

OPERATIONAL WORKS FOR CHANGE TO GROUND LEVEL



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CLIENT



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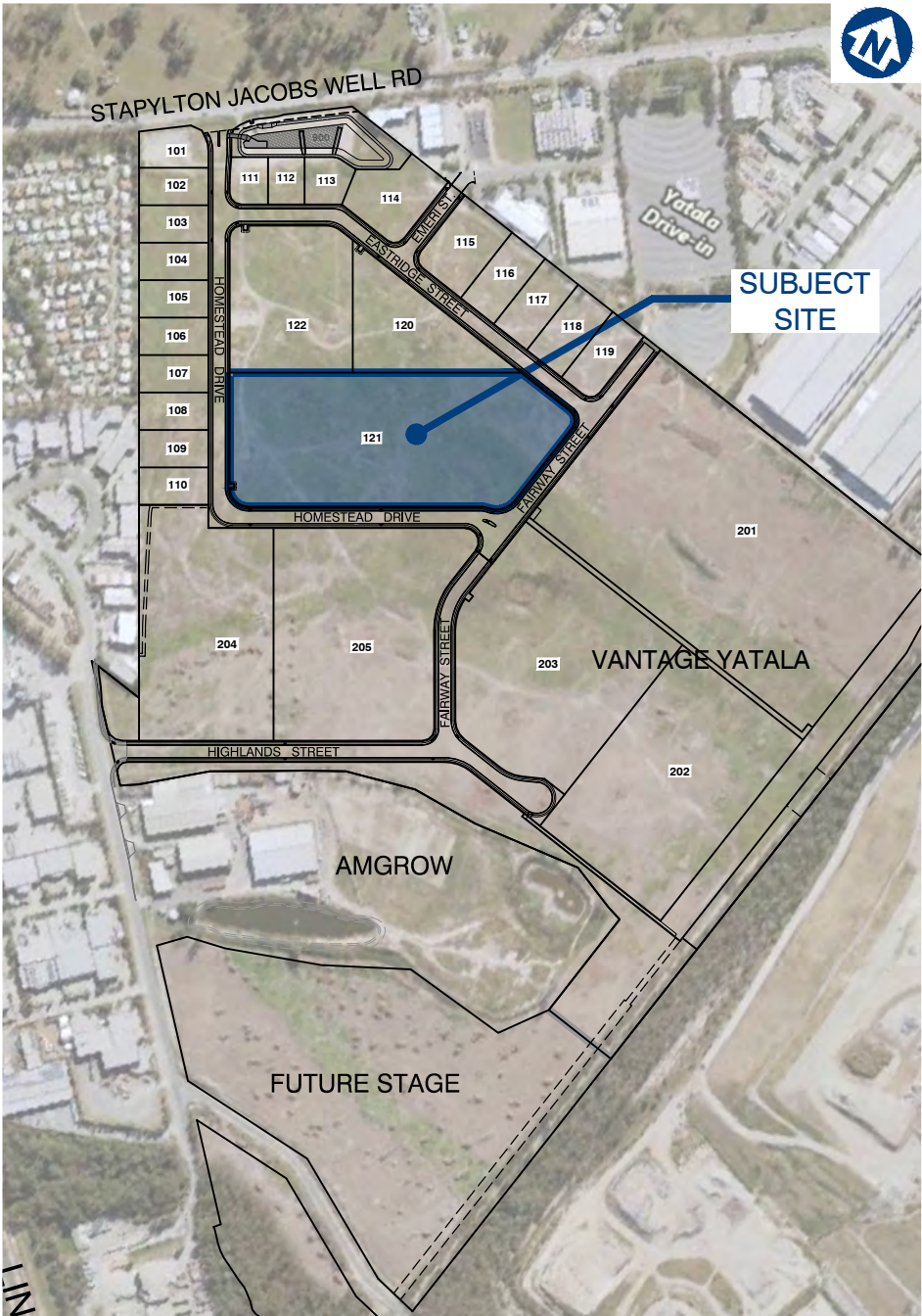
VantageYatala

SITE ADDRESS

LOT 121 & 122 on SP316168
HOMESTEAD DRIVE
STAPYLTON QLD 4207

DWG No. 6098 ENG BE 001 – REV B

MARCH 2022



LOCALITY PLAN
SCALE 1: 4000 (A1)

Change to ground level is the only Operational Works component approved by this development approval.

