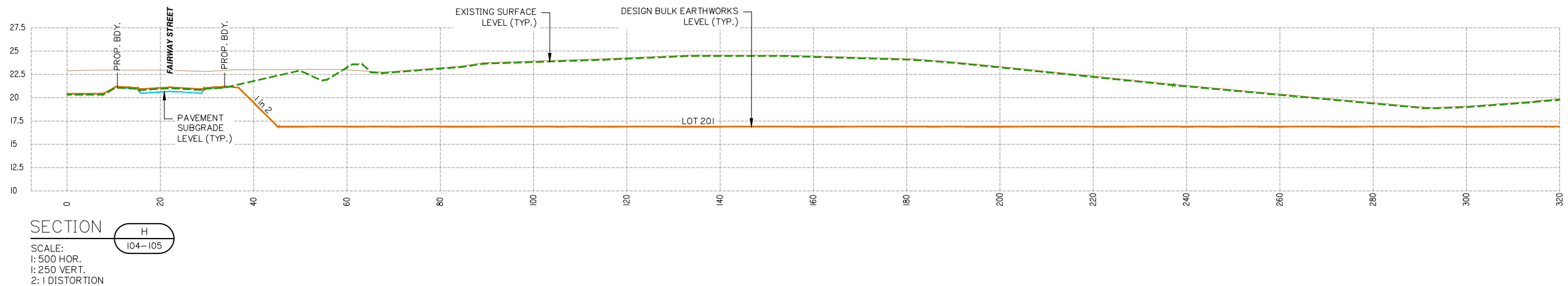
HOZ:

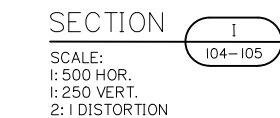
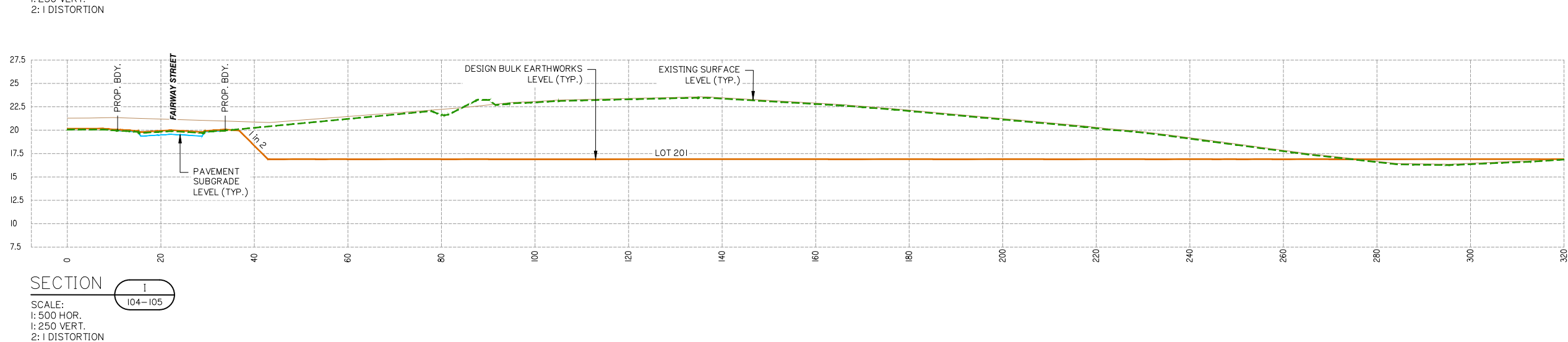
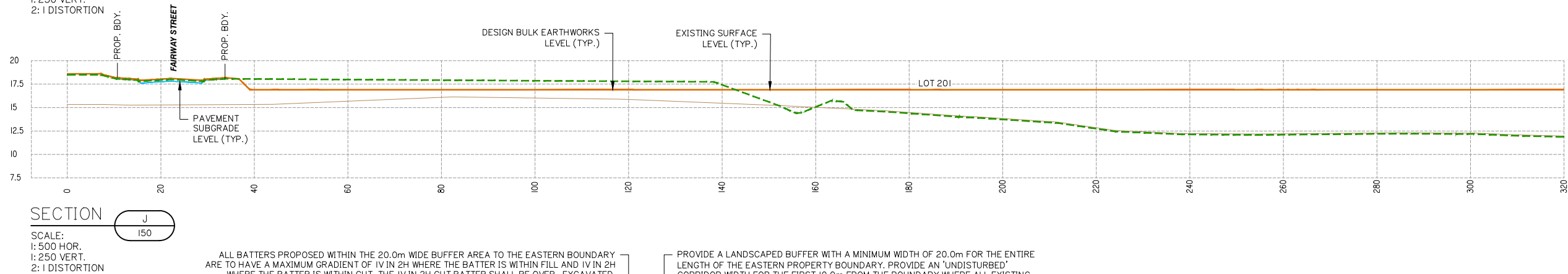
Scale 1:250 - Lengths are in Metres.

VERT:

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

FINISHED BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 13





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
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 4 OF 13

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	GHK

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

Scale 1:250 - Lengths are in Metres.

VERT:

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:	Rev. No:
5941 ENG BE2 153	A



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: -
 DSM: -
 L: -

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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 7 OF 13

[illegible]

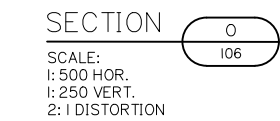
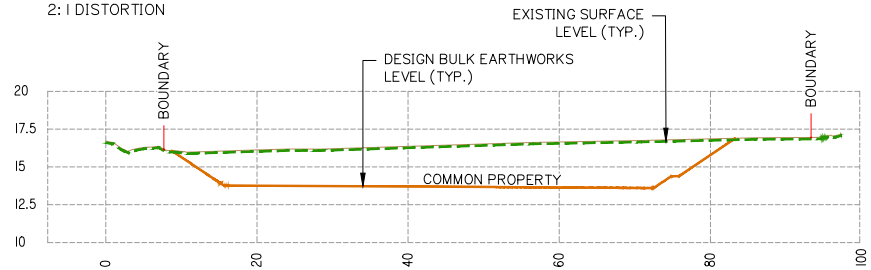
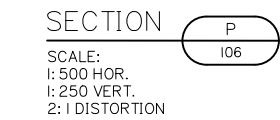
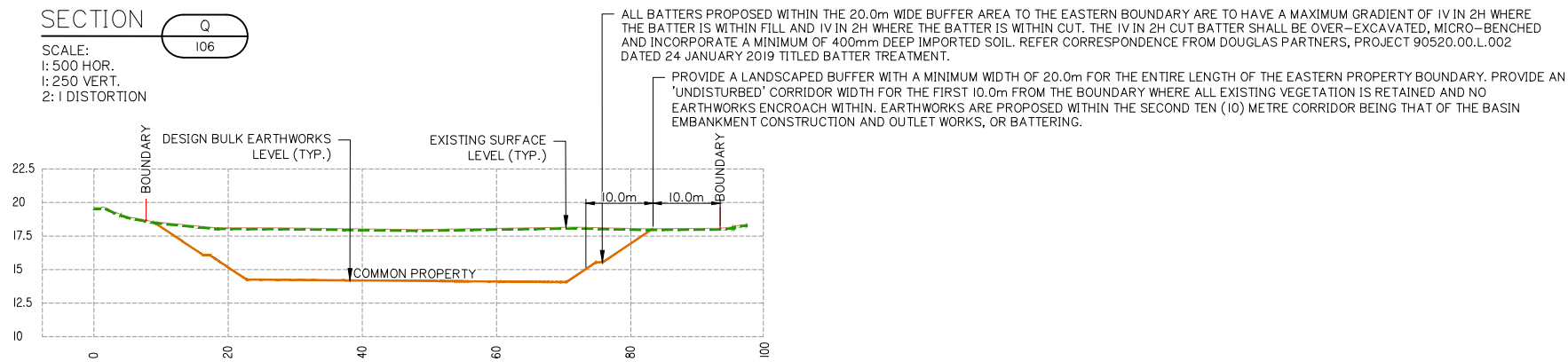
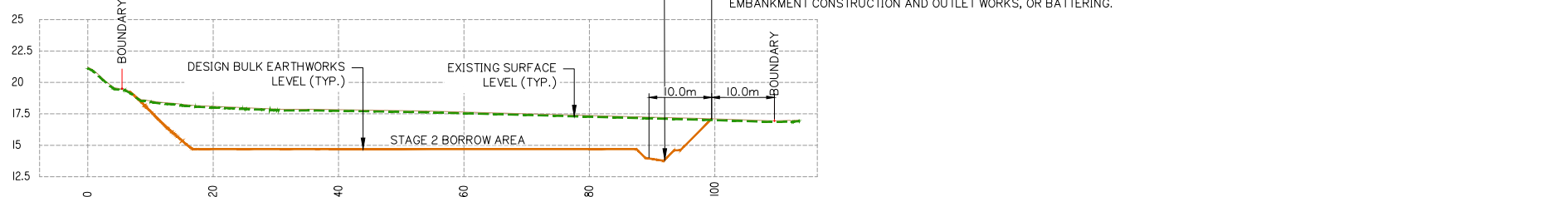
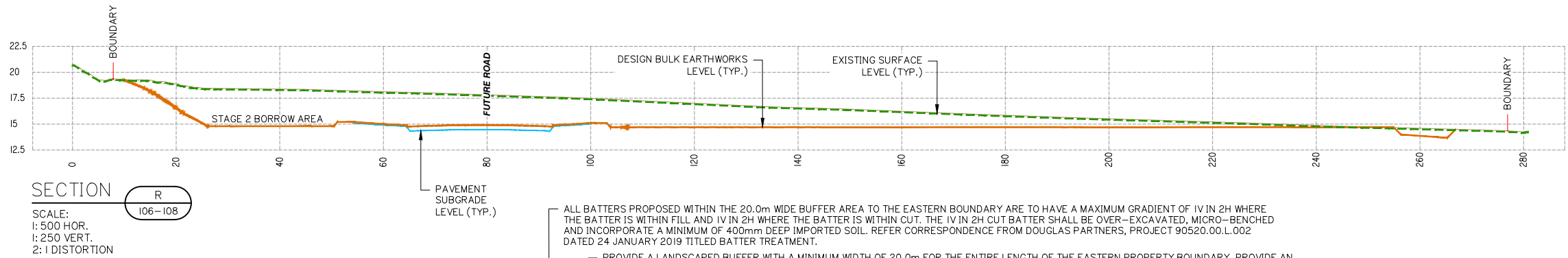
SCALE IN METRES



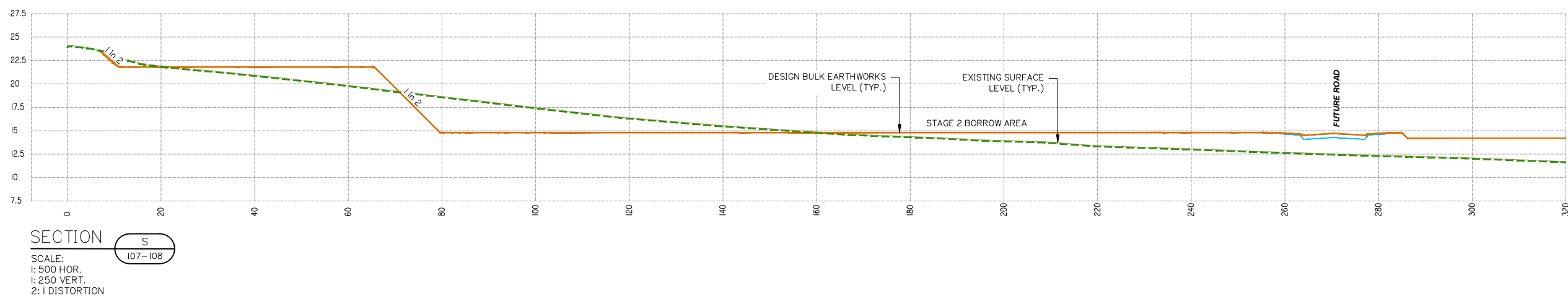
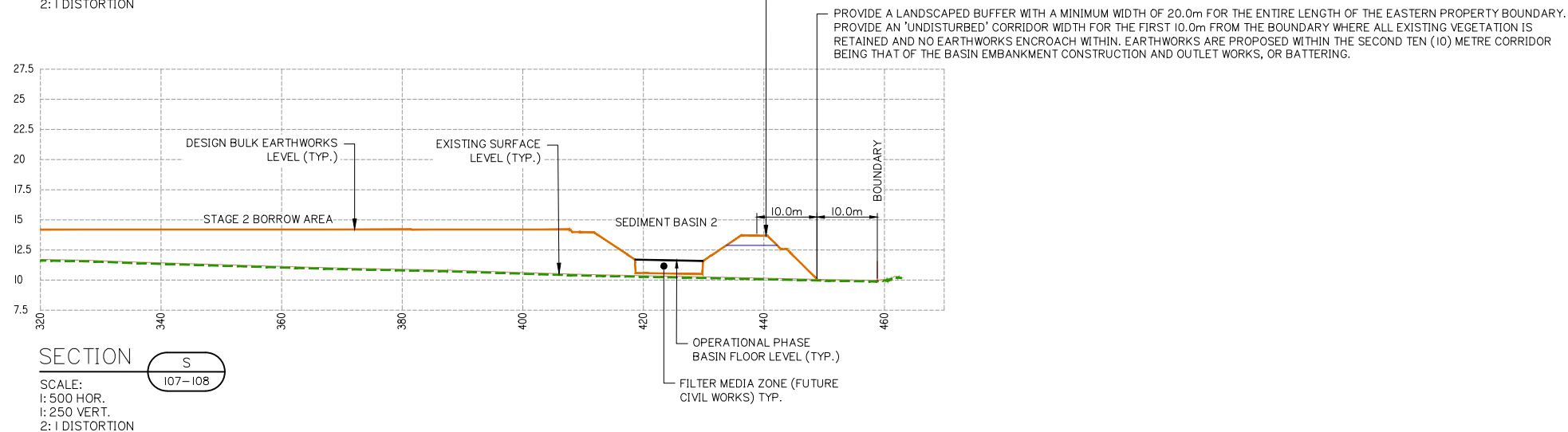
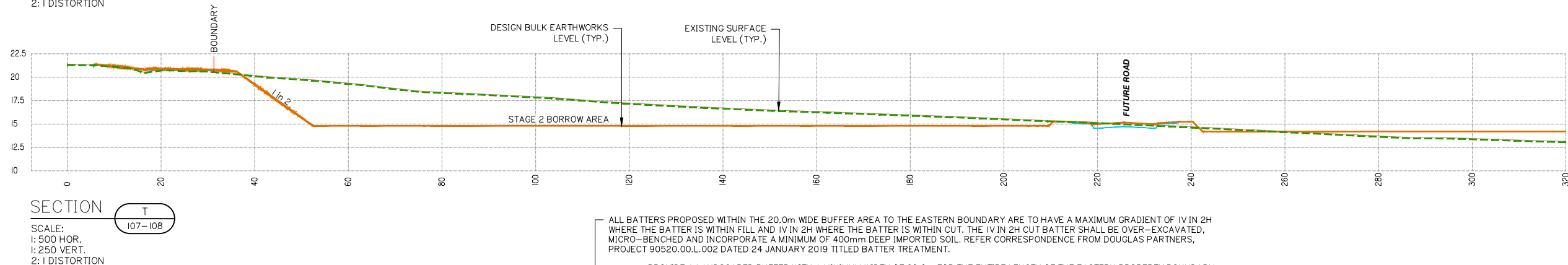
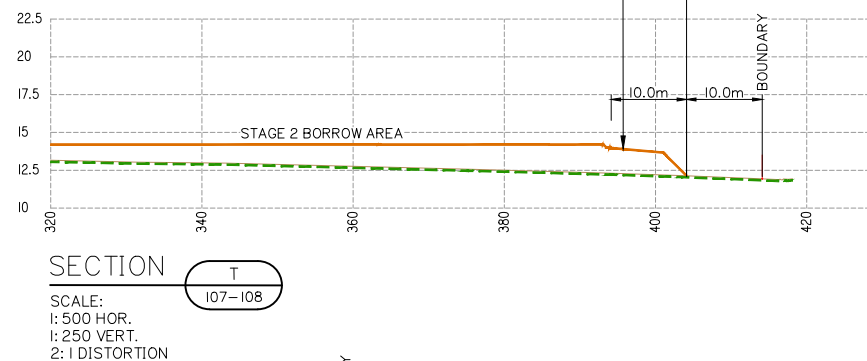
scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
PEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No: Rev. N
041 ENG BE2 156 A



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



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
BE PRINTED IN COLOUR

RPD:

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

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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 8 OF 13

A	20.11.2020	ORIGINAL ISSUE	BA	M	
Issue	Date	Description	DRN	CH	

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

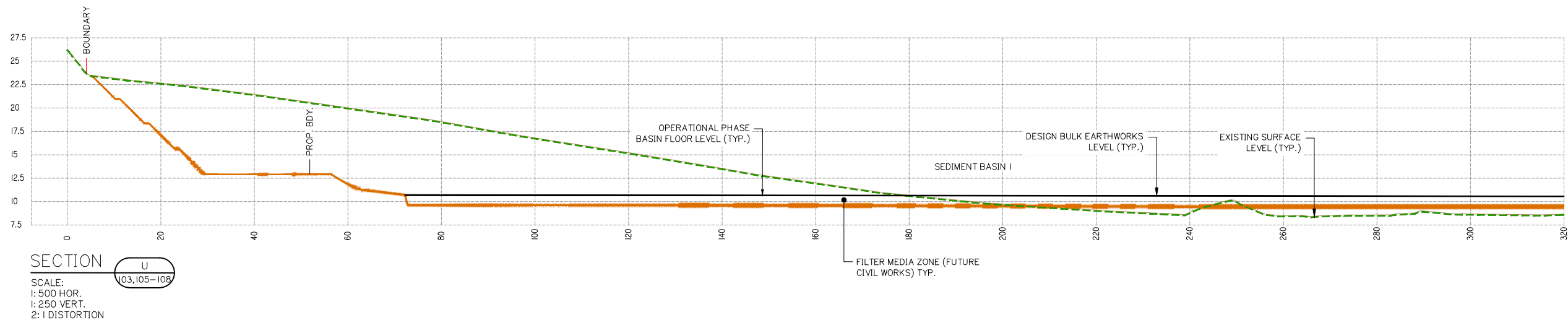
VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:
5941 ENG BE2 157

Rev. No:
A



SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

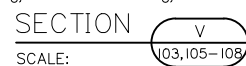
HOZ:

Scale 1:250 - Lengths are in Metres.

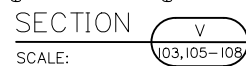
VERT: 

Scale at A1: AS SHOWN

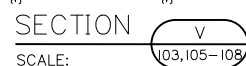
Drawing No:	Rev. No:
5941 ENG BE2 158	A



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



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



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



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

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BE PRINTED IN COLOUR

RPD:

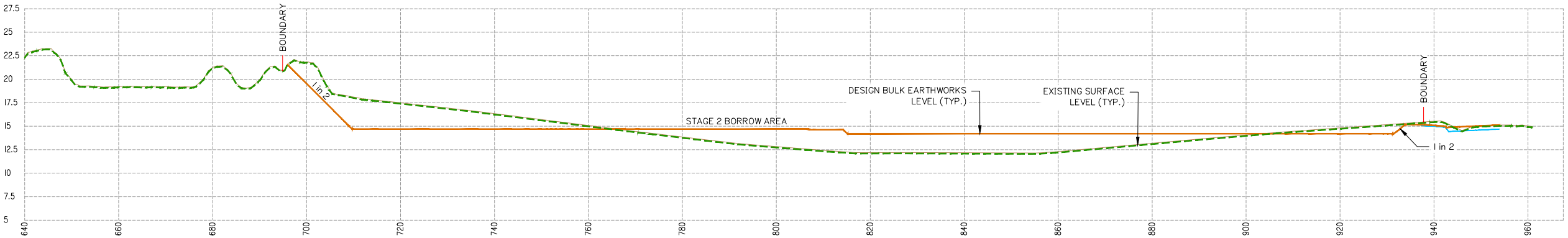
Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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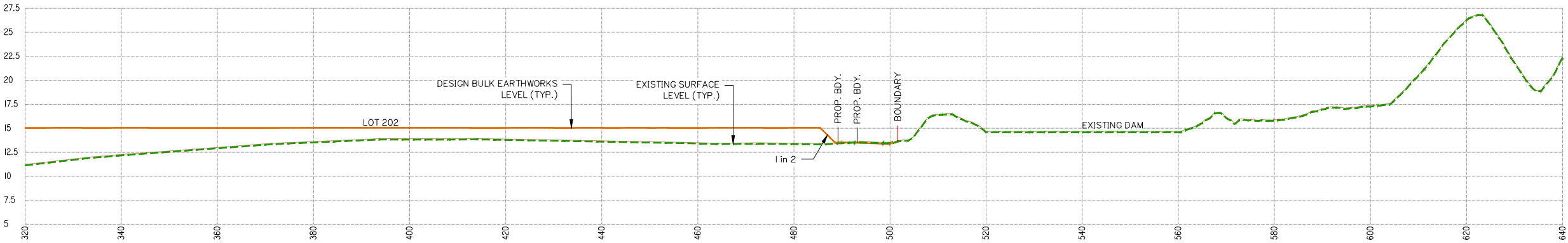
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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 11 OF 13



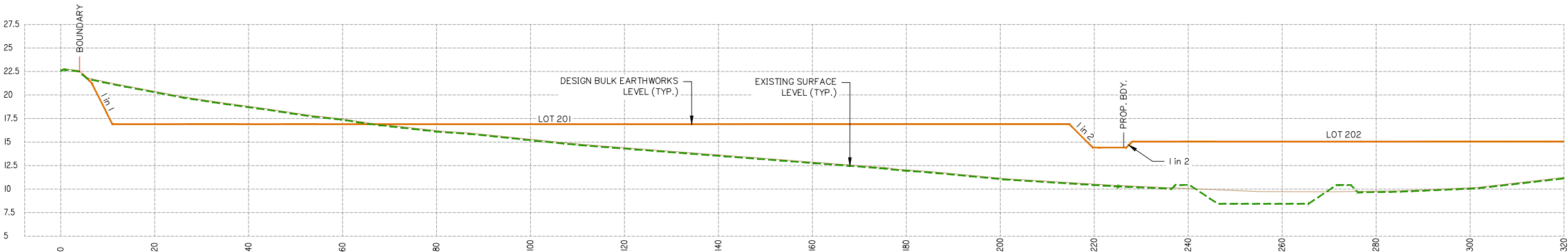
SECTION W
103,105-108

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



SECTION W
103,105-108

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



SECTION W
103,105-108

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

SCALE IN METRES

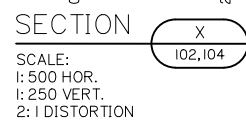
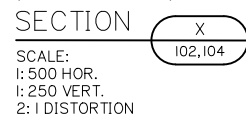
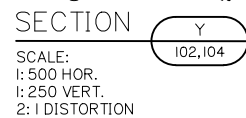
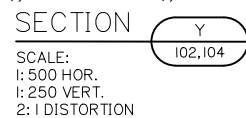
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

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:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No: 5941 ENG BE2 160
Rev. No: A



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:	-
RI:	-

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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 12 OF 13

A	20-11-2020		ORIGINAL ISSUE	BA	MG
Issue	Date		Description	DRN	CHI

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

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



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:	-

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 13 OF 13

A	20-11-2020	ORIGINAL ISSUE						BA	MG
Issue	Date	Description						DRN	CHK

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

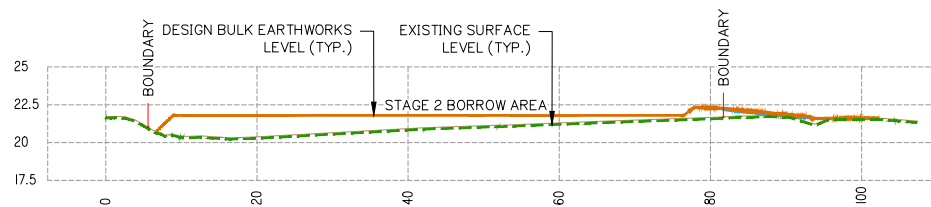
Scale 1:250 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

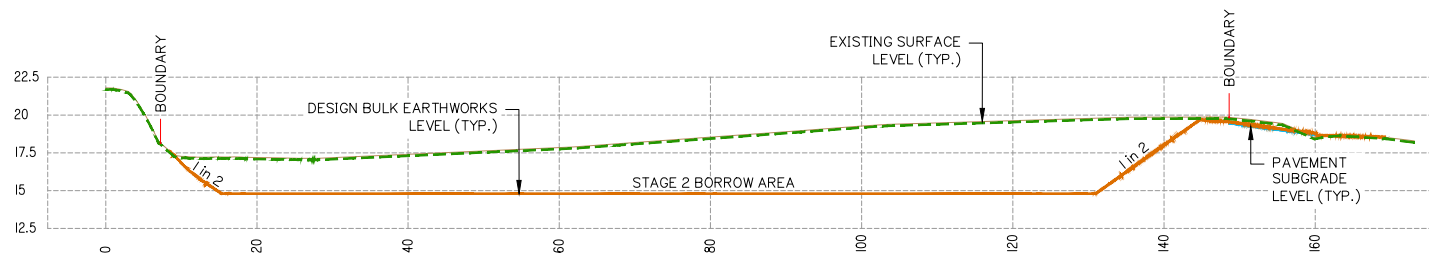
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:	Rev. No:
5941 ENG BE2 162	A



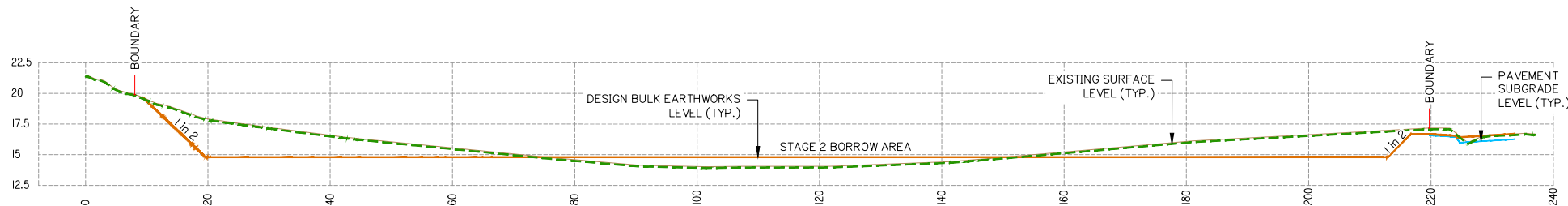
SECTION BB
SCALE: 108

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



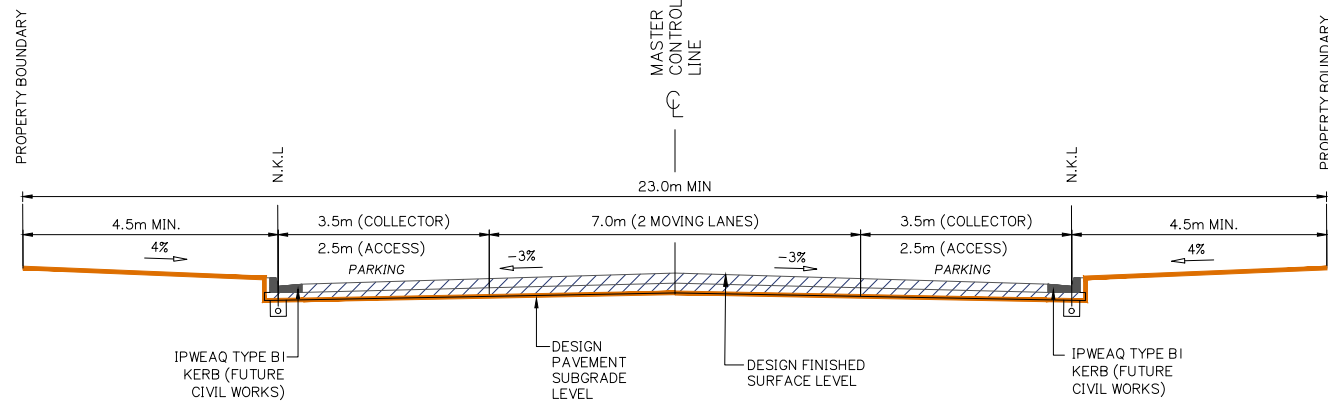
SECTION AA
SCALE: 108

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



SECTION Z
SCALE: 108

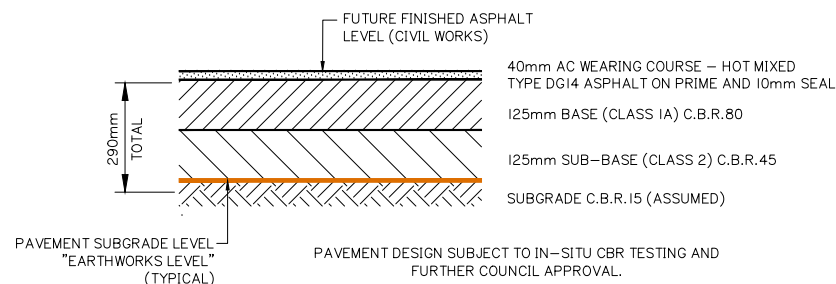
SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



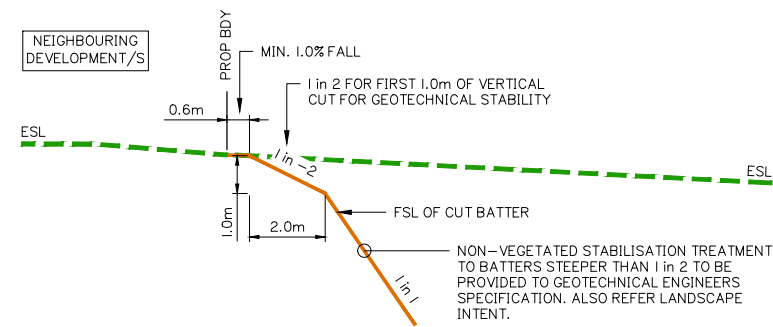
TYPICAL CROSS SECTION – INDUSTRIAL / COMMERCIAL
COLLECTOR AND ACCESS STREETS (23.0m)
FAIRWAY STREET AND ROAD 01

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

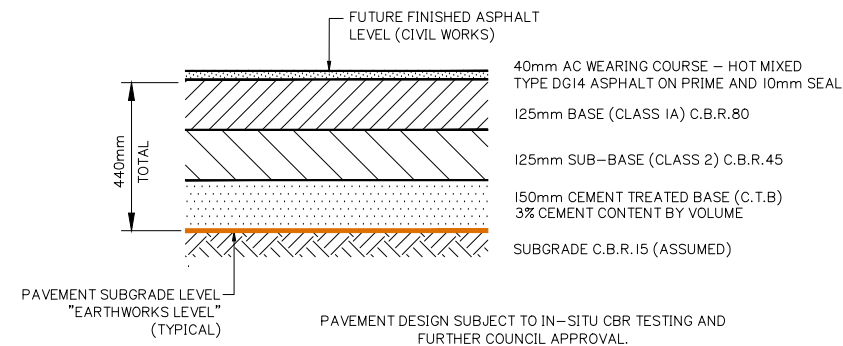
ONLY THE BULK EARTHWORKS IS APPLICABLE.
A SEPARATE APPLICATION WILL BE SUBMITTED
FOR THE CIVIL ROADWORKS ASSOCIATED WITH
THE RECONFIGURATION OF LOTS.



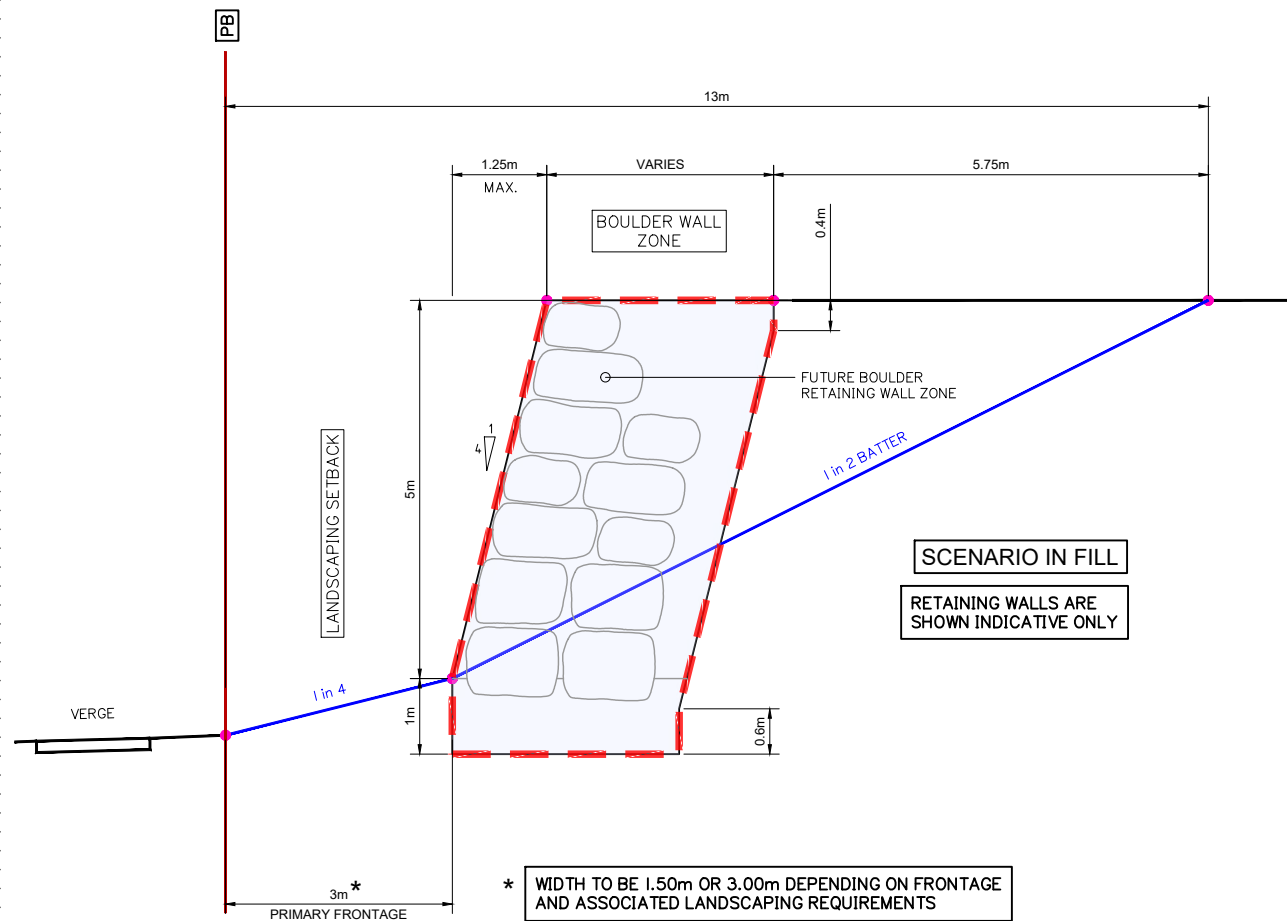
NOMINAL ROAD PAVEMENT DETAIL – IN FILL AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET N.T.S



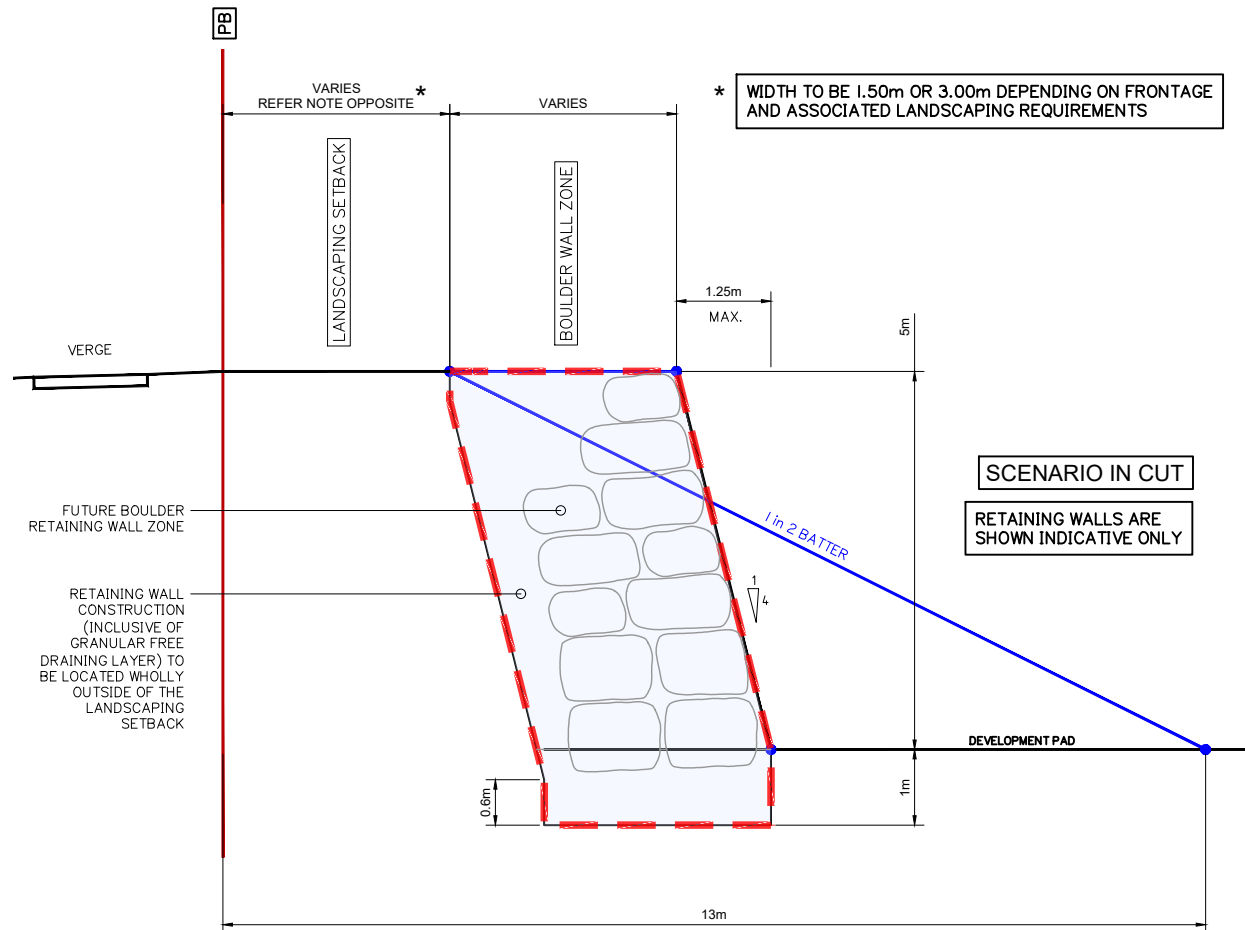
TYPICAL TOP OF CUT BATTER TREATMENT AT
NEIGHBOURING DEVELOPMENT INTERFACES SCALE 1: 100