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: COM/2022/13

Dated: 15 March 2022

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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

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 EACH FOR A DISTANCE NOT EXCEEDING FIVE (5) METRES ALL AROUND MUST BE CLEAR 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

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



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Client:



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Project:

LOT 120-122 BOUNDARY REALIGNMENT

Site Address:

HOMESTEAD DRIVE,
STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 120 - 122
Plan: SP316168
Local Authority: CITY OF GOLD COAST
COUNCIL

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

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DRAWING TITLE

GENERAL NOTES
SHEET 2 OF 2

A	21-12-2021							DV	MCH
Issue	Date				ORIGINAL ISSUE			DRN	CHI
					Description				

NOT APPLICABLE

Scale at A1: NTS

Designed:	DV
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Drafted:	DV
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Approved:	MG
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RPEQ:	169
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Signed:	
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Date:	14-01-2022
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Drawing No:	Rev. No:
6098 ENG BE 003	A

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
RW	RW	RW	PROPOSED ROOFWATER
SS	SS	SS	PROPOSED ROOFWATER
SS	SS	SS	PROPOSED SUBSOIL
W	W	W	PROPOSED WATER
RW	RW	RW	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
RW	RW	RW	EXISTING ROOFWATER
SS	SS	SS	EXISTING SUBSOIL
W	W	W	EXISTING WATER
RW	RW	RW	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 —	DEMOLISH FUEL
— HV — X — HV — X — HV — X — HV — X —	DEMOLISH HIGH VOLTAGE ELECTRICITY
— E — X — E — X — E — X — E — X —	DEMOLISH UNDERGROUND ELECTRICITY
— E — X — E — X — E — X — E — X —	DEMOLISH OVERHEAD ELECTRICITY
— L — X — L — X — L — X — L — X —	DEMOLISH LIGHTING
— G — X — G — X — G — X — G — X —	DEMOLISH GAS
— P — X — P — X — P — X — P — X —	DEMOLISH PIPELINE
— T — X — T — X — T — X — T — X —	DEMOLISH TELSTRA
— C — X — C — X — C — X — C — X —	DEMOLISH COMMUNICATIONS

	BARRIER KERB (A)
	BARRIER KERB (B)
	BARRIER KERB (G)
	MOUNTABLE KERB (D)
	SEMI MOUNTABLE KERB (C)
	EDGE RESTRAINT (E)
	KERB EDGE RESTRAINT (F)
	ROLL TOP KERB & CHANNEL (H)
	BARRIER KERB & CHANNEL (J)
	KERB EDGE RESTRAINT (HIGH)
	KERB EDGE RESTRAINT (LOW)
	CHANNEL SECTION (K/L)
	PRECAST MOTOR BED
	DISH DRAIN
	KERB AND GUTTER
	KERB AND TOE
	KERB ONLY
	MOUNTABLE KERB
	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 DICL
	SEWER MANHOLE
	SEWER RODDING END
	SEWER BEND
	SEWER MAINTENANCE SHAFT
	SEWER 'T' END
	SEWER SLUICE VALVE
	SEWER PIT
	SEWER PUMP STATION
	TEMPORARY SEWER PUMP STATION
	SEWER / STORMWATER PIT NO/LINE
	SETOUT POINT
	OFFSET PIT WITH GRATE
	IN LINE PIT WITH GRATE
	JUNCTION PIT
	LETTERBOX PIT
	GRATED INLET PIT
	MANHOLE
	GULLY PIT (LIP INLINE) BARRIER KERB
	GULLY PIT (LIP INLINE) BARRIER KERB
	GULLY PIT (LIP INLINE) ROLL TOP KERB
	GULLY PIT (LIP INLINE) ROLL TOP KERB
	GULLY PIT (KERB INLINE) – GRADE
	GULLY PIT (KERB INLINE) – SAG
	INFILTRATION TRENCH
	HEADWALL
	GROSS POLLUTANT TRAP
	STORMWATER CHAMBER

	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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Client:



FPI QUEENSLAND PTY. LTD.

Project:

LOT 120-122 BOUNDARY REALIGNMENT

Site Address:

HOMESTEAD DRIVE,
STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 120 - 122
Plan: SP316168
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

LEGEND

A	21-12-2021	ORIGINAL ISSUE		DV	MG
Issue	Date	Description		DRN	CHK

NOT APPLICABLE

Scale at A1: NTS

Designed:	DV
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Drafted:	DV
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	14-01-2022
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Drawing No:	Rev. No:
6098 ENG BE 004	A

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: COM/2022/13

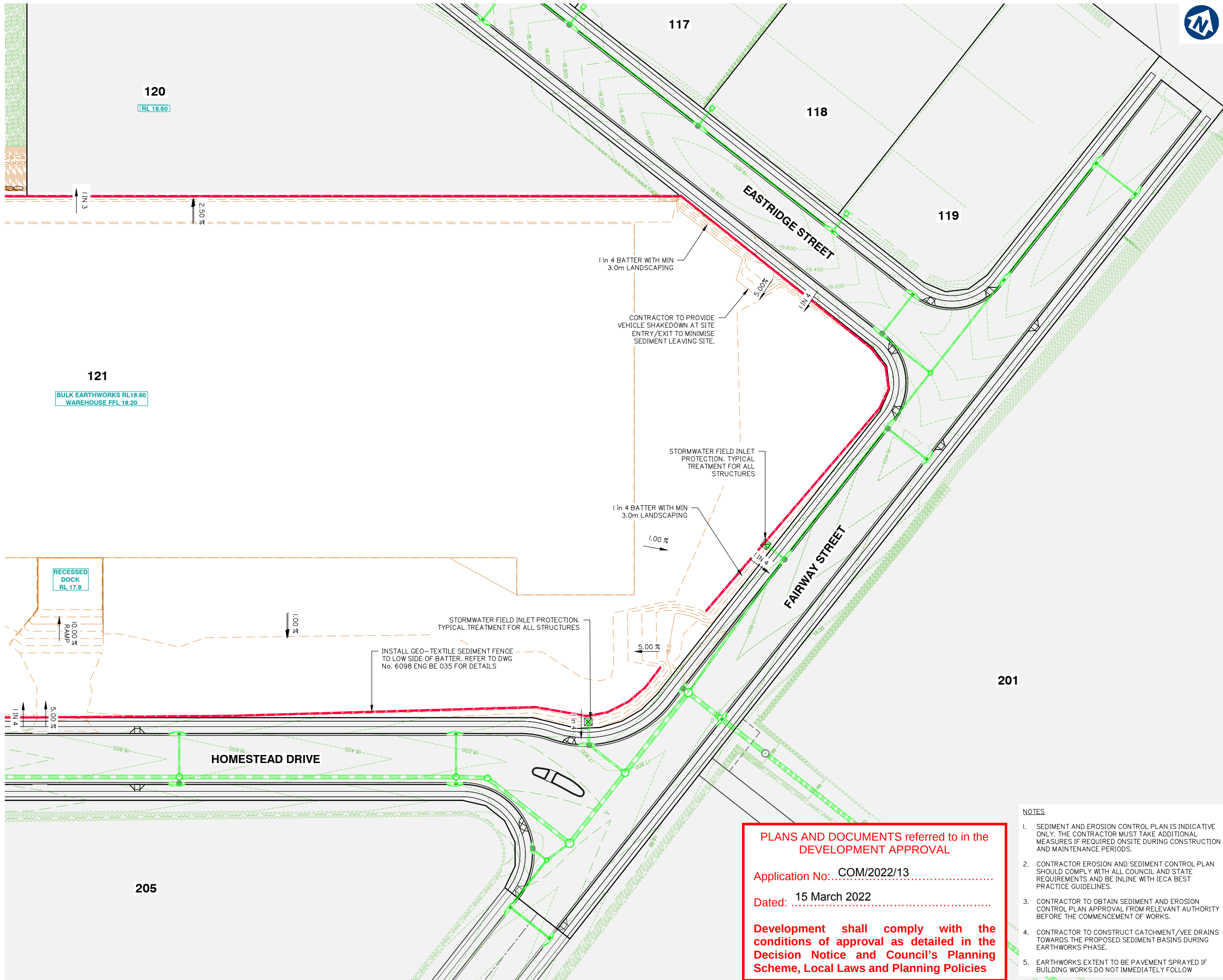
Dated: 15 March 2022

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

SEDIMENT AND EROSION
CONTROL PLAN SHEET 2 OF 2

Issue	Date	Description	DRN	CHK
B	03/03/2022	STAGE 2 LOT BOUNDARIES & NUMBERS AMENDED	JH	MG
A	21-12-2021	ORIGINAL ISSUE	DV	MG

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	DV
Drafted:	DV
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-01-2022