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

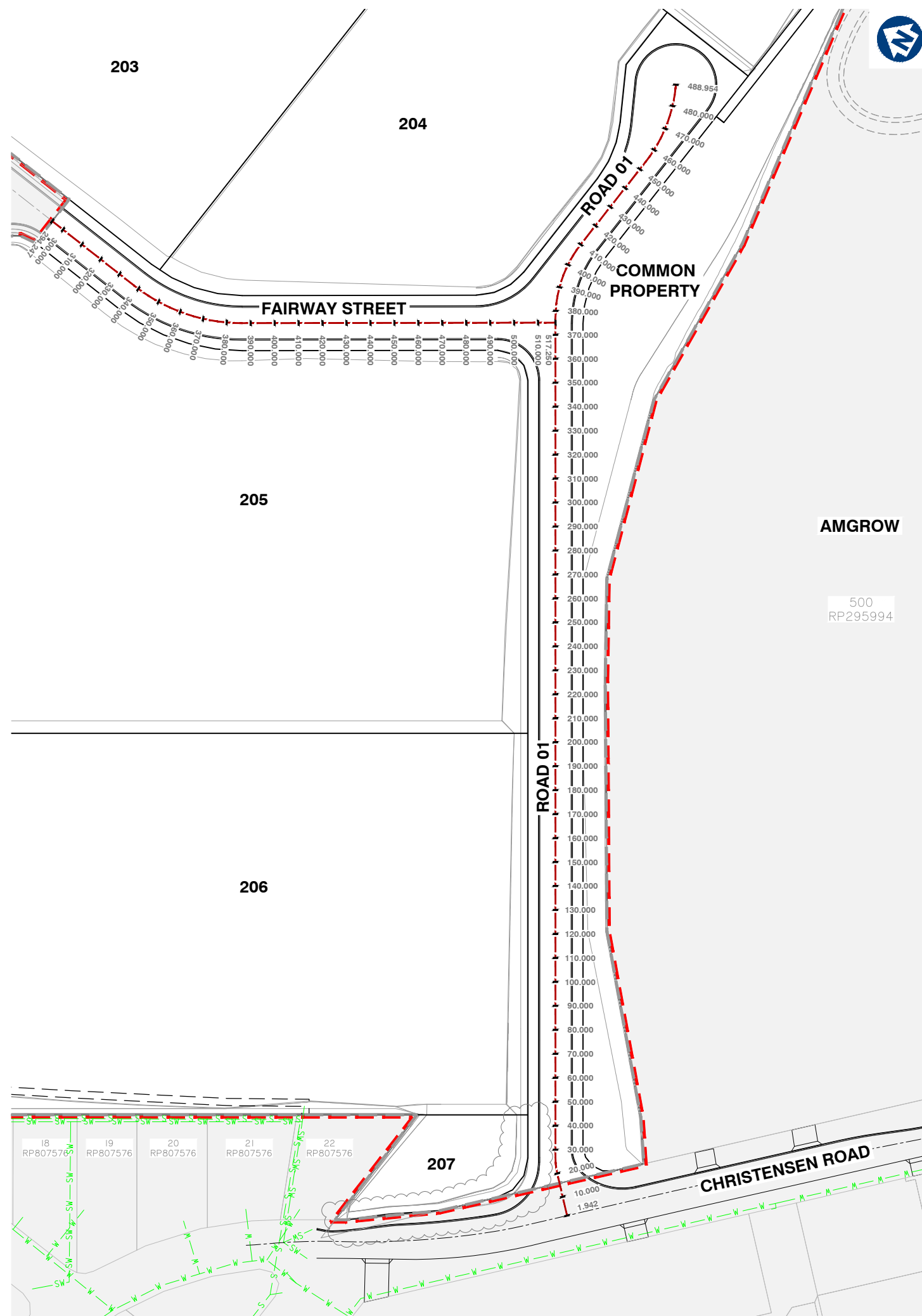
Issue	Date	Description	BA	MG	DRN	CHK
B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-11-2020	ORIGINAL ISSUE	BA	MG		

SCALE IN METRES

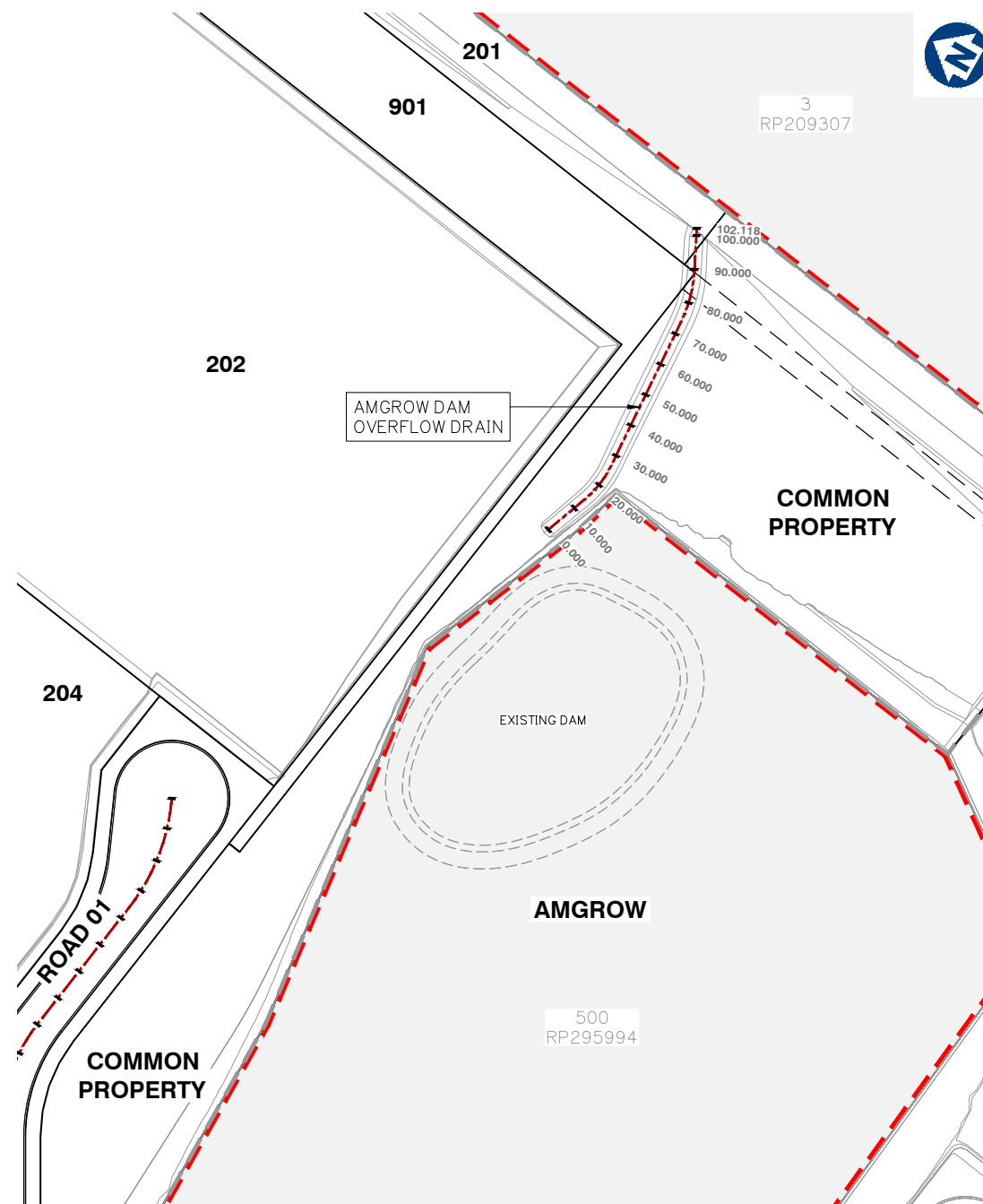
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Scale at A1:	NTS
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

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



CONTROL LINE LAYOUT PLAN



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Client:



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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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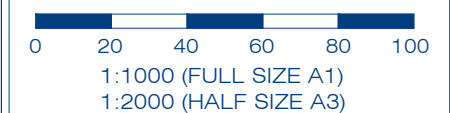
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DRAWING TITLE

CONTROL LINE LAYOUT PLAN

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:	1:1000
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

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

CONTROL LINE SETOUT TABLE – ROAD 01									
PT	CHAINAGE	EASTING	NORTHING	FSL	SUBGRADE	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	1.942	2413.875	6361.399	24.073	23.783	47°57'48.81"			
	10.000	2419.860	6366.795	23.832	23.542	47°57'48.81"			
TC	19.908	2427.219	6373.429	23.566	23.276	47°57'48.81"			
	20.000	2427.287	6373.491	23.564	23.274	48°08'21.35"			
IP 2	23.324	2429.767	6375.727	23.489	23.199		R = 30.000	6.833	13°02'58.02"
CT	26.741	2432.768	6377.390	23.420	23.130	61°00'46.82"			
	30.000	2435.619	6378.969	23.361	23.071	61°00'46.82"			
	40.000	2444.367	6383.815	23.201	22.911	61°00'46.82"			
	50.000	2453.114	6388.662	23.071	22.781	61°00'46.82"			
	60.000	2461.861	6393.508	22.970	22.680	61°00'46.82"			
	70.000	2470.609	6398.354	22.876	22.586	61°00'46.82"			
	80.000	2479.356	6403.200	22.782	22.492	61°00'46.82"			
	90.000	2488.103	6408.046	22.689	22.399	61°00'46.82"			
	100.000	2496.850	6412.892	22.595	22.305	61°00'46.82"			
	110.000	2505.598	6417.738	22.501	22.211	61°00'46.82"			
	120.000	2514.345	6422.584	22.407	22.117	61°00'46.82"			
	130.000	2523.092	6427.430	22.314	22.024	61°00'46.82"			
	140.000	2531.840	6432.277	22.220	21.930	61°00'46.82"			
	150.000	2540.587	6437.123	22.126	21.836	61°00'46.82"			
	160.000	2549.334	6441.969	22.032	21.742	61°00'46.82"			
	170.000	2558.082	6446.815	21.938	21.648	61°00'46.82"			
	180.000	2566.829	6451.661	21.831	21.541	61°00'46.82"			
	190.000	2575.576	6456.507	21.703	21.413	61°00'46.82"			
	200.000	2584.323	6461.353	21.554	21.264	61°00'46.82"			
	210.000	2593.071	6466.199	21.385	21.095	61°00'46.82"			
	220.000	2601.818	6471.045	21.195	20.905	61°00'46.82"			
	230.000	2610.565	6475.892	20.985	20.695	61°00'46.82"			
	240.000	2619.313	6480.738	20.754	20.464	61°00'46.82"			
	250.000	2628.060	6485.584	20.502	20.212	61°00'46.82"			
	260.000	2636.807	6490.430	20.230	19.940	61°00'46.82"			
	270.000	2645.555	6495.276	19.937	19.647	61°00'46.82"			
	280.000	2654.302	6500.122	19.637	19.347	61°00'46.82"			
	290.000	2663.049	6504.968	19.337	19.047	61°00'46.82"			
	300.000	2671.796	6509.814	19.037	18.747	61°00'46.82"			
	310.000	2680.544	6514.660	18.737	18.447	61°00'46.82"			
	320.000	2689.291	6519.507	18.437	18.147	61°00'46.82"			
	330.000	2698.038	6524.353	18.147	17.857	61°00'46.82"			
	340.000	2706.786	6529.199	17.882	17.592	61°00'46.82"			
	350.000	2715.533	6534.045	17.642	17.352	61°00'46.82"			
	360.000	2724.280	6538.891	17.427	17.137	61°00'46.82"			
	370.000	2733.027	6543.737	17.237	16.947	61°00'46.82"			
TC	376.975	2739.129	6547.117	17.119	16.829	61°00'46.82"			
	380.000	2741.818	6548.502	17.071	16.781	64°28'44.93"			
	390.000	2751.211	6551.883	16.931	16.641	75°56'17.89"			
IP 3	393.647	2754.277	6555.510	16.886	16.596		R = 50.000	33.343	38°12'28.35"

CONTROL LINE SETOUT TABLE – ROAD 01									
PT	CHAINAGE	EASTING	NORTHING	FSL	SUBGRADE	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
	400.000	2761.089	6553.329	16.816	16.526	87°23'50.85"			
	410.000	2771.058	6552.785	16.716	16.426	98°51'23.81"			
CT	410.318	2771.372	6552.735	16.713	16.423	99°13'15.18"			
	420.000	2780.929	6551.183	16.616	16.326	99°13'15.18"			
	430.000	2790.799	6549.581	16.516	16.226	99°13'15.18"			
	440.000	2800.670	6547.978	16.416	16.126	99°13'15.18"			
	450.000	2810.541	6546.376	16.316	16.026	99°13'15.18"			
TC	453.791	2814.283	6545.769	16.278	15.988	99°13'15.18"			
	460.000	2820.452	6545.092	16.216	15.926	93°17'31.45"			
	470.000	2830.437	6545.351	16.116	15.826	83°44'33.98"			
IP 4	470.717	2831.448	6542.982	16.108	15.818		R = – 60.000	33.851	32°19'32.74"
	480.000	2840.241	6547.262	16.016	15.726	74°11'36.52"			
CT	487.643	2847.443	6549.806	15.939	15.649	66°53'42.44"			
IP 5	488.954	2848.649	6550.320	15.926	15.636	66°53'42.44"			

CONTROL LINE SETOUT TABLE – FAIRWAY STREET									
PT	CHAINAGE	EASTING	NORTHING	FSL	SUBGRADE	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
	290.000	2673.355	6754.715	18.243	17.953	189°13'15.11"			
	300.000	2671.752	6744.845	18.328	18.038	189°13'15.11"			
	310.000	2670.150	6734.974	18.402	18.112	189°13'15.11"			
	320.000	2668.547	6725.103	18.445	18.155	189°13'15.11"			
	330.000	2666.945	6715.232	18.458	18.168	189°13'15.11"			
TC	337.977	2665.667	6707.358	18.446	18.156	189°13'15.11"			
	340.000	2665.371	6705.357	18.440	18.150	187°37'20.40"			
	350.000	2664.731	6695.386	18.392	18.102	179°43'10.08"			
	360.000	2665.468	6685.421	18.313	18.023	171°48'59.76"			
IP 3	362.206	2661.633	6682.510	18.292	18.002		R = – 72.500	48.458	38°17'45.40"
	370.000	2667.569	6675.652	18.204	17.914	163°54'49.44"			
	380.000	2670.992	6666.265	18.063	17.773	156°00'39.13"			
CT	386.436	2673.866	6660.509	17.961	17.671	150°55'29.71"			
	390.000	2675.598	6657.394	17.903	17.613	150°55'29.71"			
	400.000	2680.458	6648.654	17.743	17.453	150°55'29.71"			
	410.000	2685.317	6639.914	17.583	17.293	150°55'29.71"			
	420.000	2690.177	6631.174	17.422	17.132	150°55'29.71"			
	430.000	2695.037	6622.434	17.262	16.972	150°55'29.71"			
	440.000	2699.896	6613.694	17.102	16.812	150°55'29.71"			
	450.000	2704.756	6604.955	16.941	16.651	150°55'29.71"			
	460.000	2709.615	6596.215	16.781	16.491	150°55'29.71"			
	470.000	2714.475	6587.475	16.621	16.331	150°55'29.71"			
	480.000	2719.334	6578.735	16.470	16.180	150°55'29.71"			
	490.000	2724.194	6569.995	16.461	16.171	150°55'29.71"			
	500.000	2729.053	6561.255	16.636	16.346	150°55'29.71"			
	510.000	2733.913	6552.516	16.933	16.643	150°55'29.71"			
IP 4	517.250	2737.436	6546.179	17.150	16.860	150°55'29.71"			



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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

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

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DRAWING TITLE

CONTROL LINE SETOUT
TABLES SHEET 1 OF 2

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

NOT APPLICABLE

Scale at A1: NTS

Designed:	IG
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Drafted:	BA
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Approved:	MG
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RPEQ:	169
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Signed:	
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Date:	20-
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Drawing No:
5941 ENG BE2 401

Rev. No:
A

Client:



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Project: **VantageYatala**
STAGE 2

Site Address:
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ROAD, STAPYLTON QLD 4207

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RPD:

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

ROAD 01 LONGITUDINAL
SECTION SHEET 1 OF 2

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

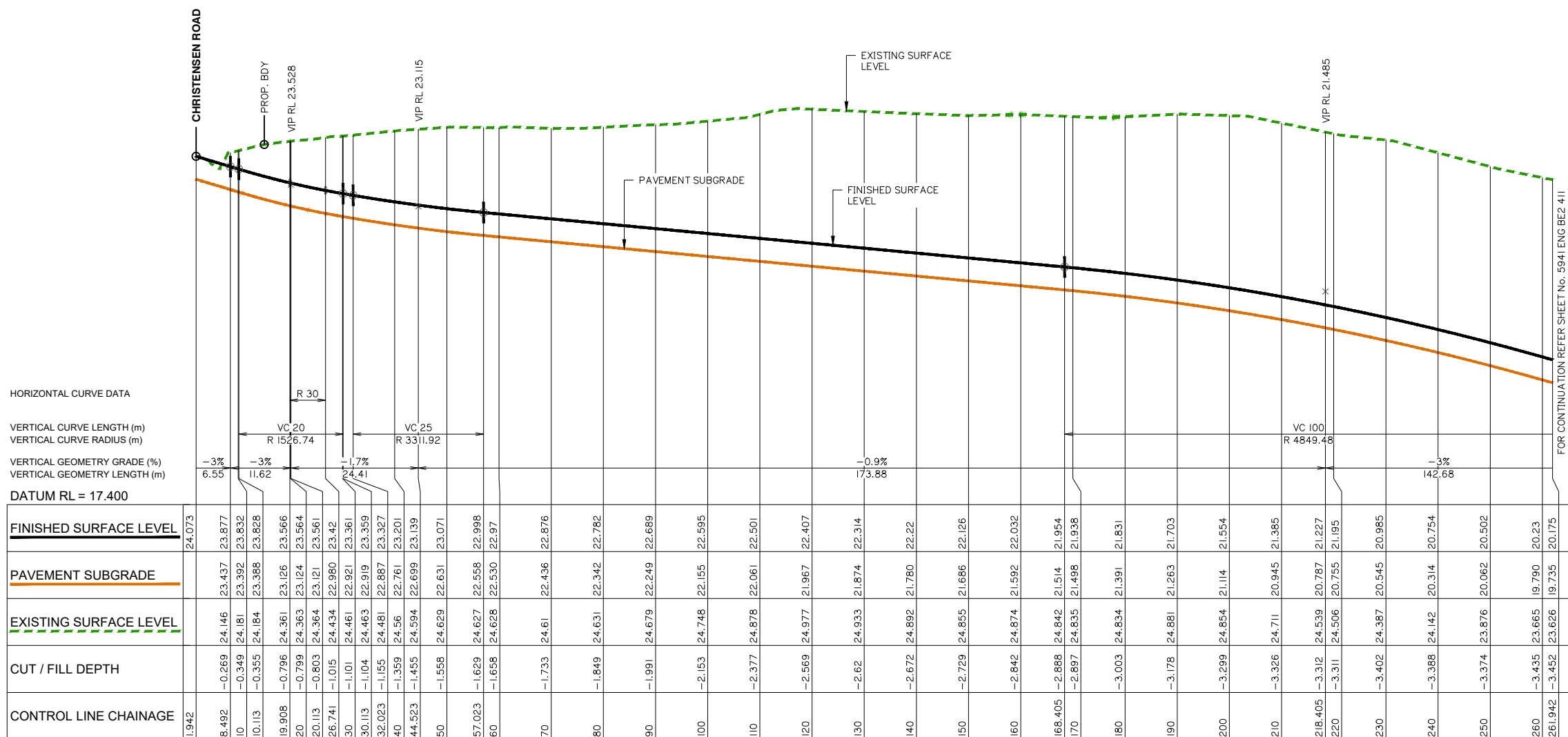
Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:	Rev. No:
5941 ENG BE2 410	A



HORIZONTAL CURVE DATA

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

DATUM RL = 13.200

FINISHED SURFACE LEVEL	261.942	-3.452	23.626	19.735	20.175	19.985	19.937	19.637	19.337	19.037	18.737	18.437	18.405	18.147	17.882	17.642	17.427	17.405	17.237	17.119	17.071	16.931	16.816	16.805	16.716	16.713	16.616	16.516	16.416	16.316	16.278	16.216	16.116	16.016	15.939	15.926
PAVEMENT SUBGRADE	268.405	-3.512	23.497	19.545	19.937	19.497	19.197	18.897	18.597	18.297	17.997	17.965	17.965	17.707	17.442	17.202	16.987	16.985	16.797	16.679	16.631	16.631	16.491	16.376	16.385	16.276	16.273	16.176	16.076	15.976	15.876	15.838	15.776	15.676	15.499	15.486
EXISTING SURFACE LEVEL	270	-3.528	23.466	19.497	23.253	23.466	22.644	22.989	22.644	22.314	22.024	21.993	21.734	21.475	21.236	20.997	20.971	20.777	20.632	20.555	20.177	19.822	19.799	19.633	19.627	19.466	19.202	18.736	18.352	18.207	18.024	17.771	17.394	17.113	17.067	
CUT / FILL DEPTH																																				
CONTROL LINE CHAINAGE	261.942	268.405	270	280	290	300	310	320	321.088	330	340	350	360	361.088	370	376.975	380	390	400	401.088	410	410.318	420	430	440	450	453.791	460	470	480	487.643	488.954				

LONGITUDINAL SECTION - ROAD 01

ROAD 01 LONGITUDINAL SECTION SHEET 2 OF 2



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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
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DRAWING TITLE

ROAD 01 LONGITUDINAL
SECTION SHEET 2 OF 2

Issue	Date	Description	BA	MG	CHK
A	20-11-2020	ORIGINAL ISSUE			

SCALE IN METRES

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

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

Scale at A1: AS SHOWN

Designed: IG

Drafted: BA

Approved: MG

RPEQ: 16939

Signed:

Date: 20-11-2020

Drawing No:
5941 ENG BE2 411

Rev. No:
A

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

0 5 10 15 20 25 30 35 40

Scale 1:100 - Lengths are in Metres.

0 1 2 3 4 5 6 7

Designed:	IG
Grafted:	BA

Signed:	
Date:	20-11-2020

Drawing No: 041 ENG BE2 412 Rev. N A



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Project: **VantageYatala**
STAGE 2

Site Address:
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RPD:

Lot:	501
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DRAWING TITLE

FUTURE ROAD
LONGITUDINAL SECTION

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

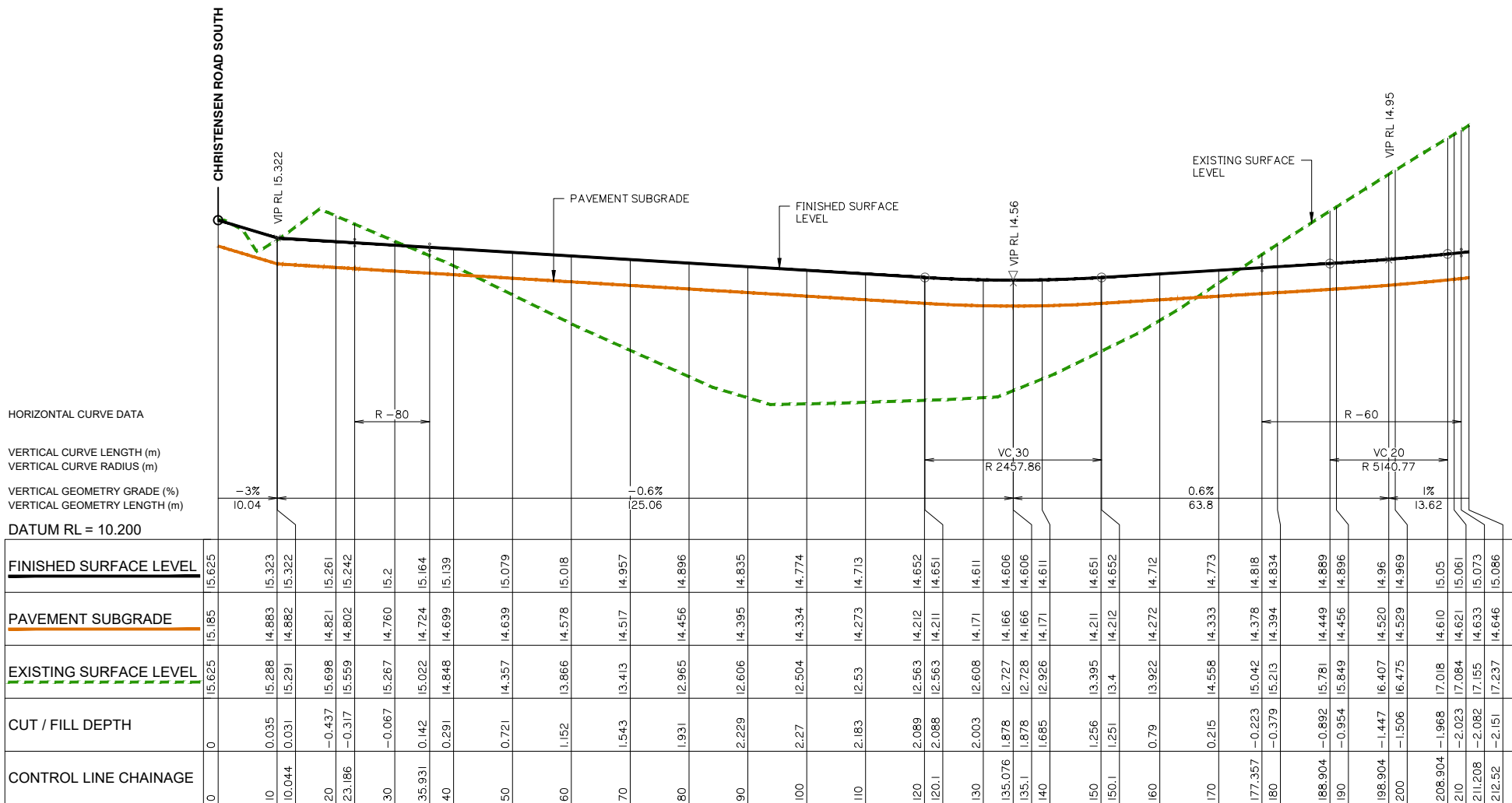
Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

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RPEQ:	16939
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Drawing No:	Rev. No:
5941 ENG BE2 413	A



FUTURE ROAD LONGITUDINAL SECTION

SCALE IN METRES

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



A horizontal scale bar with a black background and white markings. It is divided into 7 equal segments by white vertical lines. The segments are numbered 0, 5, 10, 15, 20, 25, 30, and 35 from left to right.

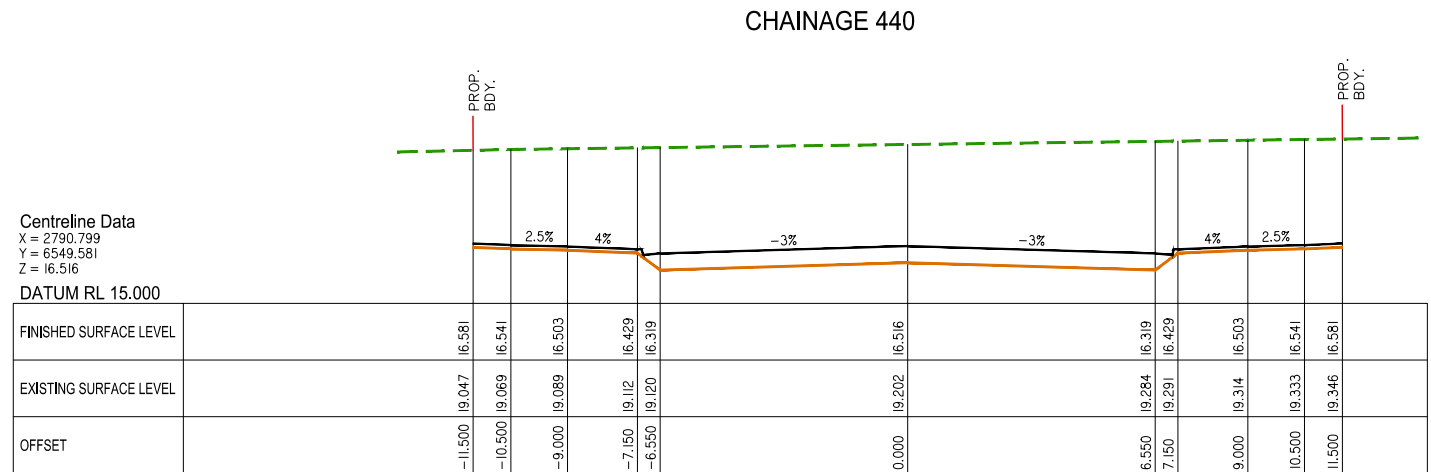
VERT: Scale 1:100 - Lengths are in Metres.

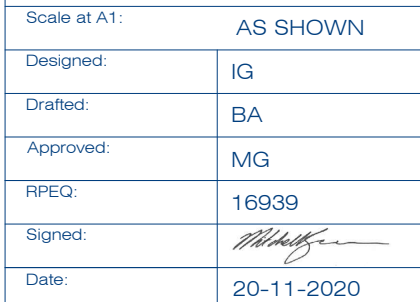
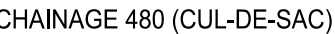
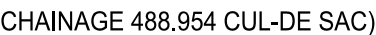


A vertical scale bar with a black background and white markings. It is divided into 7 equal segments by white horizontal lines. The segments are numbered 0, 1, 2, 3, 4, 5, 6, and 7 from bottom to top.

Drawing No:	Rev. No:
5941 ENG BE2 414	A







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VantageYatala
STAGE 2

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DRAWING TITLE

FAIRWAY STREET CROSS
SECTIONS SHEET 3 OF 4

A	20-11-2020	ORIGINAL ISSUE	BA	M/G	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ: 

Scale 1:100 - Lengths are in Metres.

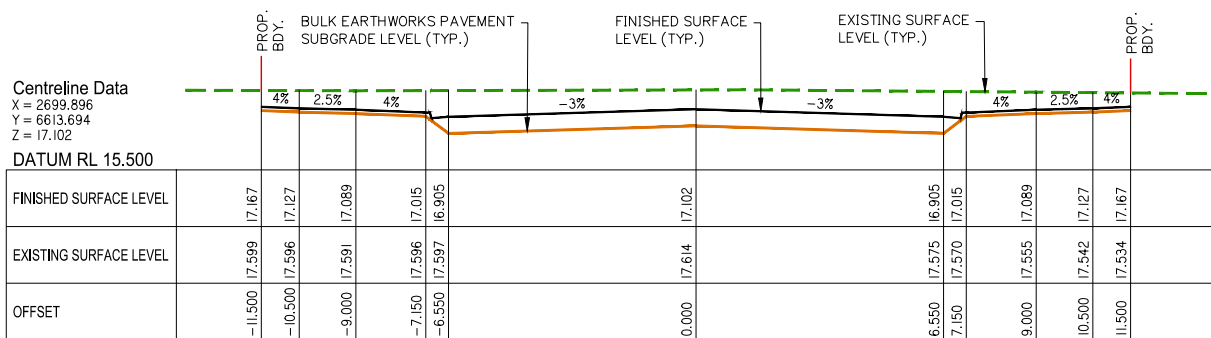
VERT: 

Scale at A1: AS SHOWN

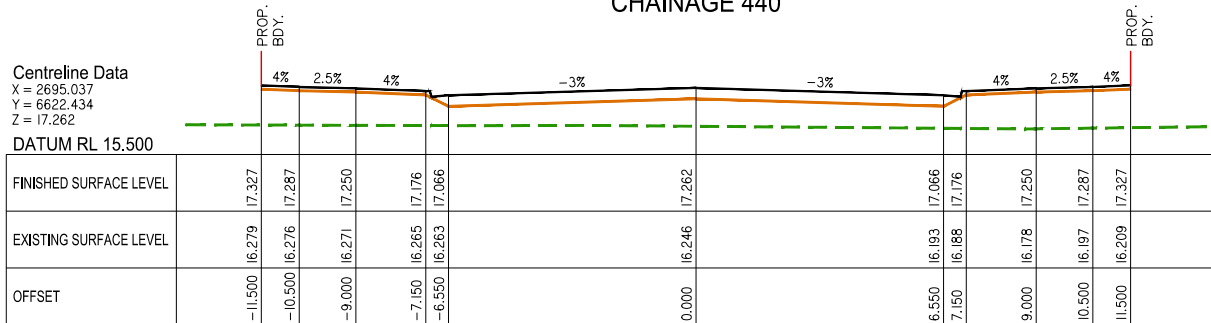
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:
5941 ENG BE2 440

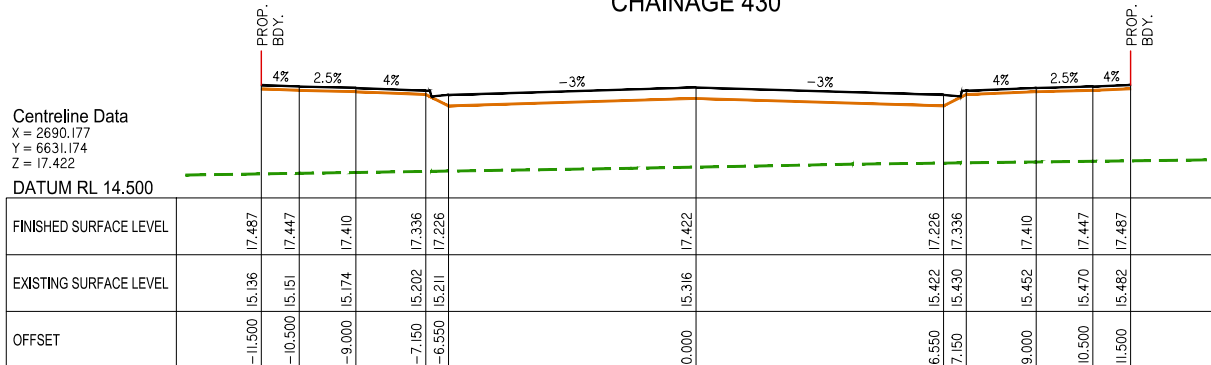
Rev. No:
A



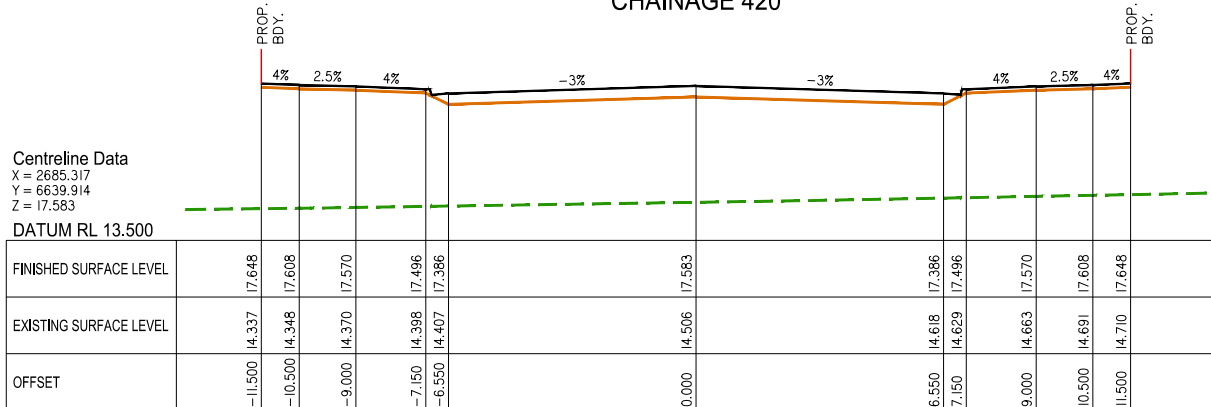
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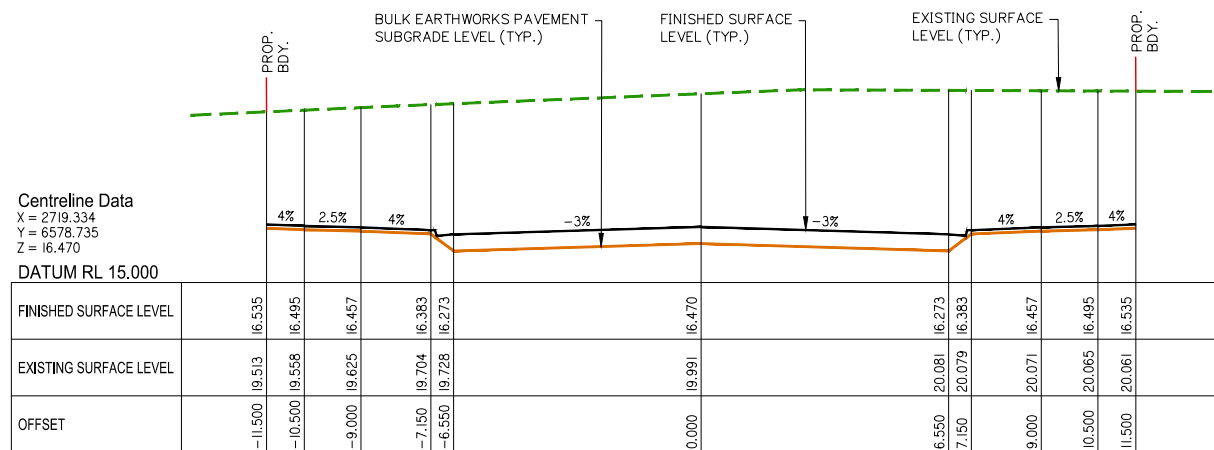
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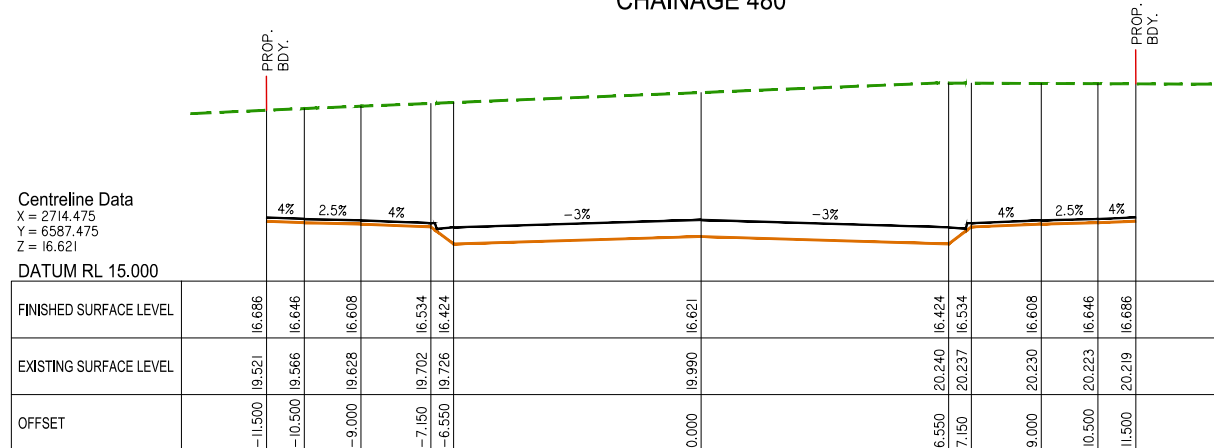
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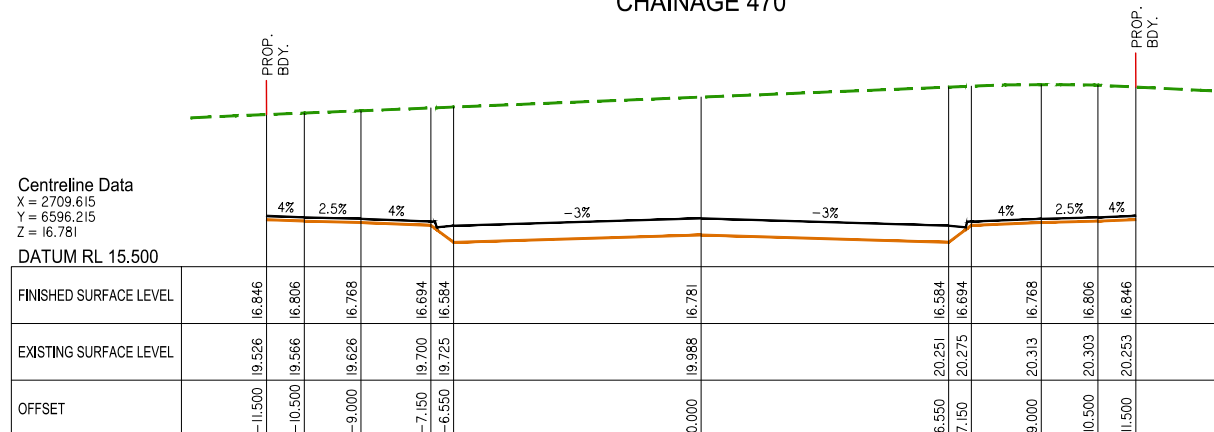
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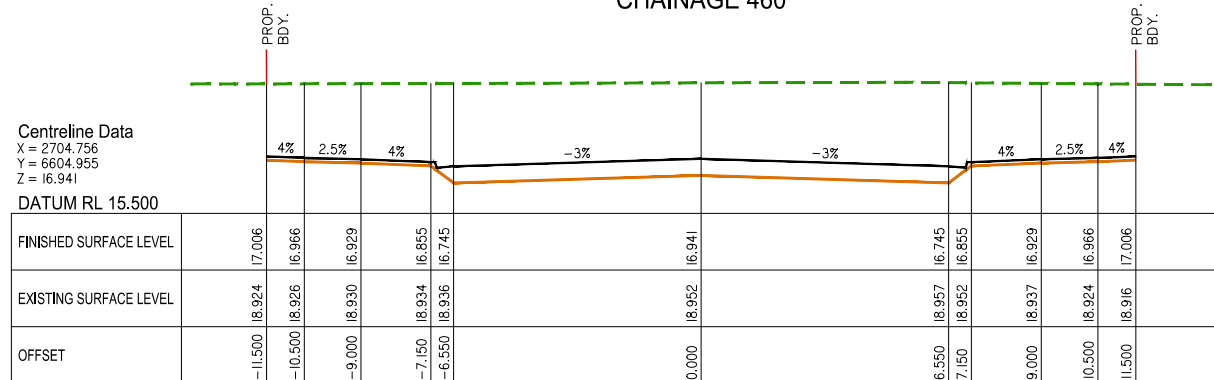
CHAINAGE 480



CHAINAGE 470



CHAINAGE 460



CHAINAGE 450



Project: **VantageYatala**
STAGE 2

THIS DRAWING IS INTENDED TO
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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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FAIRWAY STREET CROSS
SECTIONS SHEET 4 OF 4

A	20-11-2020	ORIGINAL ISSUE	BA	M/G	
Issue	Date	Description	DRN	CHK	

Scale 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

VERT:

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Centreline Data
X = 2729.053
Y = 6561.255
Z = 16.636