Drawing No: 6098 ENG BE 021 Rev. No: B

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

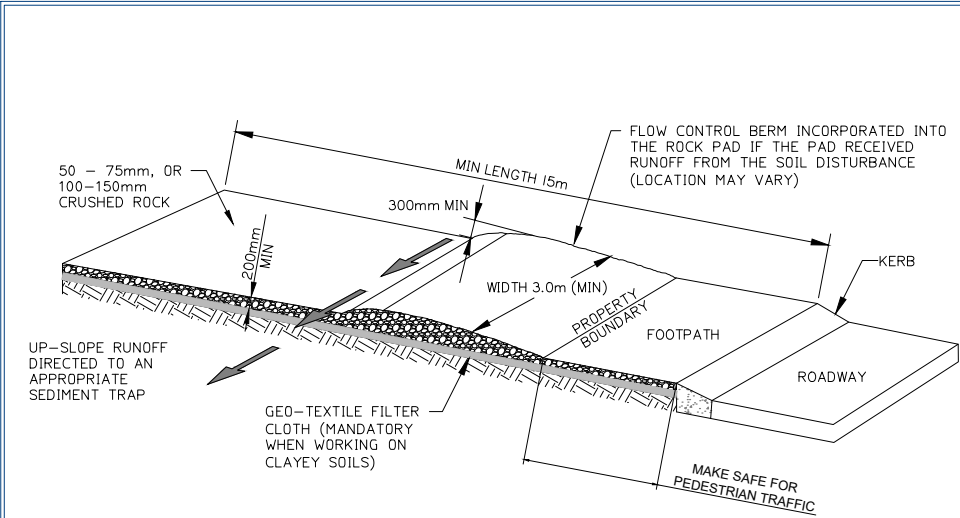
Application No: COM/2022/13

Dated: 15 March 2022

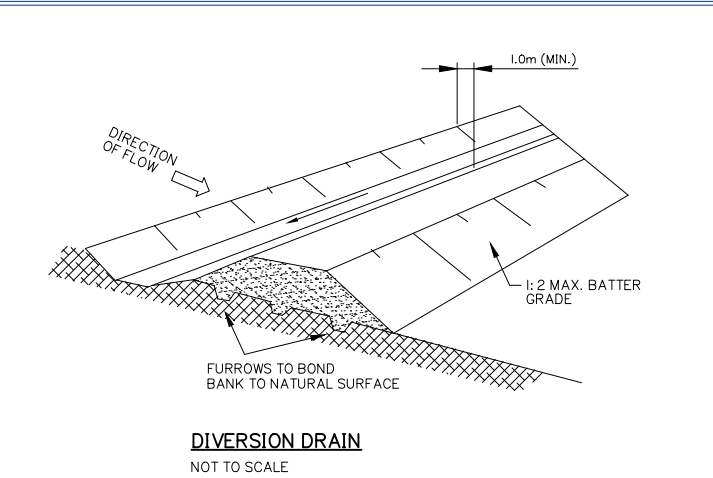
Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

NOTES

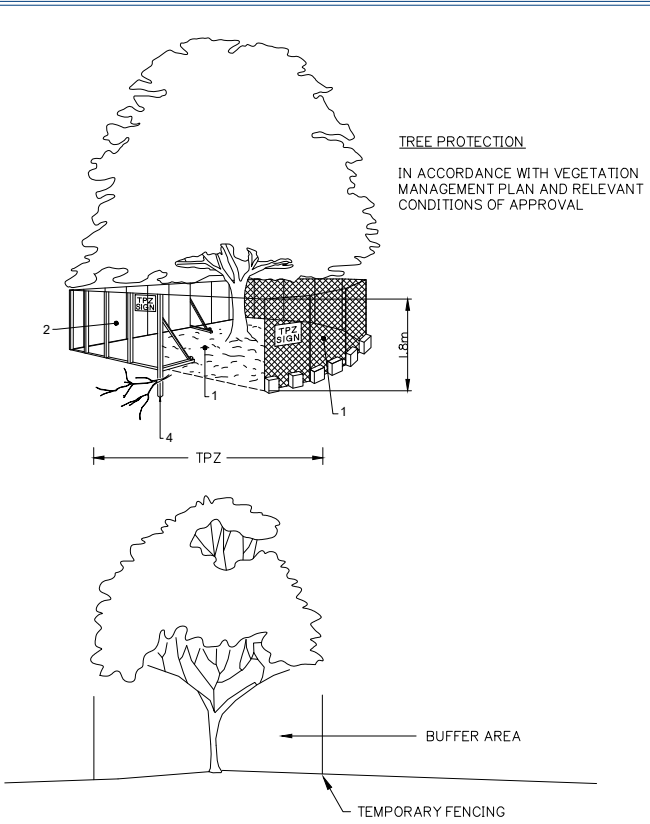
- SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
- CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
- CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
- CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.
- EARTHWORKS EXTENT TO BE PAVEMENT SPRAYED IF BUILDING WORKS DO NOT IMMEDIATELY FOLLOW



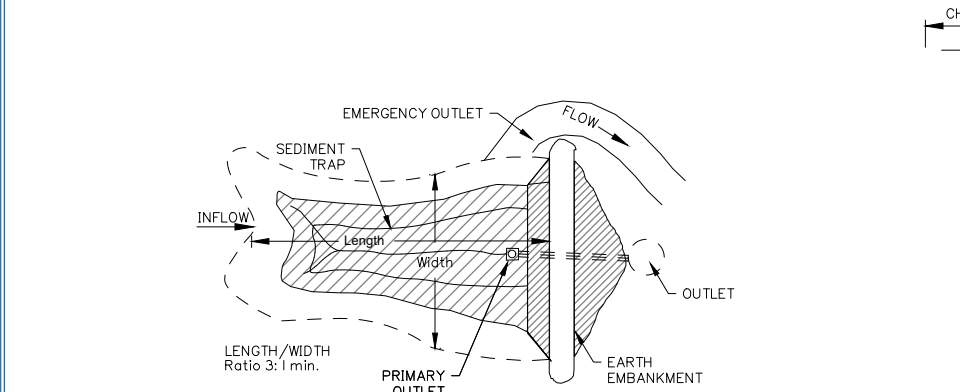
ENTRY/EXIT PAD FOR CONSTRUCTION SITE
NOT TO SCALE



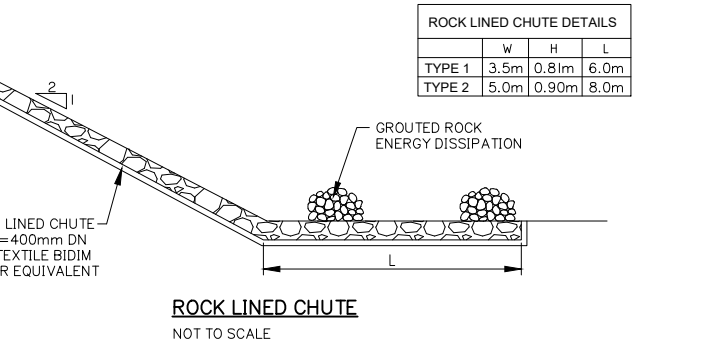
DIVERSION DRAIN
NOT TO SCALE



TREE PROTECTION
IN ACCORDANCE WITH VEGETATION
MANAGEMENT PLAN AND RELEVANT
CONDITIONS OF APPROVAL



TYPICAL SEDIMENT BASIN
NOT TO SCALE



ROCK LINED CHUTE
NOT TO SCALE

FENCING AS PER AS: 4970

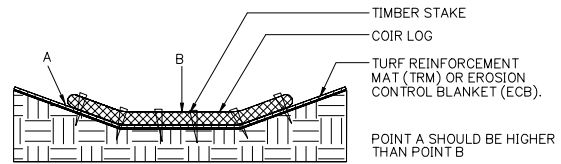
1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET.
2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THIS FENCING MATERIAL ALSO PREVENTS BUILDING MATERIALS OR SOIL ENTERING THE TPZ.
3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF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

DETERMINING THE TPZ

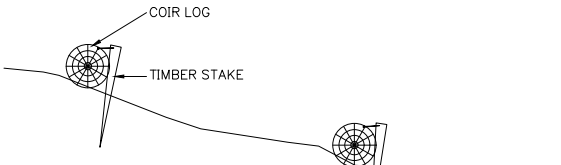
THE RADIUS OF THE TPZ IS CALCULATED FOR EACH TREE BY MULTIPLYING ITS DBH X 12 = TRUNK DIAMETER MEASURED AT 1.4M ABOVE GROUND. RADIUS IS MEASURED FROM THE CENTRE OF THE STEM AT GROUND LEVEL.

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

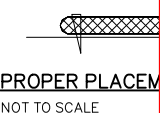
PROTECTIVE FENCING
NOT TO SCALE



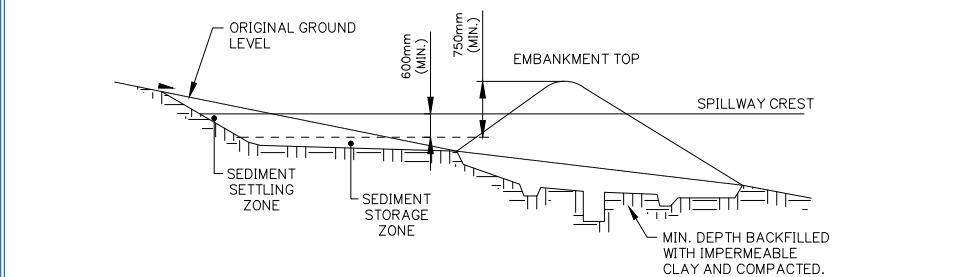
PROPER PLACEMENT OF COIR LOG IN DRAINAGE PATH
NOT TO SCALE



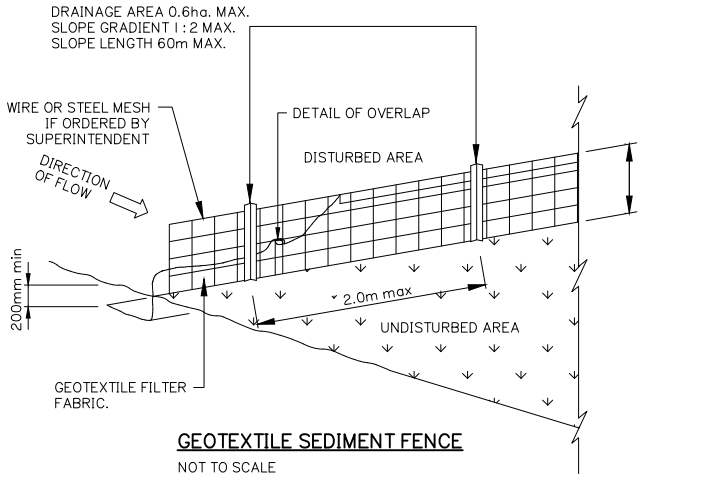
COIR LOG AND TIM
NOT TO SCALE



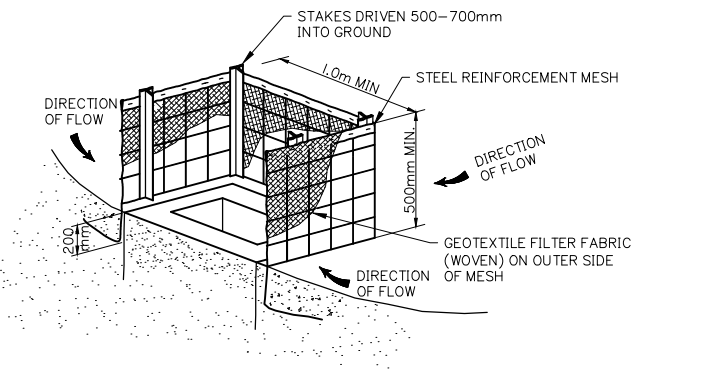
PROPER PLACEMENT
NOT TO SCALE



TYPICAL SECTION VEE DRAIN
NOT TO SCALE



GEOTEXTILE SEDIMENT FENCE
NOT TO SCALE



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

SEDIMENT AND EROSION TYPICAL DETAILS

Client:



FPI QUEENSLAND PTY. LTD.