DATUM RL 15.000

FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	OFFSET
16.308	19.698	-11.001
16.636	19.960	0.000
16.466	20.091	7.924
16.606	20.01	8.577
16.721	20.135	10.623

Centreline Data
X = 2724.194
Y = 6569.995
Z = 16.461

DATUM RL 15.000

FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	OFFSET
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16.430	19.590	-9.618
16.355	19.674	-7.729
16.245	19.702	-7.118
16.461	19.950	0.000
16.264	19.923	6.550
16.374	19.921	7.150
16.448	19.913	9.000
16.466	19.907	10.500
16.526	19.903	11.500

FAIRWAY STREET CROSS SECTIONS SHEET 4 OF 4



ient:

 **FRASERS**
PROPERTY

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
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 DSM: -
 L: -

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DRAWING TITLE

ROAD USER SAFETY CROSS
SECTIONS - SHEET 1 OF 5

[illegible]

SCALE IN METRES

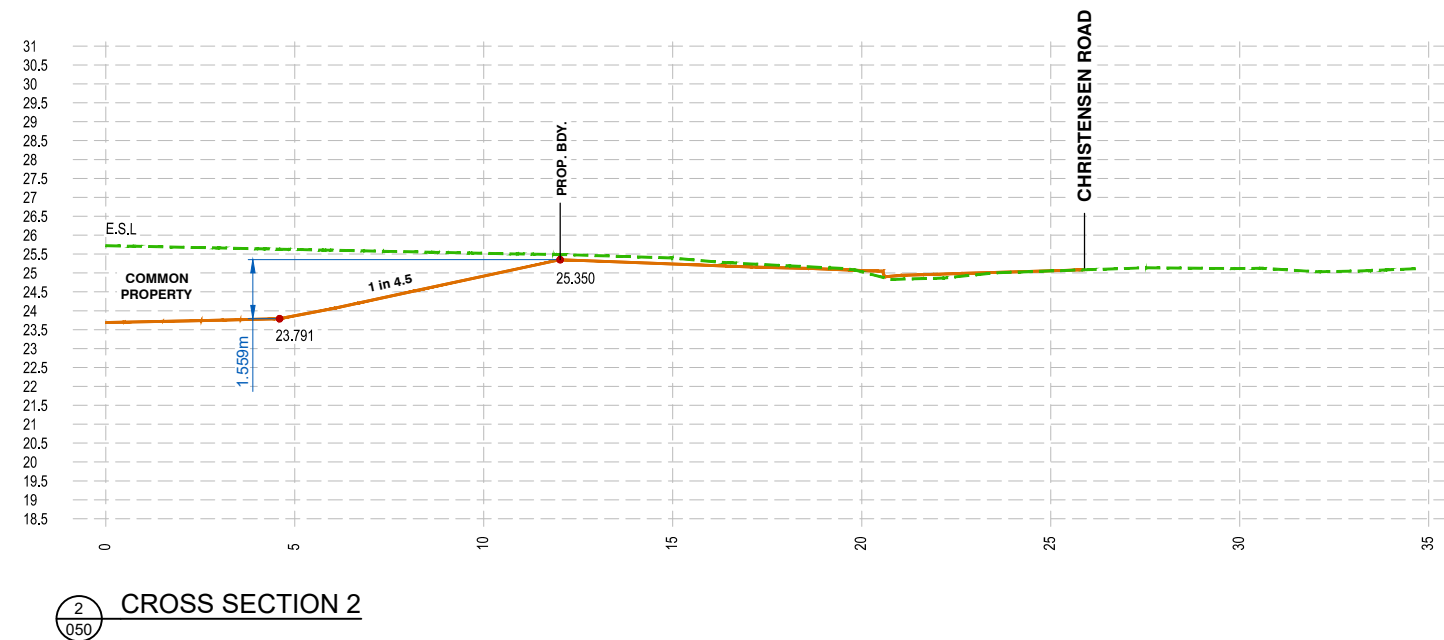
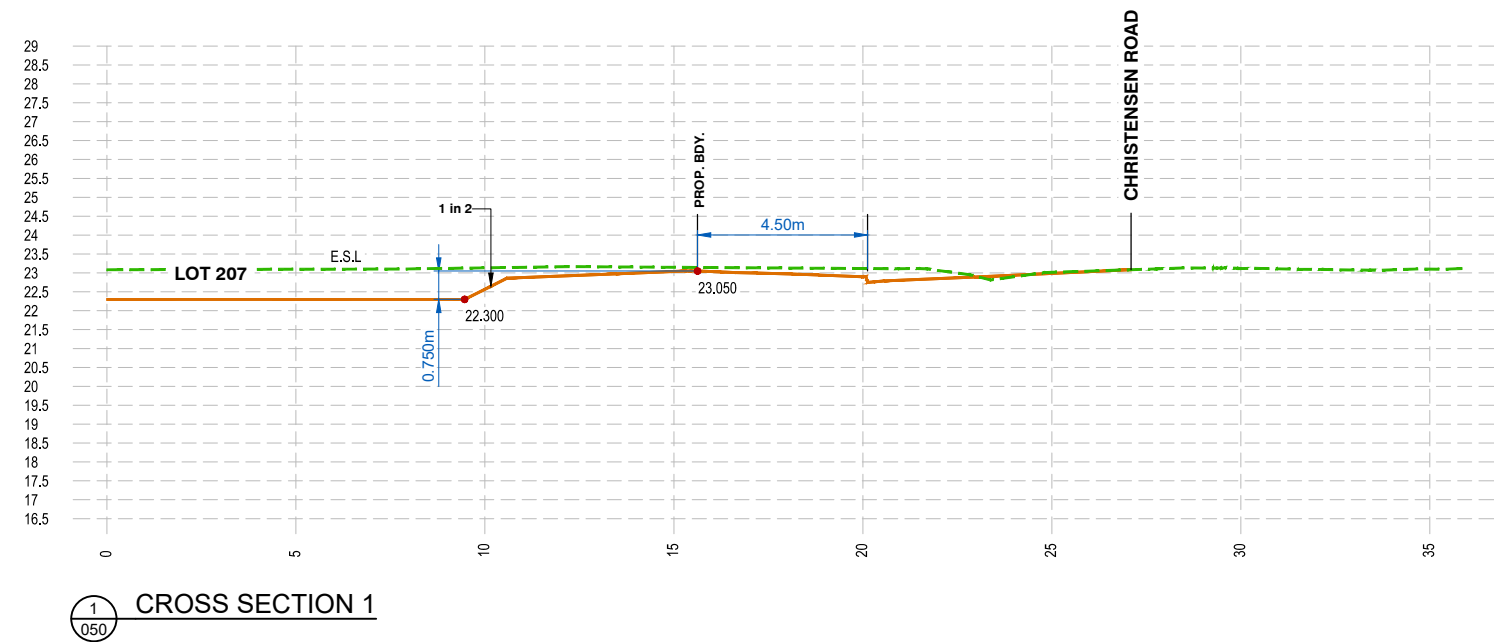
2 4 6 8 10

1:100 (FULL SIZE A1)

1:200 (HALF SIZE A3)

Scale at A1:	1:100
Designed:	IG
Drafted:	IG
Approved:	MG
PEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No.
041 ENG BE2 442	A





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

RPD:
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ROAD USER SAFETY CROSS
SECTIONS - SHEET 2 OF 5

SCALE IN METRES

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1:200 (HALF SIZE A3)

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rafted:	IG
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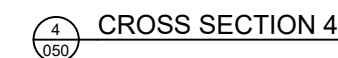
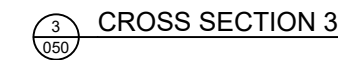
Approved:	MG
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PEQ:	16939
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Signed:	
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ate:	15-02-2021
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Drawing No: Rev. N
041 ENG BE2 443 A



ROAD USER SAFETY CROSS SECTIONS – SHEET 2 OF 5



Project: **VantageYatala**
STAGE 2

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RPD:	
Lot:	501
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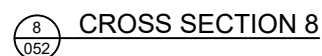
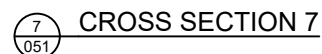
ROAD USER SAFETY CROSS
SECTIONS - SHEET 4 OF 5

A	15-02-2021		ORIGINAL ISSUE	BA	MO
Issue	Date		Description	DRN	DCH

Size	1:100 (FULL SIZE A1)	1:200 (HALF SIZE A3)
0-2	2	0
2-4	0	2
4-8	0	4
8-10	0	2

Designed:	IG
Drafted:	IG
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RPEQ:	16939
Signed:	
Date:	15-02-2021

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



ROAD USER SAFETY CROSS SECTIONS – SHEET 4 OF 5



Project: **VantageYatala**
STAGE 2

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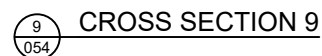
ROAD USER SAFETY CROSS
SECTIONS - SHEET 5 OF 5

A	15-02-2021		ORIGINAL ISSUE	BA	MG
Issue	Date		Description	DRN	CHI

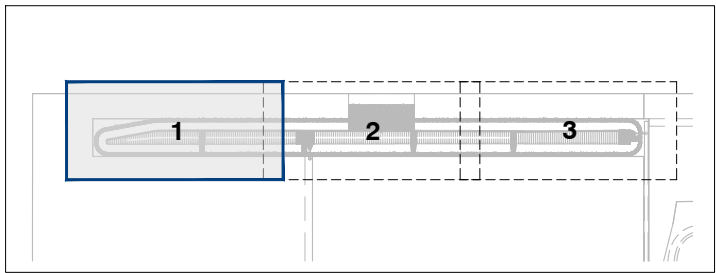
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Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

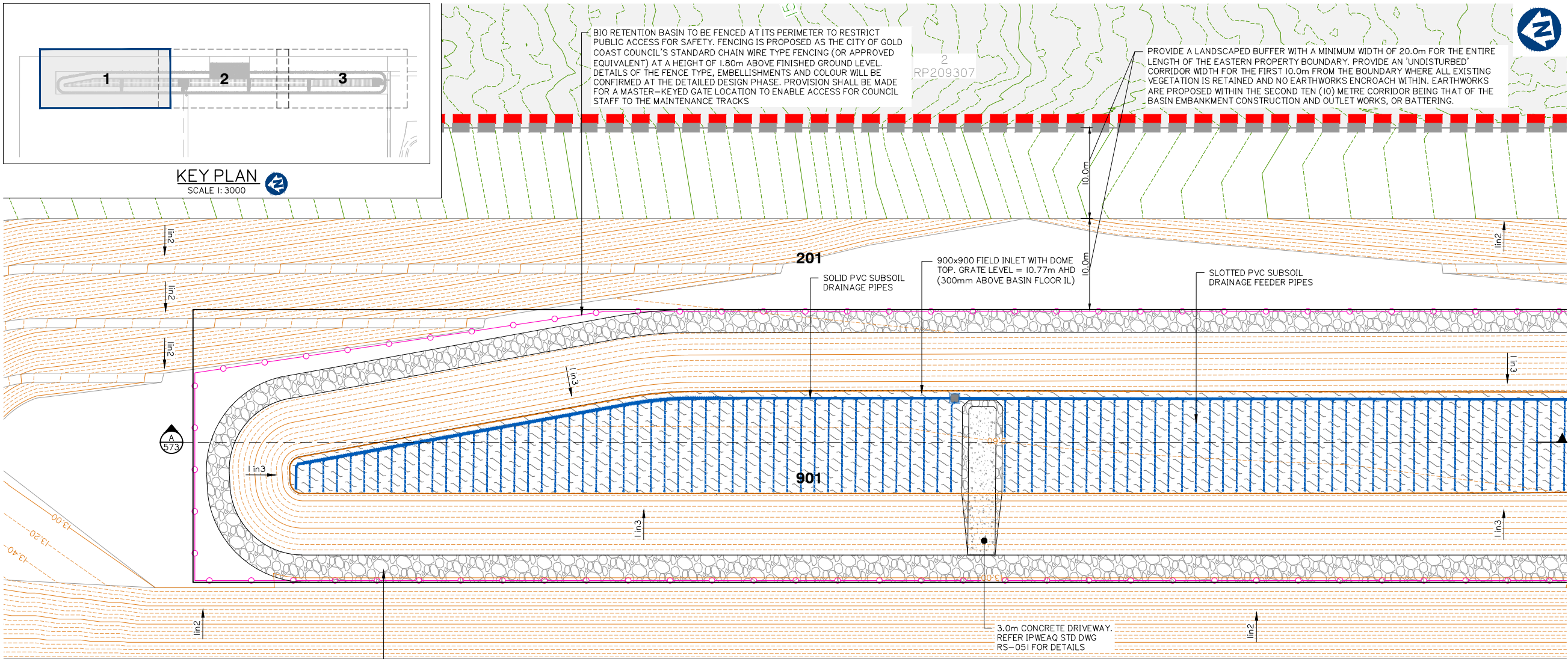
Drawing No:	Rev. No:
5941 ENG BE2 446	A



ROAD USER SAFETY CROSS SECTIONS – SHEET 5 OF 5



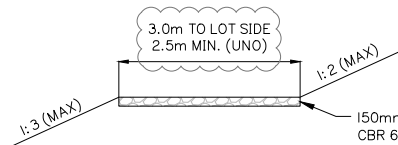
KEY PLAN
SCALE 1: 3000



BIORETENTION BASIN I LAYOUT PLAN

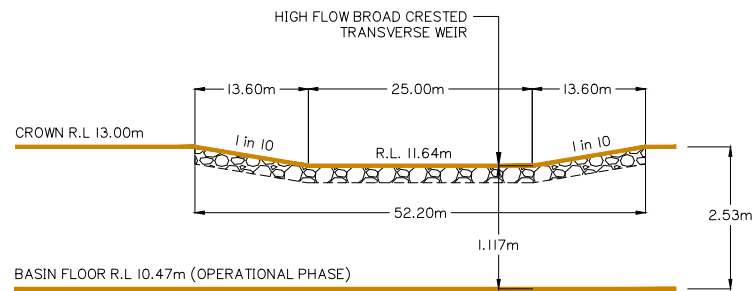
SCALE 1: 250 (A1)

3.0m WIDE MAINTENANCE ACCESS TRACK TO BASIN WHERE IMMEDIATELY ADJACENT TO THE DEVELOPMENT LOTS. 2.5m WIDE TO REMAINING PERIMETER OF BASIN. EMBANKMENT CROWN LEVEL 13.00m AHD (REFER TYPICAL DETAIL BELOW).



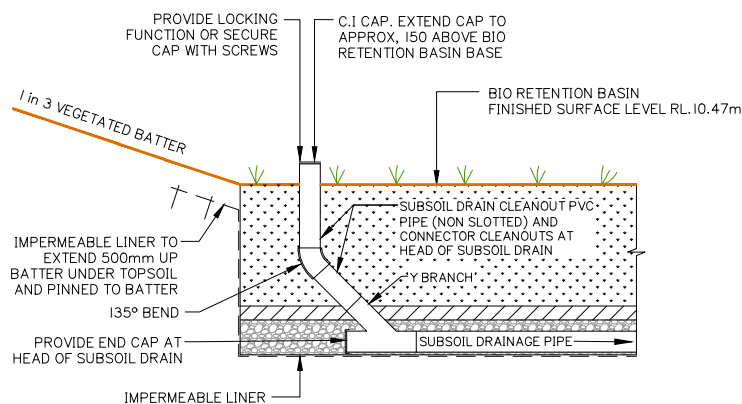
MAINTENANCE ACCESS TRACK - TYPICAL SECTION

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



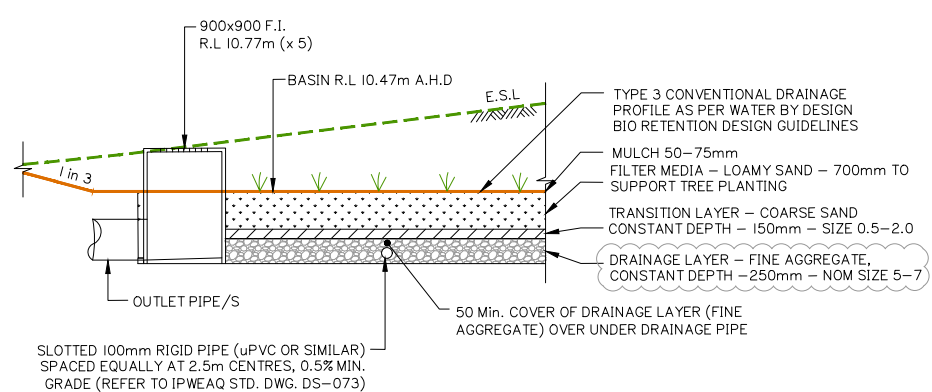
WEIR / SPILLWAY - TYPICAL ELEVATION

N.T.S.



SUBSOIL DRAIN CLEANOUT - IN BASIN

N.T.S.



TYPICAL BIO-RETENTION BASIN DETAIL

N.T.S.

BIO-RETENTION NOTES:

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

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

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

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

AEP (%)	MAX. WATER ELEVATION (m) A.H.D.	MAX. WATER DEPTH (m)
63.2	11.458	0.988
0.5EY	11.611	1.141
20	11.737	1.267
10	11.812	1.342
5	11.875	1.405
2	11.944	1.474
1	11.992	1.522

Client:



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(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

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Plan: SP295994
Local Authority: CITY OF GOLD COAST COUNCIL
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DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 1 OF 4

Issue	Date	Original Issue	Description	BA	MG	DRN	CHK
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: BA

Approved: MG

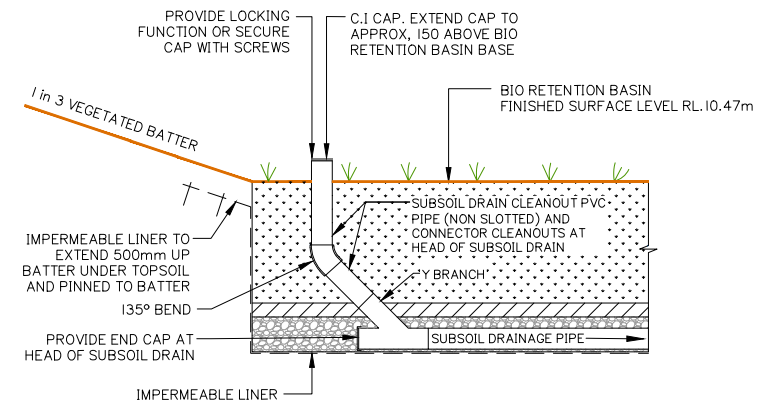
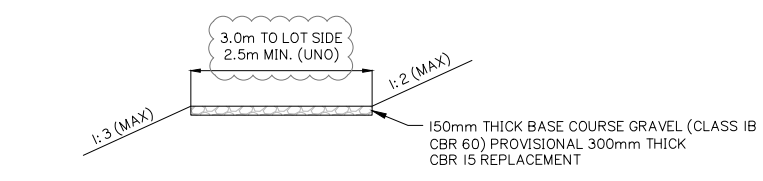
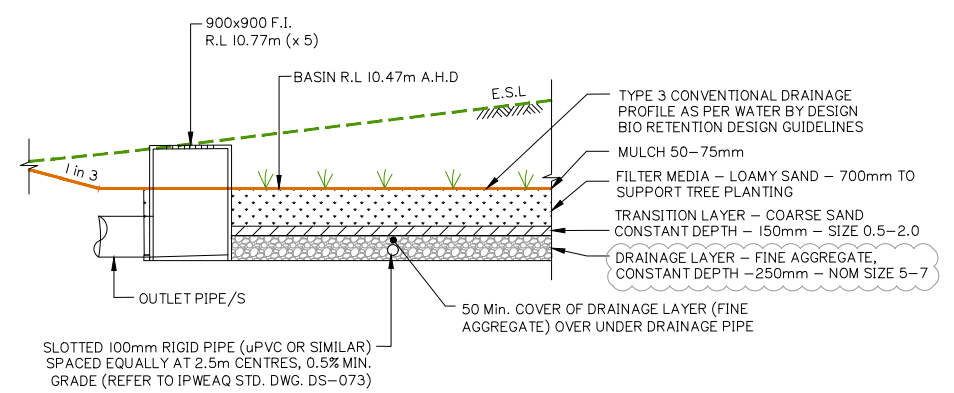
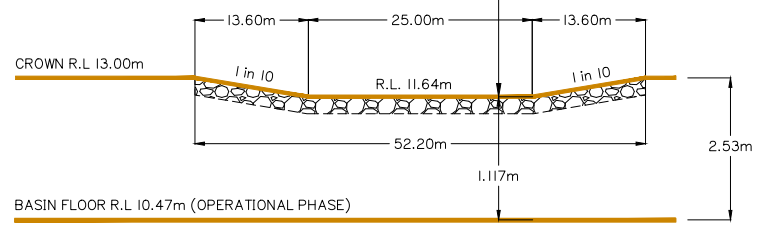
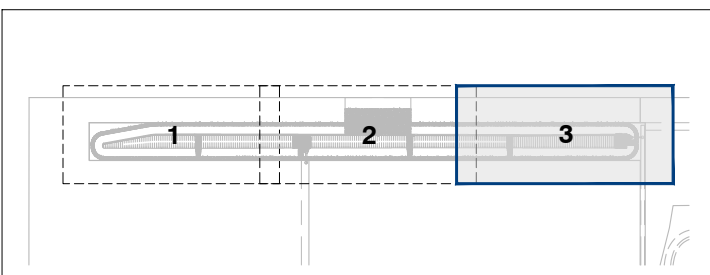
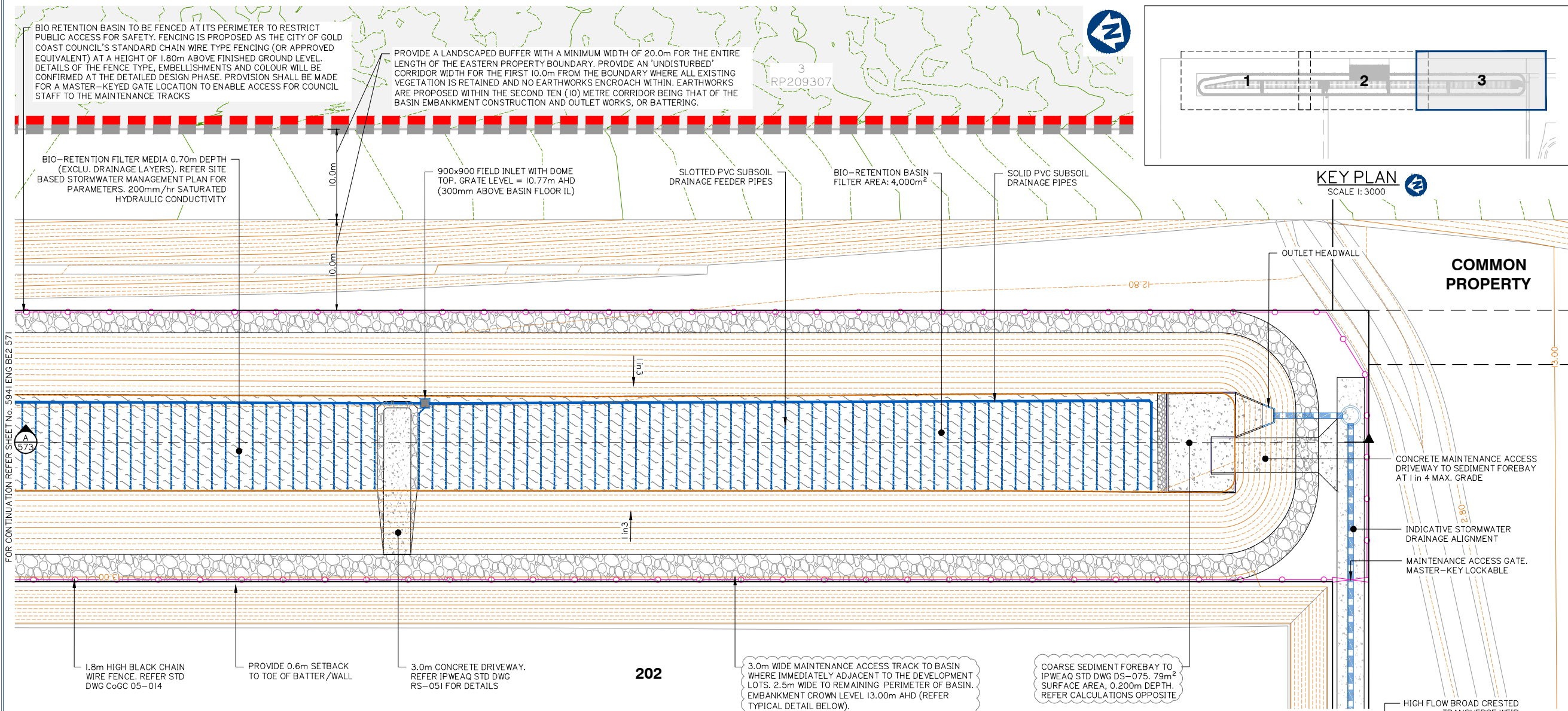
RPEQ: 16939

Signed:

Date: 15-02-2021

Drawing No:
5941 ENG BE2 570

Rev. No:
B



BIO-RETENTION NOTES:

MINIMUM BIO-RETENTION 'PROFILE' IS TO BE 1.0m 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 COARSE SAND. PARTICLE SIZE TYPICALLY 0.5-2.0mm.
- * 0.25m OF GRAVEL DRAINAGE. PARTICLE SIZE 5-7mm SCREENING.

**BIO RETENTION – COURSE SEDIMENT FOREBAY
SIZING GUIDE CALCULATIONS (TOTAL)**

$$V_s = A_c \times R \times L_o \times F = 6.4953 \text{ m}^3$$

$$R = 1 - \left[1 + \frac{1}{n} \times \left[\frac{V_s}{0.7 A_f} \right]^{-n} \right]^{-n}$$

$$0.8 = 1 - \left[1 + \frac{0.10}{0.5 \times 191.64 A_f} \right]^{-0.5} \quad A_f = 191.64 \text{ m}^2$$

$$D_s = \frac{V_s}{A_f} \quad D_s = \frac{6.4953}{191.64} = 0.020 \text{ m}$$

OPTIMIZATION OF MINIMUM FOREBAY SIZE:

$$D_s = \frac{6.4953 \text{ m}^3}{79.00 \text{ m}^2 \text{ (DESIGN)}} = 0.082 \text{ m}$$

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

CONSTRUCTION

8. NOTWITHSTANDING ANY DESCRIPTION CONTAINED WITH APPROVED PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING THEMSELVES AS TO THE NATURE AND EXTENT OF THE SPECIFIED WORKS AND THE PHYSICAL AND LEGAL CONDITIONS UNDER WHICH THE WORKS WILL BE CARRIED OUT. THIS SHALL INCLUDE MEANS OF ACCESS, EXTENT OF CLEARING, NATURE OF THE MATERIALS TO BE EXCAVATED, TYPE AND SIZE OF MECHANICAL PLANT REQUIRED, LOCATION AND SUITABILITY OF WATER SUPPLY FOR CONSTRUCTION AND TESTING PURPOSES, AND ANY OTHER LIKELY MATTERS AFFECTING THE CONSTRUCTION OF THE WORKS.
9. REFER TO APPROVED PLANS FOR LOCATION, DIMENSIONS, AND CONSTRUCTION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
10. BEFORE STARTING ANY CLEARING OR CONSTRUCTION, ENSURE ALL THE NECESSARY MATERIALS AND COMPONENTS ARE ON THE SITE TO AVOID DELAYS IN COMPLETING THE SEDIMENT BASIN ONCE WORKS BEGIN.
11. INSTALL REQUIRED SHORT TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE PROPOSED EARTHWORKS TO CONTROL SEDIMENT RUNOFF DURING CONSTRUCTION OF THE BASIN.
12. THE AREA TO BE COVERED BY THE EMBANKMENT, BORROW PITS AND INCIDENTAL WORKS, TOGETHER WITH AN AREA EXTENDING BEYOND THE LIMITS OF AREA 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	S	PROPOSED SEWER
SW	SW	SW	SW	PROPOSED STORMWATER
SW	SW	SW	SW	PROPOSED ROOFWATER
SS	SS	SS	SS	PROPOSED ROOFWATER
SS	SS	SS	SS	PROPOSED SUBSOIL
W	W	W	W	PROPOSED WATER
FW	FW	FW		PROPOSED RECYCLED WATER
OIL	OIL	OIL	OIL	PROPOSED OIL
F	F	F	F	PROPOSED FUEL
G	G	G	G	PROPOSED GAS
P	P	P	P	PROPOSED PIPELINE
HV	HV	HV	HV	PROPOSED HIGH VOLTAGE ELECTRICITY
E	E	E	E	PROPOSED UNDERGROUND ELECTRICITY
E	E	E	E	PROPOSED OVERHEAD ELECTRICITY
L	L	L	L	PROPOSED LIGHTING
T	T	T	T	PROPOSED TELSTRA
C	C	C	C	PROPOSED COMMUNICATIONS
GE	GE	GE	GE	PROPOSED GAS, ELECT
GT	GT	GT	GT	PROPOSED GAS, TELSTRA
ET	ET	ET	ET	PROPOSED ELECT, TELSTRA
GET	GET	GET	GET	PROPOSED GAS, ELECTRICITY, TELSTRA
RM	RM	RM		EXISTING RISING MAIN
S	S	S	S	EXISTING SEWER
SW	SW	SW	SW	EXISTING STORMWATER
SW	SW	SW	SW	EXISTING ROOFWATER
SS	SS	SS	SS	EXISTING SUBSOIL
W	W	W	W	EXISTING WATER
FW	FW	FW		EXISTING RECYCLED WATER
OIL	OIL	OIL	OIL	EXISTING OIL
F	F	F	F	EXISTING FUEL
G	G	G	G	EXISTING GAS
P	P	P	P	EXISTING PIPELINE
HV	HV	HV	HV	EXISTING HIGH VOLTAGE ELECTRICITY
E	E	E	E	EXISTING UNDERGROUND ELECTRICITY
E	E	E	E	EXISTING OVERHEAD ELECTRICITY
L	L	L	L	EXISTING LIGHTING
T	T	T	T	EXISTING TELSTRA
C	C	C	C	EXISTING COMMUNICATIONS
GE	GE	GE	GE	EXISTING GAS, ELECT
GT	GT	GT	GT	EXISTING GAS, TELSTRA
ET	ET	ET	ET	EXISTING ELECT, TELSTRA
GET	GET	GET	GET	EXISTING GAS, ELECTRICITY, TELSTRA

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

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

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

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VantageYatala
STAGE 2

THIS DRAWING IS INTENDED TO
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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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LEGEND

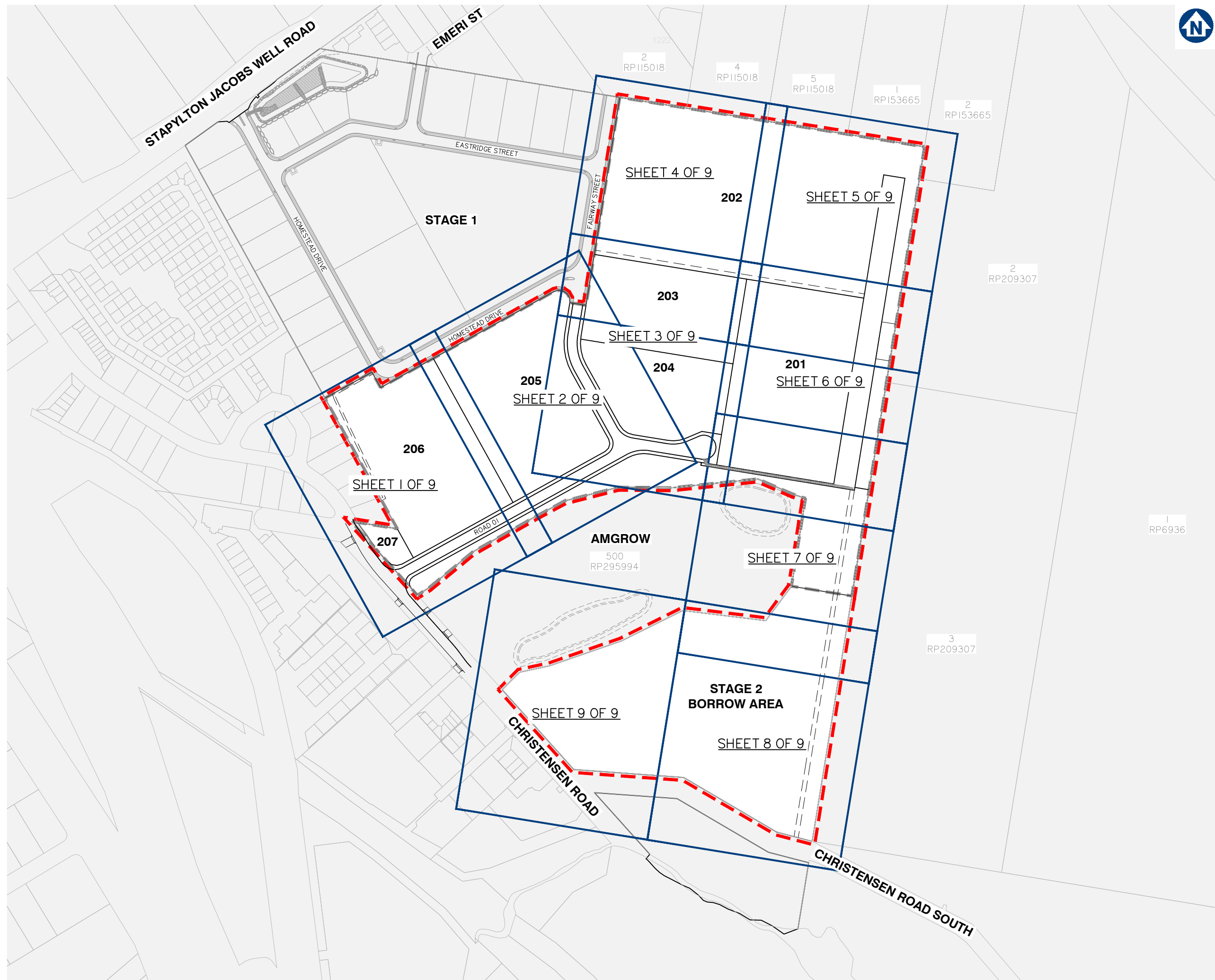
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Scale at A1:	NTS
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Rev. No:
A

LEGEND



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:

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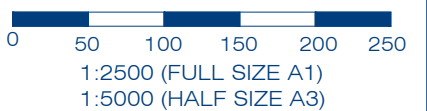
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DRAWING TITLE

KEY PLAN LAYOUT

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



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Project: **VantageYatala**
STAGE 2

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Meridian:	-
Contour Interval:	-
PSM:	-
RI :	-

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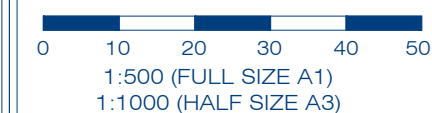
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 1 OF 9

A	20-11-2020	ORIGINAL ISSUE	BA	MO

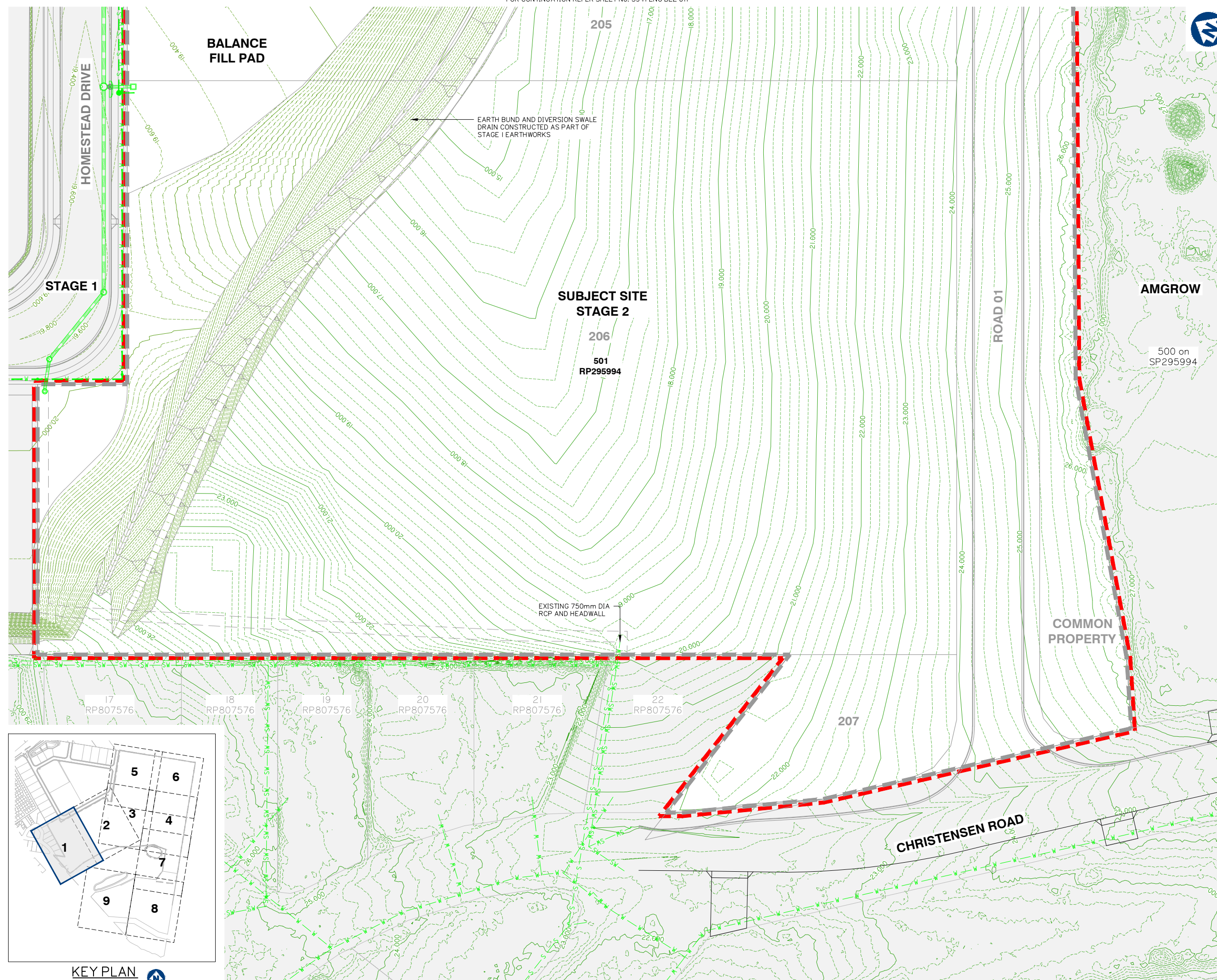
SCALE IN METRES



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





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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 2 OF 9

A Issue	20-11-2020 Date	ORIGINAL ISSUE Description	BA DRN	MG CHK

0 10 20 30 40 50

1:500 (FULL SIZE A1)

1:1000 (HALF SIZE A3)

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

STAGE 1

HOMESTEAD DRIVE

FAIRWAY STREET

SUBJECT SITE STAGE 2

501 RP295994

500 on SP295994

AMGROW

ROAD 01

BALANCE FILL PAD

KEY PLAN
SCALE 1:7500

EARTH BUND AND DIVERSION SWALE DRAIN CONSTRUCTED AS PART OF STAGE 1 EARTHWORKS

COMMON PROPERTY

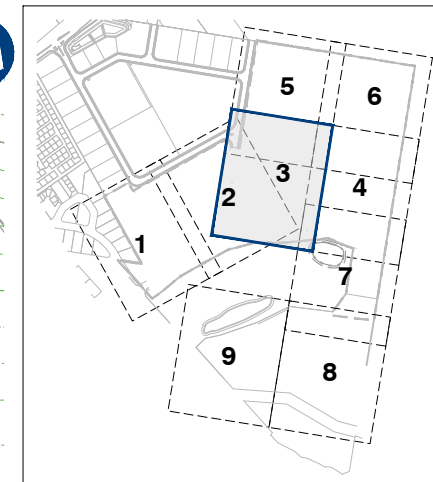
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204

205

206

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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 3 OF 9

A	20-11-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	TEN	CHEK	

Scale at A1:	1:500
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

The image is a detailed topographic map of a site, likely for a construction or land management project. The map features contour lines indicating elevation, with labels such as 11,000, 12,000, 13,000, 14,000, 15,000, 16,000, 17,000, 18,000, 19,000, 20,000, and 21,000. The site is divided into several numbered areas: 201, 202, 203, 204, and 205. A large area is labeled 'SUBJECT SITE STAGE 2' with a specific identifier '501 RP295994'. To the left, there is a 'STAGE I SEDIMENT BASIN' and a 'BALANCE FILL PAD'. A road, 'FAIRWAY STREET', runs diagonally across the site. Another road, 'ROAD 01', is visible on the right. A 'COMMON PROPERTY' area is also indicated. A note points to an 'EARTH BUND AND DIVERSION SWALE DRAIN CONSTRUCTED AS PART OF STAGE I EARTHWORKS'. A key plan inset in the top right corner shows the site's location within a larger area, with a scale of 1:7500. The map includes various symbols for roads, boundaries, and topographic features.