Project:

LOT 120-122 BOUNDARY
REALIGNMENT

Site Address:

HOMESTEAD DRIVE,
STAPYLTON QLD 4207

THIS DRAWING IS INTENDED
TO BE PRINTED IN COLOUR

RPD:

Lot: 120 - 122
Plan: SP316168
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

SEDIMENT AND EROSION
TYPICAL DETAILS

Issue	Date	Description	Author	Checked
A	21-12-2021	ORIGINAL ISSUE	DV	MG

SCALE IN METRES

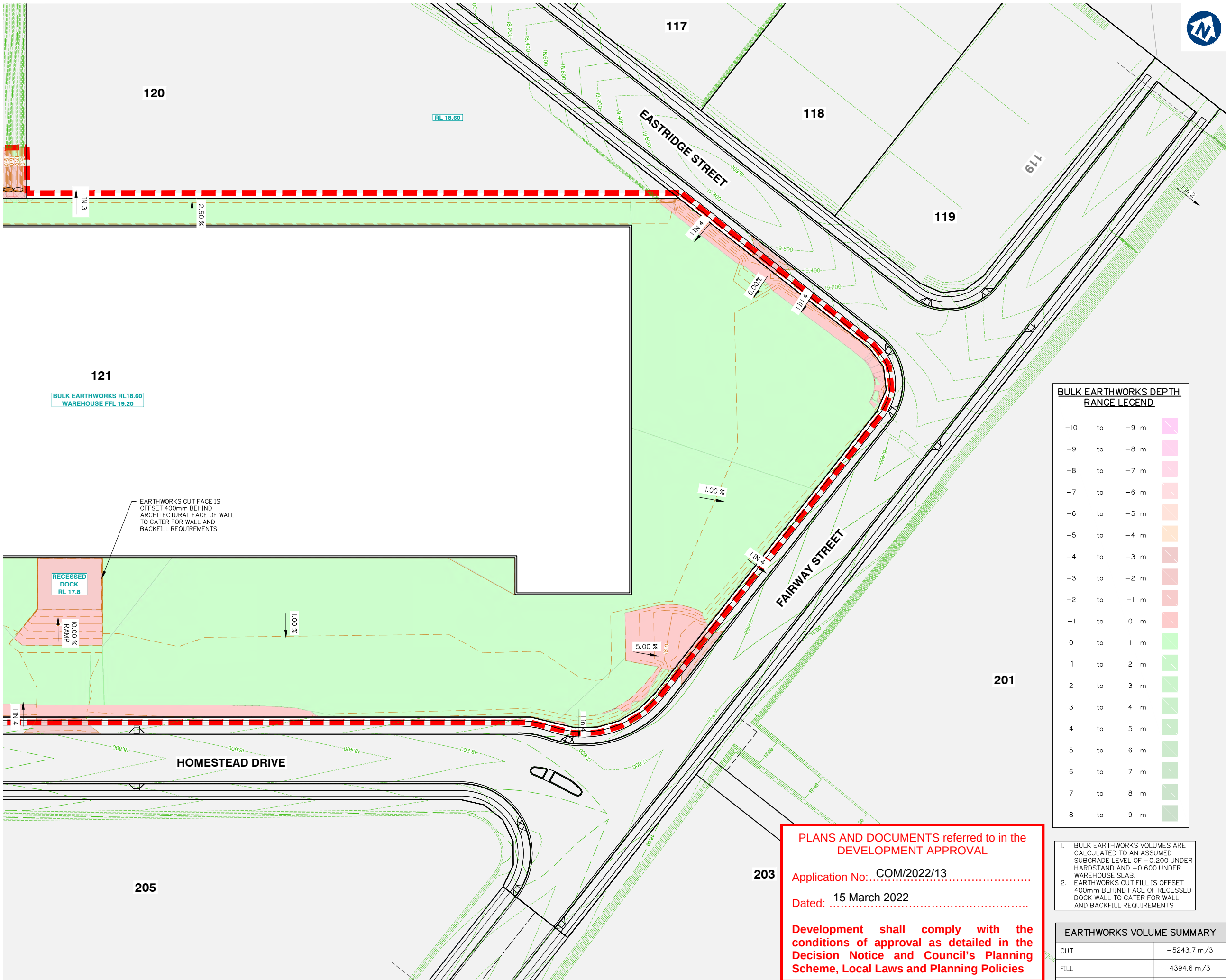
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1:10000 (FULL SIZE A1)
1:20000 (HALF SIZE A3)

Scale at A1: N.T.S

Designed:	DV
Drafted:	DV
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-01-2022

Drawing No: 6098 ENG BE 035
Rev. No: A

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL
Application No: COM/2022/13
Dated: 15 March 2022
Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies



BULK EARTHWORKS DEPTH RANGE LEGEND		
-10	to	-9 m
-9	to	-8 m
-8	to	-7 m
-7	to	-6 m
-6	to	-5 m
-5	to	-4 m
-4	to	-3 m
-3	to	-2 m
-2	to	-1 m
-1	to	0 m
0	to	1 m
1	to	2 m
2	to	3 m
3	to	4 m
4	to	5 m
5	to	6 m
6	to	7 m
7	to	8 m
8	to	9 m

1. BULK EARTHWORKS VOLUMES ARE CALCULATED TO AN ASSUMED SUBGRADE LEVEL OF -0.200 UNDER HARDSTAND AND -0.600 UNDER WAREHOUSE SLAB.
2. EARTHWORKS CUT FILL IS OFFSET 400mm BEHIND FACE OF RECESSED DOCK WALL TO CATER FOR WALL AND BACKFILL REQUIREMENTS

EARTHWORKS VOLUME SUMMARY	
CUT	-5243.7 m ³
FILL	4394.6 m ³
EXCESS OF CUT OVER FILL	849.1 m ³

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: COM/2022/13

Dated: 15 March 2022

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



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:



FPI QUEENSLAND PTY. LTD.

Project:

LOT 120-122 BOUNDARY REALIGNMENT

Site Address:

HOMESTEAD DRIVE,
STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 120 - 122
Plan: SP316168
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 CUT
AND FILL PLAN SHEET 2 OF 2

B	03/03/2022	STAGE 2 LOT BOUNDARIES & NUMBERS AMENDED	JH	MG	
A	21-12-2021	ORIGINAL ISSUE	DV	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



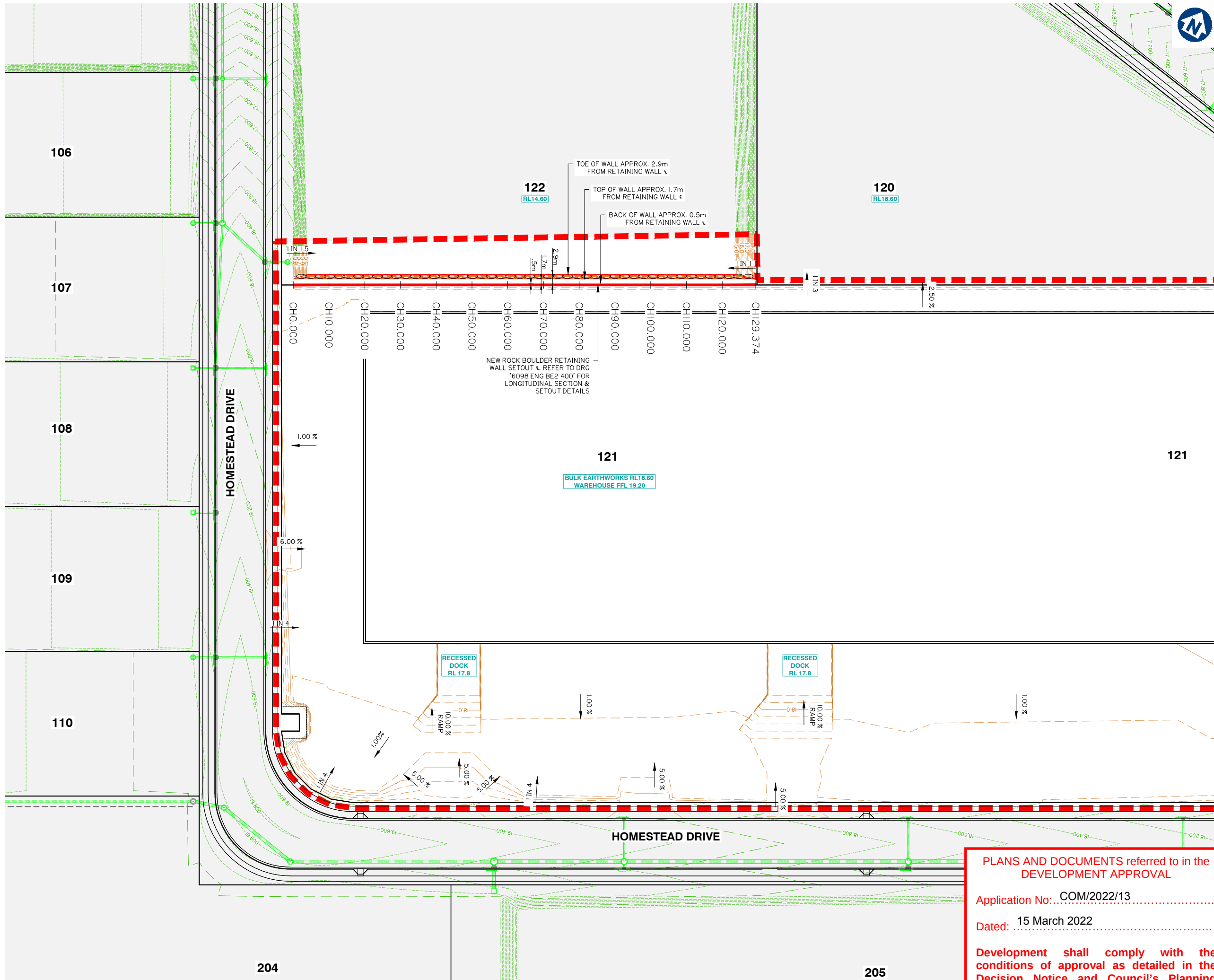
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	DV
Drafted:	DV
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-01-2022