g:\Projects\5941\engineering\Acad\BE2 CGL\Current\5941 ENG BE2 010-018.dwg



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 4 OF 9

A	20-11-2020				ORIGINAL ISSUE			BA	MG
Issued by:	Date				Description			(RSN)	(CHK)

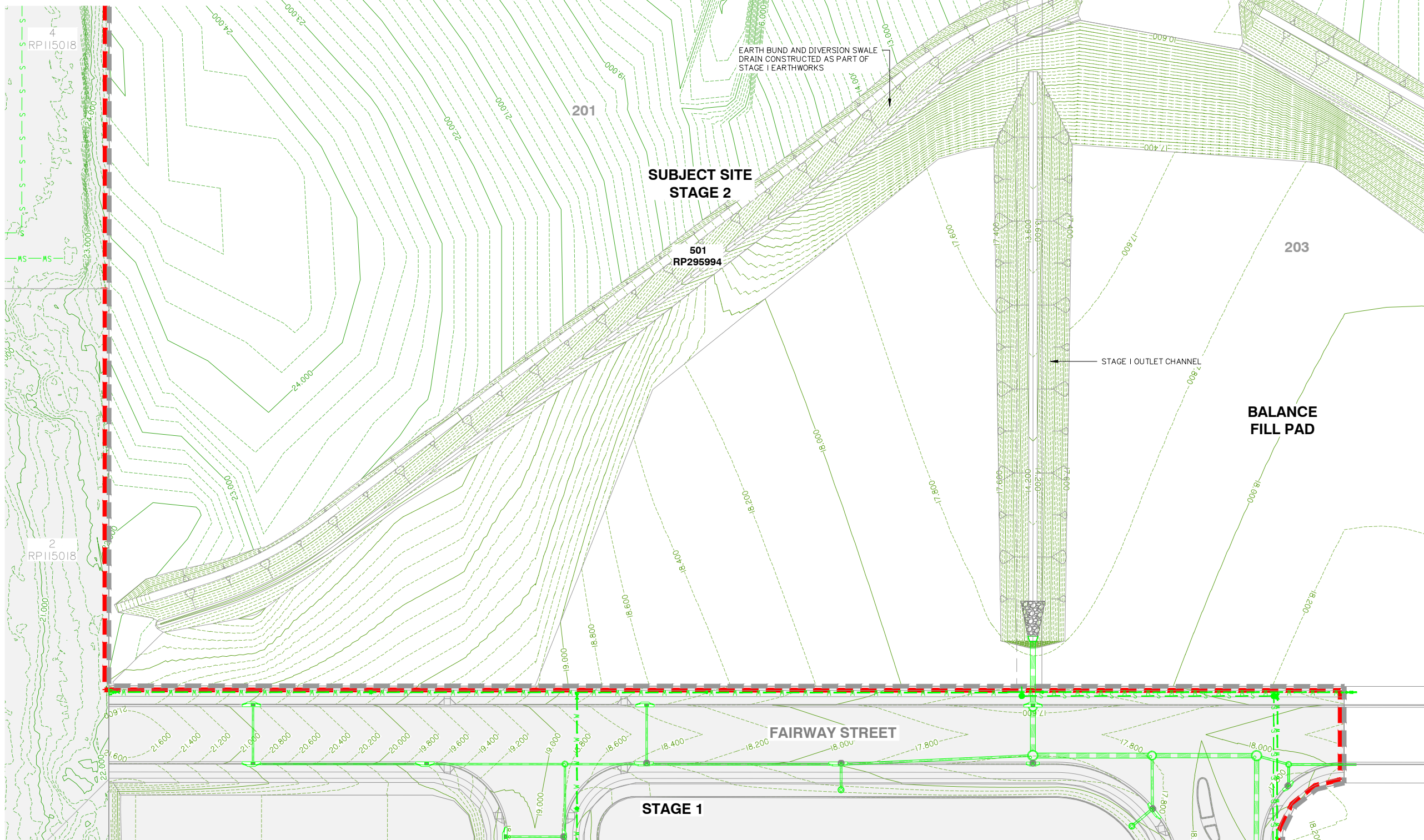
SCALE IN METRES



Scale at A1:	1:500
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:	Rev. No:
5941 ENG BE2 013	A



FOR CONTINUATION REFER SHEET No. 594|ENG BE2 012



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VantageYatala
STAGE 2

60 STAPYLTON JACOBS WELL
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: -
RI: -

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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 5 OF 9

A	20-11-2020	ORIGINAL ISSUE		BA	MG	
Issue Date		(Description)		DNR	CHE	

SCALE IN METRES



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

Scale at A1:	1:500
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Designed:	IG
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Drafted:	BA
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	20-11-2020
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Drawing No:
5941 ENG BE2 014

Rev. No:
A



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Client:



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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:	-
PSM:	-
RL:	-

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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 6 OF 9

A	20-11-2020		ORIGINAL ISSUE	BA	MO
Issue Date			(Date)	DRN	CH

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	IG
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Drafted:	BA
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Approved:	MG
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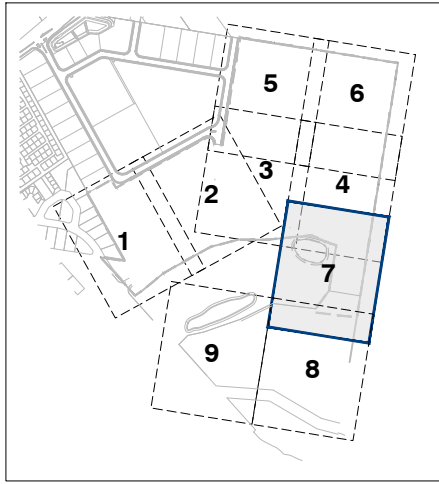
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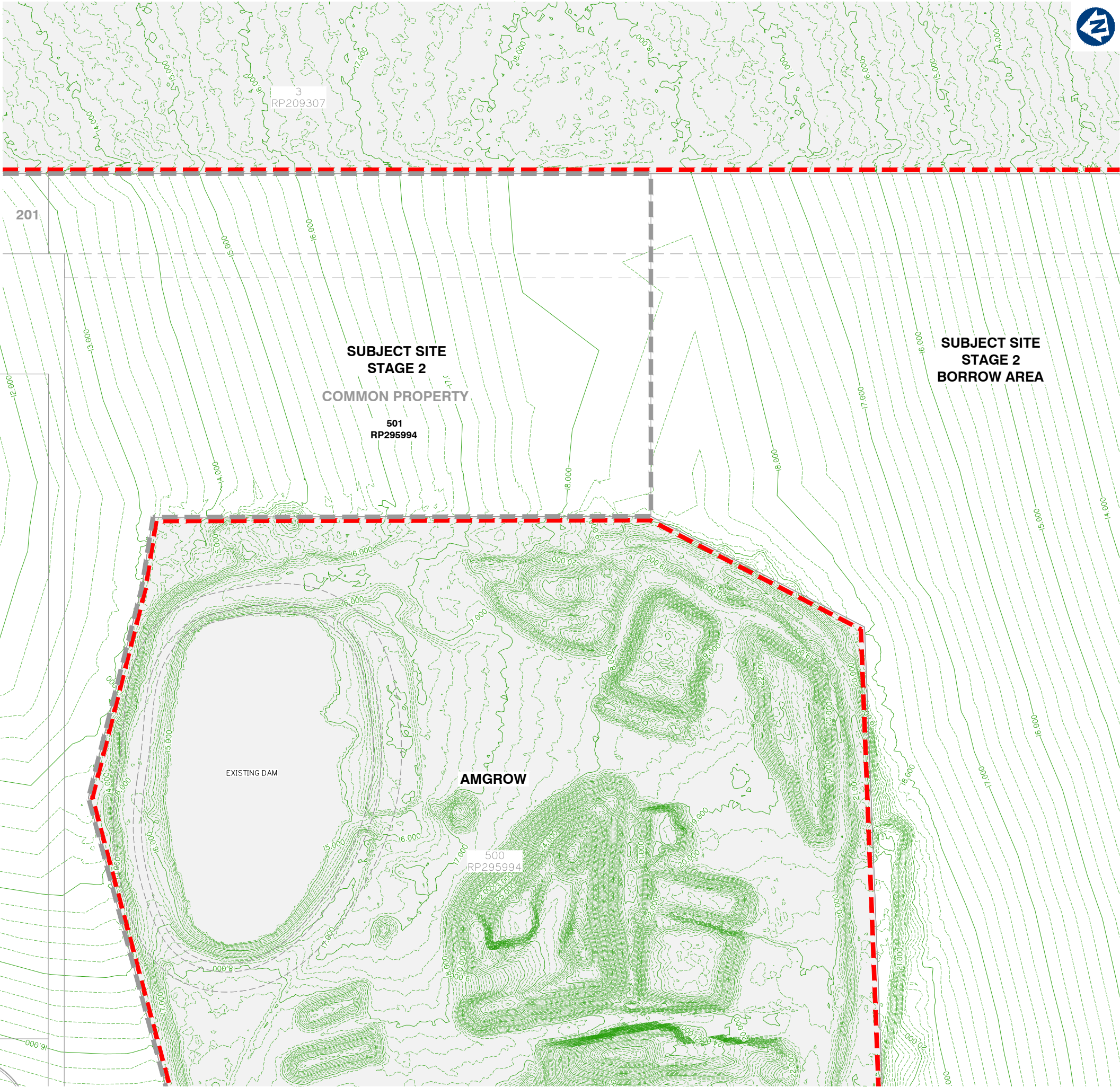
Date:	20-11-2020
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Drawing No:
5941 ENG BE2 015

Rev. No:
A



KEY PLAN
SCALE 1:7500



FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 013

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 017



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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: -
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 7 OF 9

Issue	Date	Original Issue Description	BA DRN	MG CHK
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SCALE IN METRES



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1:1000 (HALF SIZE A3)

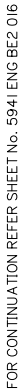
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:
5941 ENG BE2 016

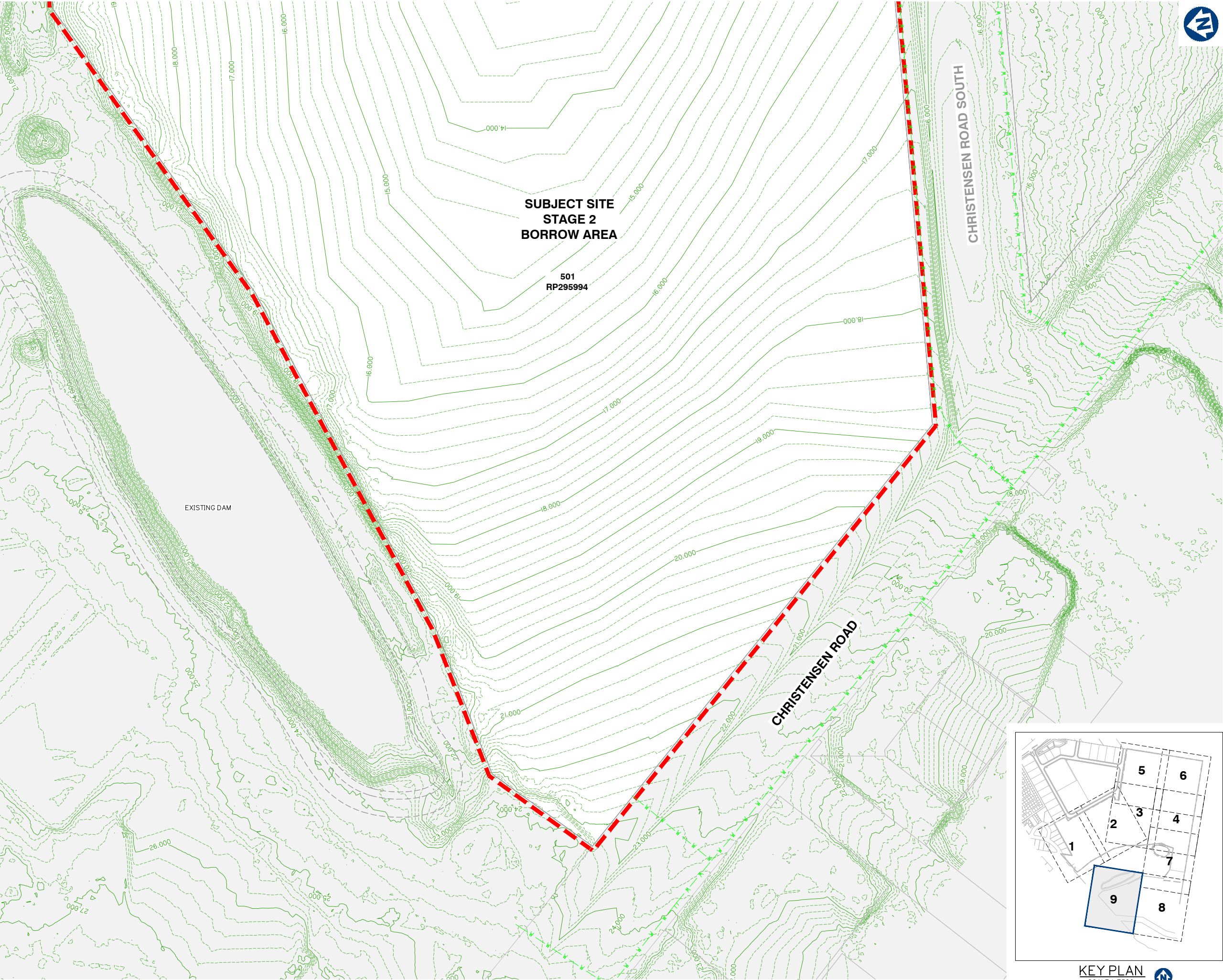
Rev. No:
A

EXISTING SURFACE AND FEATURES PLAN SHEET 7 OF 9



EXISTING SURFACE AND FEATURES PLAN SHEET 8 OF 9

Drawing No:	Rev. No:
5941 ENG BE2 017	A



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(AUSTRALIA) PTY. LTD.

Project:

VantageYatala[®]
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 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
9 OF 9

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



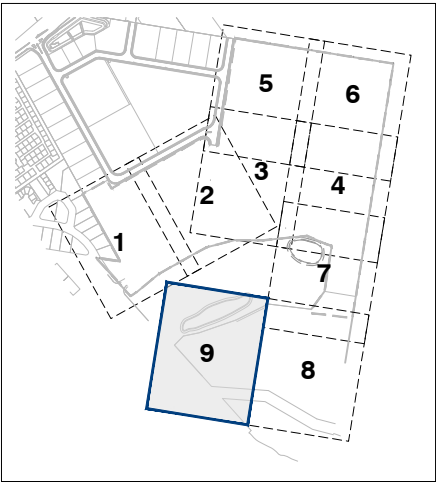
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

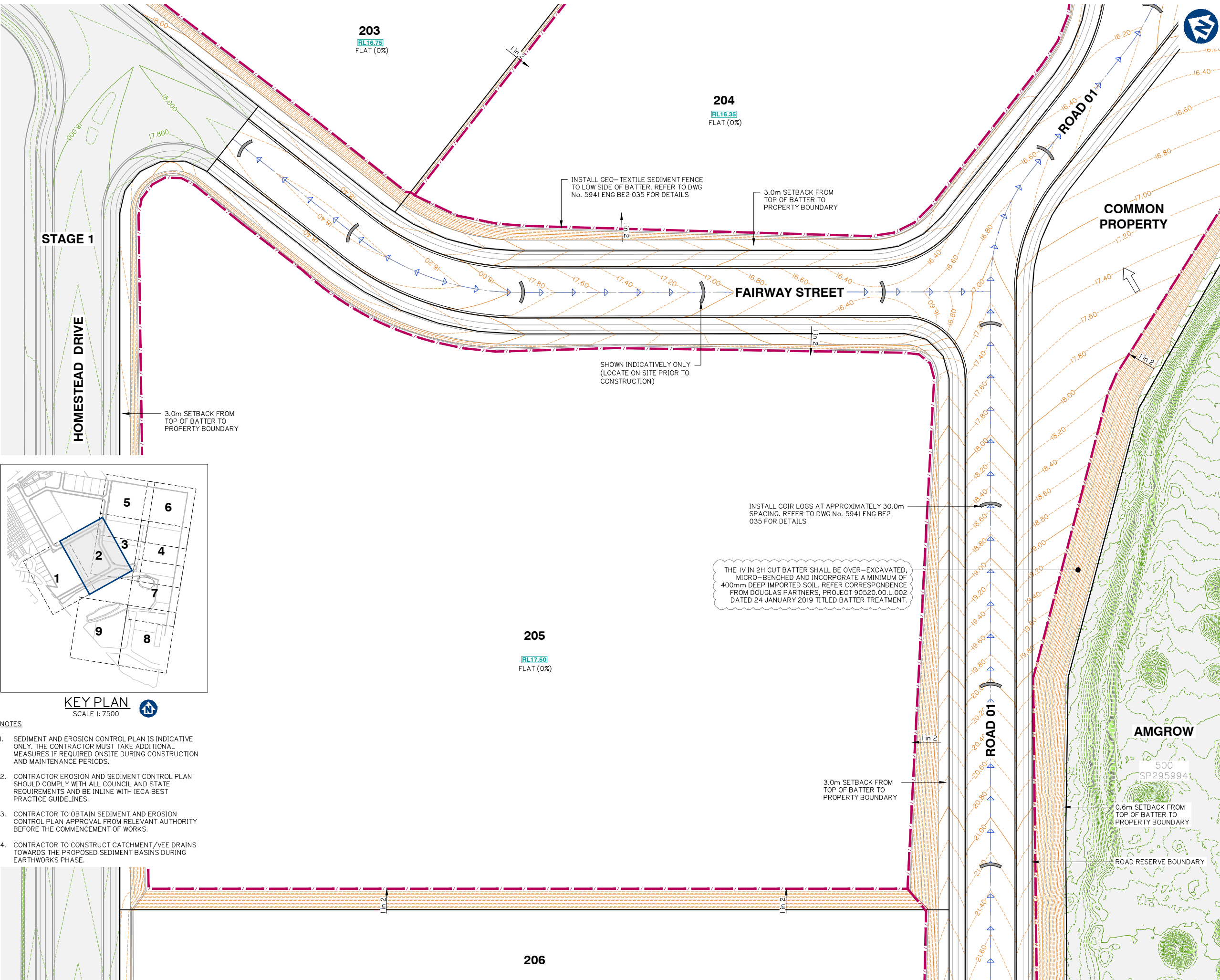
Drawing No:
5941 ENG BE2 018

Rev. No:
A



KEY PLAN
SCALE 1: 7500





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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
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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 2 OF 9

B	15-02-2021	INFORMATION REQUEST RESPONSE			YC	MU
A	20-11-2020	ORIGINAL ISSUE			BA	MO
Issue	Date	Description			DBN	CH

SCALE IN METRES



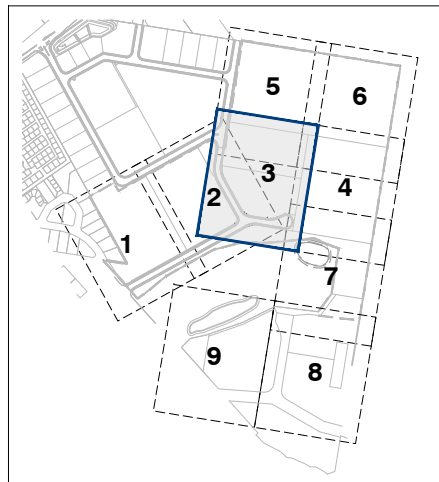
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 021

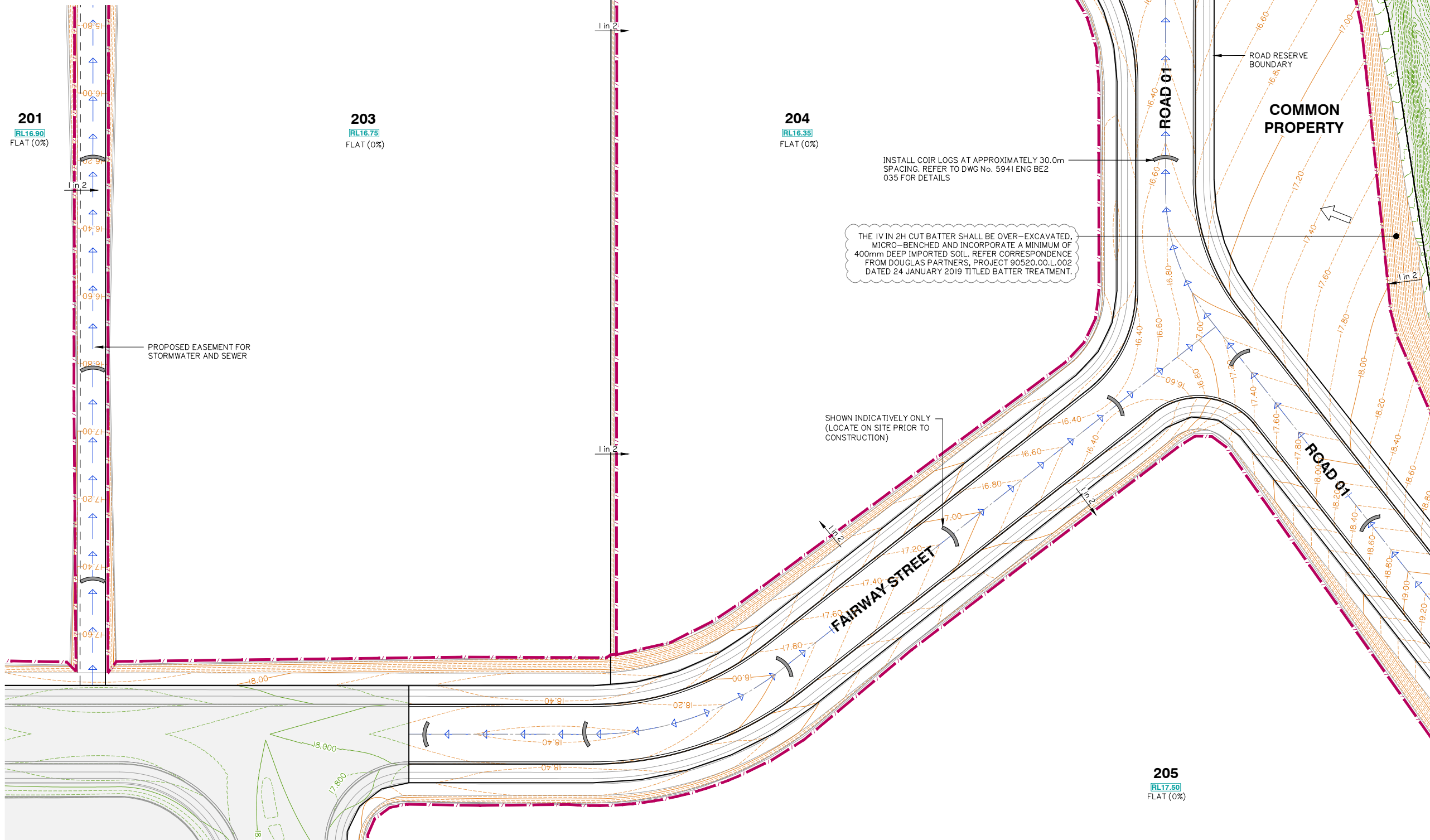
Rev. No:
B



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

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 3 OF 9

Rev	Date	Description	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



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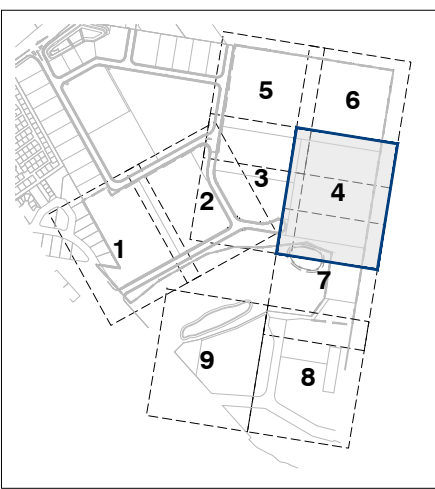
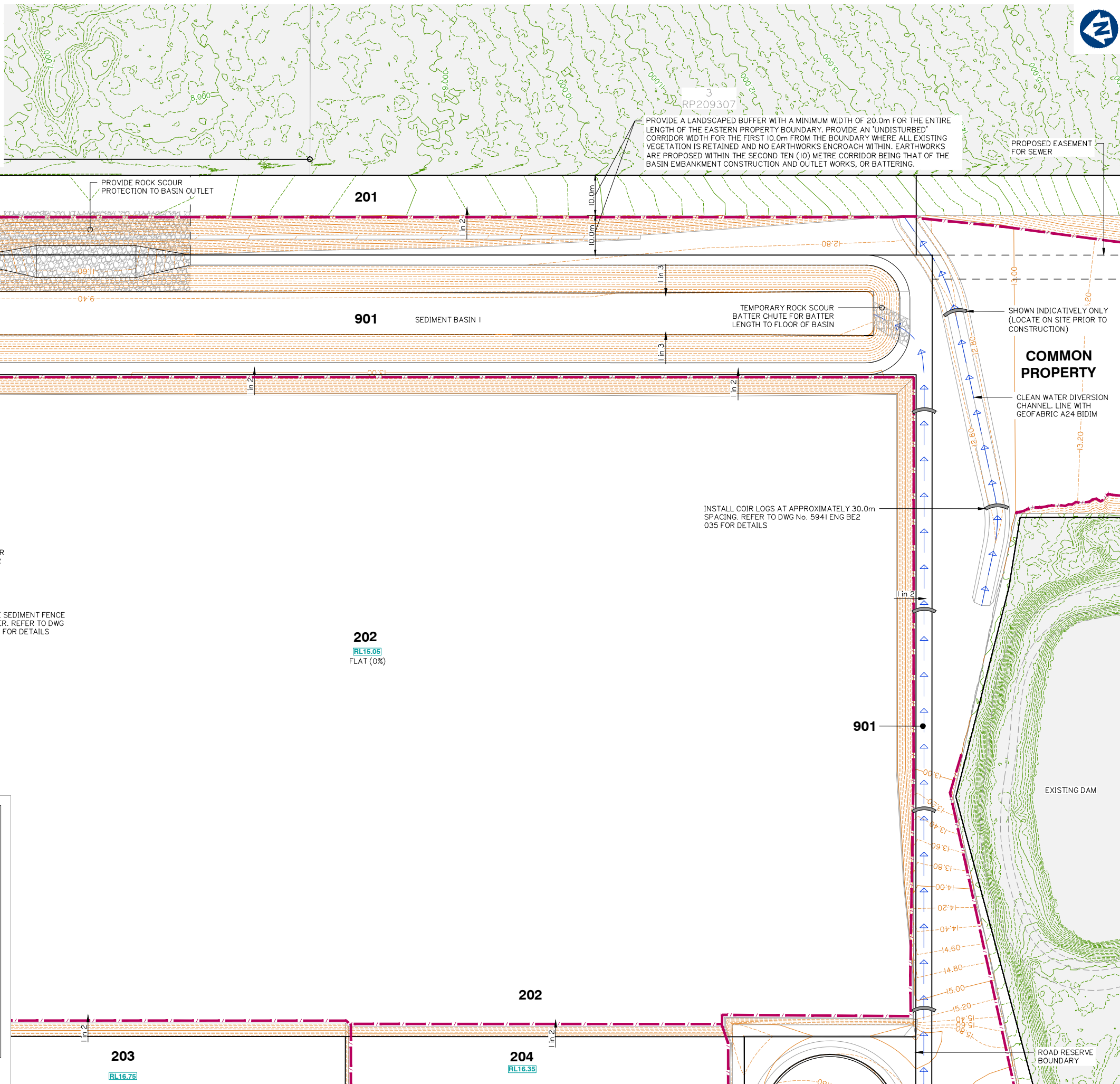
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 022

Rev. No:
B

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.
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.



FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 025

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 026

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 022

SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 9



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(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

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

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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 9

Issue	Date	Description	BA	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG

SCALE IN METRES

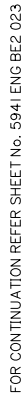


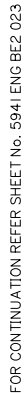
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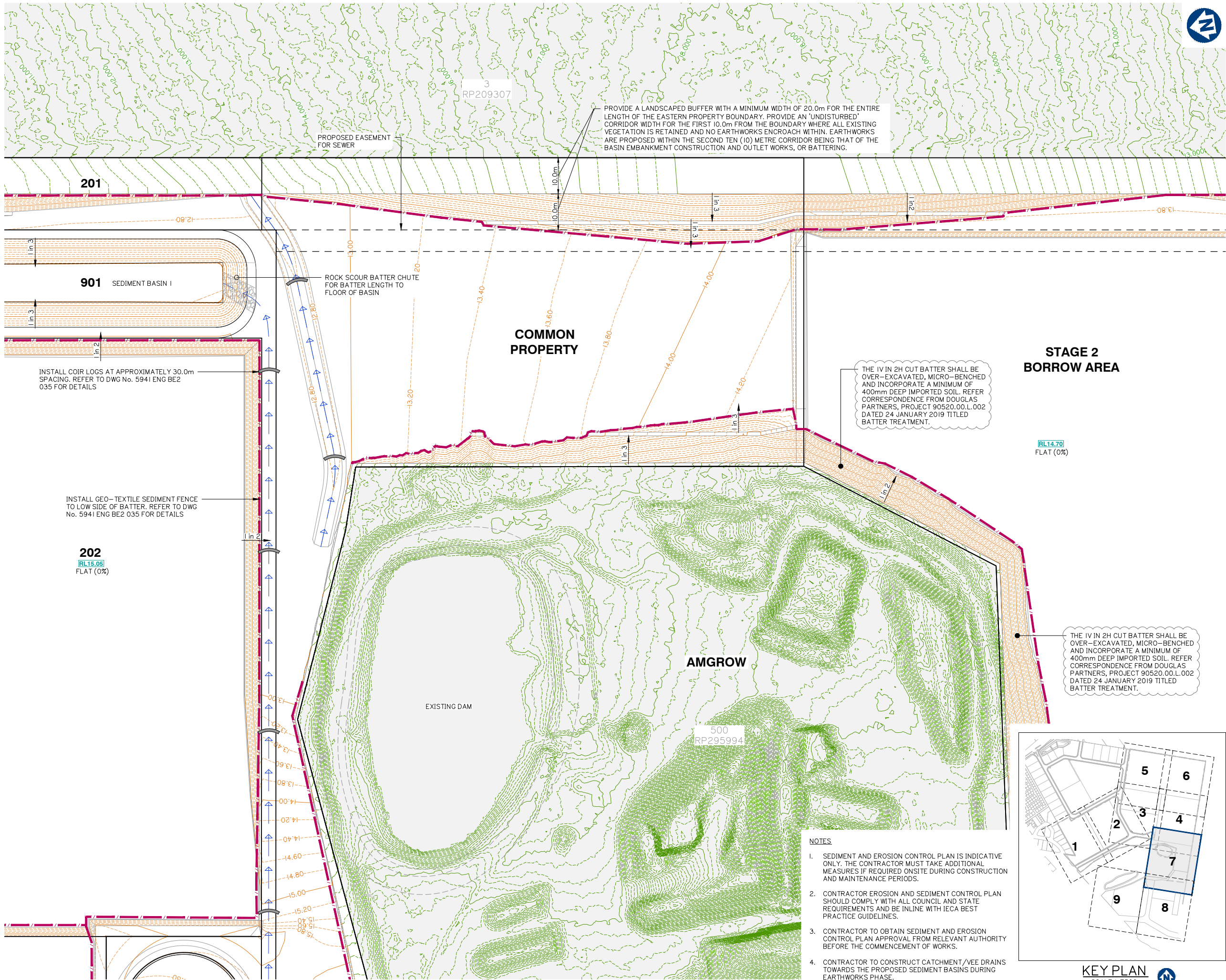
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:
5941 ENG BE2 023

Rev. No:
A





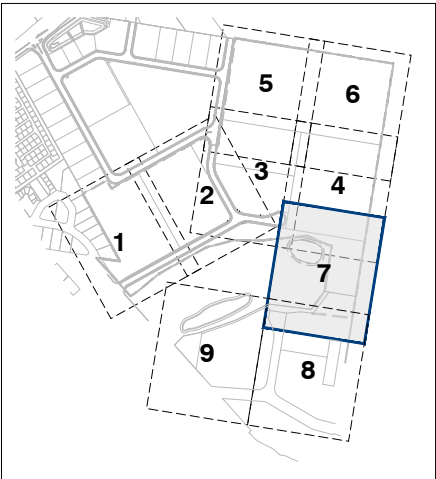


FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 023

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 027

NOTES

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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

Client:



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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

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

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SEDIMENT AND
EROSION CONTROL
PLAN SHEET 7 OF 9

SCALE IN METRES



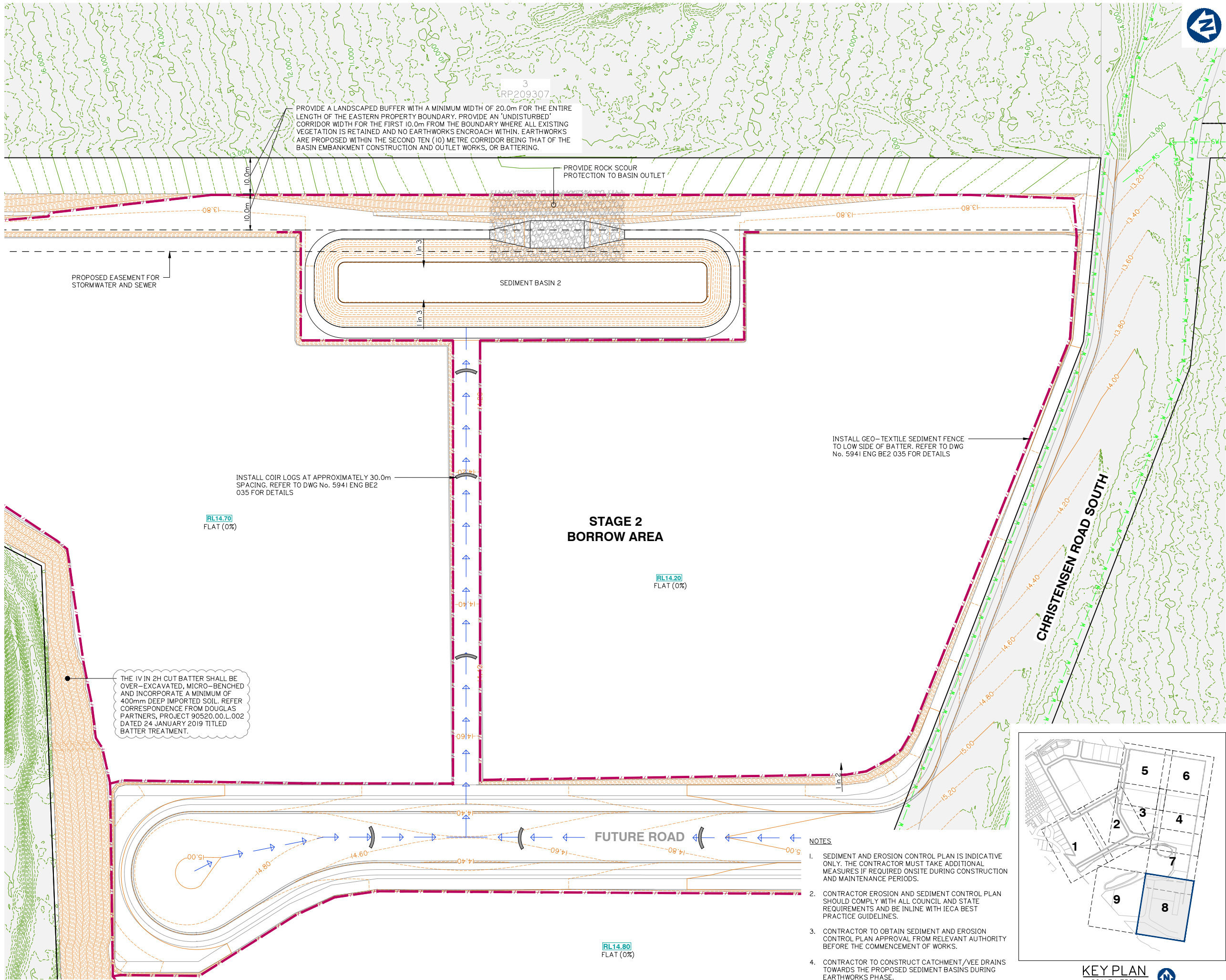
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

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5941 ENG BE2 026

Rev. No:
B



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FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 028

SEDIMENT AND EROSION CONTROL PLAN SHEET 8 OF 9

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
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 8 OF 9

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



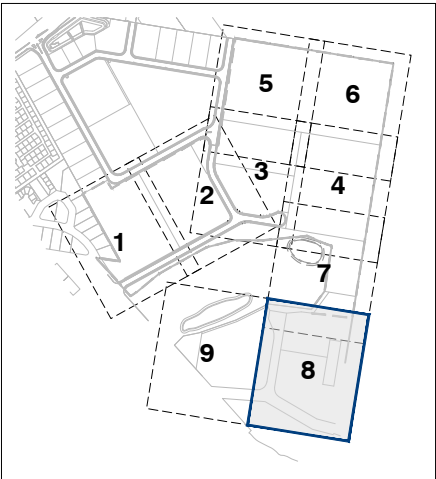
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 027

Rev. No:
B



KEY PLAN
SCALE 1:7500



Project: **VantageYatala**
STAGE 2

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:	-

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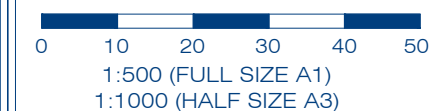
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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 9 OF 9

B	15-02-2021	INFORMATION REQUEST RESPONSE		IG	MCI
A	20-11-2020	ORIGINAL ISSUE		BA	MCI
Issue	Date	Description		DRN	CH

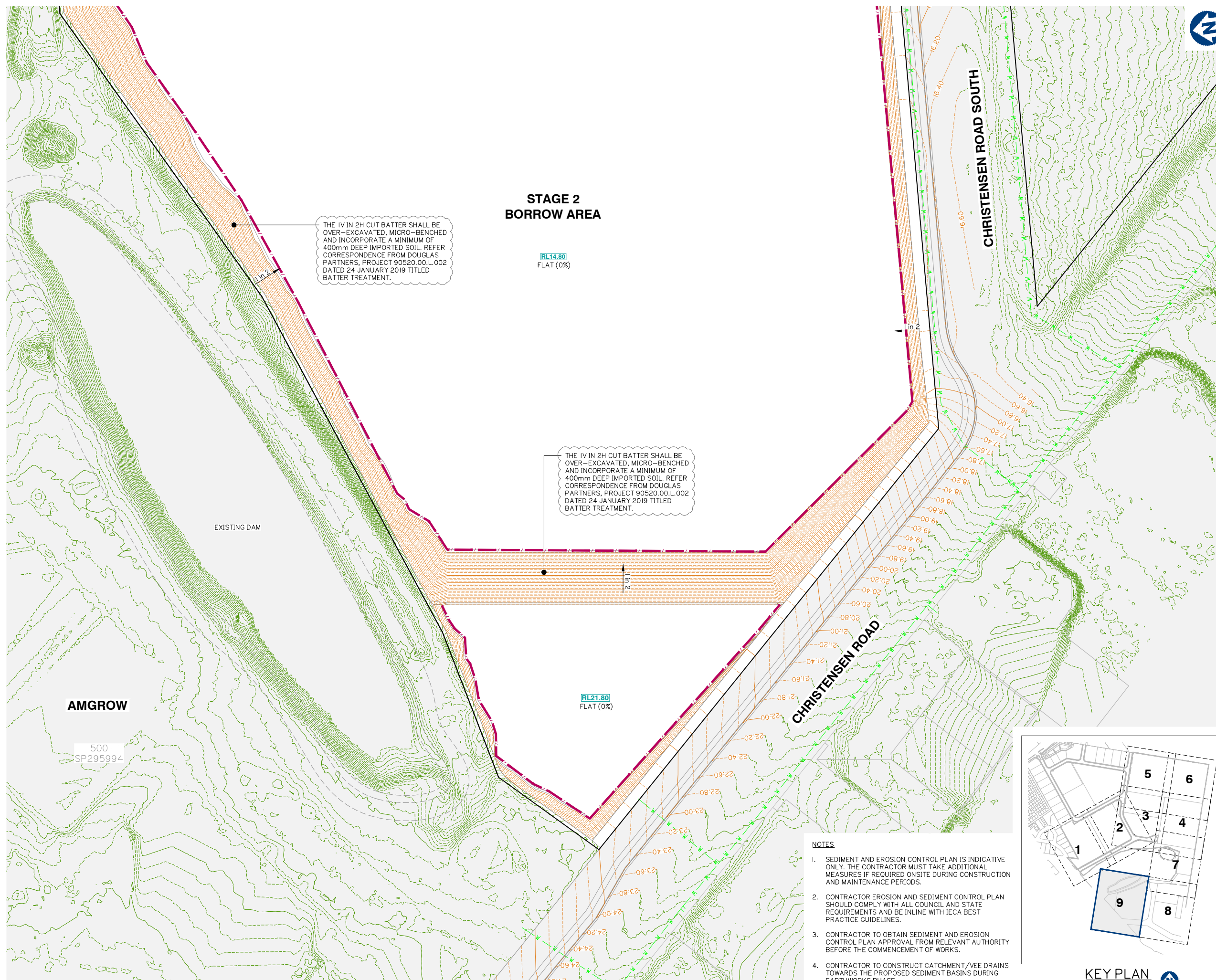
SCALE IN METRES



Scale at A1:	1:500
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 028	B



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2. CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL CITY OF GOLD COAST COUNCIL AND STATE REQUIREMENTS AND TO BE IN ACCORDANCE WITH INDUSTRY BEST PRACTICE GUIDELINES.
3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.



BASIN ID	CATCHMENT AREA	DESIGN EVENT	$I_{x \text{ yr}, 24 \text{ hr}}$	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W: L	OPTIMUM LOW-FLOW DECAT RATE	SELECTED LOW-FLOW DECAT RATE (Q_A)	MIN SETTLLING ZONE VOLUME (Min V_s)	MIN SETTLLING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m³)	(m²)	
LPoD-IB	13.352	I	4.53	20	11150	1.82	3.1	9	9	3325	1358	VOLUME

BASIN ID	BASIN DESIGN LIFE	SPILLWAY									
		DESIGN ARI	C ₁₀	C	t _c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m³/s)	(m)	(m)	(m)	(m)
LPoD-IB	> 12 MONTHS	1: 50	0.80	0.92	25.00	143.00	4.95	0.20	25.00	11.64	12.29

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	11.64	12.29	11.84	4.0	2.0	0.6



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

B	15-02-2021	INFORMATION REQUEST RESPONSE	IQ	MO
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHN

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

Scale at A1: 1:250

Designed:	IG
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Drafted:	BA
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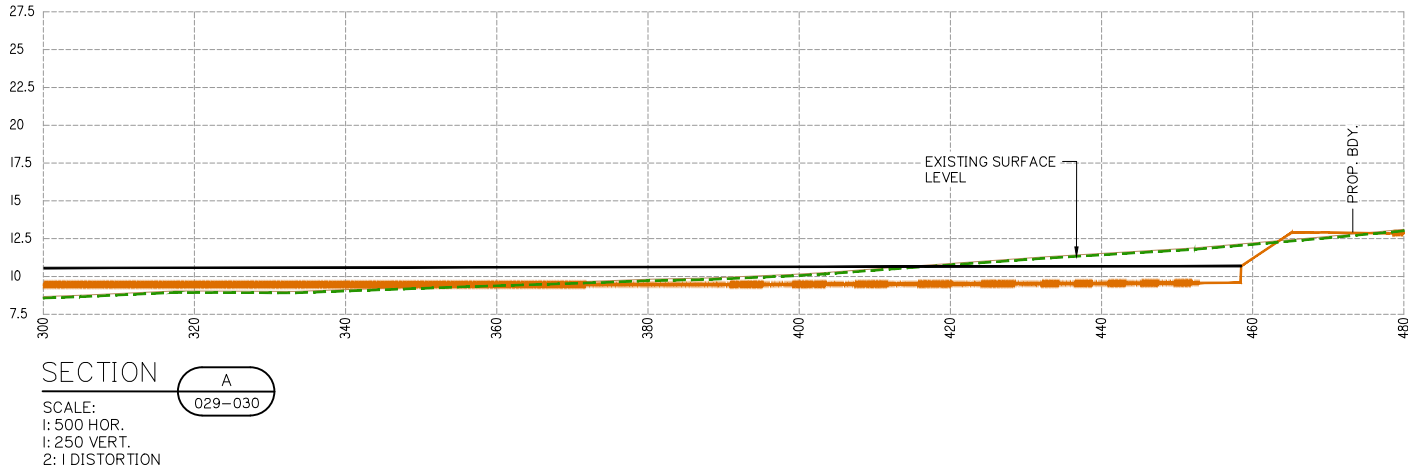
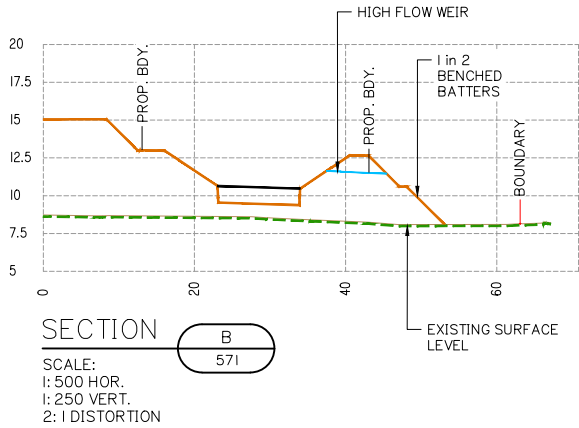
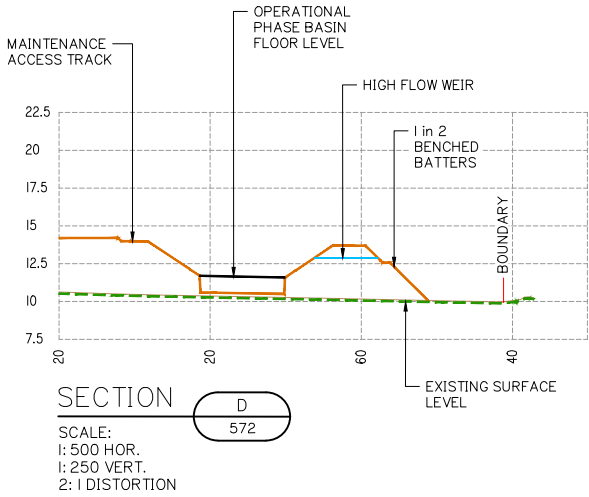
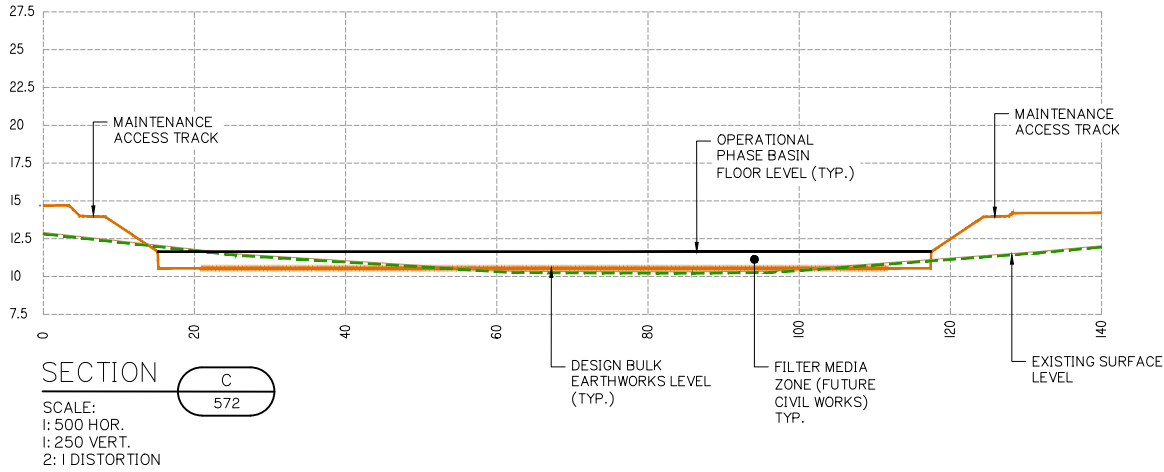
Approved:	MG
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RPEQ:	16939
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Signed:	
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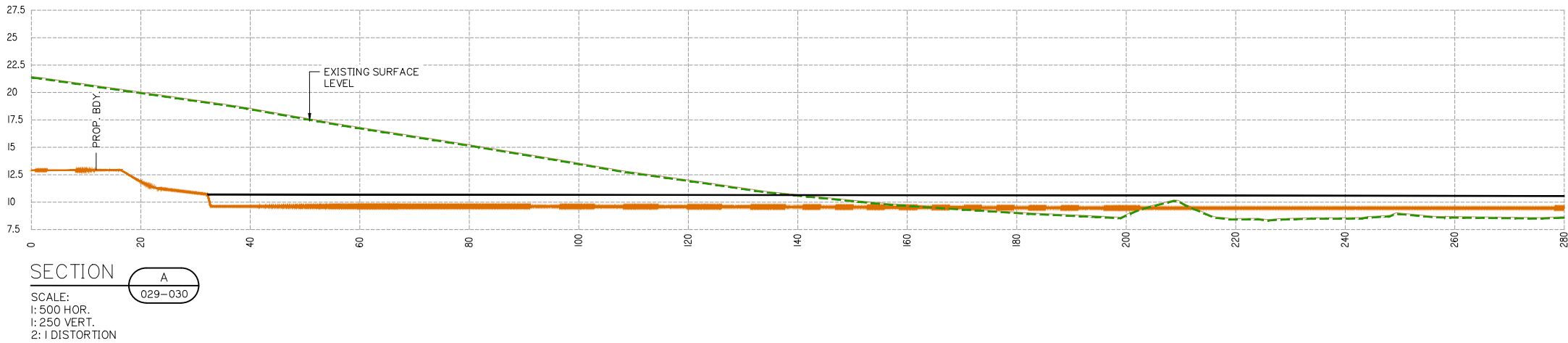
Date:	15-02-2021
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Drawing No:	Rev. No:
5941 ENG BE2 031	B



NOTE:

1. 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



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, Beerleigh 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
CONSTRUCTION PHASE
SEDIMENT BASIN
SECTIONS

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:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

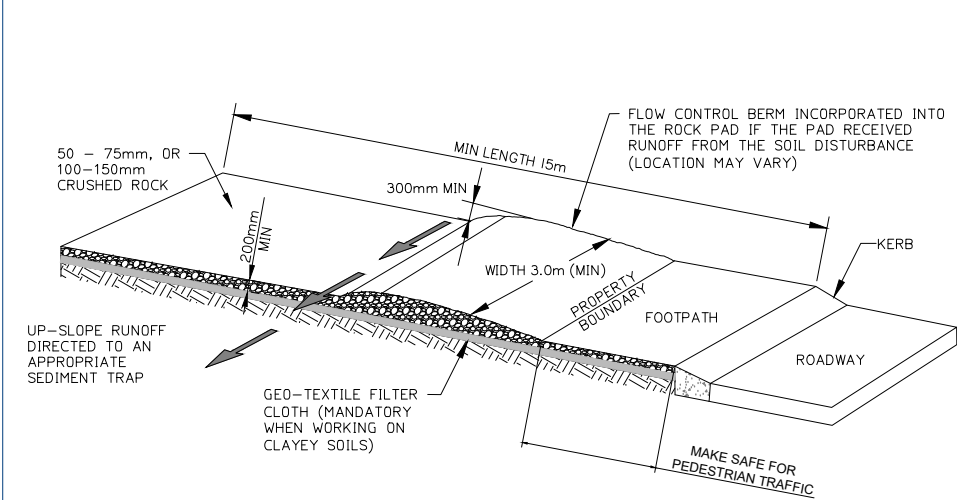
Drawing No:
5941 ENG BE2 033

Rev. No:
A

CONSTRUCTION PHASE SEDIMENT BASIN SECTIONS

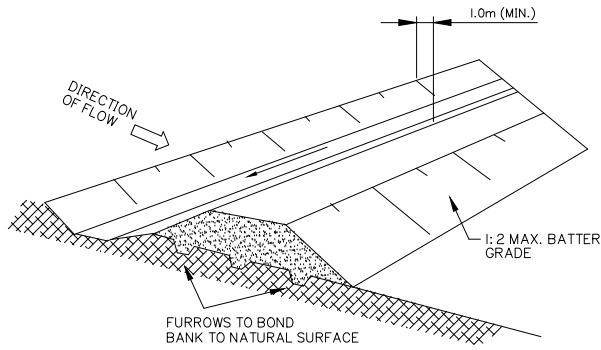


Drawing No:	Rev. No:
5941 ENG BE2 034	A



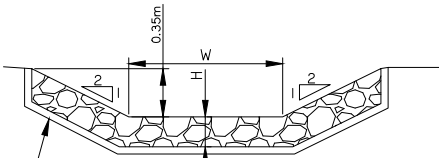
ENTRY/EXIT PAD FOR CONSTRUCTION SITE

NOT TO SCALE



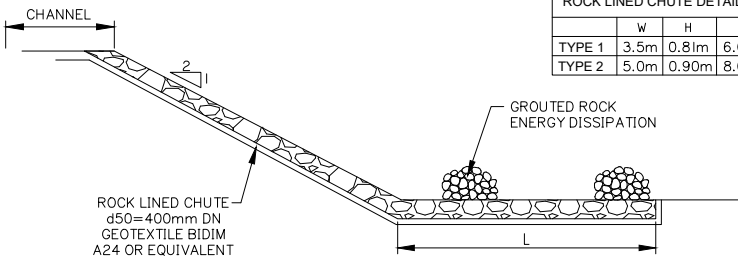
DIVERSION DRAIN

NOT TO SCALE



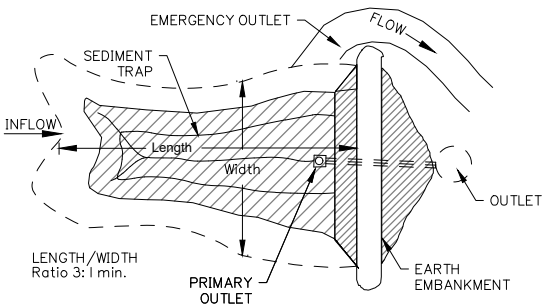
ROCK LINED CHUTE d50=400mm DN
GEOTEXTILE BIDIM A24 OR EQUIVALENT

	W	H	L
TYPE 1	3.5m	0.81m	6.0m
TYPE 2	5.0m	0.90m	8.0m



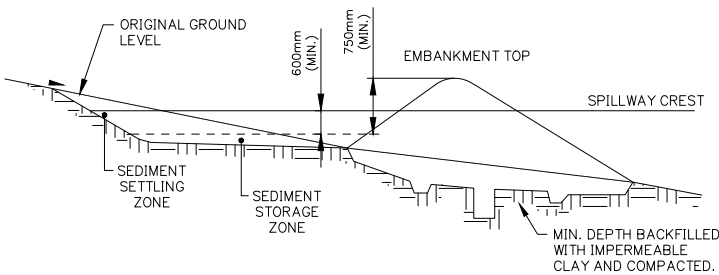
ROCK LINED CHUTE

NOT TO SCALE



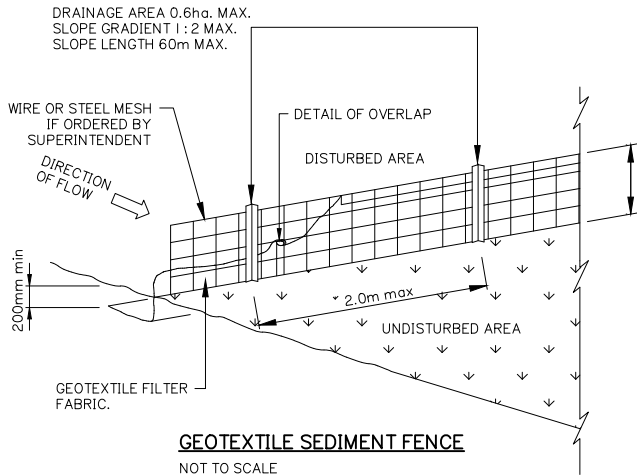
TYPICAL SEDIMENT BASIN

NOT TO SCALE



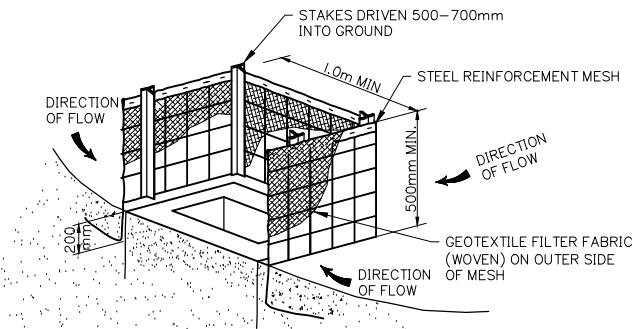
TYPICAL SECTION VEE DRAIN

NOT TO SCALE



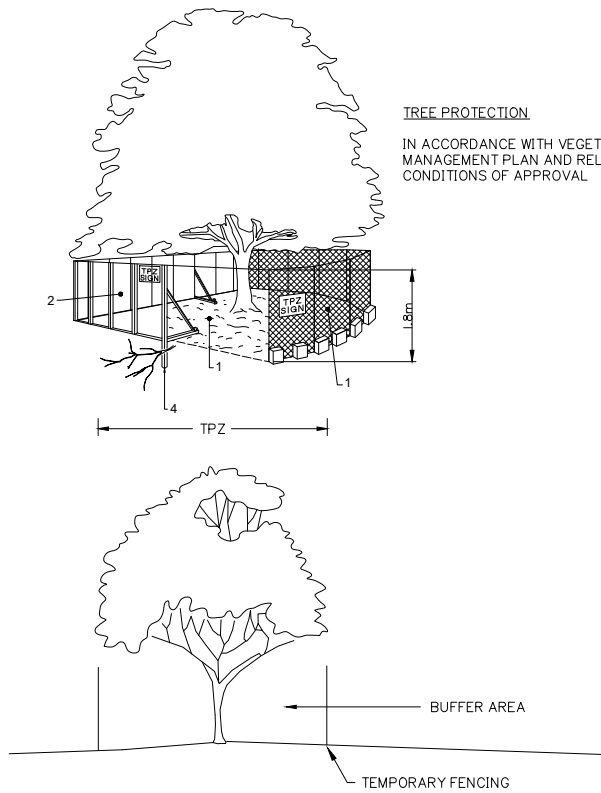
GEOTEXTILE SEDIMENT FENCE

NOT TO SCALE



STORMWATER INLET - SEDIMENT TRAP

NOTE:
FOURTH SIDE OF TRAP NOT SHOWN FOR CLARITY



TREE PROTECTION

IN ACCORDANCE WITH VEGETATION
MANAGEMENT PLAN AND RELEVANT
CONDITIONS OF APPROVAL

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.

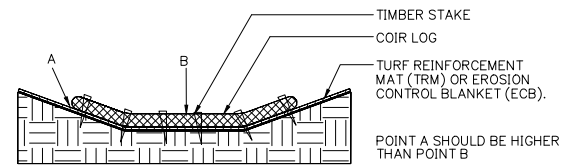
DETERMINING THE TPZ

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.

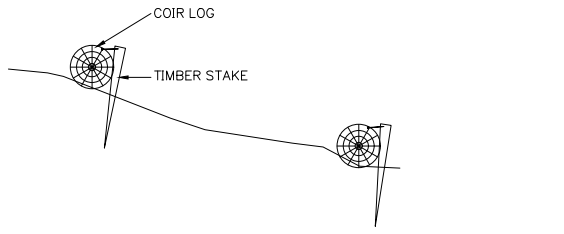
PROTECTIVE FENCING

NOT TO SCALE



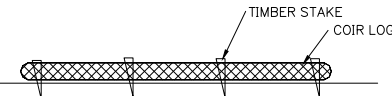
PROPER PLACEMENT OF COIR LOG IN DRAINAGE PATH

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: -

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DRAWING TITLE

SEDIMENT AND EROSION
TYPICAL DETAILS

A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

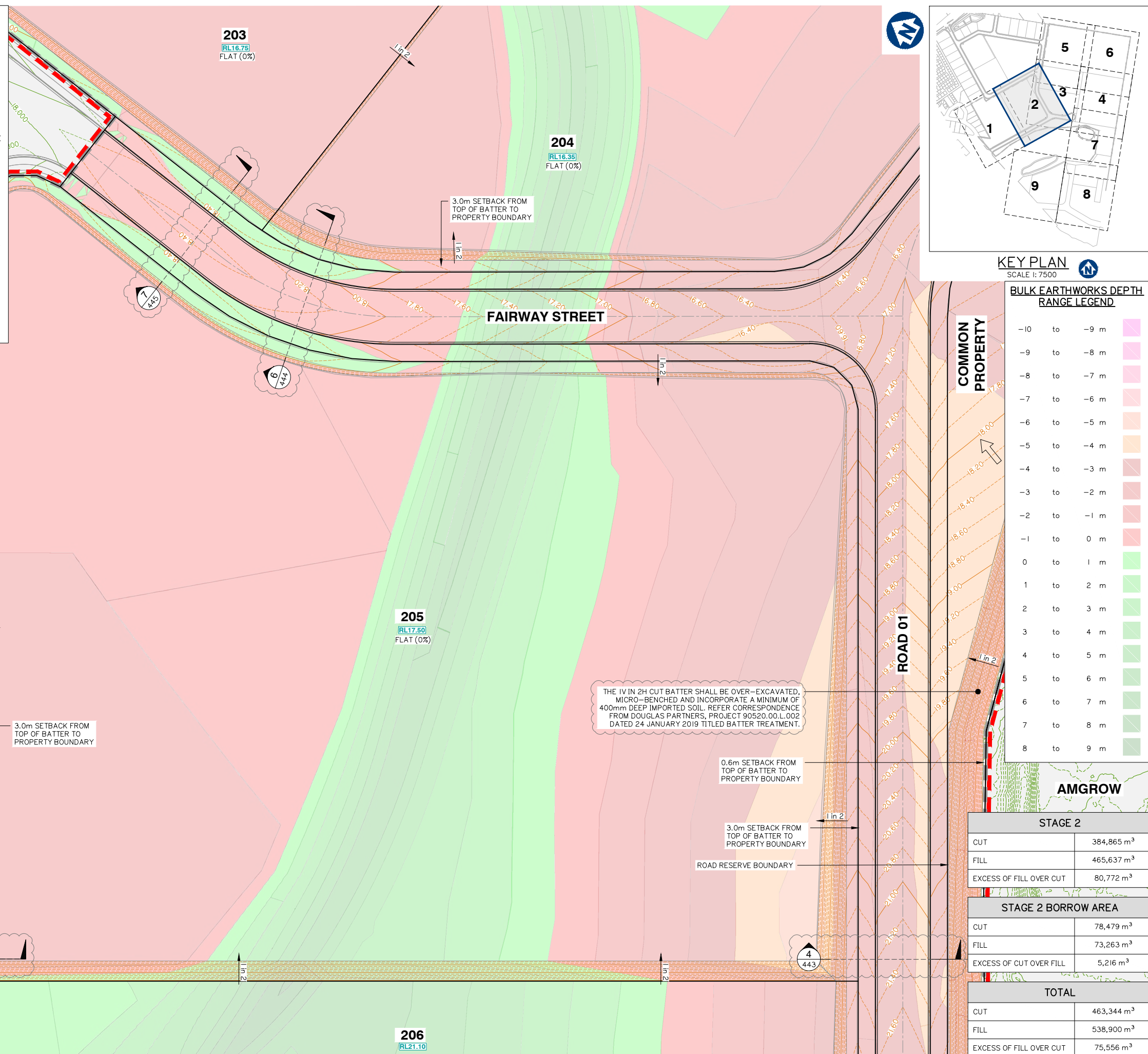
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1:10000 (FULL SIZE A1)
1:20000 (HALF SIZE A3)

Scale at A1: 1:XXXX

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:
5941 ENG BE2 035

Rev. No:
A



B	15-02-2021		INFORMATION REQUEST RESPONSE	IG
A	20-11-2020		ORIGINAL ISSUE	BA
Issue	Date		Description	DRN

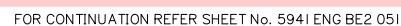
Scale at A1:	1:500
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

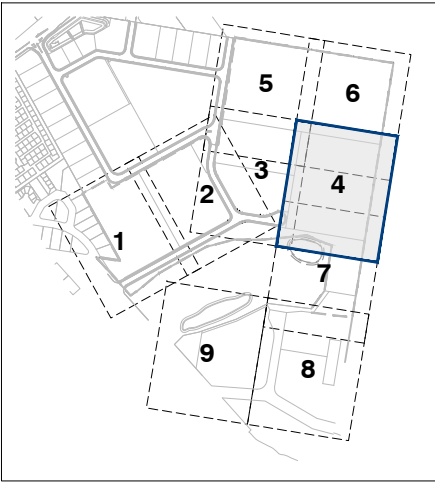


STAGE 2	
CUT	384,865 m ³
FILL	465,637 m ³
EXCESS OF FILL OVER CUT	80,772 m ³

STAGE 2 BORROW AREA	
CUT	78,479 m ³
FILL	73,263 m ³
EXCESS OF CUT OVER FILL	5,216 m ³

TOTAL	
CUT	463,344 m ³
FILL	538,900 m ³
EXCESS OF FILL OVER CUT	75,556 m ³

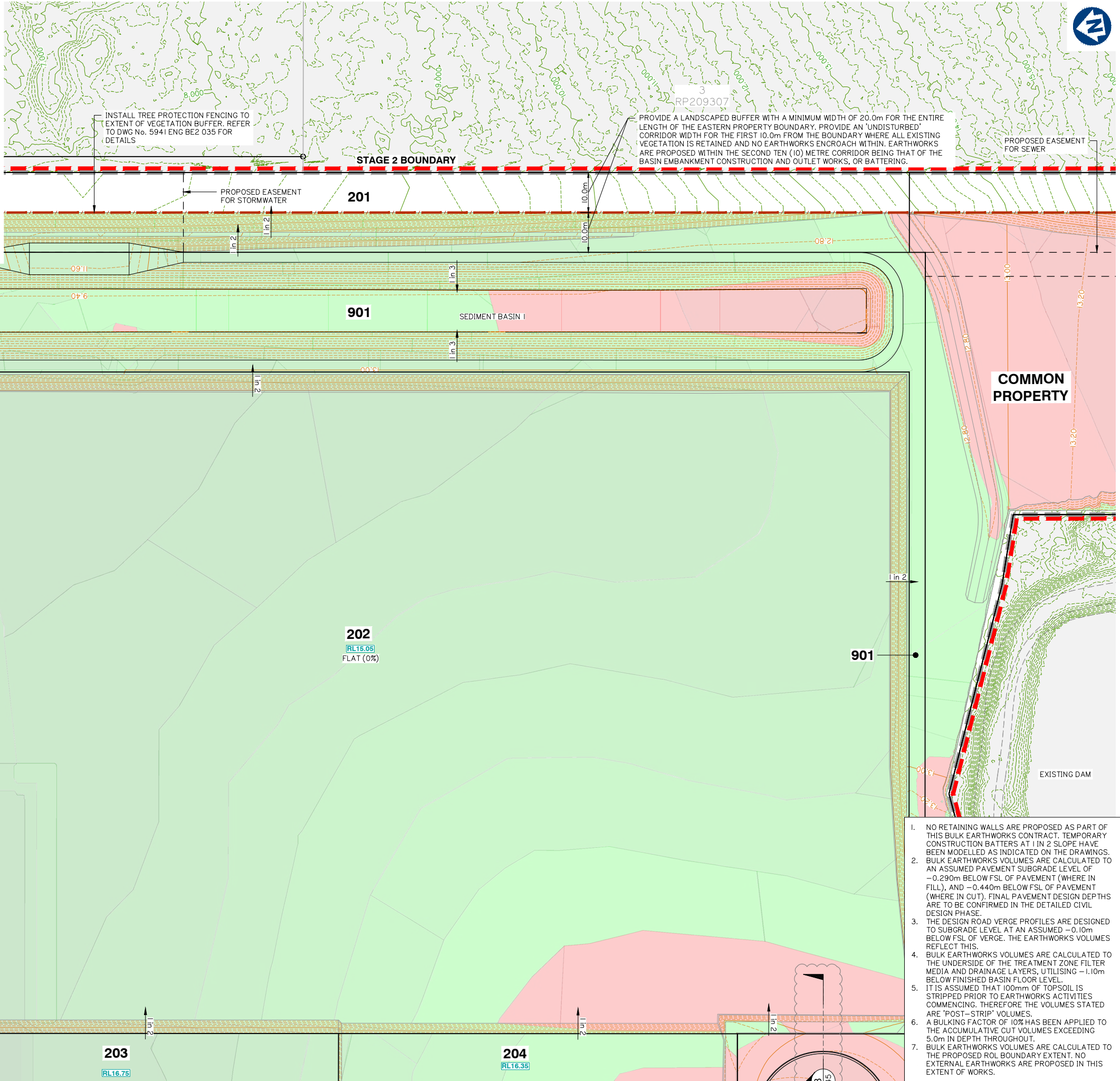




KEY PLAN
SCALE 1: 7500

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

STAGE 2	
CUT	384,865 m ³
FILL	465,637 m ³
EXCESS OF FILL OVER CUT	80,772 m ³
STAGE 2 BORROW AREA	
CUT	78,479 m ³
FILL	73,263 m ³
EXCESS OF CUT OVER FILL	5,216 m ³
TOTAL	
CUT	463,344 m ³
FILL	538,900 m ³
EXCESS OF FILL OVER CUT	75,556 m ³



- NO RETAINING WALLS ARE PROPOSED AS PART OF THIS BULK EARTHWORKS CONTRACT. TEMPORARY CONSTRUCTION BATTERS AT 1 IN 2 SLOPE HAVE BEEN MODELLED AS INDICATED ON THE DRAWINGS. 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.
- A BULKING FACTOR OF 10% HAS BEEN APPLIED TO THE ACCUMULATIVE CUT VOLUMES EXCEEDING 5.0m IN DEPTH THROUGHOUT.
- BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE PROPOSED ROL BOUNDARY EXTENT. NO EXTERNAL EARTHWORKS ARE PROPOSED IN THIS EXTENT OF WORKS.

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 052

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

BULK EARTHWORKS
LAYOUT PLAN SHEET 4 OF 9

Issue	Date	Original Issue	Description	BA	MG	DRN	CHK
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:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

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

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 055

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 056



Project: **VantageYatala**
STAGE 2

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

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

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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 5 OF 9

B	15-02-2021			ig	MO
A	20-11-2020	INFORMATION REQUEST RESPONSE		BA	MG
		ORIGINAL ISSUE		DGB	CH
Issue					

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	IG
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Drafted:	BA
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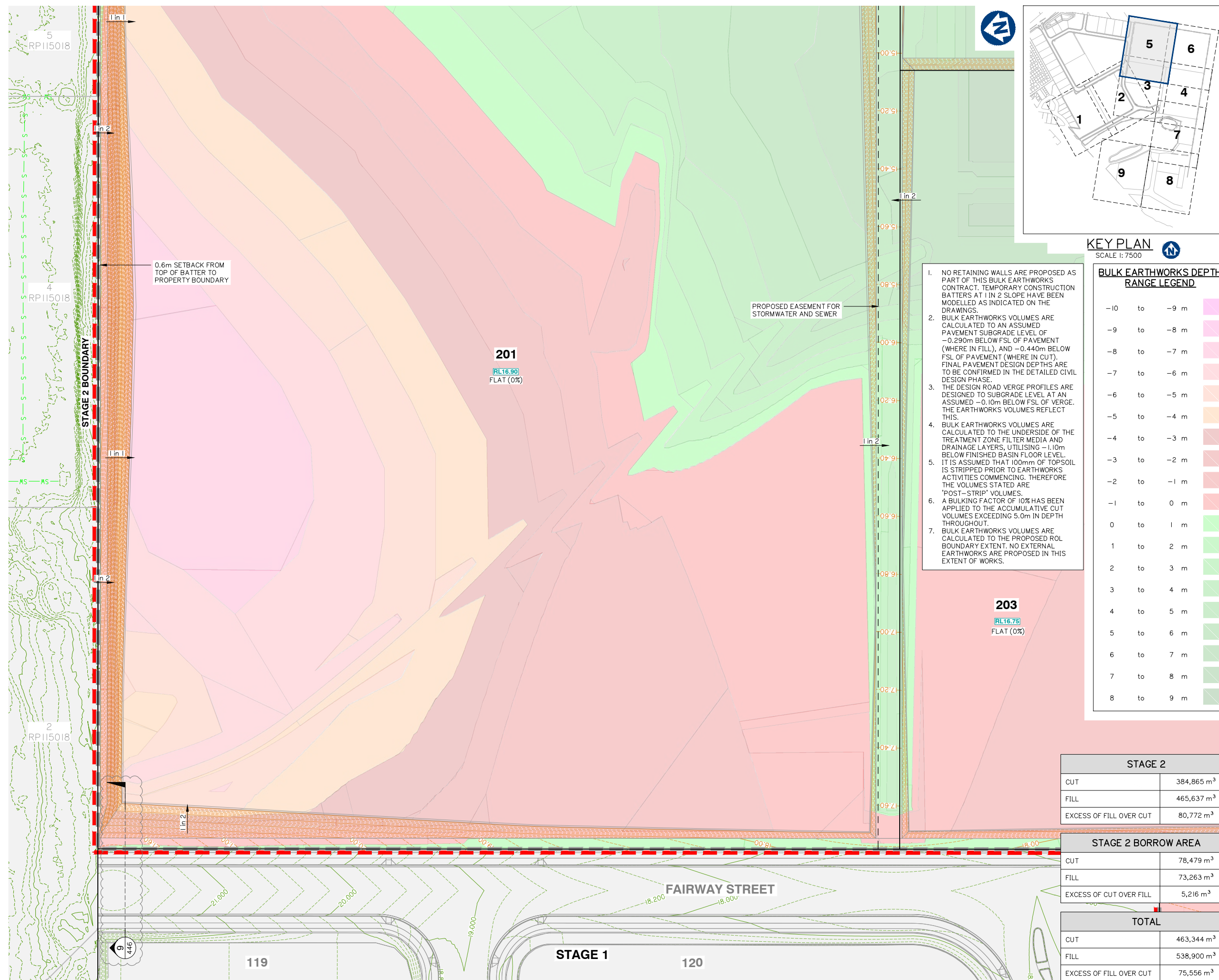
Approved:	MC
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RPEQ:	16939
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Signed:	
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Date:	15-02-2021
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Drawing No:	Rev. No:
5941 ENG BE2 054	B





FOR CONTINUATION REFER SHEET No. 594 I ENGBE2 053



Projects

VantageYatala

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: -
RI: -

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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 6 OF 9

A Issue	20-11-2020 Date	ORIGINAL ISSUE Description	BA DRN	MCH

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	IG
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Drafted:	BA
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	20-11-2020
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Drawing No:
5941 ENG BE2 055

Rev. No:
A



STAGE 2	
CUT	384,865 m ³
FILL	465,637 m ³
EXCESS OF FILL OVER CUT	80,772 m ³
STAGE 2 BORROW AREA	
CUT	78,479 m ³
FILL	73,263 m ³
EXCESS OF CUT OVER FILL	5,216 m ³
TOTAL	
CUT	463,344 m ³
FILL	538,900 m ³
EXCESS OF FILL OVER CUT	75,556 m ³



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

BULK EARTHWORKS
LAYOUT PLAN SHEET 7 OF 9

[illegible]

B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	20-11-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHI

SCALE IN METRES



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

Scale at A1:	1:500
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 056

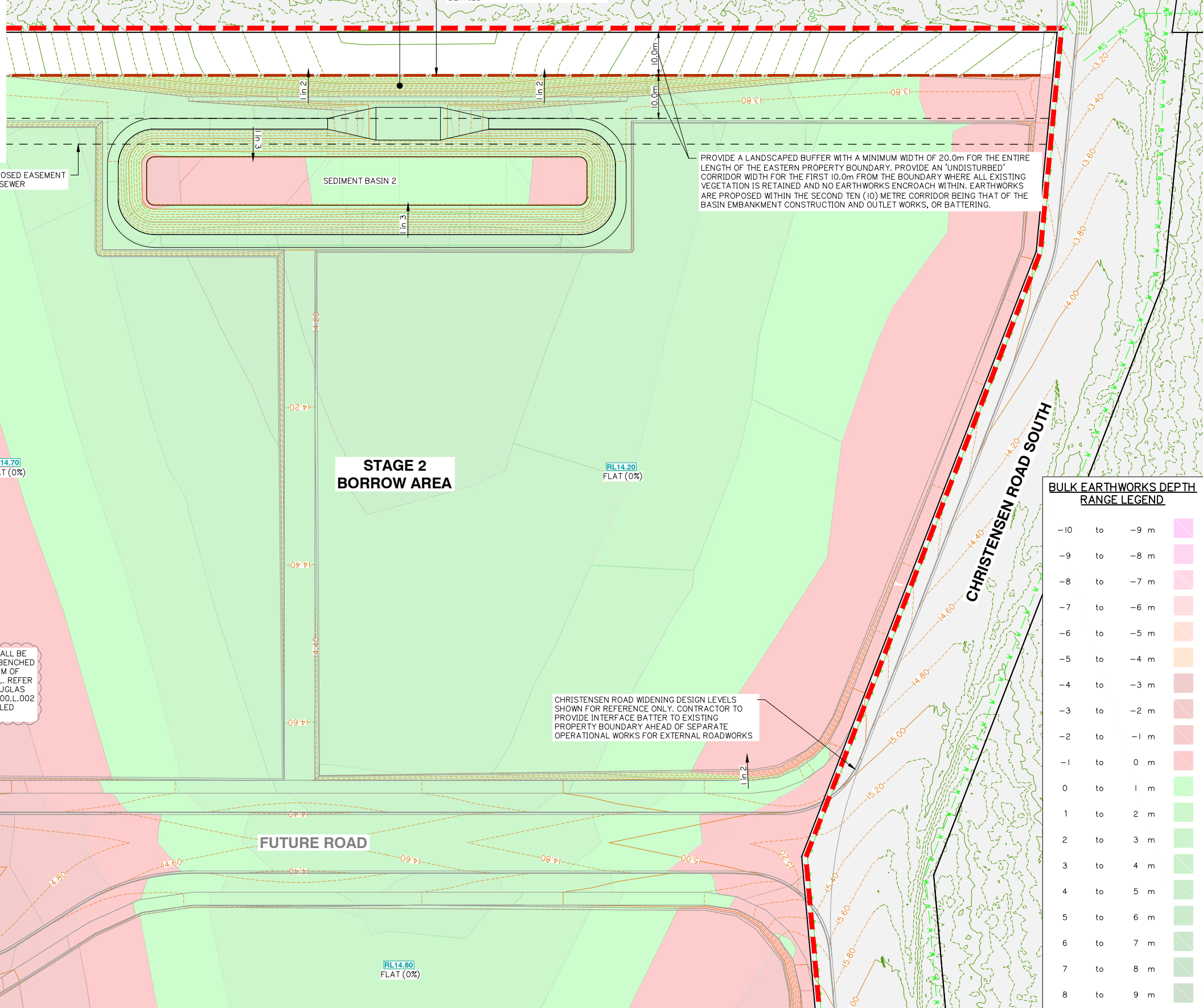
Rev. No:
B



TOTAL	
CUT	463,344 m ³
FILL	538,900 m ³
EXCESS OF FILL OVER CUT	75,556 m ³

1. NO RETAINING WALLS ARE PROPOSED AS PART OF THIS BULK EARTHWORKS CONTRACT. TEMPORARY CONSTRUCTION BATTERS AT 1 IN 2 SLOPE HAVE BEEN MODELLED AS INDICATED ON THE DRAWINGS.
2. 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.
3. THE DESIGN ROAD VERGE PROFILES ARE DESIGNED TO SUBGRADE LEVEL AT AN ASSUMED -0.10m BELOW FSL OF VERGE. THE EARTHWORKS VOLUMES REFLECT THIS.
4. BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF THE TREATMENT ZONE FILTER MEDIA AND DRAINAGE LAYERS, UTILISING -1.00m BELOW FINISHED BASIN FLOOR LEVEL.
5. THE ASSUMED SUBGRADE LEVEL IS STRIPPED PRIOR TO EARTHWORKS ACTIVITIES COMMENCING. THEREFORE THE VOLUMES STATED ARE "POST-STRIP" VOLUMES.
6. A BULKING FACTOR OF 10% HAS BEEN APPLIED TO THE ACCUMULATIVE CUT VOLUMES EXCEEDING 5.0m IN DEPTH THROUGHOUT.
7. BULK EARTHWORKS VOLUMES ARE CALCULATED TO THE PROPOSED ROL BOUNDARY EXTENT. NO EXTERNAL EARTHWORKS ARE PROPOSED IN THIS EXTENT OF WORKS.

INSTALL TREE PROTECTION FENCING TO
EXTENT OF VEGETATION BUFFER. REFER
TO DWG No. 5941 ENG BE2 035 FOR
DETAILS



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

BULK EARTHWORKS
LAYOUT PLAN SHEET 8 OF 9

B	15-02-2021	INFORMATION REQUEST RESPONSE		IG	MG
A	20-11-2020	ORIGINAL ISSUE		BA	MG
Issue	Date	Description	DRN	CHK	CHK

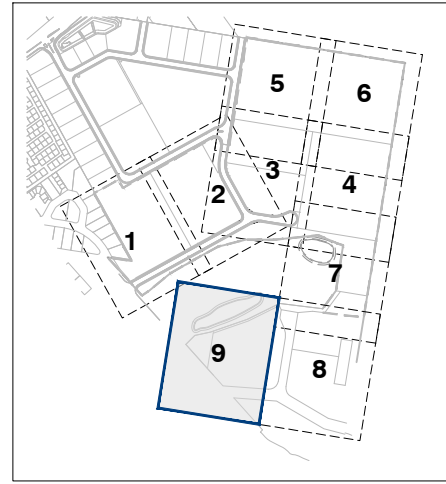
SCALE IN METRES



Scale at A1:	1:500
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 057	B



KEY PLAN SCALE 1: 7500 	
STAGE 2	
CUT	384,865 m ³
FILL	465,637 m ³
EXCESS OF FILL OVER CUT	80,772 m ³

STAGE 2 BORROW AREA	
CUT	78,479 m ³
FILL	73,263 m ³
EXCESS OF CUT OVER FILL	5,216 m ³

TOTAL	
CUT	463,344 m ³
FILL	538,900 m ³
EXCESS OF FILL OVER CUT	75,556 m ³

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	

Project: **VantageYatala**
STAGE 2

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

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RPD:	
Lot:	501
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Meridian:	-
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DRAWING TITLE

BULK EARTHWORKS
LAYOUT PLAN SHEET 9 OF 9

[illegible]

SCALE IN METRES

0 10 20 30 40 50

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

Scale at A1:	1:500
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 058	B



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PROPERTY**

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

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

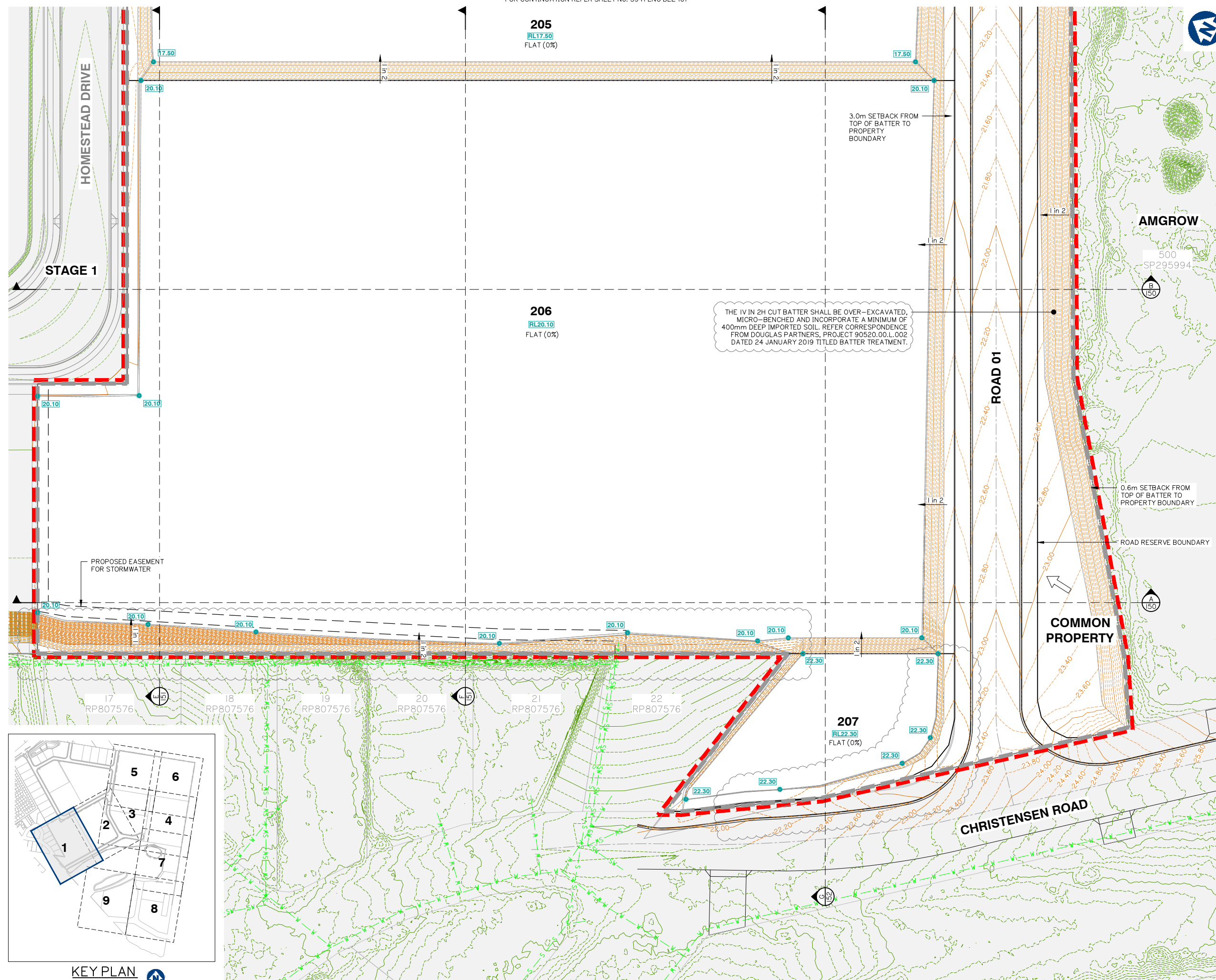
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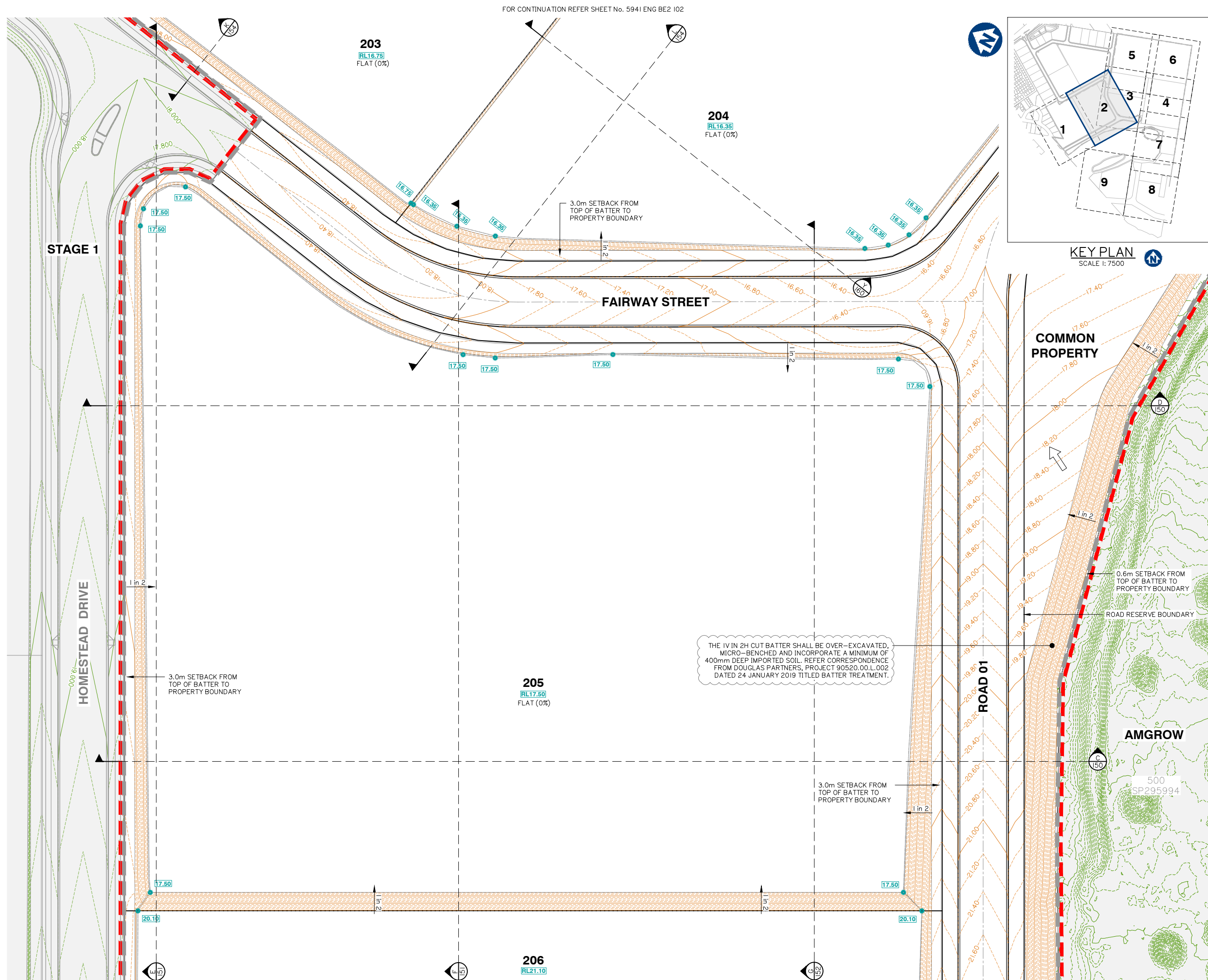
DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 1 OF 9

B	15-02-2021			ig	MO
A	20-11-2020	INFORMATION REQUEST RESPONSE		BA	MG
		ORIGINAL ISSUE		DGB	CH
Issue					

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 100	B





Client:

Project: **VantageYatala**
STAGE 2

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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 2 OF 9

SCALE IN METRES

Scale at A1: 1:500

Drawing No:	Rev. No:
5941 ENG BE2 101	B





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

RPD:	
Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
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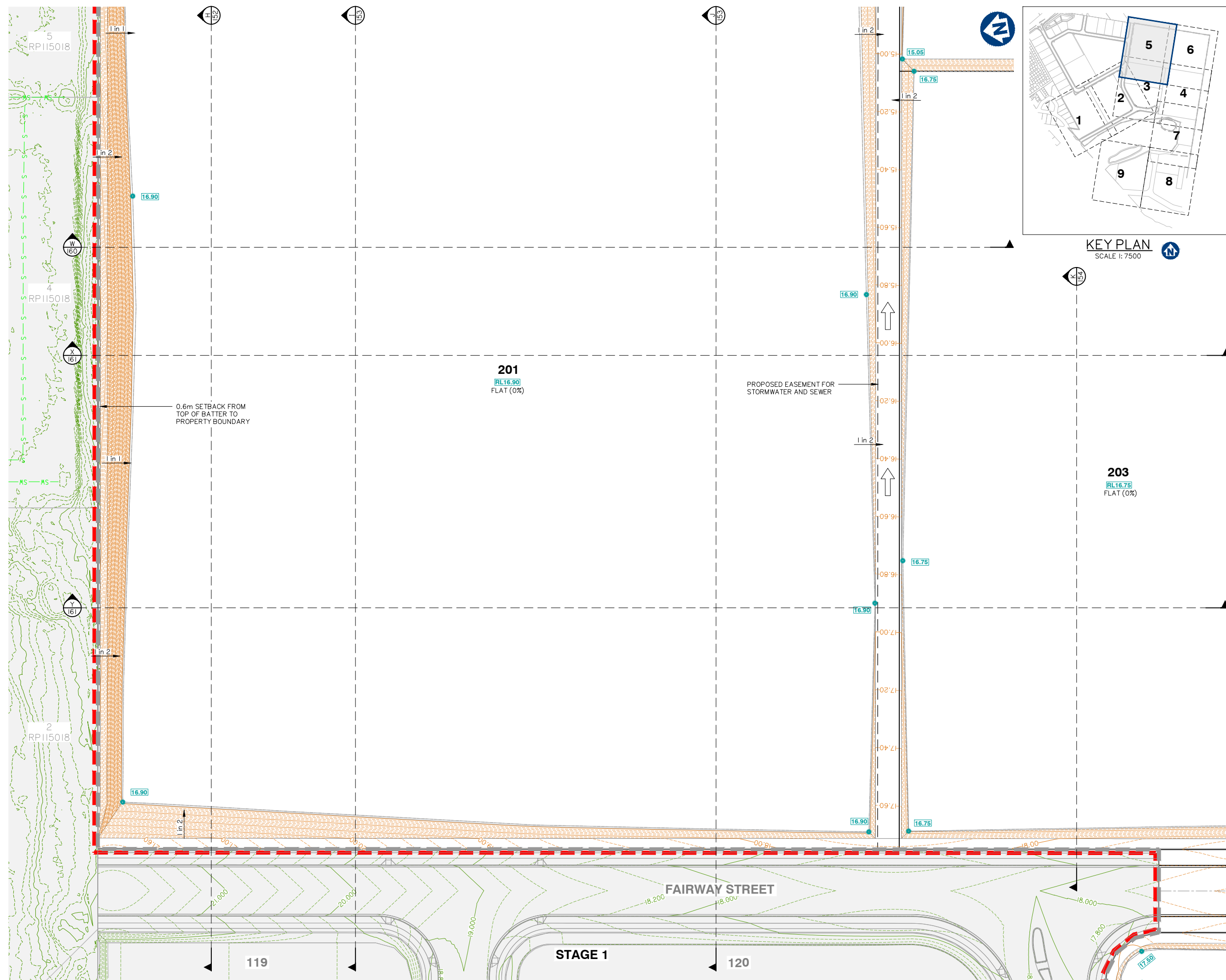
DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 5 OF 9

A	20-11-2020	ORIGINAL ISSUE	BA	MO
Issue	Date	Description	DRN	CHE

Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

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





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 IMPROVED SOIL. REFER CORRESPONDENCE FROM DOUGLAS PARTNERS, PROJECT 90520.00.L002 DATED 24 JANUARY 2019 TITLED BATTER TREATMENT.

INSTALL TREE PROTECTION FENCING TO
EXTENT OF VEGETATION BUFFER. REFER
TO DWG No. 5941 ENG BE2 035 FOR
DETAILS

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

PROPOSED EASEMENT
FOR SEWER

**STAGE 2
BORROW AREA**

RL14.70
FLAT (0%)

THE IV IN 2H CUT BATTER SHALL BE OVER-EXCAVATED, MICRO-BENCHED AND INCORPORATE A MINIMUM OF 400mm DEEP IMPORTED SOIL. REFER CORRESPONDENCE FROM DOUGLAS PARTNERS, PROJECT 90520.00.L002 DATED 24 JANUARY 2019 TITLED BATTER TREATMENT.

FUTURE ROAD

RL14.80
FLAT (0%)

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 108

FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 8 OF 9

FOR CONTINUATION REFER SHEET No. 594|ENGBE2 106

g:\Projects\5941\engineering\Acad\BE2 CGL\Current\5941 ENG BE2 100-108.dwg



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
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Contour Interval:	-
PSM:	-
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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 8 OF 9

B	15-02-2021	INFORMATION REQUEST RESPONSE	IG	MG
A	29-11-2020	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
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:
5941 ENG BE2 107

Rev. No:
B



Project: **VantageYatala**
STAGE 2

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Meridian:

Contour Interval:

PSM

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B	15-02-2021	INFORMATION REQUEST RESPONSE		IG	MCI
A	20-11-2020	ORIGINAL ISSUE		BA	MCI
Issue	Date	Description		DRN	CH

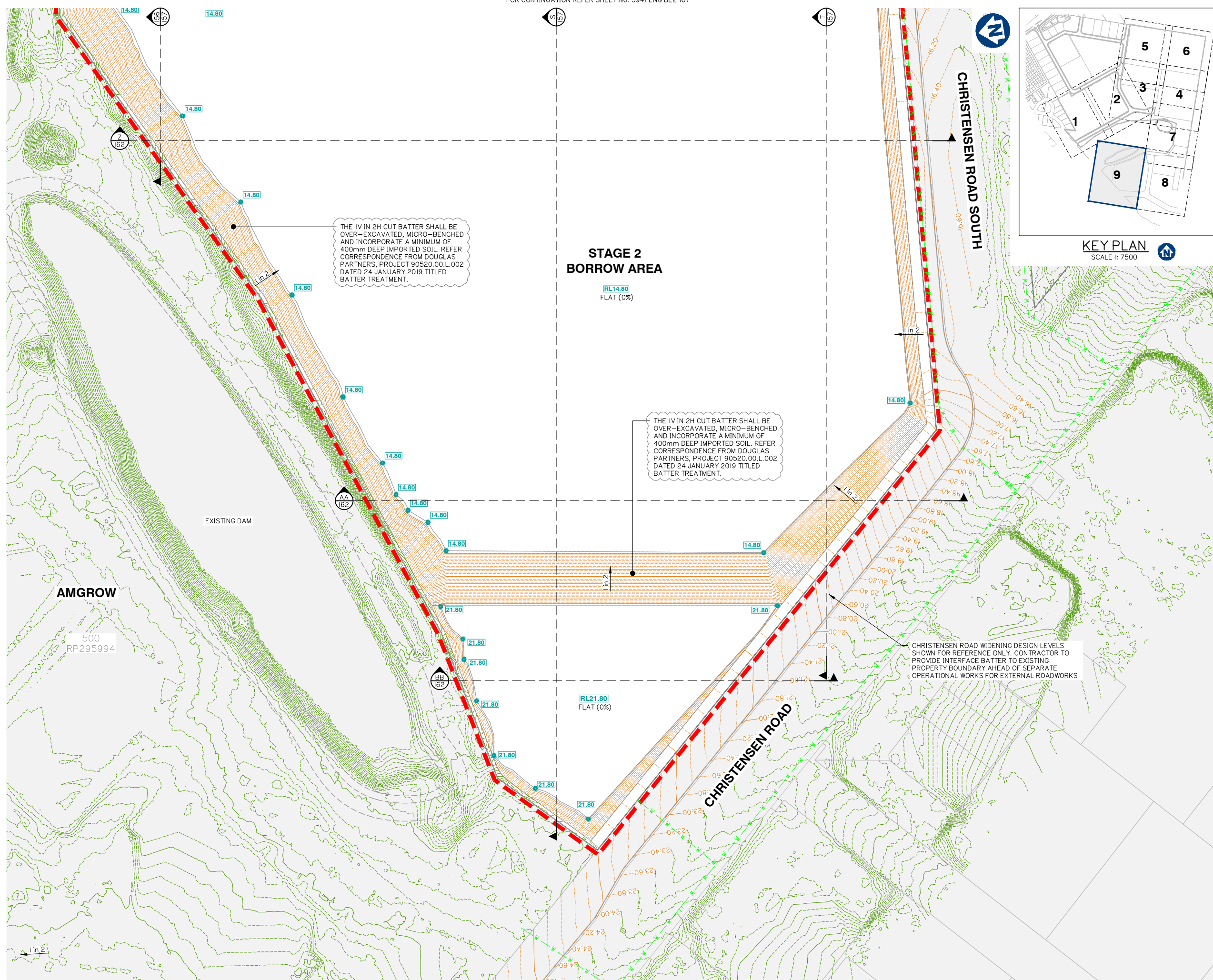
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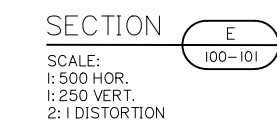
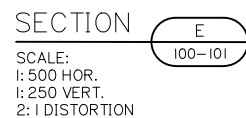
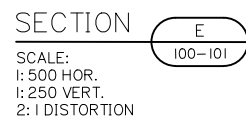
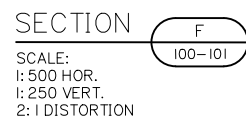
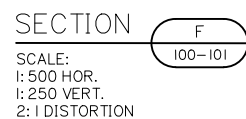
1:500 (FULL SIZE A1)

1:1000 (HALF SIZE A3)

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 108	B





Client:



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Project:

VantageYatala
STAGE 2

Site Address:

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ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 13

B	15-02-2021	INFORMATION REQUEST RESPONSE	IO	MO
A	20-11-2020	ORIGINAL ISSUE	BA	MO
Issue	Date	Description	DBN	CH

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

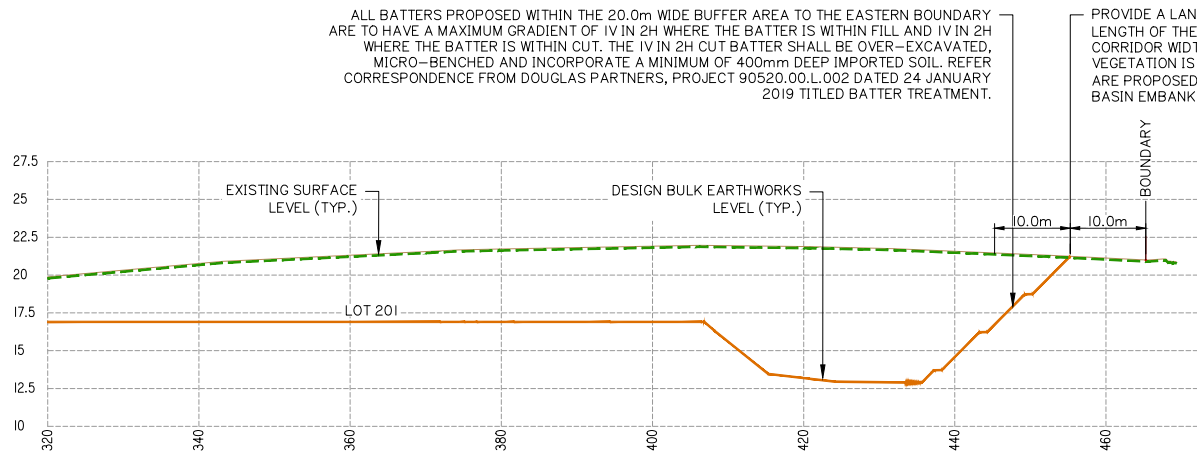
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VERT: 

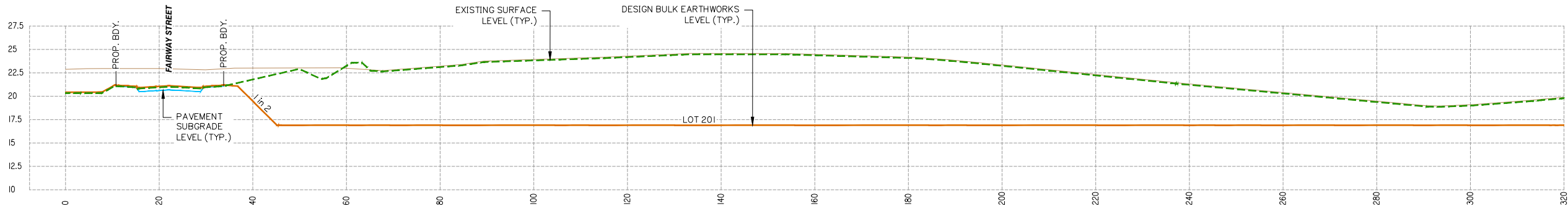
Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

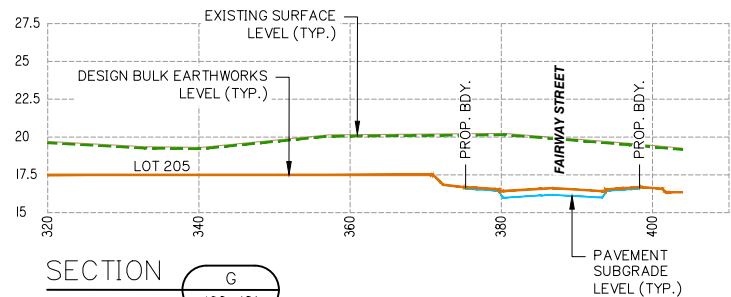
Drawing No:	Rev. No:
5941 ENG BE2 151	B



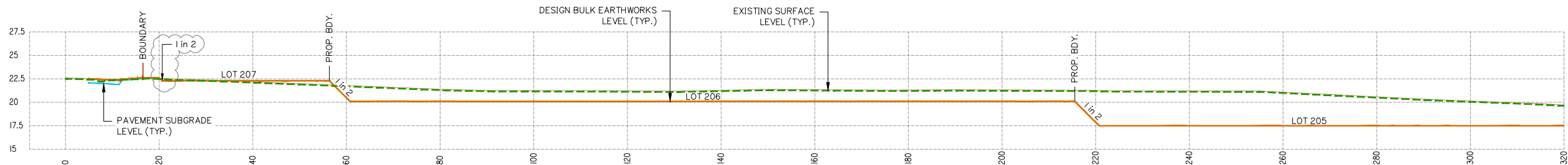
SECTION H
104-105
SCALE:
1: 500 HOR.
1: 250 VERT.
2: 1 DISTORTION



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

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: -

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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 3 OF 13

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

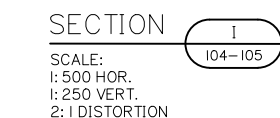
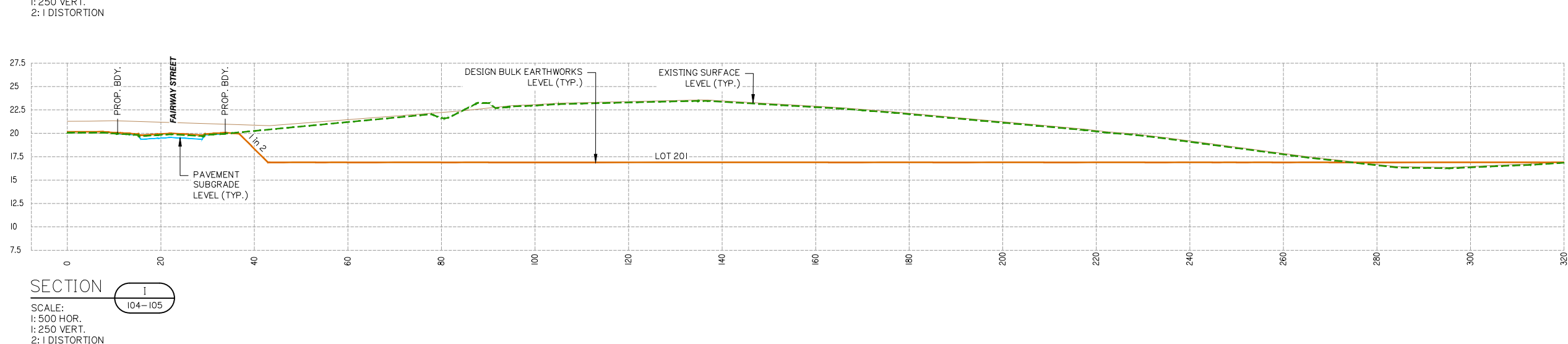
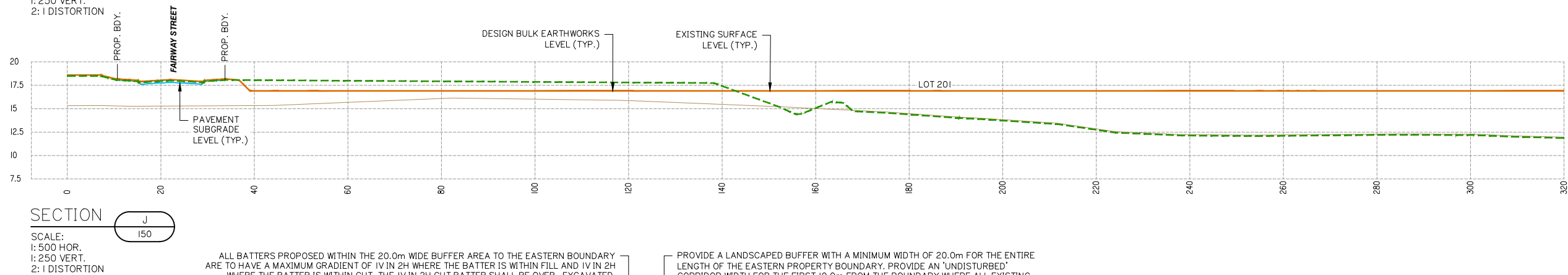
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HOZ: 0 5 10 15 20 25 30 35 40

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:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

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



Client:



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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
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PSM:	-
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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 4 OF 13

A Issue	20-11-2020 Date	ORIGINAL ISSUE	BA RBN	MU CH

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

Scale 1:250 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:
5941 ENG BE2 153

Rev. No:
A



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
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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 5 OF 13

A Issue	20-11-2020 Date	ORIGINAL ISSUE Description	BA DRN	MG CHK

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

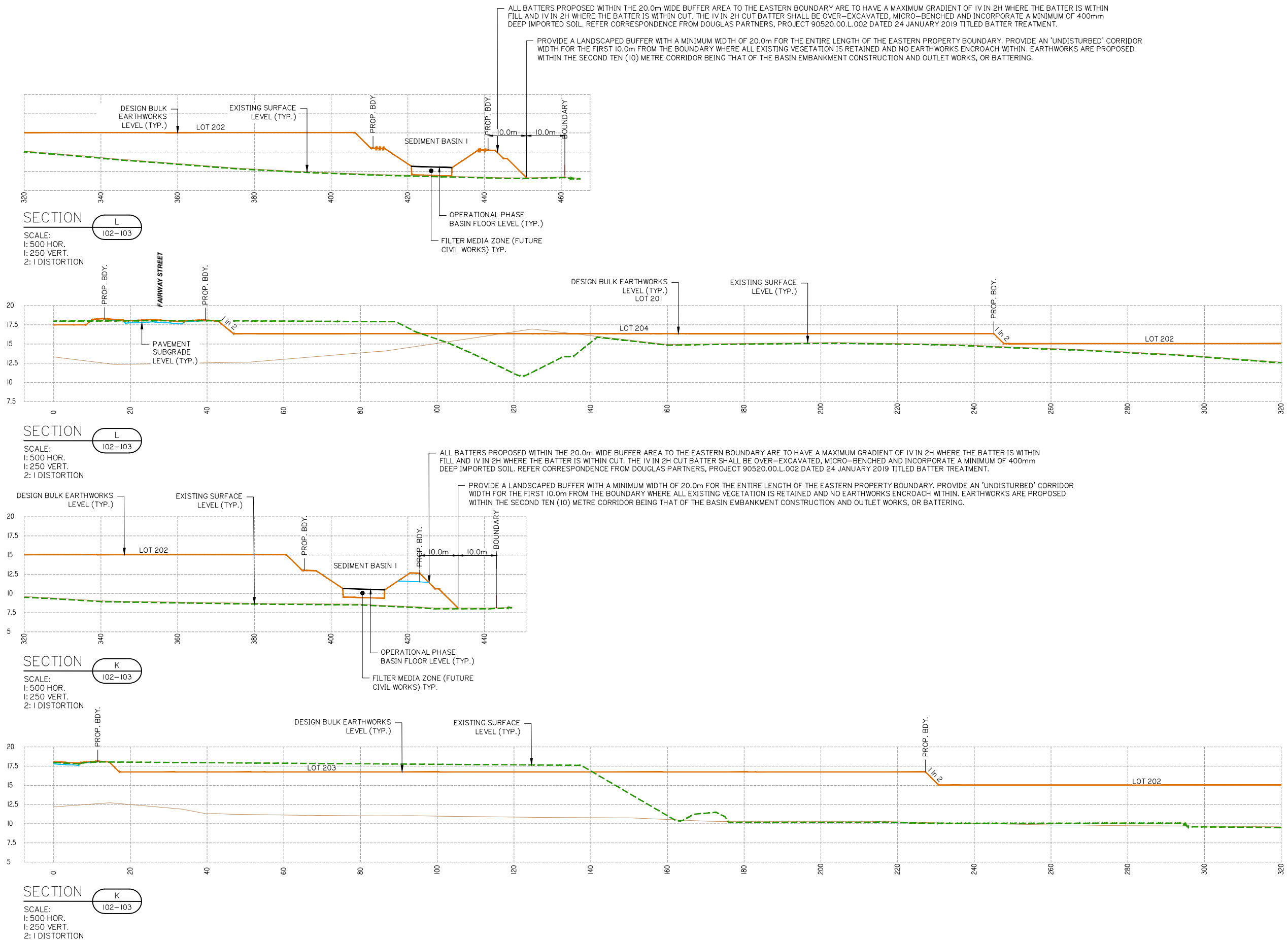
Scale 1:250 - Lengths are in Metres.

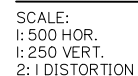
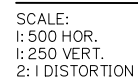
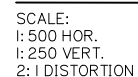
VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:	Rev. No:
5941 ENG BE2 154	A





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



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

RPD:
 ot: 501
 lan: SP295994
 Local Authority: CITY OF GOLD COAST
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 AHD
 Level Datum:
 Meridian: -
 Contour Interval: -
 DSM: -
 IL: -

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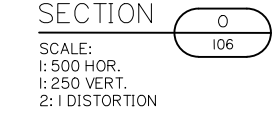
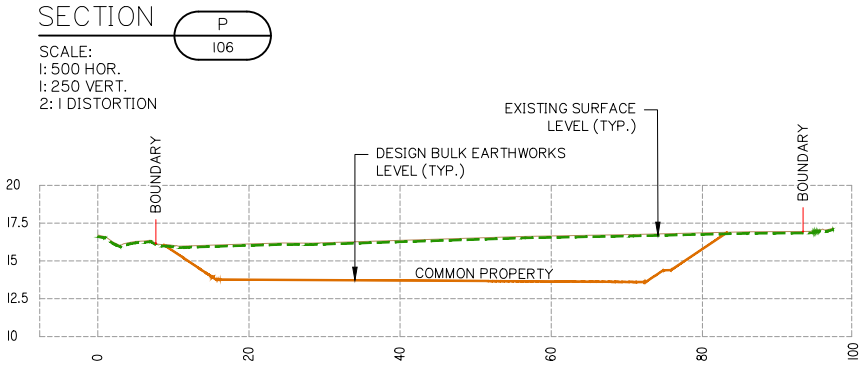
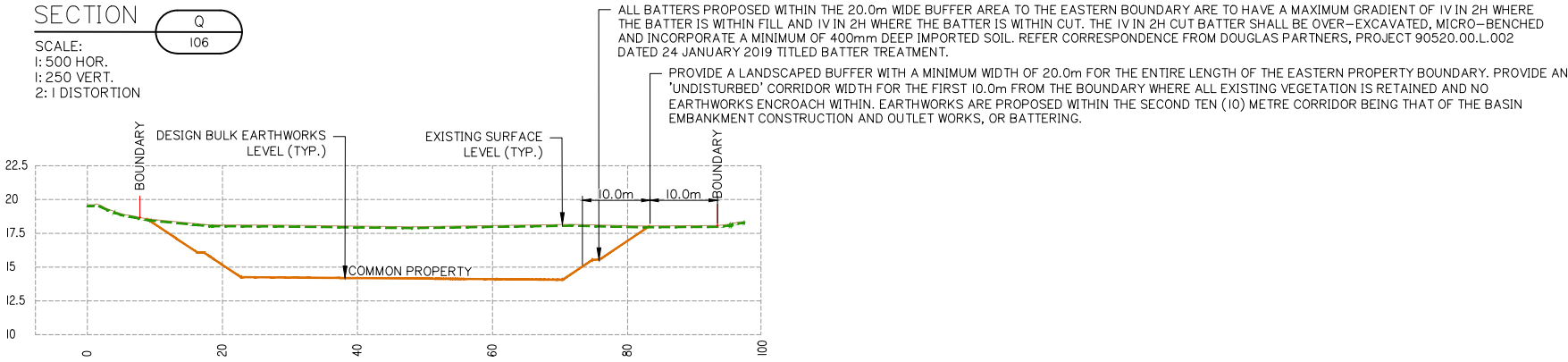
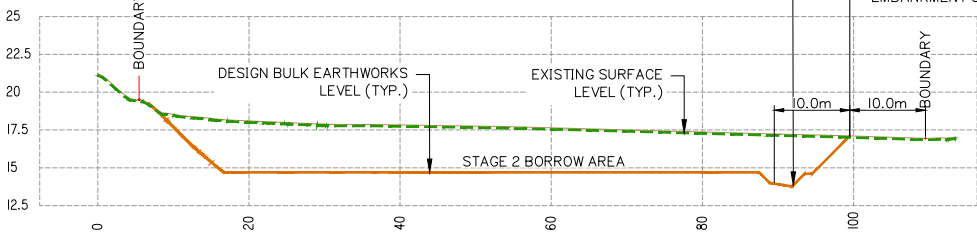
DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 7 OF 13

20-11-2020	ORIGINAL ISSUE		BA
Date	Description		DRN

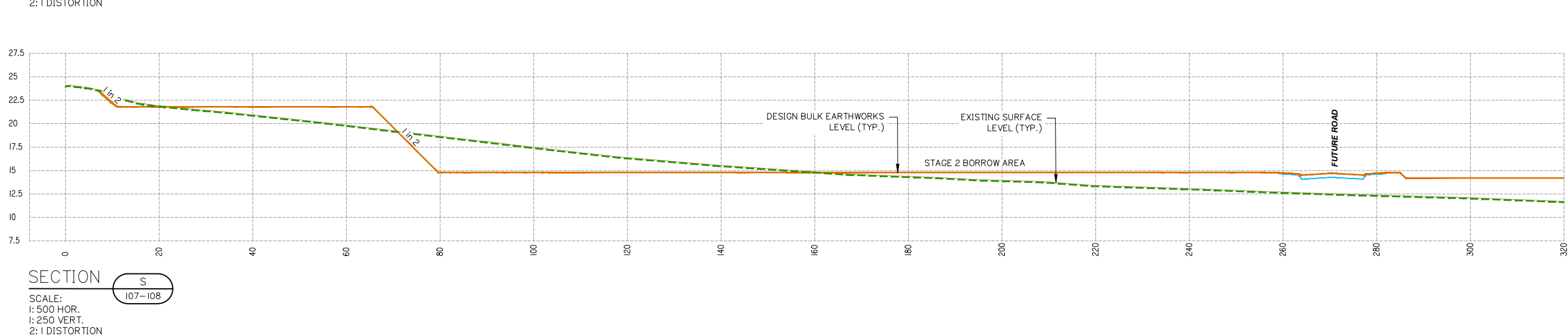
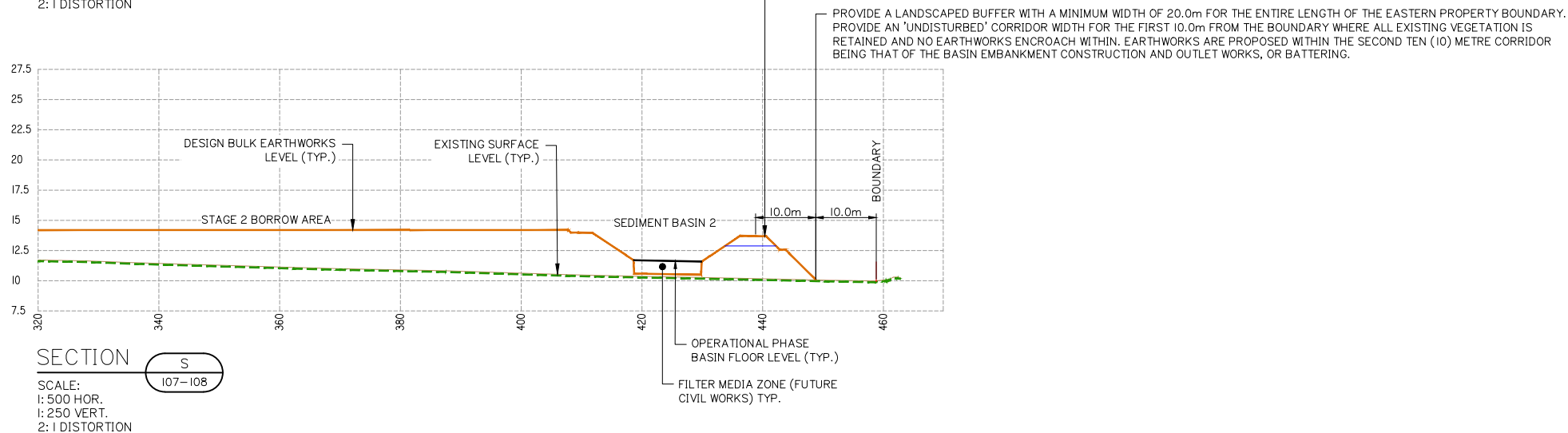
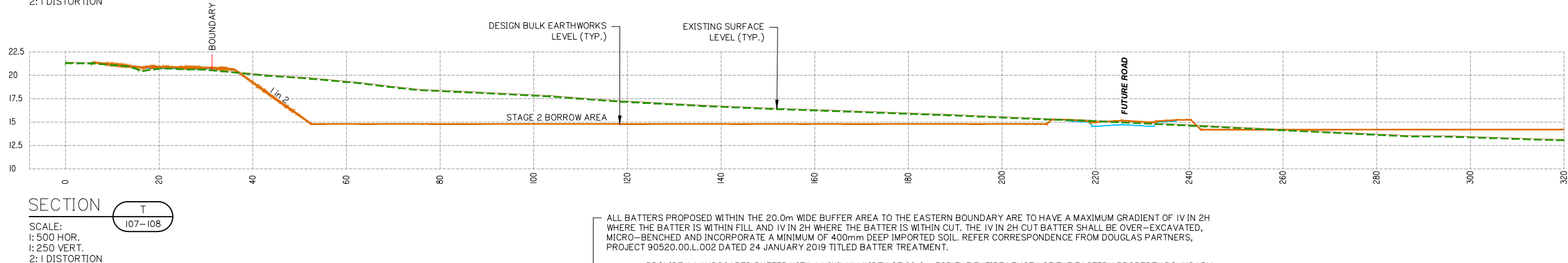
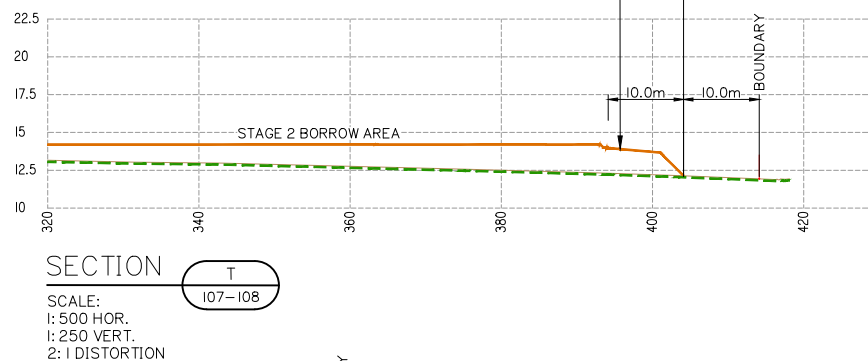
scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
PEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No: 041 ENG BE2 156 Rev. N A



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.



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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:	-
RI:	-

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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 8 OF 13

A	20-11-2020			
ISSUE DATE	DAYS	ORIGINAL ISSUE DESCRIPTION	BA DEN	M/GH

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

Scale 1:250 - Lengths are in Metres.

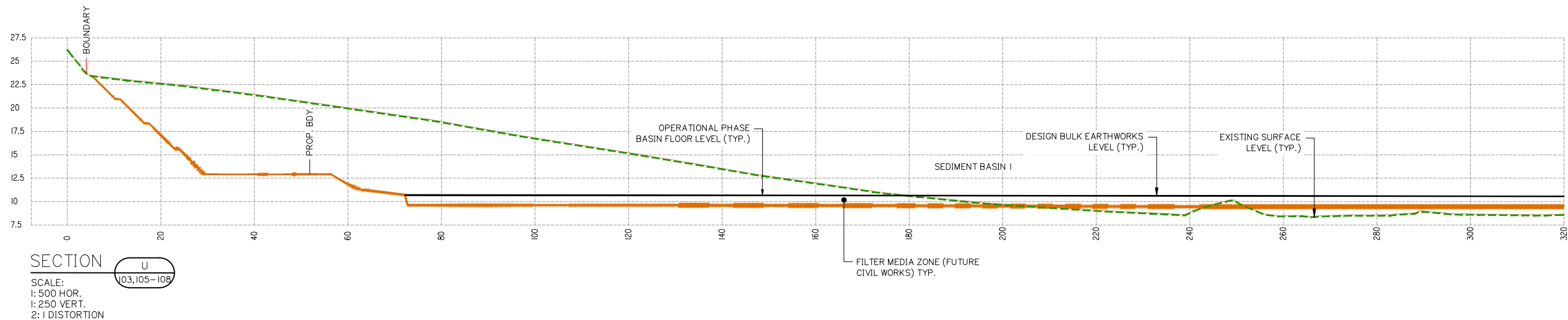
VERT:

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:
5941 ENG BE2 157

Rev. No:
A



A Issue	20-11-2020 Date	ORIGINAL ISSUE Description	BA DRN	M6 CH

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

Scale 1:250 - Lengths are in Metres.

VERT:

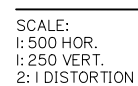
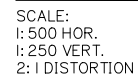
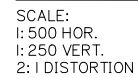
Scale at A1:

AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:
5941 ENG BE2 158

Rev. No:
A



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:

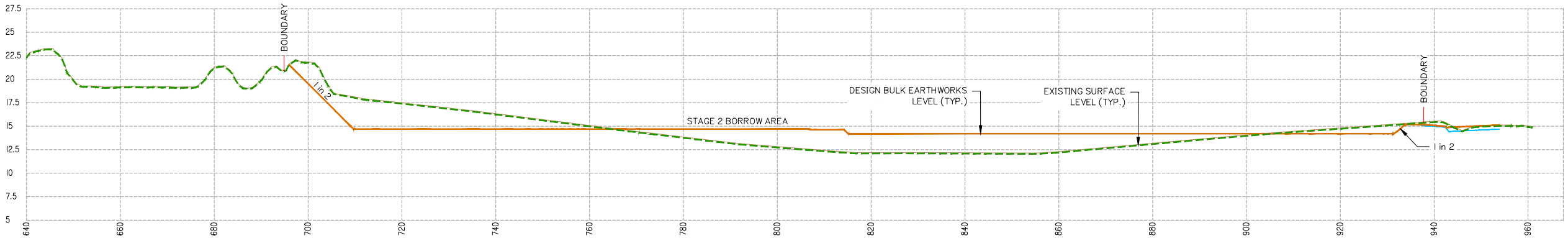
Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
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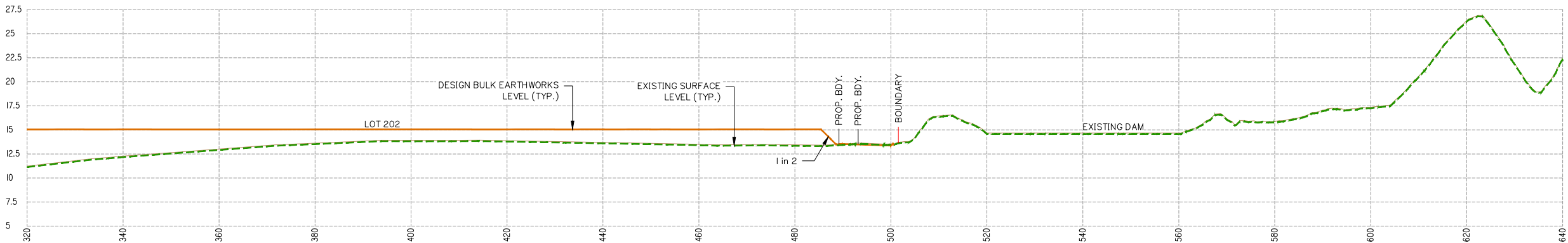
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 11 OF 13



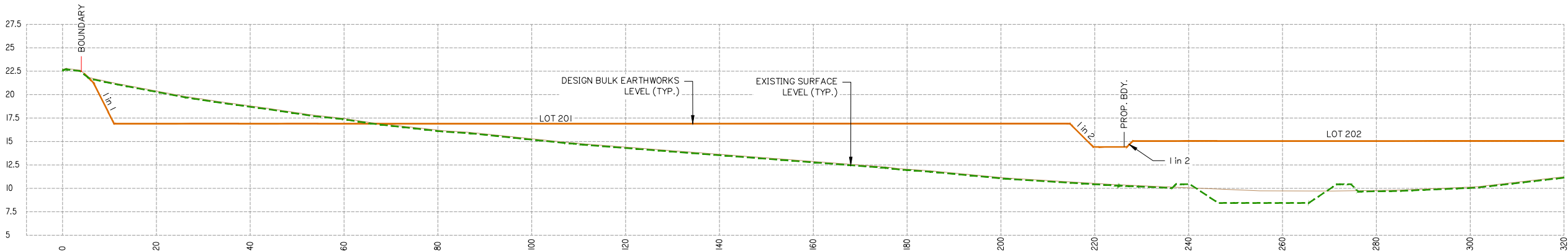
SECTION W
103,105-108

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



SECTION W
103,105-108

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



SECTION W
103,105-108

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

SCALE IN METRES

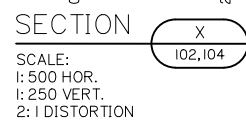
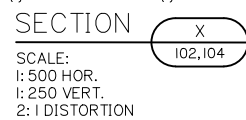
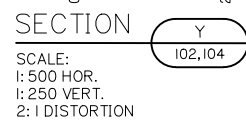
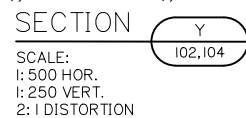
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

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:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No: 5941 ENG BE2 160 Rev. No: A



Client:



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Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot:	501
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Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
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RI:	-

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DRAWING TITLE
FINISHED BULK
EARTHWORKS CROSS
SECTIONS SHEET 12 OF 13

A Issue	20-11-2020 Date	ORIGINAL ISSUE Description	BA DRN	MG CHI

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

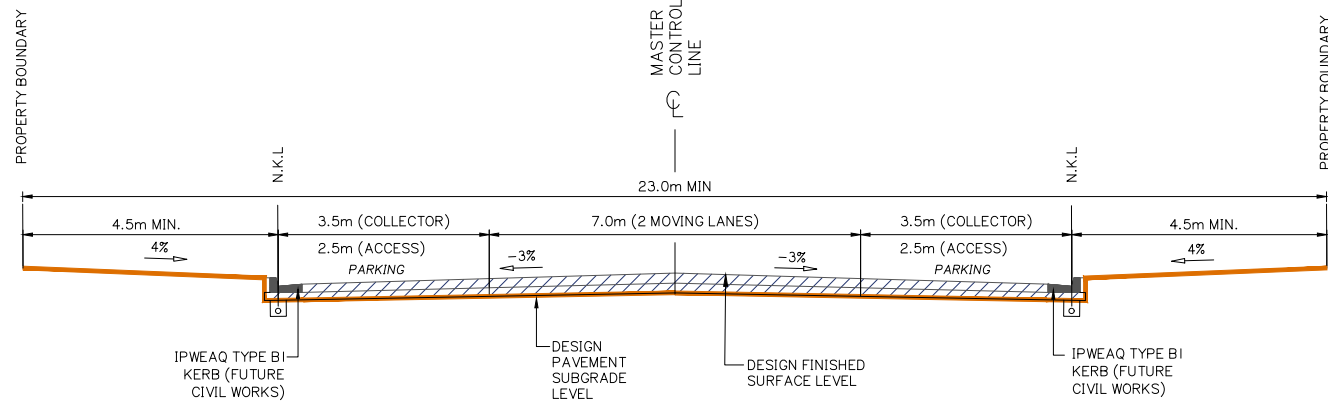
Scale 1:250 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

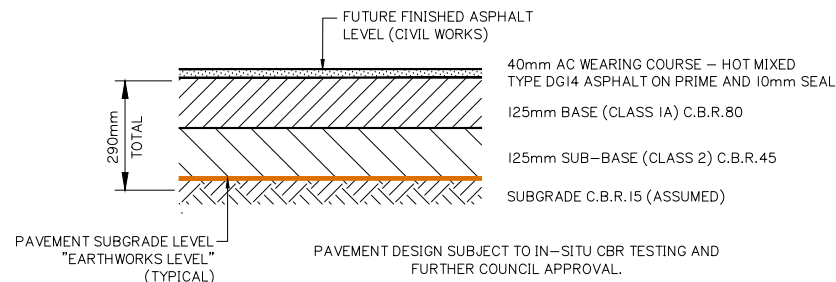
Drawing No:	Rev. No:
5941 ENG BE2 161	A



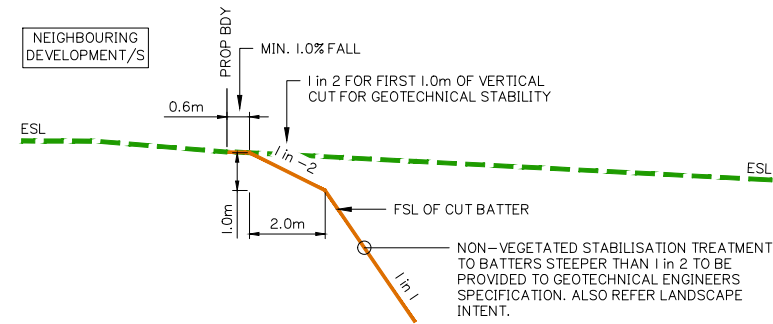
TYPICAL CROSS SECTION – INDUSTRIAL / COMMERCIAL
COLLECTOR AND ACCESS STREETS (23.0m)
FAIRWAY STREET AND ROAD 01

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

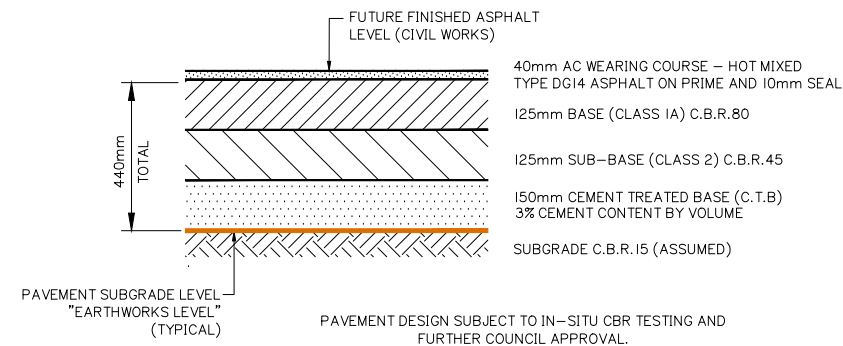
ONLY THE BULK EARTHWORKS IS APPLICABLE.
A SEPARATE APPLICATION WILL BE SUBMITTED
FOR THE CIVIL ROADWORKS ASSOCIATED WITH
THE RECONFIGURATION OF LOTS.



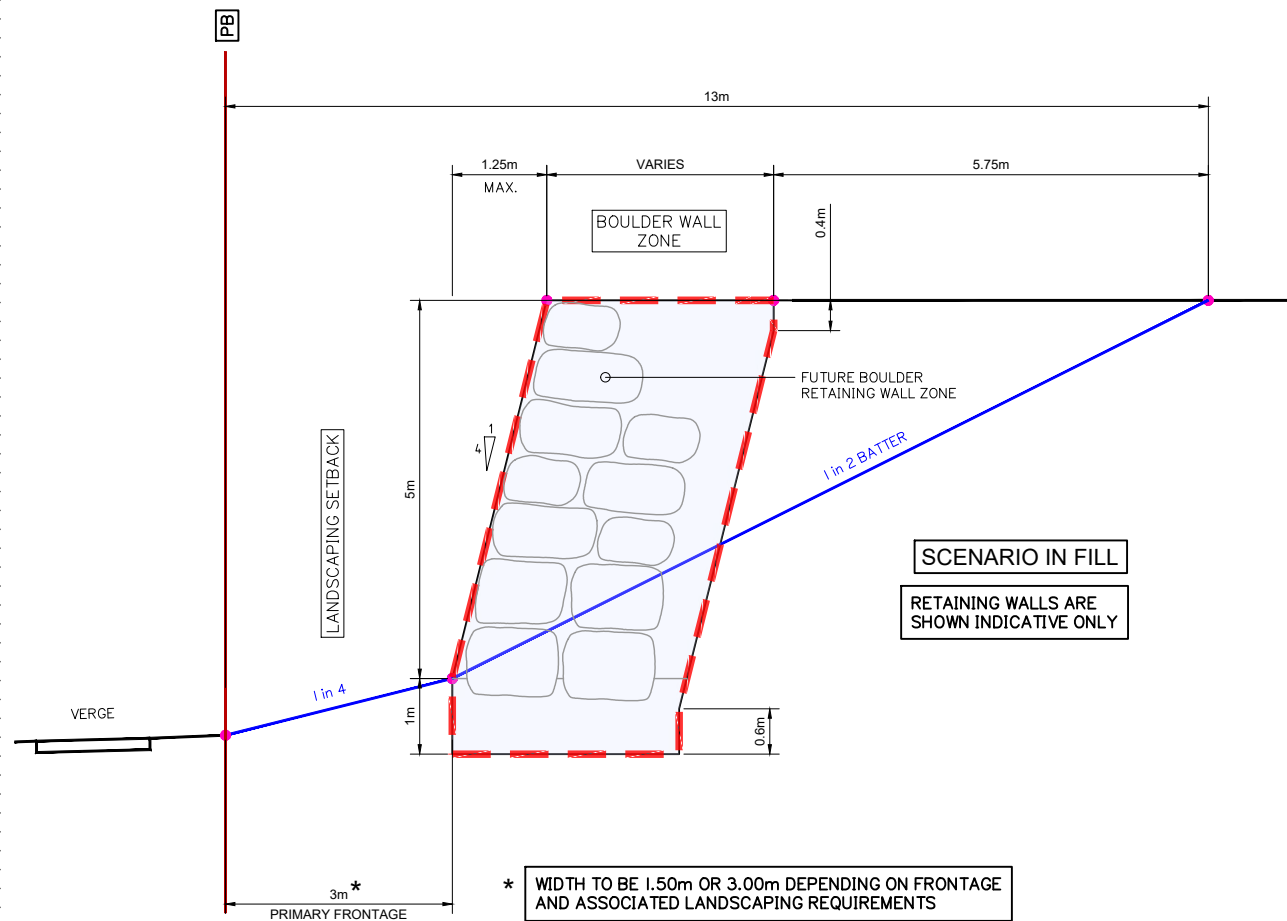
NOMINAL ROAD PAVEMENT DETAIL – IN FILL AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET N.T.S



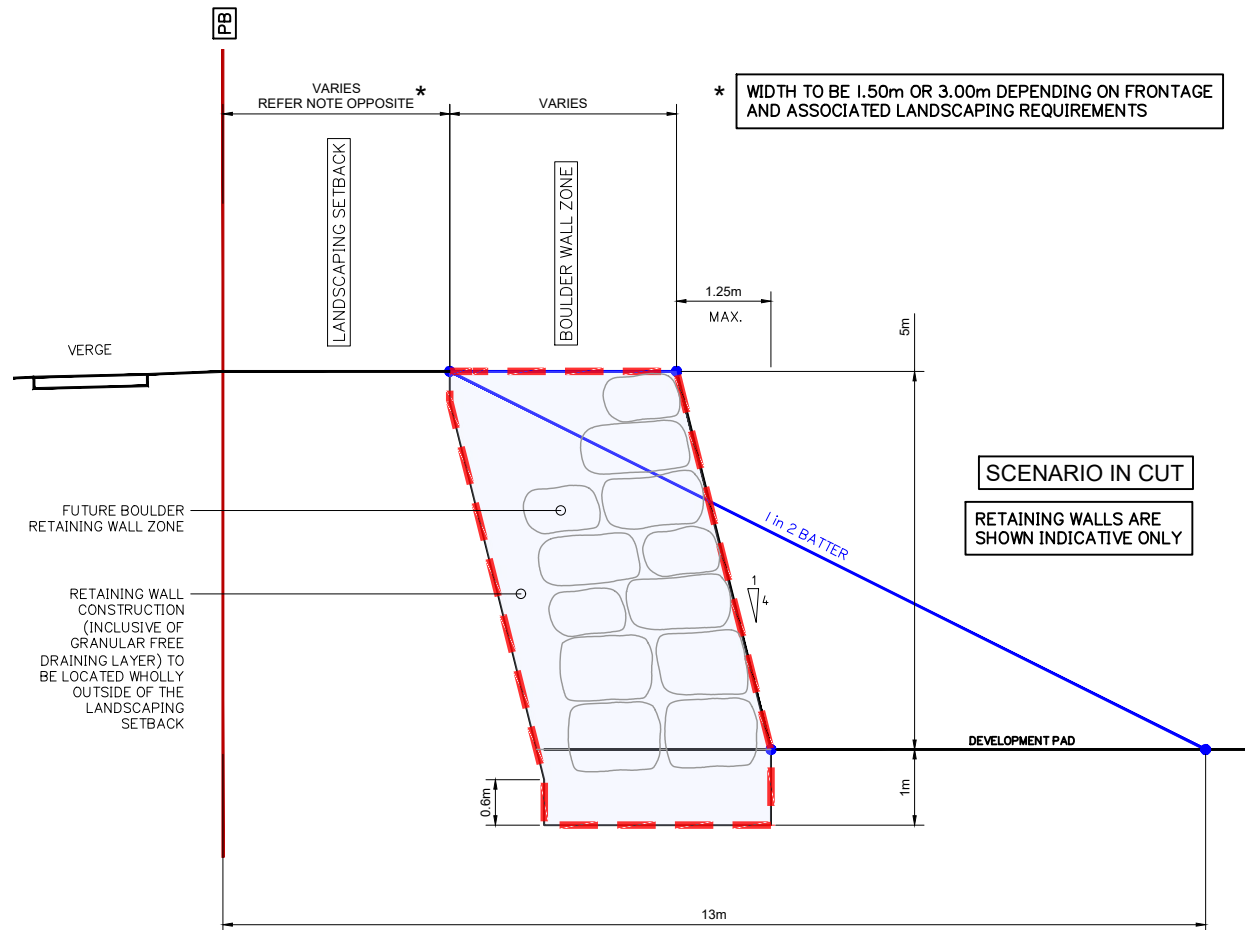
TYPICAL TOP OF CUT BATTER TREATMENT AT
NEIGHBOURING DEVELOPMENT INTERFACES SCALE 1: 100



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



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



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

BULK EARTHWORKS ROAD TYPICAL SECTIONS

Client:



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Project:

VantageYatala
STAGE 2

Site Address:

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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: -
PSM: -
RL: -

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DRAWING TITLE

BULK EARTHWORKS ROAD
TYPICAL SECTIONS

Issue	Date	Description	BA	MG	DRN	CHK
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:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

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



Site Address:
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RPD:	
Lot:	501
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CONTROL LINE LAYOUT PLAN

SCALE IN METRES



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

Client:



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Project: **VantageYatala**
STAGE 2

Site Address:
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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 01 LONGITUDINAL
SECTION SHEET 1 OF 2

A Issue	20-11-2020 Date		ORIGINAL ISSUE Description	BA DRN	M/ CH

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

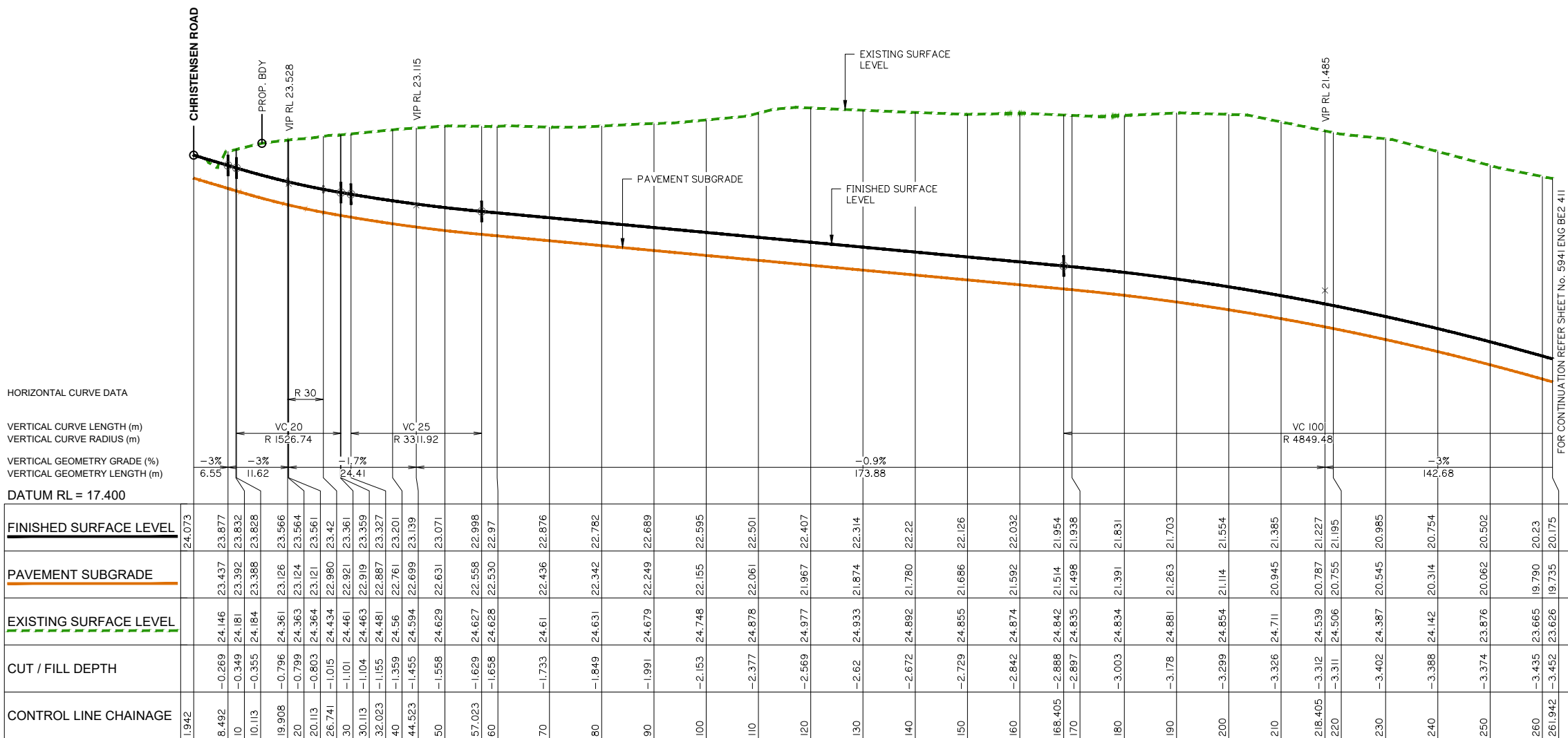
Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

Drawing No:	Rev. No:
5941 ENG BE2 410	A



HORIZONTAL CURVE DATA

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

DATUM RL = 13.200

FINISHED SURFACE LEVEL	261.942	-3.452	23.626	19.735	20.175	19.985	19.937	19.637	19.337	19.037	18.737	18.437	18.147	17.882	17.642	17.427	17.405	17.237	17.119	17.071	16.931	16.816	16.805	16.716	16.713	16.616	16.516	16.416	16.316	16.278	16.216	16.116	16.016	15.939	15.926
PAVEMENT SUBGRADE	268.405	-3.512	23.497	19.545	19.937	19.497	19.197	18.897	18.597	18.297	17.997	17.965	17.707	17.442	17.202	16.987	16.965	16.797	16.679	16.631	16.491	16.376	16.365	16.276	16.273	16.176	16.076	15.976	15.876	15.838	15.776	15.676	15.576	15.499	15.486
EXISTING SURFACE LEVEL	270	-3.528	23.466	19.497	23.466	23.466	23.253	22.989	22.644	22.314	22.024	21.993	21.734	21.475	21.236	20.997	20.971	20.77	20.632	20.555	20.177	19.999	19.799	19.633	19.627	19.466	19.202	18.736	18.352	18.207	18.024	17.771	17.394	17.113	16.926
CUT / FILL DEPTH																																			
CONTROL LINE CHAINAGE	261.942	268.405	270	280	290	300	310	320	321.088	330	340	350	360	361.088	370	376.975	380	390	400	401.088	410	410.318	420	430	440	450	453.791	460	470	480	487.643	488.954			

LONGITUDINAL SECTION - ROAD 01

ROAD 01 LONGITUDINAL SECTION SHEET 2 OF 2



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VantageYatala
STAGE 2

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ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501
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DRAWING TITLE

ROAD 01 LONGITUDINAL
SECTION SHEET 2 OF 2

Issue	Date	Description	BA	MG	CHK
A	20-11-2020	ORIGINAL ISSUE			

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40
Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1:

AS SHOWN

Designed: IG

Drafted: BA

Approved: MG

RPEQ: 16939

Signed:

Date: 20-11-2020

Drawing No:
5941 ENG BE2 411

Rev. No:
A

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

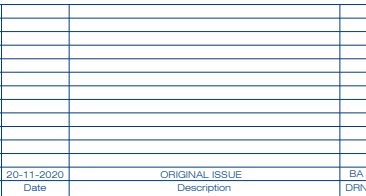
0 5 10 15 20 25 30 35 40

Scale 1:100 - Lengths are in Metres.

0 1 2 3 4 5 6 7

Scale at A1:	AS SHOWN
Designed:	IG
Drafted:	BA
Approved:	MG
PEQ:	16939
Signed:	
Date:	20-11-2020





Designed:	IG
Drafted:	BA
Approved:	MG
PEQ:	16939
Signed:	
Date:	20-11-2020

SCALE IN METRES

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



A horizontal scale bar with a black background and white markings. It is divided into 7 equal segments by white vertical lines. The segments are numbered 0, 5, 10, 15, 20, 25, 30, and 35 from left to right.

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



A vertical scale bar with a black background and white markings. It is divided into 7 equal segments by white horizontal lines. The segments are numbered 0, 1, 2, 3, 4, 5, 6, and 7 from bottom to top.

Drawing No:	Rev. No:
5941 ENG BE2 414	A





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
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DRAWING TITLE

ROAD 01 CROSS SECTIONS
SHEET 1 OF 8

A Issue	20-11-2020 Date	ORIGINAL ISSUE Description	BA DRN	MG 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:	BA
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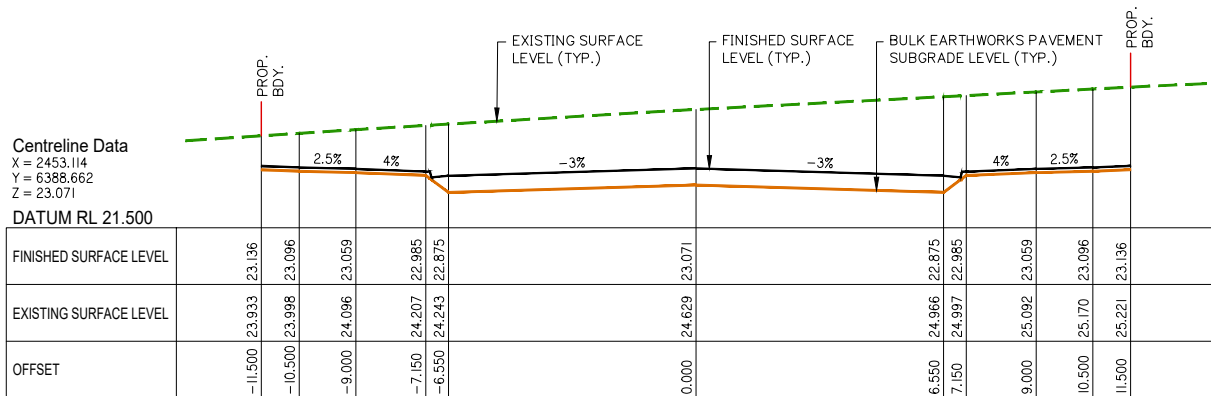
Approved:	MG
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RPEQ:	16939
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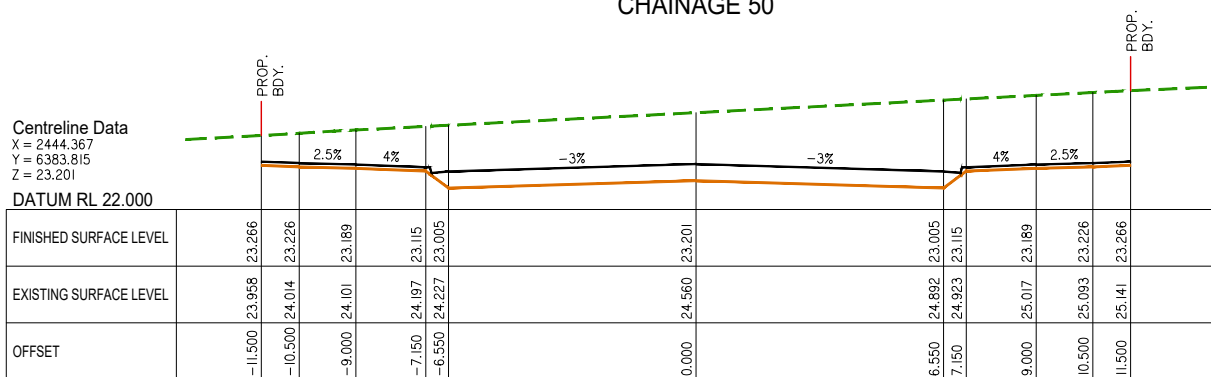
Signed:	
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Date:	20-11-2020
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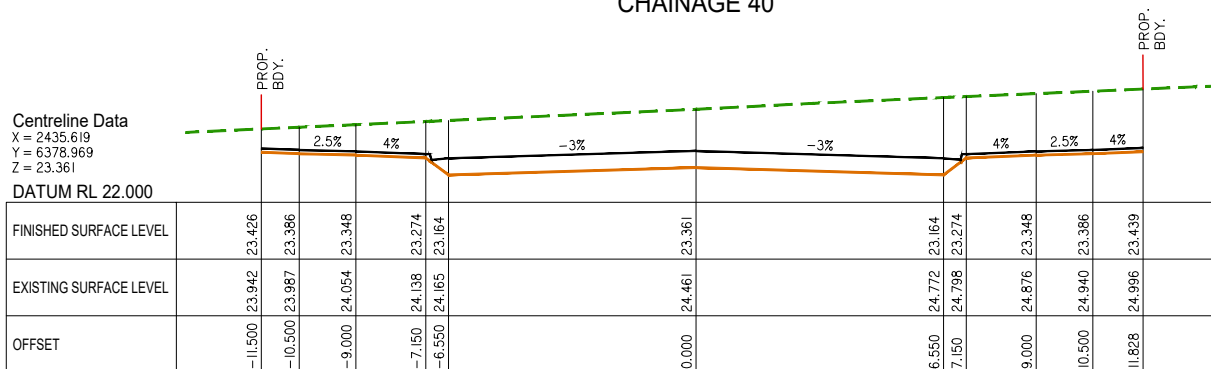
Drawing No:	Rev. No:
5941 ENG BE2 430	A



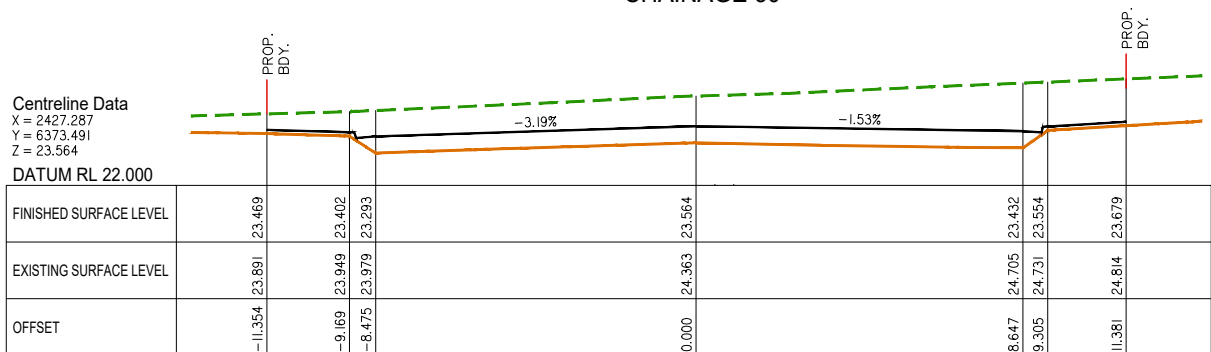
CHAINAGE 50



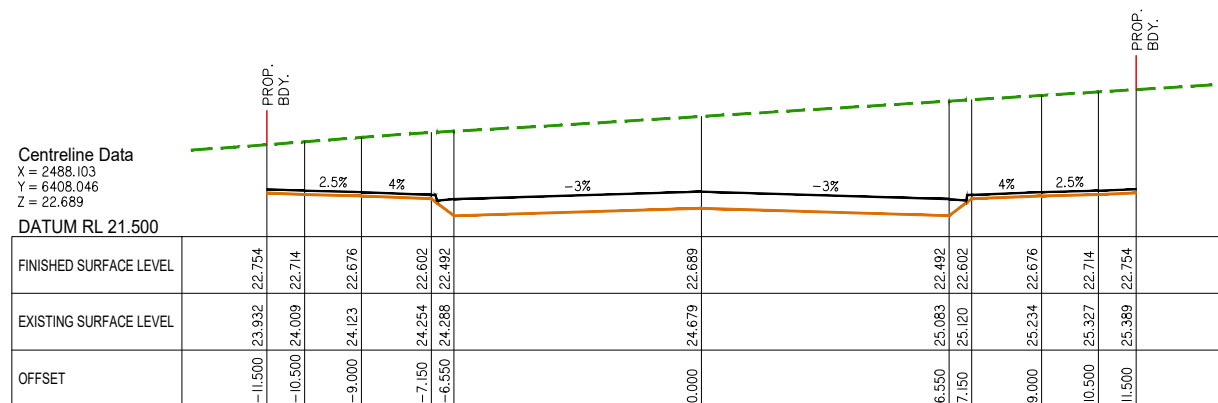
CHAINAGE 40



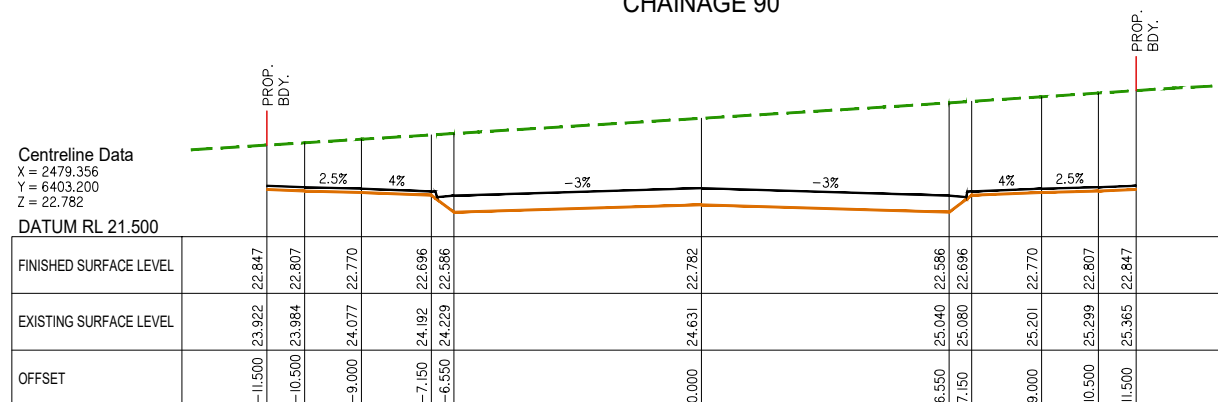
CHAINAGE 30



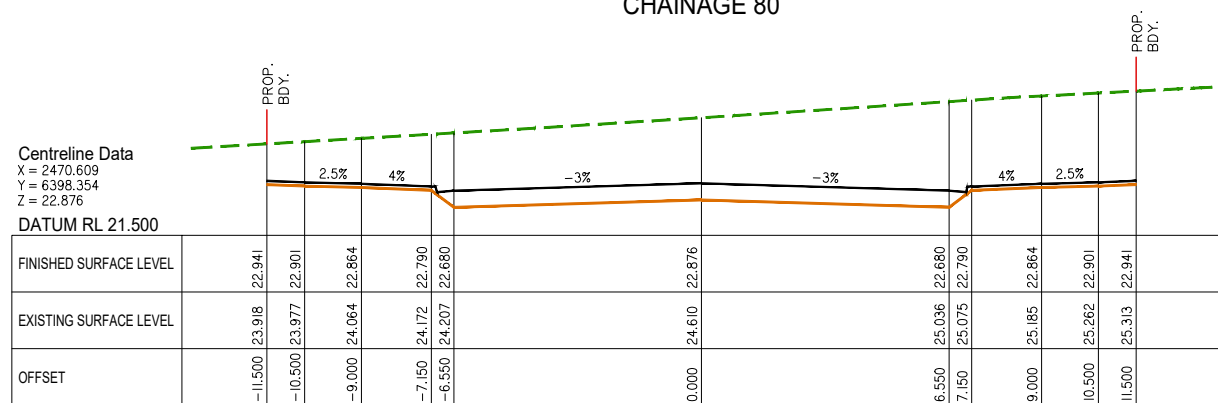
CHAINAGE 20



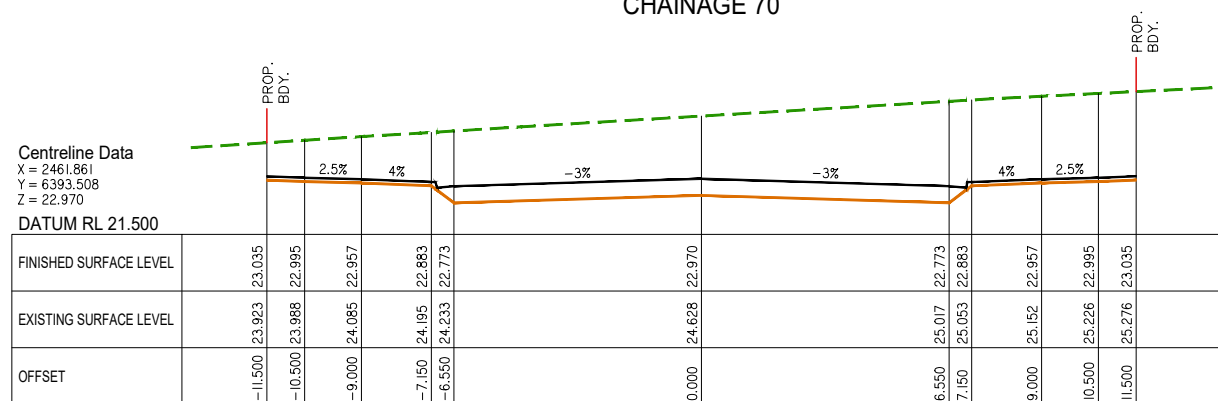
CHAINAGE 90



CHAINAGE 80



CHAINAGE 70



CHAINAGE 60

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

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RL: -

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DRAWING TITLE

ROAD 01 CROSS SECTIONS
SHEET 6 OF 8

A	20.11.2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ: 

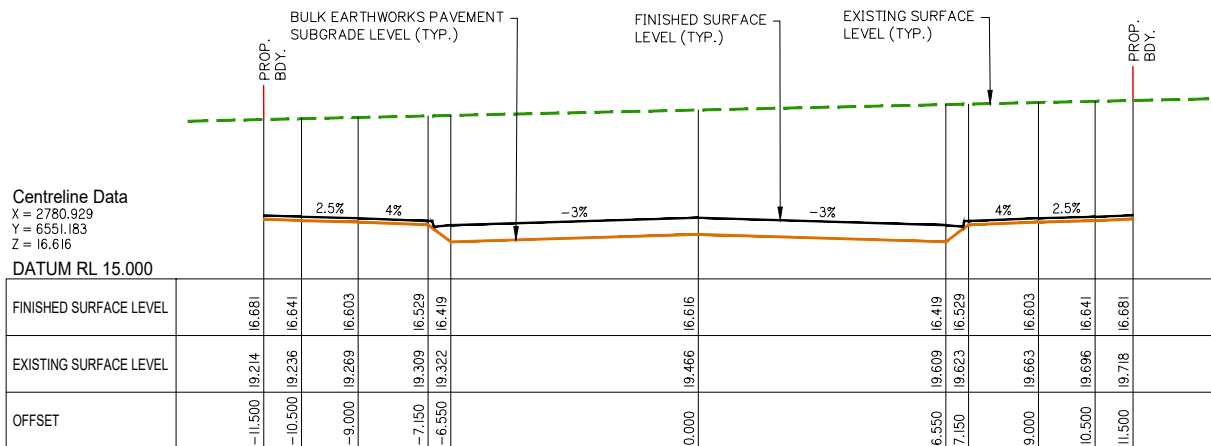
Scale 1:100 - Lengths are in Metres.

VERT: 

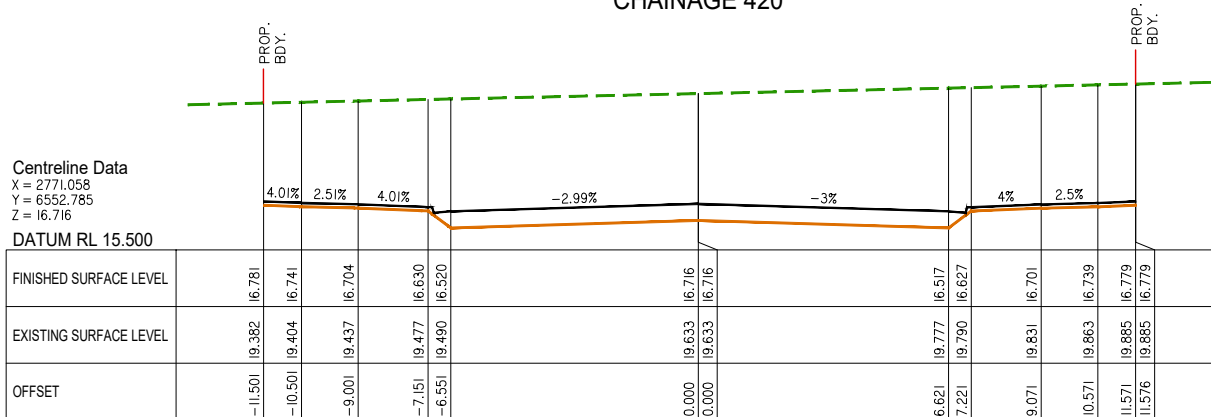
Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-11-2020

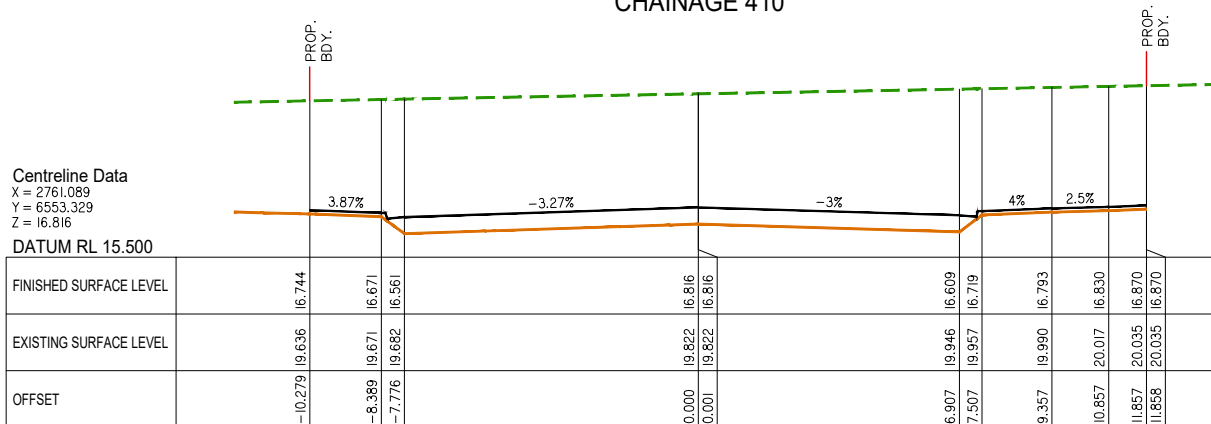
Drawing No:	Rev. No:
5941 ENG BE2 435	A



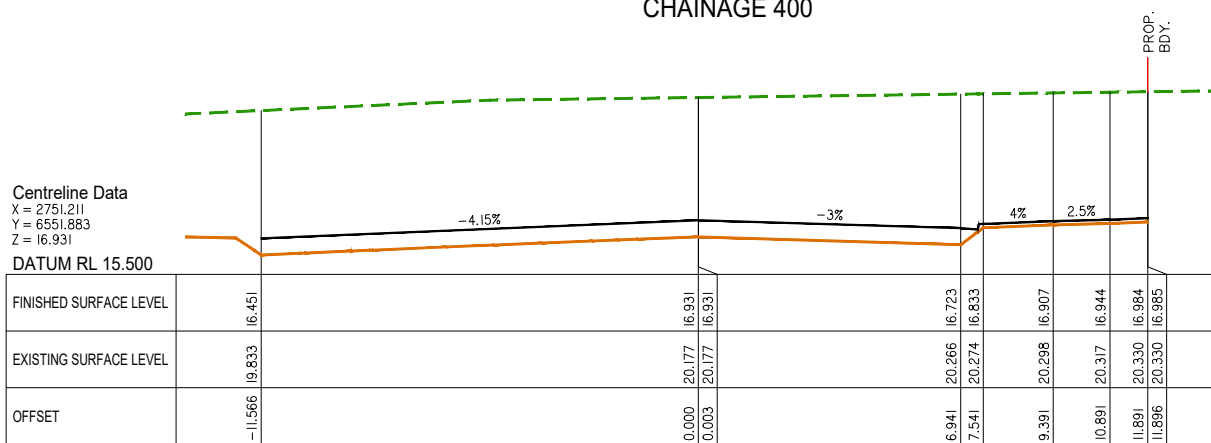
CHAINAGE 420



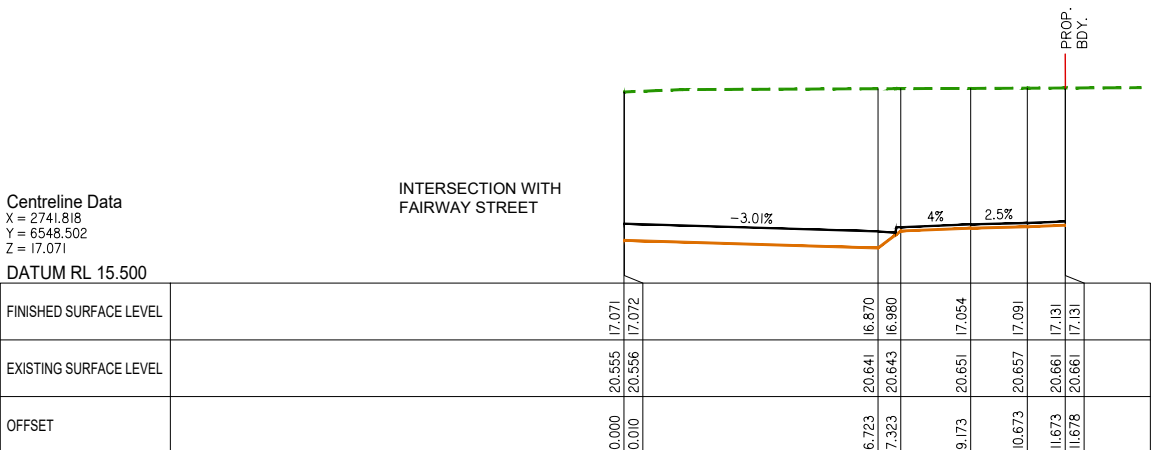
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CHAINAGE 400



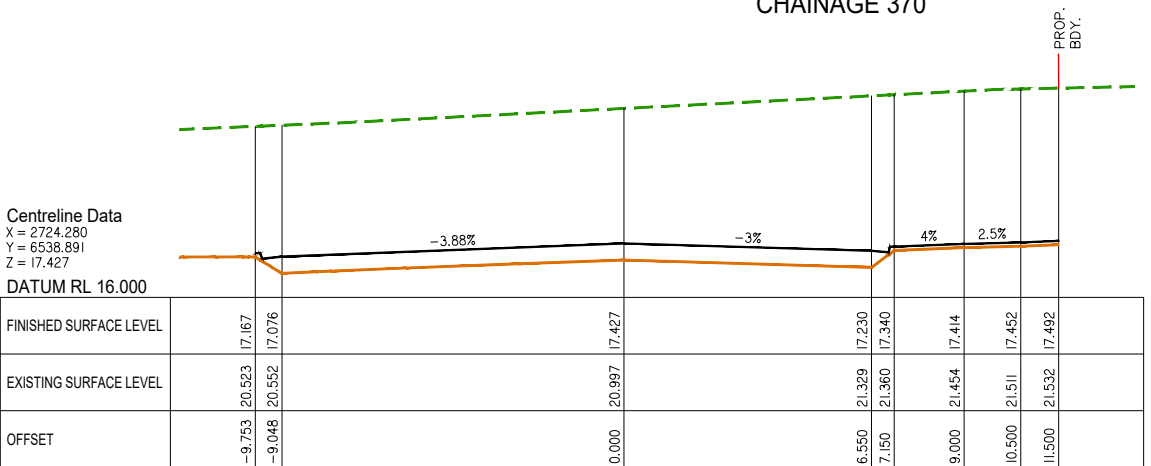
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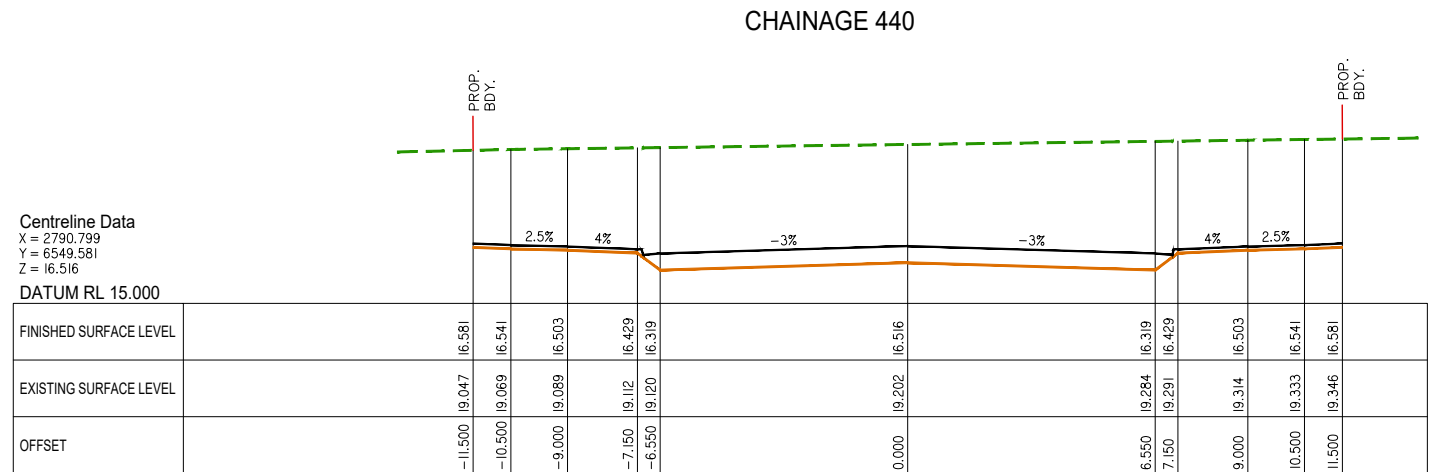
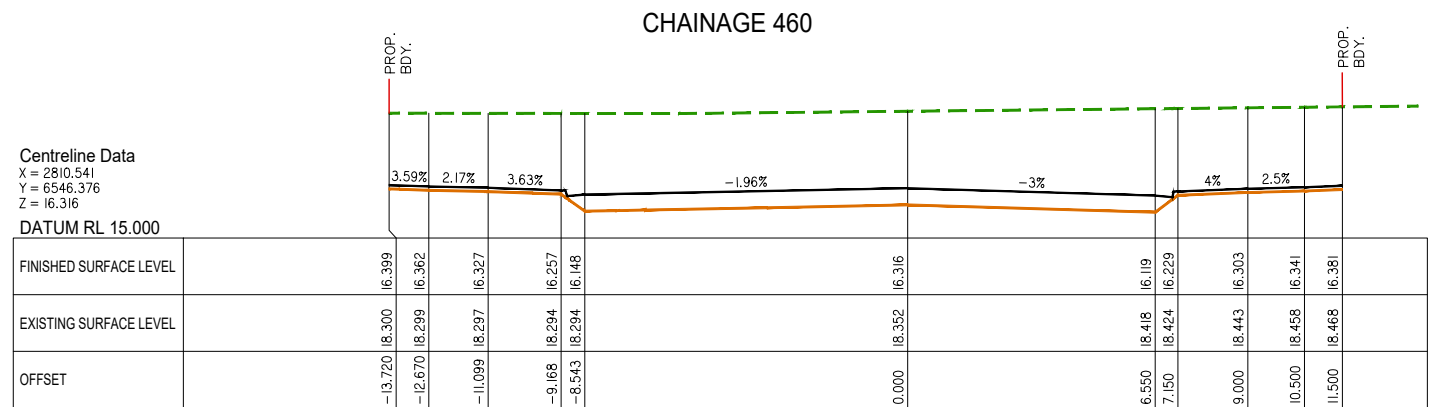
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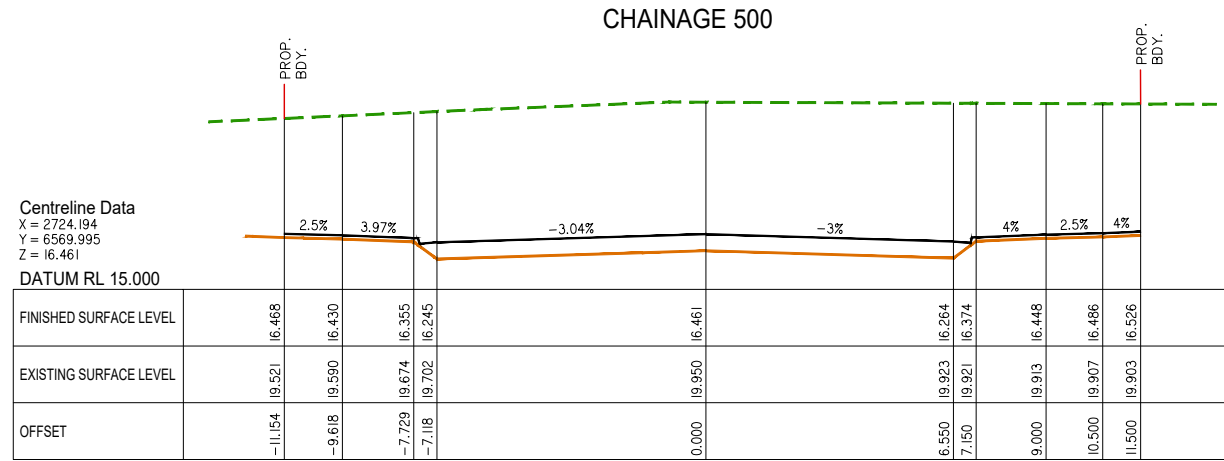
CHAINAGE 370



CHAINAGE 360









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:	-
PSM:	-
RL:	-

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DRAWING TITLE

ROAD USER SAFETY CROSS
SECTIONS - SHEET 1 OF 5

A	15-02-2021	<u>ORIGINAL ISSUE</u>			BA
Issue	Date	Description			DRN
					MG
					CHK

SCALE IN METRES

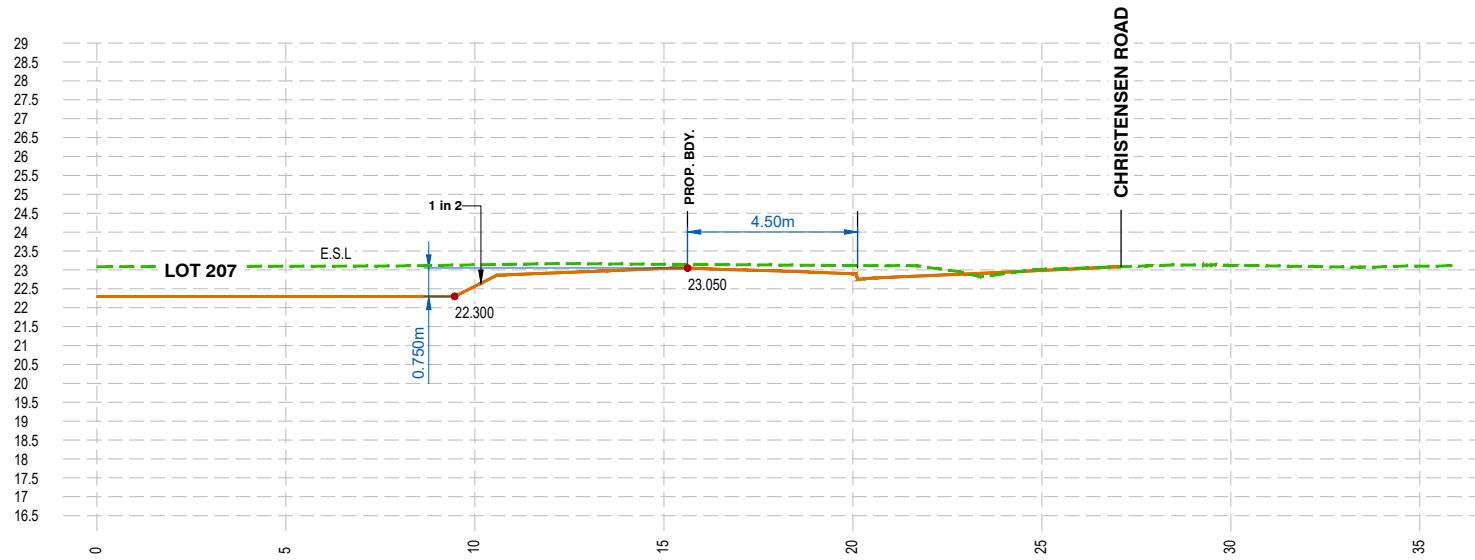


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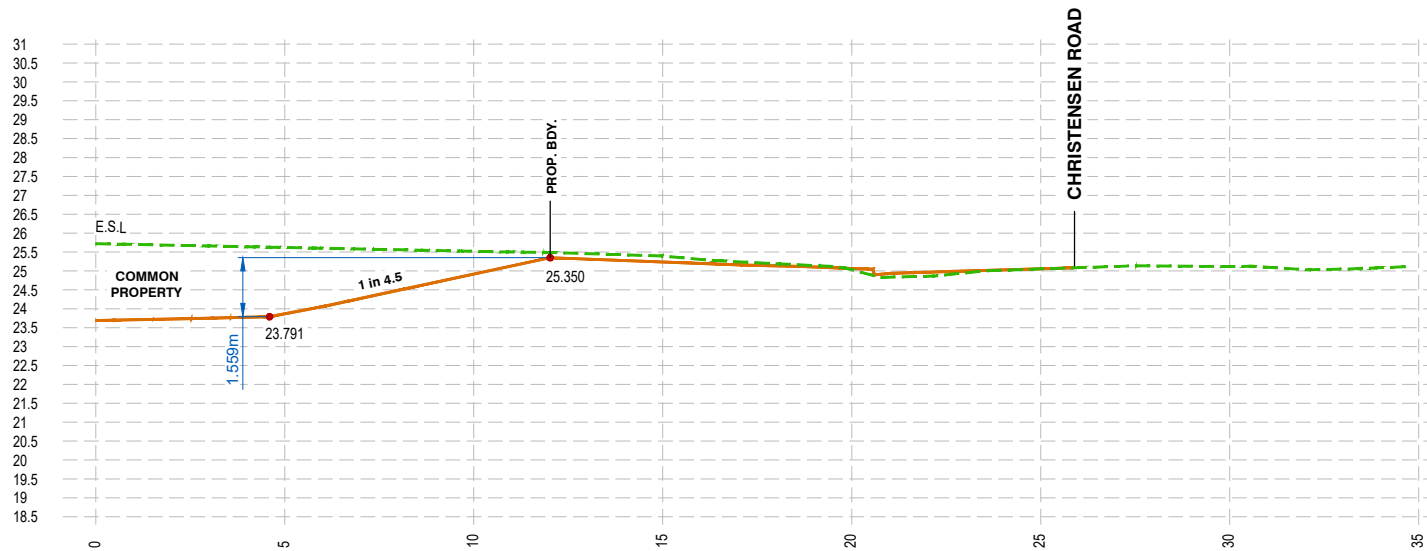
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Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

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5941 ENG BE2 442	A



 CROSS SECTION 1



 CROSS SECTION 2



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

RPD:
 Lot: 501
 Plan: SP295994
 Local Authority: CITY OF GOLD COAST
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ROAD USER SAFETY CROSS
SECTIONS - SHEET 2 OF 5

SCALE IN METRES

2 4 6 8 10

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1:200 (HALF SIZE A3)

Designed:	IG
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rafted:	IG
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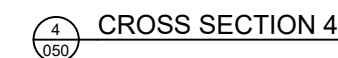
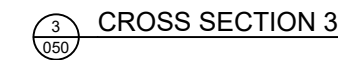
Approved:	MG
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PEQ:	16939
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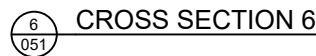
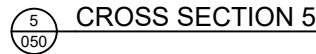
Signed:	
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ate:	15-02-2021
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Drawing No:	Rev. N
041 ENG BE2 443	A



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



Project: **VantageYatala**
STAGE 2

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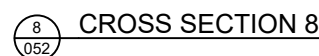
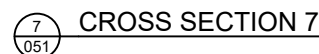
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ROAD USER SAFETY CROSS
SECTIONS - SHEET 4 OF 5

A Issue	15-02-2021 Date	ORIGINAL ISSUE	BA RBN	MO CH

Designed:	IG
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Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

ROAD USER SAFETY CROSS SECTIONS – SHEET 4 OF 5





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Project: **VantageYatala**
STAGE 2

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

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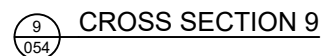
RPD:	
Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
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DRAWING TITLE

ROAD USER SAFETY CROSS
SECTIONS - SHEET 5 OF 5

ROAD USER SAFETY CROSS SECTIONS – SHEET 5 OF 5

SCALE IN METRES

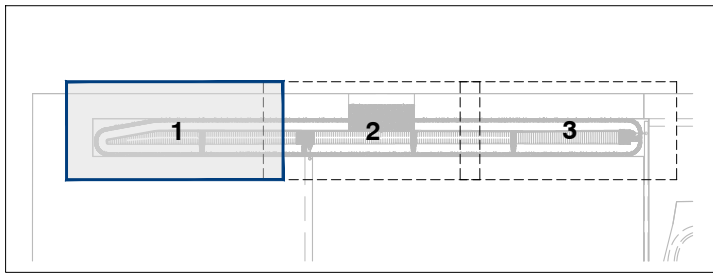


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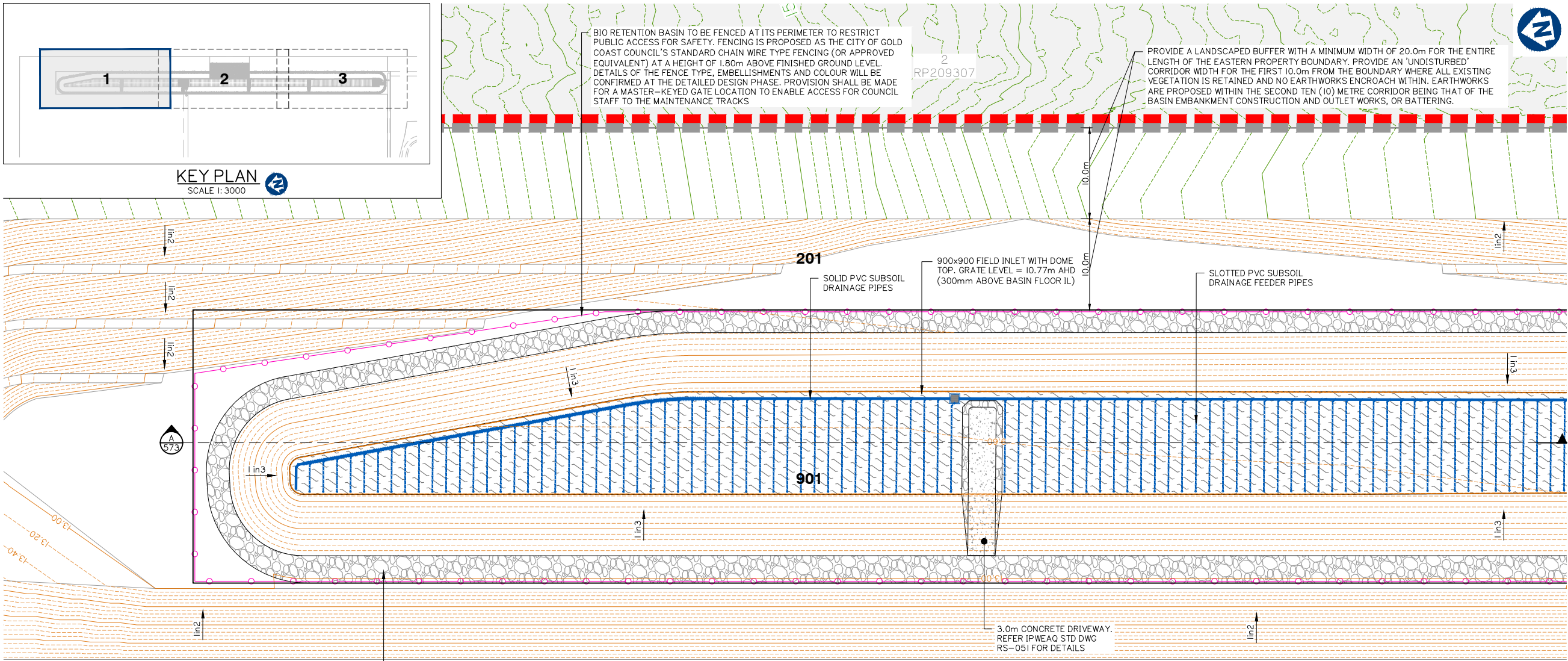
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RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No:	Rev. No:
5941 ENG BE2 446	A



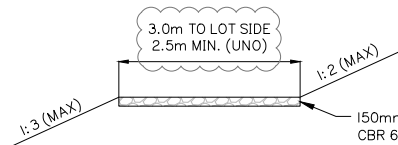
KEY PLAN
SCALE 1: 3000



BIORETENTION BASIN I LAYOUT PLAN

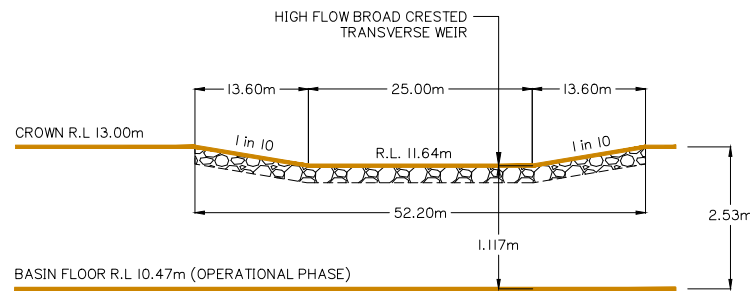
SCALE 1: 250 (A1)

3.0m WIDE MAINTENANCE ACCESS TRACK TO BASIN WHERE IMMEDIATELY ADJACENT TO THE DEVELOPMENT LOTS. 2.5m WIDE TO REMAINING PERIMETER OF BASIN. EMBANKMENT CROWN LEVEL 13.00m AHD (REFER TYPICAL DETAIL BELOW).



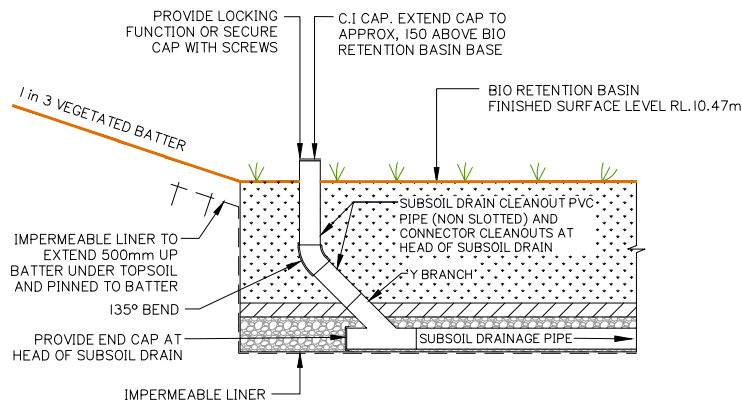
MAINTENANCE ACCESS TRACK - TYPICAL SECTION

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



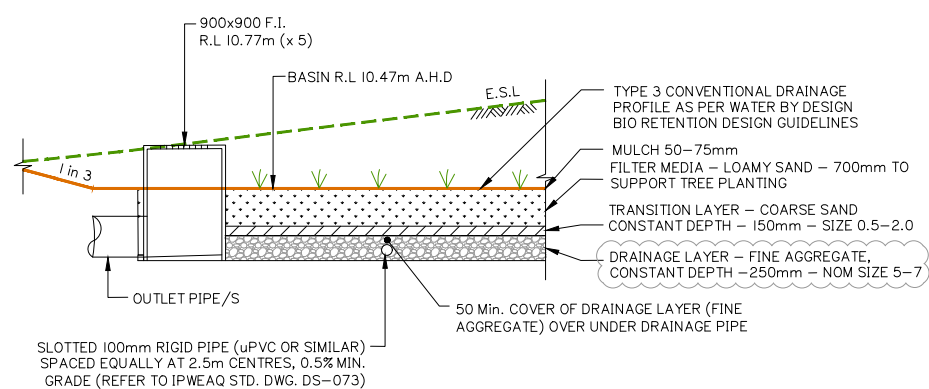
WEIR / SPILLWAY - TYPICAL ELEVATION

N.T.S.



SUBSOIL DRAIN CLEANOUT - IN BASIN

N.T.S.



TYPICAL BIO-RETENTION BASIN DETAIL

N.T.S.

BIO-RETENTION NOTES:

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

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

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

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

AEP (%)	MAX. WATER ELEVATION (m) A.H.D.	MAX. WATER DEPTH (m)
63.2	11.458	0.988
0.5EY	11.611	1.141
20	11.737	1.267
10	11.812	1.342
5	11.875	1.405
2	11.944	1.474
1	11.992	1.522

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Plan: SP295994
Local Authority: CITY OF GOLD COAST COUNCIL
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DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 1 OF 4

Issue	Date	Original Issue Description	BA	MG	DRN	CHK
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: BA

Approved: MG

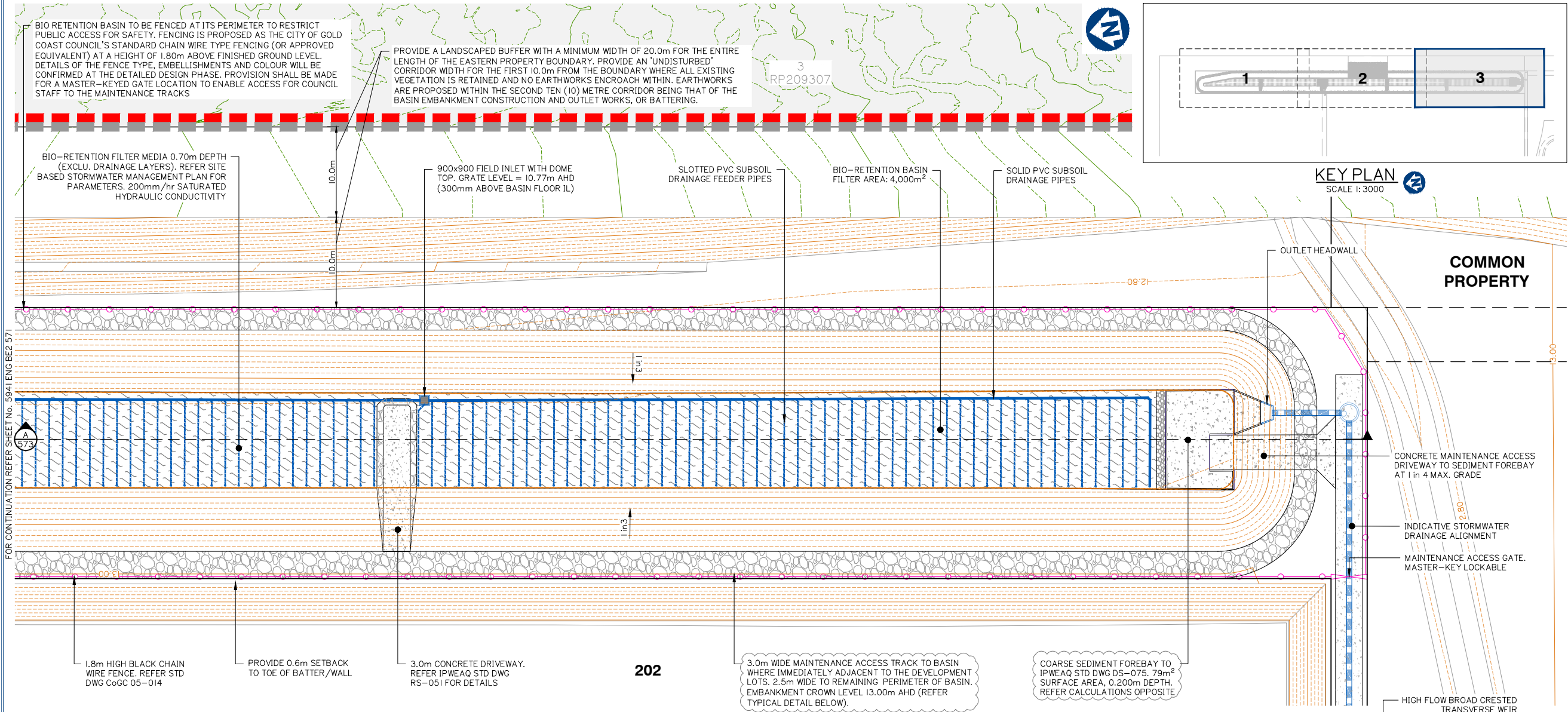
RPEQ: 16939

Signed:

Date: 15-02-2021

Drawing No:
5941 ENG BE2 570

Rev. No:
B



BIO RETENTION - COARSE SEDIMENT FOREBAY SIZING GUIDE CALCULATIONS (TOTAL)

$$V_s = A_c \times R \times L_o \times F = 6.4953 \text{ m}^3$$
$$R = 1 - \left[1 + \frac{1}{n} \times \frac{V_s}{Q/A_f} \right]^{-n}$$
$$0.8 = 1 - \left[1 + \frac{0.10}{0.5 \times 1597/A_f} \right]^{-0.5} \quad A_f = 191.64 \text{ m}^2$$
$$D_s = \frac{V_s}{A_f} = \frac{6.4953}{191.64} = 0.020 \text{ m}$$

OPTIMIZATION OF MINIMUM FOREBAY SIZE:

$$D_s = \frac{6.4953 \text{ m}^3}{79.00 \text{ m}^2 (\text{DESIGN})} = 0.082 \text{ m}$$

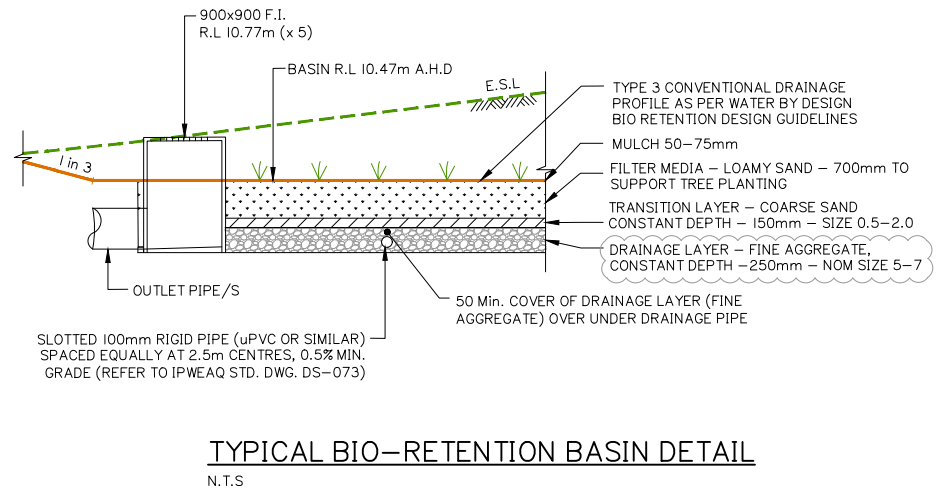
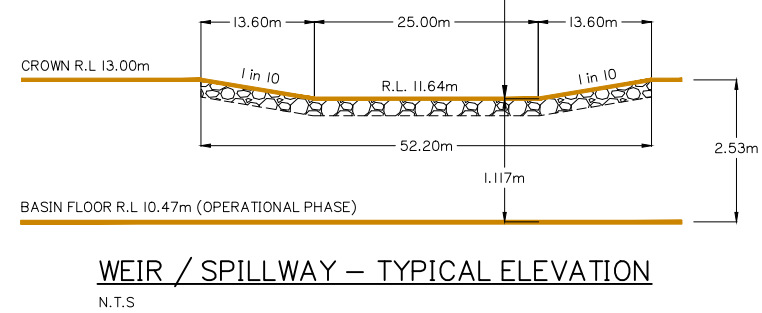
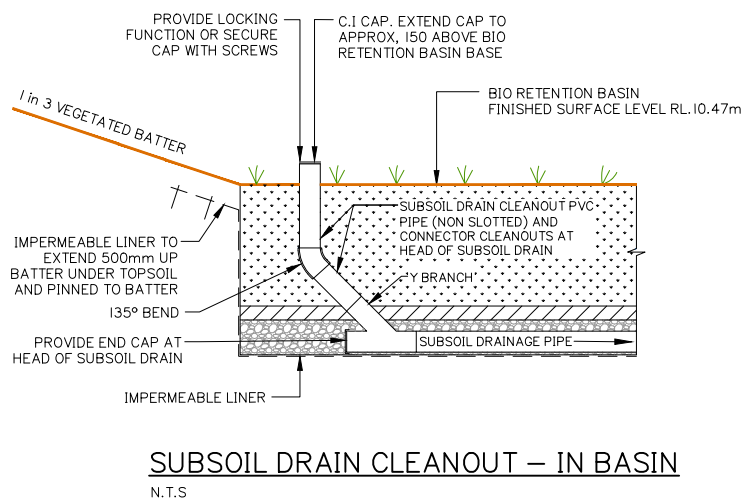
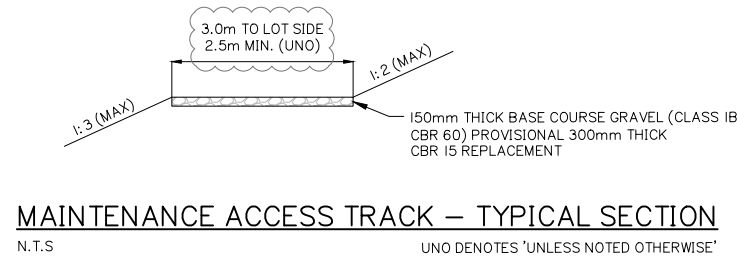
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OPERATIONAL PHASE BIORETENTION BASIN SHEET 3 OF 4

Client:



Project:

VantageYatala
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
OPERATIONAL PHASE BIORETENTION BASIN
SHEET 3 OF 4

Rev.	Date	Description	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:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	15-02-2021

Drawing No: 5941 ENG BE2 572
Rev. No: B