Drawing No: 6098 ENG BE 051 Rev. No: B





RETAINING WALL CONTROL LINE LAYOUT PLAN

Client:



FPI QUEENSLAND PTY. LTD.

Project:

LOT 120-122 BOUNDARY
REALIGNMENT

Site Address:

HOMESTEAD DRIVE,
STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 120 - 122
Plan: SP316168
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

RETAINING WALL CONTROL
LINE LAYOUT PLAN

Issue	Date	Description	DRN	CHK
B	03/03/2022	RETAINING WALL DETAILS UPDATED	JH	MG
A	21-12-2021	ORIGINAL ISSUE	DV	MG

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	DV
Drafted:	DV
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-01-2022

Drawing No:
6098 ENG BE 400

Rev. No:
B

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: COM/2022/13

Dated: 15 March 2022

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

MAX HEIGHT 'H' (m)	MIN. WALL BASE WIDTH 'B' (m)	MIN. WALL TOP WIDTH 'T' (m)	EMBEDMENT 'E' (m)	REQUIRED BEARING PRESSURE (KPA)
0.0 – 0.5	0.500	0.400	0.800	100
0.6 – 1.0	0.600	0.400	0.800	100
1.1 – 1.5	0.900	0.500	0.800	100
1.6 – 2.0	1.200	0.600	0.800	150
2.1 – 2.5	1.500	0.800	0.800	200
2.6 – 3.0	1.800	0.600	0.800	200
3.1 – 3.5	2.100	1.100	0.800	200
3.6 – 4.0	2.400	1.200	0.800	200
4.1 – 4.5	2.900	1.500	1.000	250
4.6 – 5.0	3.200	1.600	1.000	250

LOT 121

TOP OF WALL

BACK OF WALL

1.2m

0.5m

RETAINING WALL CONTROL LINE SETOUT LOCATION

DESIGN SURFACE

GOOD QUALITY SOUND BOULDERS FREE OF CRACKS OR DEFECTS. MIN. DIAMETER OF 1000mm WHERE WALL WIDTH ALLOWS

1

3

LOT 122

TOE OF WALL

4.0m

0.8m

EXISTING SURFACE

LEVEL 1 FILL

GEOFABRIC OR EQUIVALENT

FREE DRAINING GRAVEL 300mm MIN. WIDTH. (NOMINAL PARTICAL SIZE OF 75mm)

100mm AG DRAIN WRAPPED IN GEOFABRIC TO SWD OUTLET AT MAX. 20m CENTRES. 1: 100 MIN.

BSAE STONES TO BE PLACED TIGHT AGAINST BASE AND HAVE A MINIMUM 80% CONTACT WITH FOUNDING SOIL

2.4m

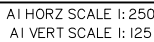
3

VOID BETWEEN BOULDERS AND FOUNDATION TO BE FILLED WITH WELL COMPACTED GRAVEL FILL OR CONCRETE

RP B'DY

SCALE 1: 50

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	2338.604	6793.093	18.600	61°00'47.03"
	10.000	2347.352	6797.939	18.600	61°00'47.03"
	20.000	2356.099	6802.786	18.600	61°00'47.03"
	30.000	2364.846	6807.632	18.600	61°00'47.03"
	40.000	2373.593	6812.478	18.600	61°00'47.03"
	50.000	2382.341	6817.324	18.600	61°00'47.03"
	60.000	2391.088	6822.170	18.600	61°00'47.03"
	70.000	2399.835	6827.016	18.600	61°00'47.03"
	80.000	2408.583	6831.862	18.600	61°00'47.03"
	90.000	2417.330	6836.708	18.600	61°00'47.03"
	100.000	2426.077	6841.554	18.600	61°00'47.03"
	110.000	2434.825	6846.400	18.600	61°00'47.03"
IP 2	120.000	2443.572	6851.247	18.600	61°00'47.03"
	129.374	2451.771	6855.789	18.600	61°00'47.03"



Drawing No:	Rev. No:
6098 ENG BE 401	B

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies