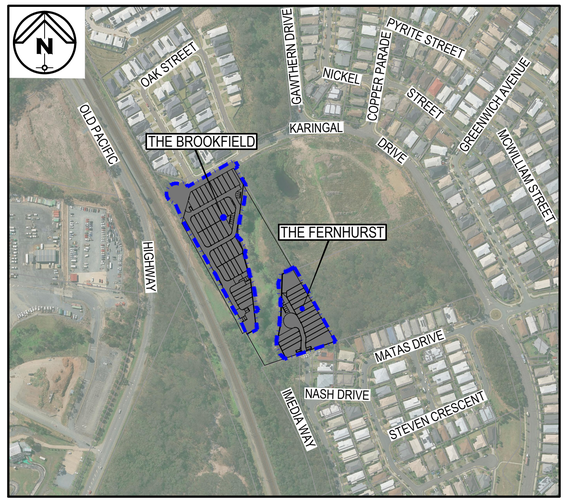
PROPOSED TOWNHOUSE DEVELOPMENT
AT 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

BULK EARTHWORKS EARLY WORKS
CONTRACT BE200223-00

DRAWING INDEX	
Sheet Number	Sheet Title
C1000	COVER SHEET
C1101	SURVEY, EXISTING FEATURES & DEMOLITION PLAN
C2001	EROSION & SEDIMENT CONTROL NOTES & TYPICAL DETAILS
C2101	EROSION & SEDIMENT CONTROL PLAN - SITE ESTABLISHMENT AND CLEARING PHASE
C2201	EROSION & SEDIMENT CONTROL PLAN - BULK EARTHWORKS PHASE
C2601	OVERALL BULK EARTHWORKS LAYOUT PLAN
C2602	BULK EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2
C2603	BULK EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2
C2801	BULK EARTHWORKS SECTIONS - SHEET 1 OF 6
C2802	BULK EARTHWORKS SECTIONS - SHEET 2 OF 6
C2803	BULK EARTHWORKS SECTIONS - SHEET 3 OF 6
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C2805	BULK EARTHWORKS SECTIONS - SHEET 5 OF 6
C2806	BULK EARTHWORKS SECTIONS - SHEET 6 OF 6
C2901	BULK EARTHWORKS NOTES & DETAILS



LOCALITY PLAN

N.T.S.

SURVEY

PROVIDED BY:	MICHEL GROUP SERVICES
REPORT No:	25218-2 Rev.A
DATE:	20/05/2026
SYSTEM:	PM 197770 RL 4.521 MGA 2020

PREPARED FOR

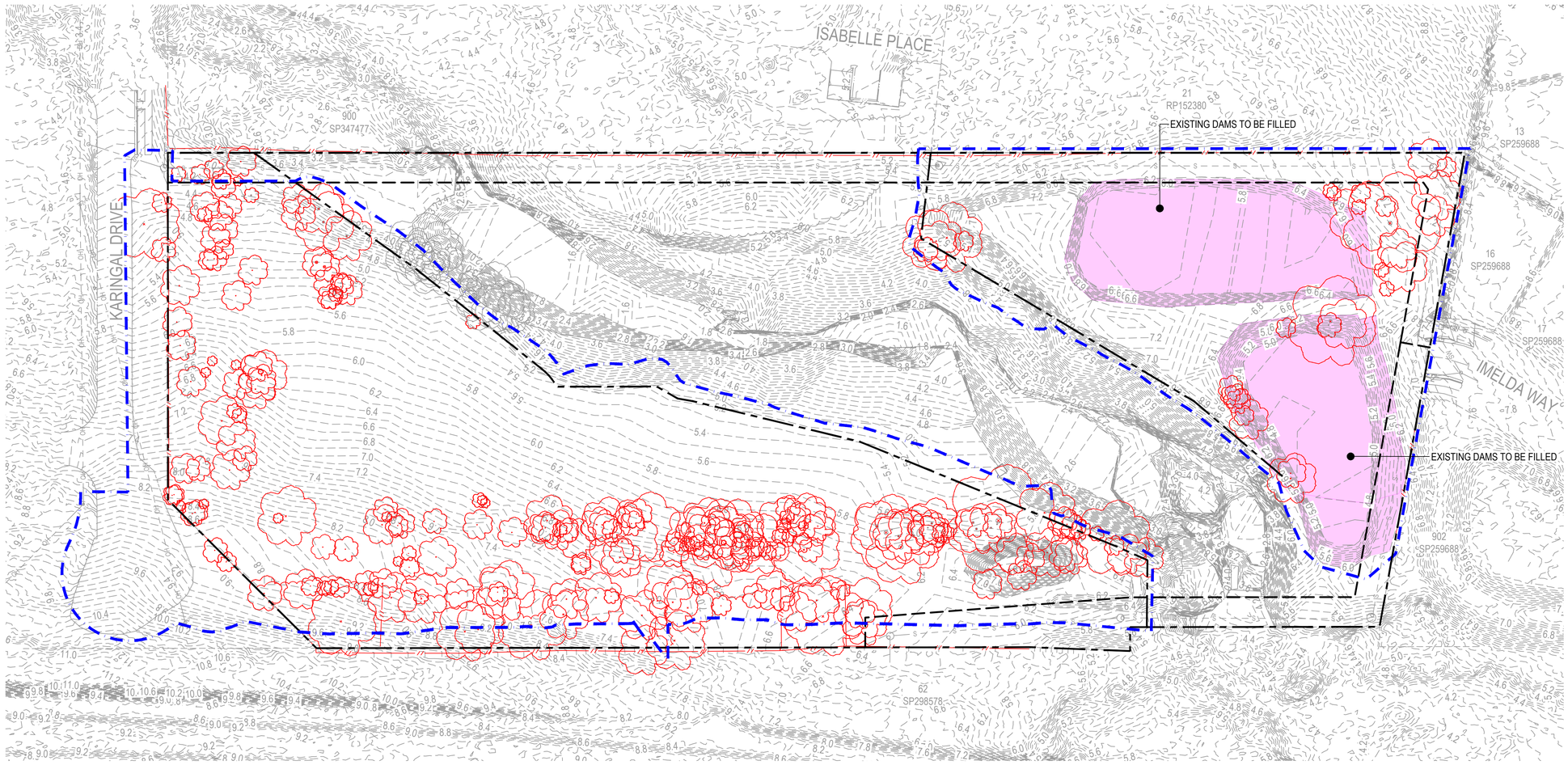
BOS

PREPARED BY

BURCHILLS ENGINEERING SOLUTIONS

GOLD COAST | BRISBANE | TOOWOOMBA
IPSWICH | MORETON BAY
PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:	DATE :
BE200223-00	C1000	A	03-09-26



LEGEND

- PROPERTY BOUNDARY
- LIMIT OF WORKS
- EXISTING EASEMENT
- EXISTING FENCE
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING OVERHEAD ELECTRIC
- EXISTING CHANGE GRADE
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD CONTROL LINE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- EXISTING LOT BOUNDARY
- EXISTING SURFACE CONTOURS
- EXISTING ROAD CONTROL LINE
- SURVEYED EXISTING TREE TO REMAIN
- SURVEYED EXISTING TREE TO BE REMOVED
- EXISTING FENCE TO BE REMOVED

NOTE:
ALL DESIGN/SETOUT INFORMATION SHOWN ON THIS DRAWING IS AVAILABLE IN DIGITAL FORMAT FROM THE OFFICE OF THE SUPERINTENDENT UPON REQUEST BY THE CONTRACTOR.

WARNING: UNDERGROUND SERVICES:
UNDERGROUND SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

GENERAL NOTES:

1. CONTRACT DOCUMENTATION
   ALL DRAWINGS UNDER THIS CONTRACT ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION.
2. SURVEY INFORMATION
   CONTROL SURVEY INFORMATION WILL BE ESTABLISHED ON SITE BY THE PRINCIPAL'S SURVEYOR. SETOUT INFORMATION SHALL NOT BE OBTAINED BY SCALING FROM THESE DRAWINGS.
3. DATUM
   ALL LEVELS SHOWN ON DRAWINGS ARE A.H.D. (DERIVED).
4. EXISTING SURVEY CONTROL STATIONS
   THE CONTRACTOR IS TO ENSURE THAT SURVEY CONTROL STATIONS ARE NOT DAMAGED OR DISTURBED IN ANY WAY BY CONSTRUCTION ACTIVITIES.
5. EXISTING SERVICES
   EXISTING SERVICES LOCATIONS WHERE SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES AND UNDERTAKE A DIAL-BEFORE-YOU-DIG SEARCH TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING SERVICES.
6. SITE ACCESS
   THE CONTRACTOR SHALL GAIN ACCESS TO THE SITE AT LOCATIONS APPROVED BY THE SUPERINTENDENT. FREEDOM OF ACCESS TO OTHER WORK AREAS ON THE SITE SHALL BE MAINTAINED AT ALL TIMES.
7. PROVISION FOR TRAFFIC
   PROVISION FOR TRAFFIC ON LOCAL ROADS IS TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LOCAL AUTHORITY REQUIREMENTS.
8. WORK BOUNDARIES
   THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORK AREAS UNDER THIS CONTRACT. AT NO TIME SHALL THE CONTRACTOR ENTER ADJOINING PROPERTIES OR CONTRACT WORK AREAS ON THE SITE WITHOUT WRITTEN AUTHORISATION FROM THE SUPERINTENDENT.
9. TOPSOIL STRIPPING
   ALL TOPSOIL STRIPPED FROM WORK AREAS SHALL BE STOCKPILED FOR LATER RE-SPREADING TO ALL FOOTPATHS, BATTERS AND ALLOTMENTS.
10. EARTHWORKS (GENERAL)
    ALL FILL MATERIAL PLACED SHALL BE COMPACTED AND TRIMMED TO FINAL EARTHWORKS LEVELS AND PROFILES SHOWN ON THE CONTRACT DRAWINGS AND TESTED IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
    ALL COMPACTION TESTING UNDER THIS CONTRACT IS TO BE CARRIED OUT TO AS3798 LEVEL 1 STANDARD BY A NATA-ACCREDITED TESTING AUTHORITY. CERTIFICATION FOR ALL EARTHWORKS CONSTRUCTION AND TESTING IS TO BE PROVIDED BY A REGISTERED PROFESSIONAL ENGINEER QUEENSLAND (RPEQ) ENGAGED BY THE CONTRACTOR.
11. COMPACTION STANDARDS
    ALL FILL MATERIAL PLACED UNDER THIS CONTRACT SHALL BE COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND CURRENT COUNCIL STANDARDS.
12. STORMWATER DRAINAGE
    LOCATION AND ALIGNMENT OF ALL STORMWATER DRAINLINES IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO EXCAVATION. THE DESIGN SURFACE LEVELS OF MANHOLES AND OTHER STRUCTURES ARE TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT. ALL DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS AND SPECIFICATION.
13. SEWERAGE RETICULATION
    THE DESIGN SURFACE LEVELS OF SEWER MANHOLES ARE TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION. ALL SEWERAGE RETICULATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE (SEQ CODE) AND ASSOCIATED STANDARD DRAWINGS.
14. WATER RETICULATION
    ALL WATER RETICULATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE (SEQ CODE) AND ASSOCIATED STANDARD DRAWINGS.
15. ELECTRICAL RETICULATION
    ALIGNMENTS OF ALL CONDUIT CROSSINGS ARE TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO EXCAVATION. ALL TRENCHING AND CONDUIT WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT CONSULTANT'S DRAWINGS AND ENERGEX SPECIFICATION "UNDERGROUND DISTRIBUTION CONSTRUCTION."
16. TESTING
    ALL TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. TESTING AUTHORITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND COUNCIL STANDARDS.
17. "AS CONSTRUCTED" SURVEY
    "AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE PRINCIPAL'S SURVEYOR AS WORK PROCEEDS.
18. MAINTENANCE OF SITE CONDITION
    AT THE COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND RELEVANT COUNCIL REPRESENTATIVE.
19. REFERENCED DOCUMENTS
    ALL DRAWINGS TO BE READ IN CONJUNCTION WITH:
    - LANDSCAPE ARCHITECTS DRAWINGS
    - ELECTRICAL DRAWINGS
    - VEGETATION MANAGEMENT AND TREE CLEARING REQUIREMENTS
    - HYDRAULIC CONSULTANTS DRAWINGS
    - STRUCTURAL DRAWINGS
20. SURVEY DATA / CONTROL - DETAILED DESIGNS HAVE BEEN CONDUCTED USING SURVEY DATA PROVIDED B Y CAPRICORN SURVEY GROUP.

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VER.	DESCRIPTION	DATE
A	ORIGINAL ISSUE	03-09-26

BURCHILLS ENGINEERING SOLUTIONS
GOLD COAST | BRISBANE | TOOWOOMBA
IPSWICH | MORETON BAY
PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE :
SURVEY, EXISTING FEATURES & DEMOLITION PLAN

PROJECT :
2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
SCALE (metres)
2.5 0 2.5 5 7.5 10 12.5
1 : 500 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C1101	A

SEDIMENT AND EROSION CONTROL NOTES

1. THIS DRAWING HAS BEEN PREPARED AS A GUIDE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MANAGE SITE SEDIMENT AND EROSION CONTROL MEASURES AND DURING THE CONSTRUCTION PERIOD INSTALL ADDITIONAL MEASURES WHERE SCOUR OR SEDIMENT TRANSPORT IS LIKELY TO OCCUR.
2. DELAY CLEARING, GRUBBING AND TOPSOIL STRIPPING UNTIL NECESSARY.
3. COMMENCE WORK ON SITE ONLY AFTER SEDIMENT AND EROSION CONTROL MEASURES ARE IN PLACE.
4. MANAGE SITE ENTRY/EXIT POINTS TO ENSURE SEDIMENT IS NOT TRACKED OFF SITE.
5. SHAKEDOWN AREA: PROVIDES FOR CONSTRUCTION, SERVICE AND STAFF VEHICLES ENTERING PUBLIC ROADS. CONTRACTOR SHALL LOCATE TO SUIT SITE ACTIVITIES. CONSTRUCTED AS 250mm THICK LAYER OF COARSE (150mm -200mm) RIVER GRAVEL OVER A SINGLE LAYER OF HIGH STRENGTH GEOTEXTILE (15m x 5m).
6. THE CONTRACTOR SHALL INSTALL EITHER STORMWATER INLET SEDIMENT TRAPS OR EXCAVATED INLET ARRANGEMENT AT ALL STORMWATER STRUCTURES DURING THE CONSTRUCTION.
7. FILTER ROLLS SHALL BE INSTALLED AT GULLY PITS IMMEDIATELY AFTER GULLY PIT CONSTRUCTION AND LEFT IN PLACE DURING THE MAINTENANCE PERIOD. OPERATION OF ROLLS DURING PERIODS OF HEAVY RAIN TO BE MONITORED TO PREVENT FLOODING AND EROSION DAMAGE ELSEWHERE.
8. ARRANGE FOR EROSION CONTROL MEASURES TO BE INSTALLED AS CLOSE AS POSSIBLE TO THE SOURCE OF EROSION.
9. ENSURE STOCKPILED TOPSOIL AND EARTHWORKS ARE NOT ERODED BY WIND AND STORMWATER RUN-OFF AND ARE PROVIDED WITH A SEDIMENT FENCE AROUND THE LOW SIDE.
10. ERECT SEDIMENT FENCES IF REQUIRED, GENERALLY ALONG THE LOW SIDE OF THE CONSTRUCTION SITE AND ALONG A LINE OF CONSTANT LEVEL. AS AN ALTERNATIVE TO BURYING THE SEDIMENT FENCE LOWER EDGE, THE CONTRACTOR MAY ELECT TO PLACE 200mm OF THE FABRIC ON THE GROUND UP-SLOPE OF THE FENCE AND COVER WITH 100mm MIN LAYER OF AGGREGATE.
11. TO PREVENT EROSION, TOPSOIL AND SEED IMMEDIATELY AFTER COMPLETION OF BULK EARTHWORKS TO FINISHED PROFILES.
12. PROVIDE TURF STRIP ADJACENT TO KERB FOR FULL LENGTH OF NEW ROAD AND TURF STRIP PLACED AT 90° TO KERB EVERY 10m FOR FULL WIDTH OF VERGE.
13. PRIOR TO COMPLETION OF CONSTRUCTION OF PAVEMENT AND SEALING, PLACE SANDBAGS AT 45° TO ARREST SCOUR AGAINST KERB AND CHANNEL AS FOLLOWS:
    ROAD GRADE 0.5% - 5% - 25m MAX CRS.
    5% - 10% - 10m MAX CRS.
    10% - 15% - 15m MAX CRS.
    15% - 20% - 5m MAX CRS.
14. SWEEP EXTERNAL ROADS WHERE SEDIMENT HAS BEEN DROPPED FROM CONSTRUCTION VEHICLES. DO NOT WASH SILT INTO THE STORMWATER SYSTEM.
15. ALL SEDIMENT AND EROSION CONTROL STRUCTURES, TRENCHES ETC. SHALL BE REGULARLY MAINTAINED AND INSPECTED FOR EFFECTIVENESS.

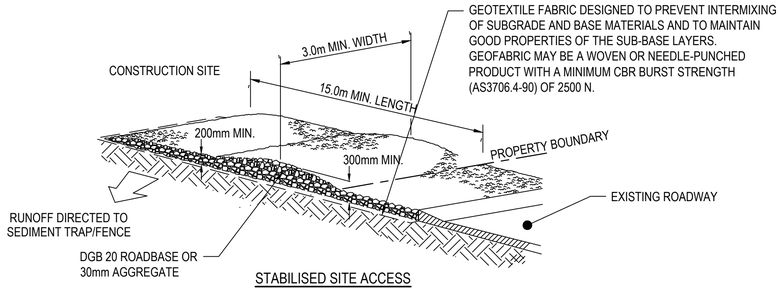
EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCING NOTES

PHASE 1 - SITE ESTABLISHMENT & CLEARING

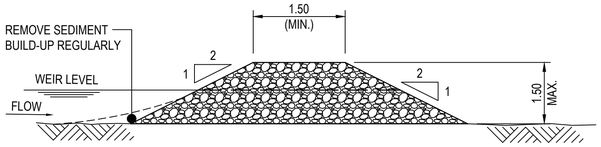
1. ESTABLISH STABILISED ACCESS POINT SITE OFFICES AND PARKING AREAS.
2. DESIGNATE AND CORDON OFF EXCLUSION AREAS.
3. INSTALL SEDIMENT FENCES DOWNSLOPE FROM ALL DISTURBED AREAS AS INDICATED ON THE DRAWINGS (AS A MINIMUM).
4. INSTALL CLEAN WATER DIVERSION DRAINS WITH APPROPRIATE EROSION RESISTANT MATERIALS IN THE LOCATIONS INDICATED ON THE DRAWINGS.
5. INSTALL ALL DIRTY WATER DIVERSIONS AND OR PROPOSED SEDIMENT BASIN ENSURING DE- WATERING FACILITIES ARE AVAILABLE WHEN REQUIRED.
6. STRIP, STOCKPILE AND SEED TOPSOIL AND CARRY OUT ANY OTHER APPROVED VEGETATION CLEARING PROGRESSIVELY.

PHASE 2 - BULK EARTHWORKS

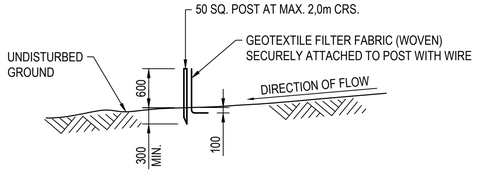
1. CONSTRUCT BULK EARTHWORKS, ENSURING A MINIMAL AMOUNT OF AREA IS DISTURBED AT ANY ONE TIME.
2. APPLY TOPSOIL, SEED AND HYDROMULCH (OR TURF) TO COMPLETED EARTHWORDS AS SOON AS PRACTICAL.
3. INSTALL TURF ALONG BASE OF TABLE DRAINS AND HYDROMULCH / HYDROSEED MIXTURE EITHER SIDE AS SOON AS PRACTICABLE.



STABILISED SITE ACCESS
N.T.S.

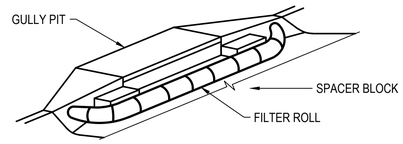


ROCK CHECK DAM TYPICAL DETAIL
N.T.S.

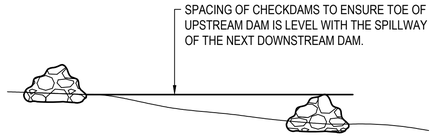


SEDIMENT FENCE
N.T.S.

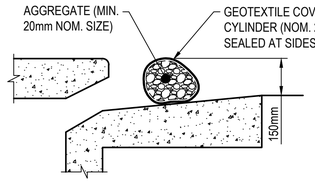
NOTES:
SEDIMENT FENCE TO HAVE TURNOUTS AT 50m MAX. INTERVALS.



ISOMETRIC VIEW

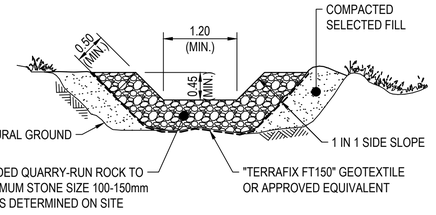


ROCK CHECK DAM TYPICAL LONGITUDINAL SECTION
N.T.S.

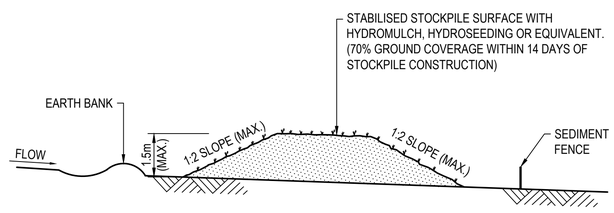


SECTION

FILTER ROLL
N.T.S.



ROCK CHECK DAM TYPICAL CROSS SECTION
N.T.S.



TYPICAL STOCKPILE CONFIGURATION
N.T.S.

NOTES:
1. LOCATE STOCKPILES AT TOP OF CATCHMENT ON FLAT GROUND AND NOT WITHIN 5m OF CONCENTRATED FLOW PATHS.
2. STOCKPILES SHOULD HAVE EARTHBANKS UPSLOPE FOR DIVERSION OF UPSTREAM WATER AROUND STOCKPILE AND SEDIMENT FENCES PLACED 1-2m DOWNSLOPE.

SEDIMENT BASIN CALCULATIONS

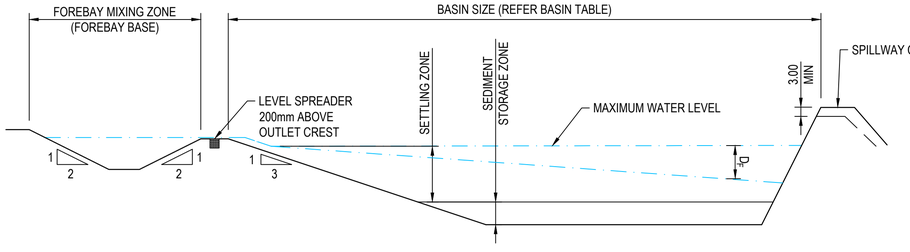
BASIN ID	CATCH AREA (ha)	BATTERS (1 IN X)	L:W RATIO	D_S (m)	$0.5Q_1$ (m^3/s)	LAB SETTLE RATE (m/hr)	FLOC SETTLE DEPTH (m)	ACTUAL V_S (m^3)	MIN SED. STORAGE VOLUME (m^3)	APPROX. REQ SED STORAGE DEPTH (m)	APPROX. LENGTH AT SPILLWAY (m)	APPROX. WIDTH AT SPILLWAY (m)	APPROX. DEPTH AT SPILLWAY (m)	TOTAL VOLUME AT SPILLWAY (m^3)
A1	1.081	3	3	1.40	0.066	0.40	0.60	476	143	0.6	44.6	14.9	2.0	619.4
A2	0.5	3	3	1.40	0.031	0.40	0.60	220	66	0.8	34.3	11.4	2.2	286.5

NOTE:
SEDIMENT BASIN SIZING IS BASED ON THE CONSERVATIVE ASSUMPTION THAT THE FULL CATCHMENT IS DISTURBED AT ONCE. BASIN SIZING MAY BE REVISED AND REDUCED SUBJECT TO THE FINAL CONSTRUCTION STAGING AND METHODOLOGY ADOPTED DURING THE WORKS.

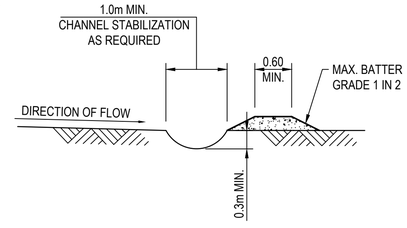
NOTE:
ALL EROSION AND SEDIMENT CONTROL DEVICES CAN BE REMOVED ONCE SITE REACHES 70% SOIL STABILISATION OF GROUND SURFACE WITH TURF AND LANDSCAPING.

NOTE:
REFER IECA STD. DRG. FOR ALL ADDITIONAL SEDIMENT CONTROL DETAILS.

SITE ACCESS CONSTRUCTION NOTES:
1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.



SEDIMENT BASIN TYPE B TYPICAL SECTION
N.T.S.



DIVERSION DRAIN
N.T.S.

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BURCHILLS ENGINEERING SOLUTIONS
GOLD COAST | BRISBANE | TOOWOOMBA
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PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
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COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : EROSION & SEDIMENT CONTROL NOTES & TYPICAL DETAILS

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

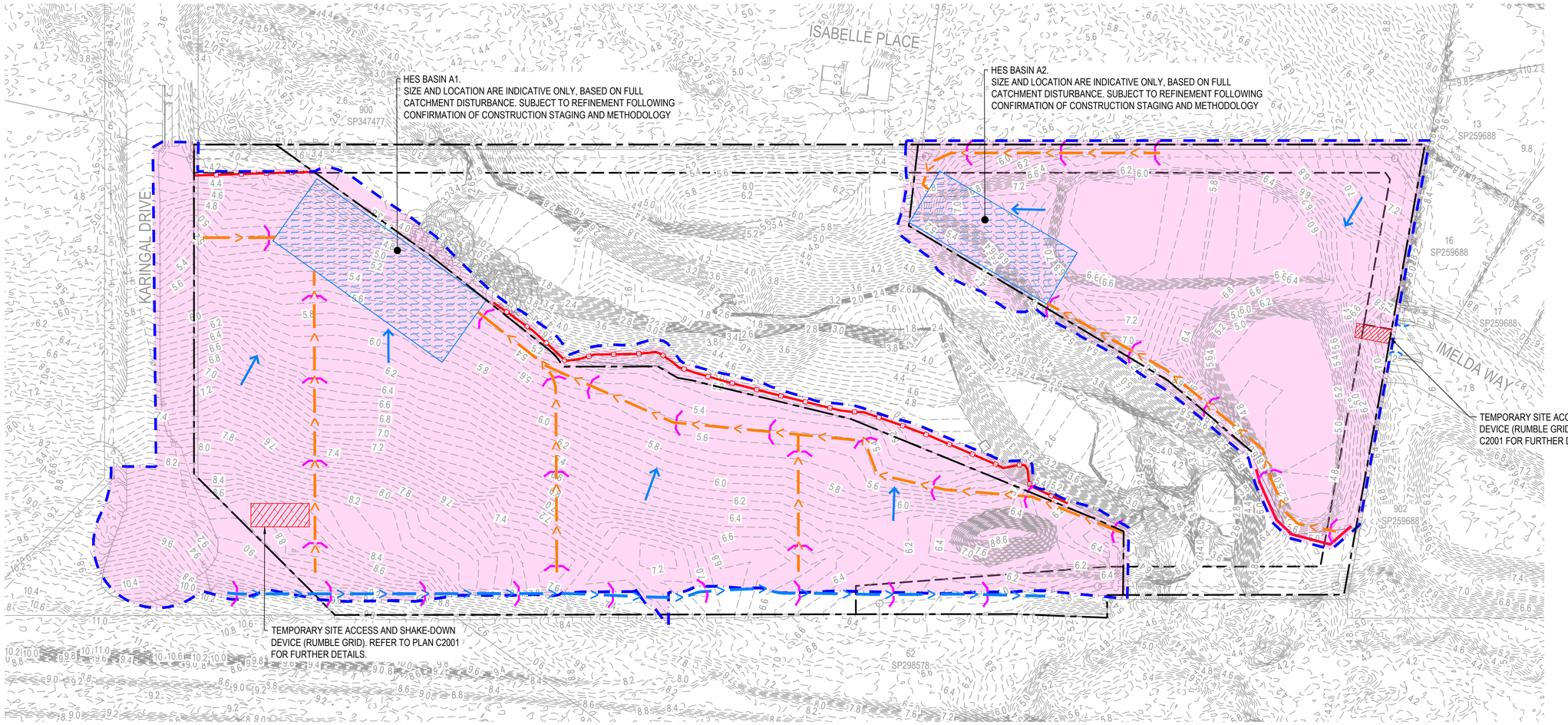
PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :

DEVEL. APPLIC. No. :
DATE : 03-09-26
PROJECT LEADER : .
DESIGNER : BNB
DRAFTSPERSON : BNB
CHECKED : .

APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2001	A



LEGEND

- PROPERTY BOUNDARY
- LIMIT OF WORKS
- EXISTING EASEMENT
- EXISTING FENCE
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING OVERHEAD ELECTRIC
- EXISTING CHANGE GRADE
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD CONTROL LINE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- EXISTING LOT BOUNDARY
- EXISTING SURFACE CONTOURS
- EXISTING ROAD CONTROL LINE
- PROPOSED SEDIMENT FENCE
- DIRTY WATER DIVERSION
- CLEAN WATER DIVERSION
- PROPOSED BUND
- ROCK CHECK DAM
- FLOW ARROW
- PROPOSED INLET PROTECTION
- STABILISED CONSTRUCTION ACCESS
- SEDIMENT BASIN
- AREA OF DISTURBANCE

NOTE:
ALL ENVIRONMENTAL MEASURES INCLUDING VEGETATION PROTECTION AND EROSION AND SEDIMENT CONTROL SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY WORK.

NOTE:
ALL DESIGN/SETOUT INFORMATION SHOWN ON THIS DRAWING IS AVAILABLE IN DIGITAL FORMAT FROM THE OFFICE OF THE SUPERINTENDENT UPON REQUEST BY THE CONTRACTOR.

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UNDERGROUND SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

NOTE:
PROVIDE TEMPORARY SEDIMENT AND SILT BARRIER TO DOWNSTREAM GULLIES WITHIN 100m OF SITE.

NOTE:
FOR SEDIMENT AND EROSION CONTROL NOTES AND TYPICAL DETAILS REFER DRG. C2001.

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VER.	DESCRIPTION	DATE
A	ORIGINAL ISSUE	03-09-26

BURCHILLS ENGINEERING SOLUTIONS
GOLD COAST | BRISBANE | TOOWOOMBA
IPSWICH | MORETON BAY
PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE :
EROSION & SEDIMENT CONTROL PLAN
- SITE ESTABLISHMENT AND CLEARING PHASE

PROJECT :
2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

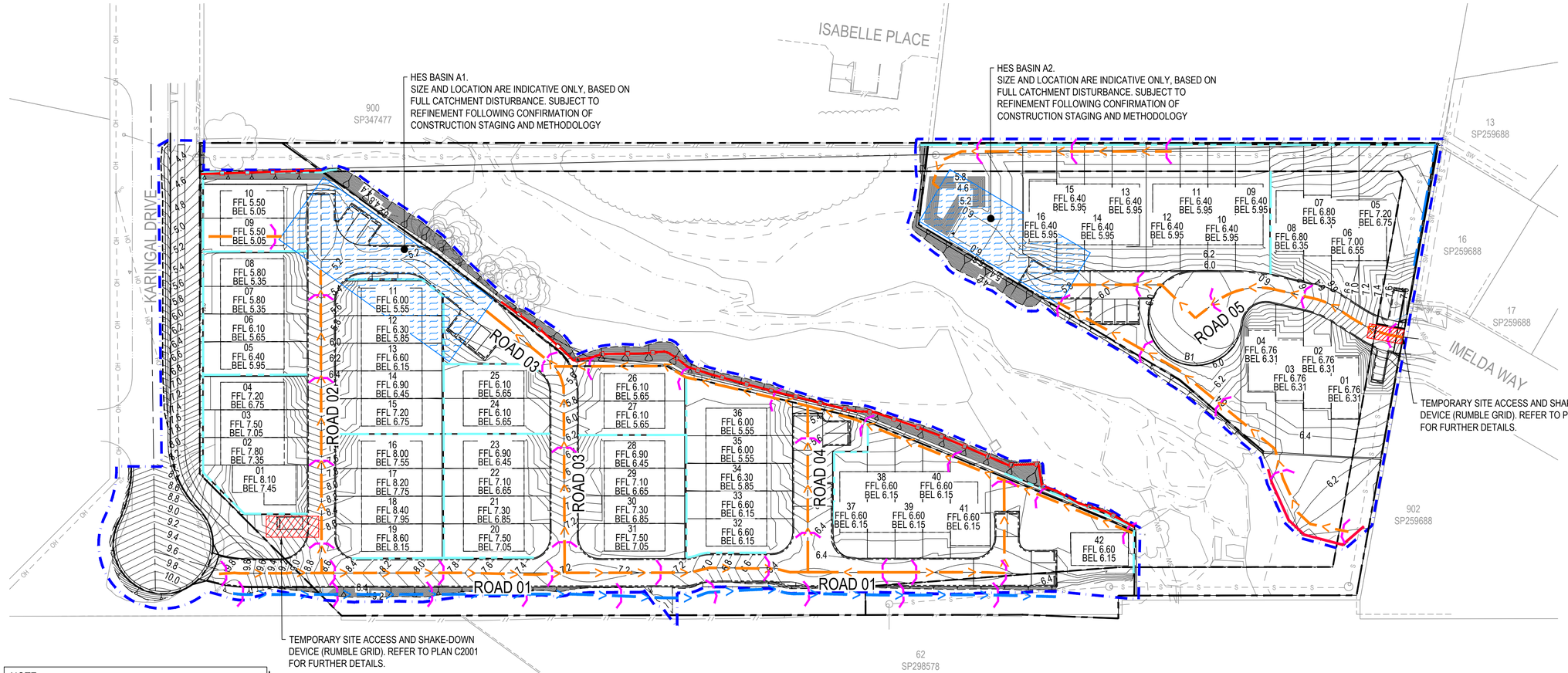
PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
SCALE (metres)
2.5 0 2.5 5 7.5 10 12.5
1 : 500 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2101	A



LEGEND

- PROPERTY BOUNDARY
- LIMIT OF WORKS
- EXISTING EASEMENT
- EXISTING FENCE
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING OVERHEAD ELECTRIC
- EXISTING CHANGE GRADE
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD CONTROL LINE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- EXISTING LOT BOUNDARY
- EXISTING ROAD CONTROL LINE
- 8.0 DESIGN SURFACE CONTOURS
- PROPOSED ROAD CONTROL LINE
- PROPOSED KERB
- PROPOSED RETAINING WALL
- PROPOSED BATTER
- PROPOSED SEDIMENT FENCE
- DIRTY WATER DIVERSION
- CLEAN WATER DIVERSION
- PROPOSED BUND
- ROCK CHECK DAM
- STABILISED CONSTRUCTION ACCESS
- SEDIMENT BASIN

NOTE:
FOR SEDIMENT AND EROSION CONTROL NOTES AND TYPICAL DETAILS REFER DRG. C2001.

NOTE:
PROVIDE TEMPORARY SEDIMENT AND SILT BARRIER TO DOWNSTREAM GULLIES WITHIN 100m OF SITE.

NOTE:
ALL ENVIRONMENTAL MEASURES INCLUDING VEGETATION PROTECTION AND EROSION AND SEDIMENT CONTROL SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY WORK.

NOTE:
ALL DESIGN/SETOUT INFORMATION SHOWN ON THIS DRAWING IS AVAILABLE IN DIGITAL FORMAT FROM THE OFFICE OF THE SUPERINTENDENT UPON REQUEST BY THE CONTRACTOR.

WARNING: UNDERGROUND SERVICES:
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PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : EROSION & SEDIMENT CONTROL PLAN - BULK EARTHWORKS PHASE

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

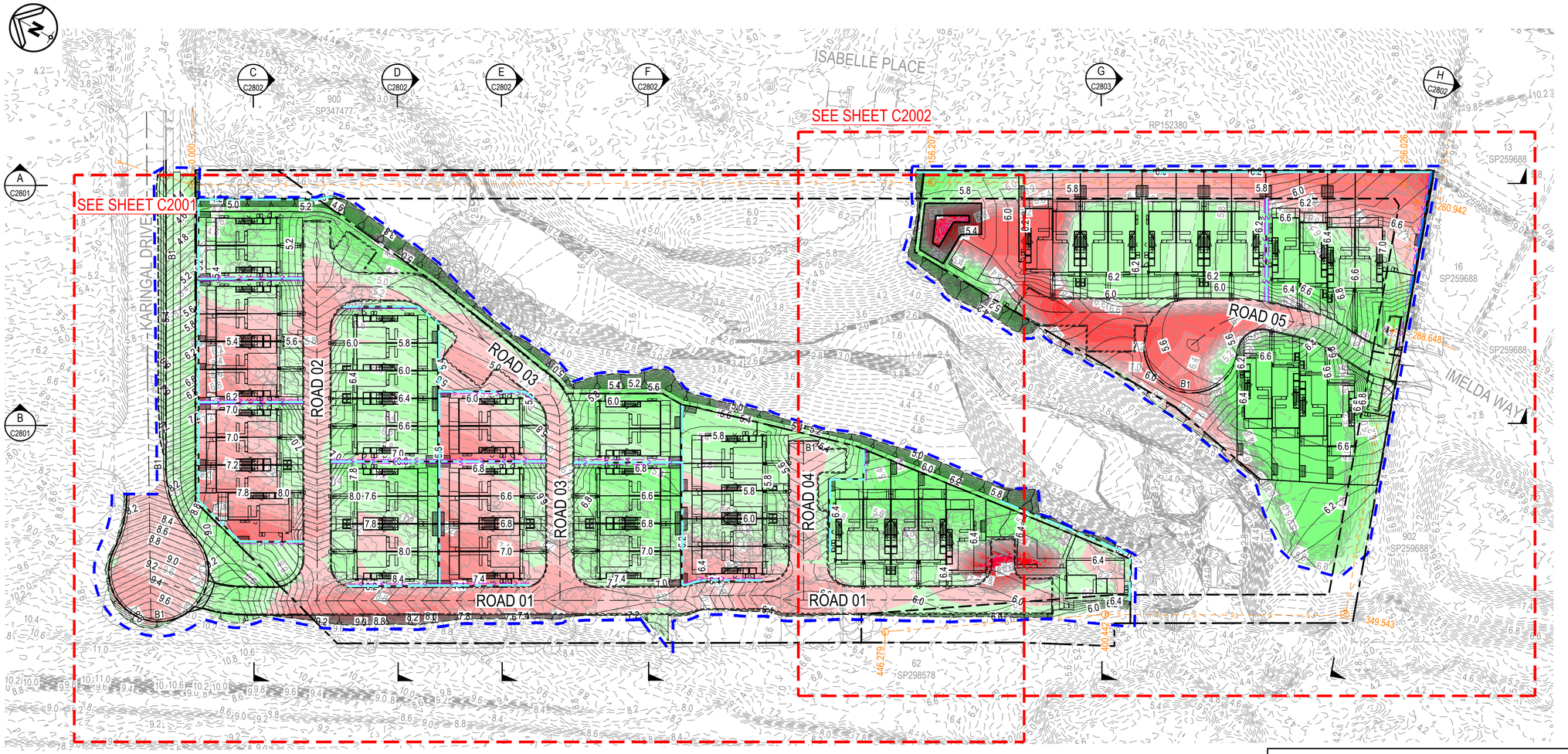
PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
SCALE (metres)
2.5 0 2.5 5 7.5 10 12.5
1 : 500 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2201	A



LEGEND

- PROPERTY BOUNDARY
- LIMIT OF WORKS
- EXISTING EASEMENT
- EXISTING FENCE
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING OVERHEAD ELECTRIC
- EXISTING CHANGE GRADE
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD CONTROL LINE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- EXISTING LOT BOUNDARY
- EXISTING SURFACE CONTOURS
- EXISTING ROAD CONTROL LINE
- EARTHWORK SURFACE CONTOUR
- PROPOSED ROAD CONTROL LINE
- PROPOSED EDGE RESTRAINT TYPE ER2
- PROPOSED BARRIER KERB TYPE B1
- PROPOSED RETAINING WALL
- PROPOSED BATTER
- PROPOSED CUTBACK
- PROPOSED TEMPORARY SWALE

EARTHWORKS DEPTH ANALYSIS LEGEND

LOWER		UPPER	COLOUR
-3.0m	TO	-2.75m	
-2.75m	TO	-2.50m	
-2.50m	TO	-2.25m	
-2.25m	TO	-2.0m	
-2.0m	TO	-1.75m	
-1.75m	TO	-1.50m	
-1.50m	TO	-1.25m	
-1.25m	TO	-1.0m	
-1.0m	TO	-0.75m	
-0.75m	TO	-0.50m	
-0.5m	TO	-0.25m	
-0.25m	TO	0.0m	
0.0m	TO	0.25m	
0.25m	TO	0.50m	
0.50m	TO	0.75m	
0.75m	TO	1.0m	
1.0m	TO	1.25m	
1.25m	TO	1.50m	
1.50m	TO	1.75m	
1.75m	TO	2.0m	
2.0m	TO	2.25m	
2.25m	TO	2.50m	
2.50m	TO	2.75m	
2.75m	TO	3.0m	

GENERAL EARTHWORKS NOTES:

1. ALL EARTHWORKS CONSTRUCTION UNDER THIS CONTRACT IS TO BE PERFORMED STRICTLY IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY THE PRINCIPAL'S GEOTECHNICAL CONSULTANT.
2. ALL COMPACTION TESTING UNDER THIS CONTRACT IS TO BE CARRIED OUT TO AS3798 LEVEL 1 STANDARD BY A NATA-ACCREDITED TESTING AUTHORITY. CERTIFICATION FOR ALL EARTHWORKS CONSTRUCTION AND TESTING IS TO BE PROVIDED BY A REGISTERED PROFESSIONAL ENGINEER QUEENSLAND (RPEQ) ENGAGED BY THE CONTRACTOR.
3. ALL DESIGN LEVELS SHOWN ON THE CONTRACT DRAWINGS ARE FINISHED SURFACE LEVELS FOLLOWING TOPSOIL REPLACEMENT.
4. ALL STRUCTURAL FILL MATERIAL PLACED SHALL BE COMPACTED TO THE FOLLOWING MINIMUM DENSITY IN ACCORDANCE WITH THE SPECIFICATION AND THE GEOTECHNICAL REPORT:
   a) 95% DENSITY RATIO FOR GENERAL STRUCTURAL FILL (COHESIVE MATERIAL)
   b) 98% DENSITY RATIO FOR THE TOP 300mm DEPTH BELOW PAVEMENT SUBGRADE LEVEL
   (COHESIVE MATERIAL)
5. FILL MATERIAL USED IN WETLAND BATTERS IS TO BE STIFF TO HARD CLAYS OR OTHER SUITABLE MATERIAL AS DIRECTED BY GEOTECHNICAL ENGINEER.
6. ALL EARTHWORKS BATTERS STEEPER THAN 1 IN 4 ARE TO BE LANDSCAPED IN ACCORDANCE WITH LANDSCAPE ARCHITECTS PLANS.
7. EXISTING DAMS ARE TO BE DE-WATERED AND CLEANED-OUT. ALL UNSUITABLE OR SATURATED MATERIAL IS TO BE REMOVED AND REPLACED WITH SELECTED ON-SITE STRUCTURAL FILL MATERIAL AND COMPACTED AS SPECIFIED.
8. PROVIDE CONDITION SURVEY OF ADJACENT RESIDENTIAL BUILDINGS FOR ALL PROPERTIES LOCATED WITHIN NOMINAL 100m OF EARTHWORKS OPERATIONS. CONDITION SURVEY TO BE UNDERTAKEN BY QUALIFIED PERSONNEL WITH BUILDING EXPERIENCE.

RETAINING WALL NOTES:

1. RETAINING WALLS, FOOTINGS, DRAINAGE, BACKFILL AND CONNECTION OF AGGREGATE DRAINS TO STORMWATER DRAINAGE SYSTEM TO BE DESIGNED AND CONSTRUCTED BY THE CONTRACTOR AND CERTIFIED BY AN SUITABLY QUALIFIED RPEQ.
2. THESE DRAWINGS IDENTIFY SURFACE PROFILES, RETAINING WALL LOCATIONS, AND SETOUT INFORMATION ONLY. REFER TO CONTRACTOR SUPPLIED DRAWINGS FOR RPEQ STRUCTURAL DETAILS, WALL MATERIALS AND COMPACTION SPECIFICATIONS AND CONTRACTIBILITY INFORMATION.
3. RETAINING WALL DESIGN ENGINEER TO PROVIDE RPEQ FORM 15 STRUCTURAL CERTIFICATE INCLUDING GEOTECHNICAL GLOBAL STABILITY CERTIFICATION BY GEOTECHNICAL ENGINEER. WALL DESIGN TO ASSUME SURCHARGE LOADING BEHIND WALL. DESIGN TO BE IN ACCORDANCE WITH AS4678 INCLUDING ALL REQUIRED DESIGN LOAD CASES AND COMBINATIONS.
4. RETAINING WALLS TO BE DESIGNED TO CONSIDER ALL LOADS INCLUDING CONSTRUCTION LOADS AND OPERATIONAL LOADS.
5. ANY GEOTECHINCAL INFORMATION PROVIDED BY THE PRINCIPAL OR THE SUPERINTENDENT SHALL BE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR AND THE RETAINING WALL DESIGN ENGINEER SHOULD SATISFY THEMSELVES OF THE DESIGN SOIL PARAMETERS AND UNDERTAKE AND ADDITIONAL GEOTECHNICAL INVESTIGATION DEEMED NECESSARY BY THE DESIGN ENGINEER.
6. THE CONTRACTOR SHALL ENSURE THAT ANY CONFLICT BETWEEN THESE PROJECT DRAWINGS AND THE RETAINING WALL DRAWINGS PREPARED BY THE RETAINING WALL DESIGN ENGINEER IS RESOLVED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCING.
7. A COPY OF THE RETAINING WALL DESIGN DRAWINGS, INCLUDING CONNECTION OF AGGREGATE DRAINS TO THE STORMWATER DRAINAGE SYSTEM, DESIGN PARAMETERS AND CERTIFICATION BE PROVIDED TO THE SUPERINTENDENT AT THE PRE-START MEETING PRIOR TO CONSTRUCTION COMMENCING.
8. ANY RETAINING WALL AND BATTER EXCEEDING THE HEIGHT OF 1.5m, THE CONTRACTOR SHALL UNDERTAKE A THIRD PARTY RPEQ REVIEW OF THE PROPOSED DESIGN.

TYPICAL EARTHWORKS SEQUENCE NOTES:

1. CONSTRUCT DIVERSION DRAINS AS DIRECTED TO DIVERT SITE RUNOFF AWAY FROM CONSTRUCTION AREAS. ESTABLISH DE-WATERING CONTROLS TO ENSURE THAT THE CONSTRUCTION AREAS REMAIN FREE OF SURFACE WATER AND PONDING.
2. FOLLOWING COMPLETION OF CLEARING OPERATIONS AND REMOVAL OF RESIDUAL VEGETATION AND DEBRIS, STRIP TOPSOIL TO A NOMINAL 200mm DEPTH AND PLACE IN TEMPORARY STOCKPILES IN LOCATIONS APPROVED BY THE SUPERINTENDENT.
3. PROOF-ROLL AND COMPACT THE PROPOSED FILL AREAS FOLLOWING TOPSOIL STRIPPING, TO THE SATISFACTION OF THE SUPERINTENDENT.
4. ANY STRIPPED AREAS WHICH DEMONSTRATE EXCESSIVE MOVEMENT OR DO NOT IMPROVE SUFFICIENTLY UNDER PROOF-ROLLING ARE TO BE REMOVED, REPLACED WITH APPROVED SITE MATERIAL AND COMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
5. ANY UNSUITABLE MATERIAL ENCOUNTERED, INCLUDING SILTY MATERIAL AND UN-CONTROLLED FILL IS TO BE EXCAVATED TO THE EXTENTS AND DEPTHS NOMINATED BY THE PRINCIPAL'S GEOTECHNICAL CONSULTANT, REMOVED TO NON-STRUCTURAL FILL AREAS OR TAKEN OFF-SITE AS DIRECTED AND REPLACED WITH APPROVED, COMPACTED FILL MATERIAL.
6. PLACE STRUCTURAL FILL MATERIAL FROM SITE EXCAVATIONS TO NOMINATED SITE FILL AREAS, INCLUDING BENCHING AND COMPACTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND TRIMMING AND FINAL PROFILING OF BATTERS.

NOTE:
ALL RETAINING WALL AGGREGATE PIPES TO BE CONNECTED TO THE STORMWATER DRAINAGE SYSTEM.

NOTE:
THE SEWERAGE INFRASTRUCTURE SHOWN ON THIS PLAN HAS BEEN ACCURATELY SUPERIMPOSED USING SURVEY DATA OBTAINED VIA SURVEY PLAN TITLE, DRAWING NUMBER 25218-2 Rev.A BY MICHEL GROUP.

CONCEPT BULK EARTHWORKS SUMMARY

STRUCTURAL FILLING

AREA	NETT SOLID FILL
OVERALL FILLING	5,000 cu.m.

EXCAVATION

AREA	NETT CUT
OVERALL EXCAVATION	2,860 cu.m.

SUMMARY:
TOTAL MATERIAL ON LEADS (CUT TO FILL) = 2,860 cu.m.
i.e. 5,000 cu.m. - 2,860 cu.m. = 2,140 c.um. (IMPORT REQUIRED)

- ALLOWANCE FOR 450mm FOR BUILDING SLAB THICKNESS
- ALLOWANCE FOR 325mm FOR ROAD PAVEMENT THICKNESS
- ALLOWANCE FOR 300mm FOR TOPSOIL TO COURTYARDS
- ALLOWANCE FOR 100mm TOPSOIL RESPREAD TO FOR LANDSCAPE AREAS
- ALLOWANCE FOR 1m FOR BIO BASIN SPOIL
- NO ALLOWANCE HAS BEEN MADE FOR:
  - SERVICE TRENCH SPOIL
  - COMPACTION FACTORS
  - TOPSOIL STRIPPING WITHIN THE EARTHWORKS AREA

NOTE:
RETAINING WALL DESIGN, CONSTRUCTION, SUPERVISION AND CERTIFICATION TO BE PROVIDED BY SPECIALIST SUB-CONTRACTOR.

NOTE:
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WARNING: UNDERGROUND SERVICES:
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A	ORIGINAL ISSUE	03-09-26

BURCHILLS ENGINEERING SOLUTIONS
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IPSWICH | MORETON BAY
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FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : OVERALL BULK EARTHWORKS LAYOUT PLAN

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
SCALE (metres)
2.5 0 2.5 5 7.5 10 12.5
1 : 500 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2601	A

CONCEPT BULK EARTHWORKS SUMMARY

STRUCTURAL FILLING	
AREA	NETT SOLID FILL
OVERALL FILLING	2,488 cu.m.

EXCAVATION	
AREA	NETT CUT
OVERALL EXCAVATION	1,410 cu.m.

SUMMARY:
TOTAL MATERIAL ON LEADS (CUT TO FILL) = 1,410 cu.m.
i.e. 2,488 cu.m. - 1,410 cu.m. = 1,078 cu.m. (IMPORT REQUIRED)

- ALLOWANCE FOR 450mm FOR BUILDING SLAB THICKNESS
- ALLOWANCE FOR 325mm FOR ROAD PAVEMENT THICKNESS
- ALLOWANCE FOR 300mm FOR TOPSOIL TO COURTYARDS
- ALLOWANCE FOR 100mm TOPSOIL RESPREAD TO FOR LANDSCAPE AREAS
- NO ALLOWANCE HAS BEEN MADE FOR:
  - SERVICE TRENCH SPOIL
  - COMPACTION FACTORS
  - TOPSOIL STRIPPING WITHIN THE EARTHWORKS AREA

NOTE:
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EARTHWORKS DEPTH ANALYSIS LEGEND

LOWER		UPPER	COLOUR
-3.0m	TO	-2.75m	
-2.75m	TO	-2.50m	
-2.50m	TO	-2.25m	
-2.25m	TO	-2.0m	
-2.0m	TO	-1.75m	
-1.75m	TO	-1.50m	
-1.50m	TO	-1.25m	
-1.25m	TO	-1.0m	
-1.0m	TO	-0.75m	
-0.75m	TO	-0.50m	
-0.5m	TO	-0.25m	
-0.25m	TO	0.0m	
0.0m	TO	0.25m	
0.25m	TO	0.50m	
0.50m	TO	0.75m	
0.75m	TO	1.0m	
1.0m	TO	1.25m	
1.25m	TO	1.50m	
1.50m	TO	1.75m	
1.75m	TO	2.0m	
2.0m	TO	2.25m	
2.25m	TO	2.50m	
2.50m	TO	2.75m	
2.75m	TO	3.0m	

LEGEND

- PROPERTY BOUNDARY
- LIMIT OF WORKS
- EXISTING EASEMENT
- EXISTING FENCE
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING OVERHEAD ELECTRIC
- EXISTING CHANGE GRADE
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD CONTROL LINE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- EXISTING LOT BOUNDARY
- EXISTING SURFACE CONTOURS
- EXISTING ROAD CONTROL LINE
- EARTHWORK SURFACE CONTOUR
- PROPOSED ROAD CONTROL LINE
- PROPOSED EDGE RESTRAINT TYPE ER2
- PROPOSED BARRIER KERB TYPE B1
- PROPOSED RETAINING WALL
- PROPOSED BATTER
- PROPOSED CUTBACK
- PROPOSED TEMPORARY SWALE

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EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : BULK EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

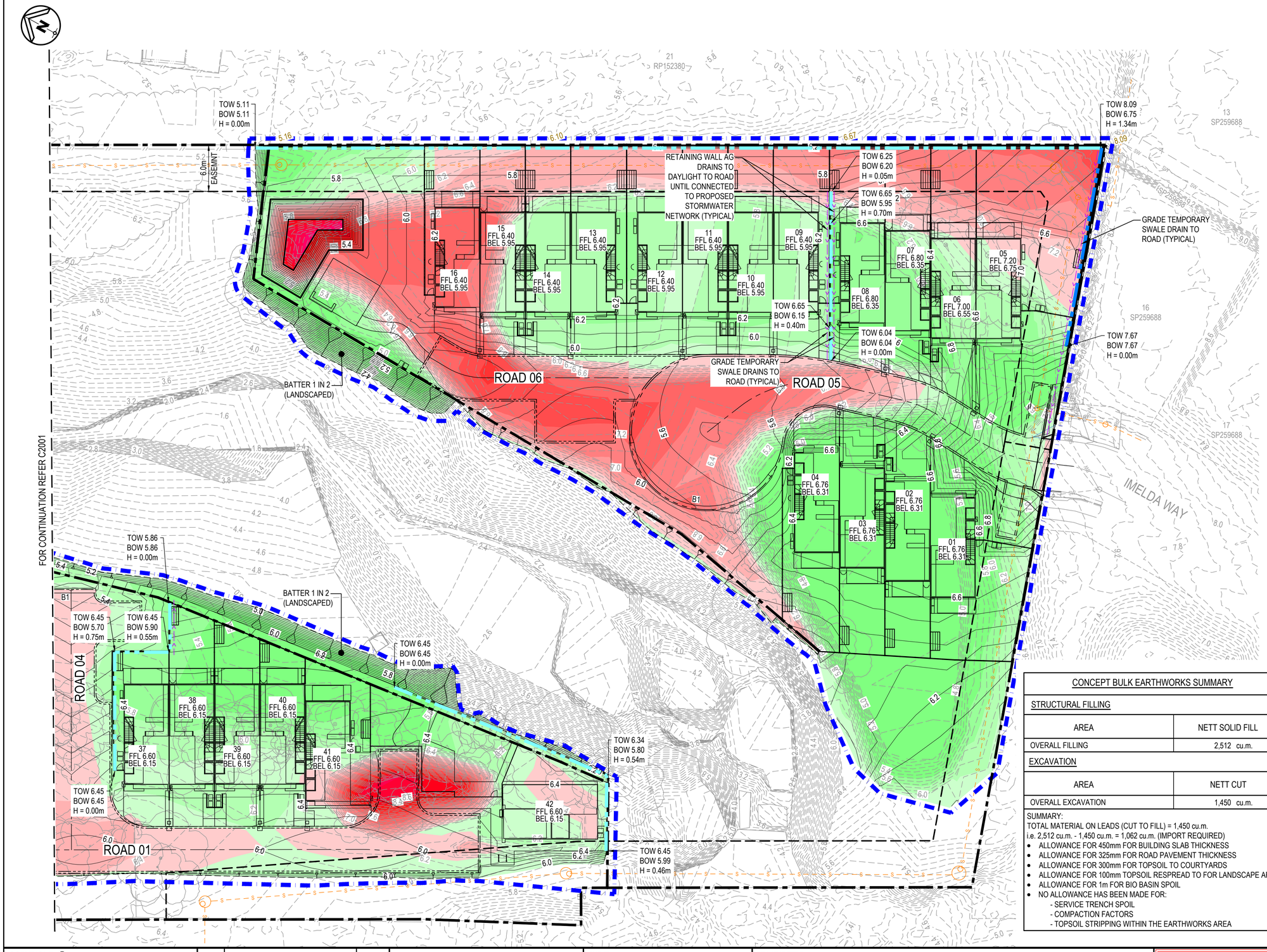
PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) : SCALE (metres) 5 0 5 10 — 1 : 250 (FULL SIZE)

DEVEL. APPLIC. No. : | DATE : 03-09-26
PROJECT LEADER : - | DESIGNER : BNB
DRAFTSPERSON : BNB | CHECKED : -

APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.: BE200223-00 | DRAWING No. : C2602 | VERSION: A



LEGEND

- PROPERTY BOUNDARY
- LIMIT OF WORKS
- EXISTING EASEMENT
- EXISTING FENCE
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING OVERHEAD ELECTRIC
- EXISTING CHANGE GRADE
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD CONTROL LINE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- EXISTING LOT BOUNDARY
- EXISTING SURFACE CONTOURS
- EXISTING ROAD CONTROL LINE
- EXISTING SURFACE SPOT LEVEL
- EARTHWORK SURFACE CONTOUR
- PROPOSED ROAD CONTROL LINE
- PROPOSED EDGE RESTRAINT TYPE ER2
- PROPOSED BARRIER KERB TYPE B1
- PROPOSED RETAINING WALL
- PROPOSED RETAINING WALL WITH CUT OFF DRAIN
- PROPOSED BATTER
- PROPOSED CUTBACK
- PROPOSED TEMPORARY SWALE

EARTHWORKS DEPTH ANALYSIS LEGEND

LOWER		UPPER	COLOUR
-3.0m	TO	-2.75m	
-2.75m	TO	-2.50m	
-2.50m	TO	-2.25m	
-2.25m	TO	-2.0m	
-2.0m	TO	-1.75m	
-1.75m	TO	-1.50m	
-1.50m	TO	-1.25m	
-1.25m	TO	-1.0m	
-1.0m	TO	-0.75m	
-0.75m	TO	-0.50m	
-0.5m	TO	-0.25m	
-0.25m	TO	0.0m	
0.0m	TO	0.25m	
0.25m	TO	0.50m	
0.50m	TO	0.75m	
0.75m	TO	1.0m	
1.0m	TO	1.25m	
1.25m	TO	1.50m	
1.50m	TO	1.75m	
1.75m	TO	2.0m	
2.0m	TO	2.25m	
2.25m	TO	2.50m	
2.50m	TO	2.75m	
2.75m	TO	3.0m	

CONCEPT BULK EARTHWORKS SUMMARY

STRUCTURAL FILLING

AREA	NETT SOLID FILL
OVERALL FILLING	2,512 cu.m.

EXCAVATION

AREA	NETT CUT
OVERALL EXCAVATION	1,450 cu.m.

SUMMARY:
TOTAL MATERIAL ON LEADS (CUT TO FILL) = 1,450 cu.m.
i.e. 2,512 cu.m. - 1,450 cu.m. = 1,062 cu.m. (IMPORT REQUIRED)

- ALLOWANCE FOR 450mm FOR BUILDING SLAB THICKNESS
- ALLOWANCE FOR 325mm FOR ROAD PAVEMENT THICKNESS
- ALLOWANCE FOR 300mm FOR TOPSOIL TO COURTYARDS
- ALLOWANCE FOR 100mm TOPSOIL RESPREAD TO FOR LANDSCAPE AREAS
- ALLOWANCE FOR 1m FOR BIO BASIN SPOIL
- NO ALLOWANCE HAS BEEN MADE FOR:
  - SERVICE TRENCH SPOIL
  - COMPACTION FACTORS
  - TOPSOIL STRIPPING WITHIN THE EARTHWORKS AREA

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VER.	DESCRIPTION	DATE
A	ORIGINAL ISSUE	03-09-26

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IPSWICH | MORETON BAY
PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : BULK EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

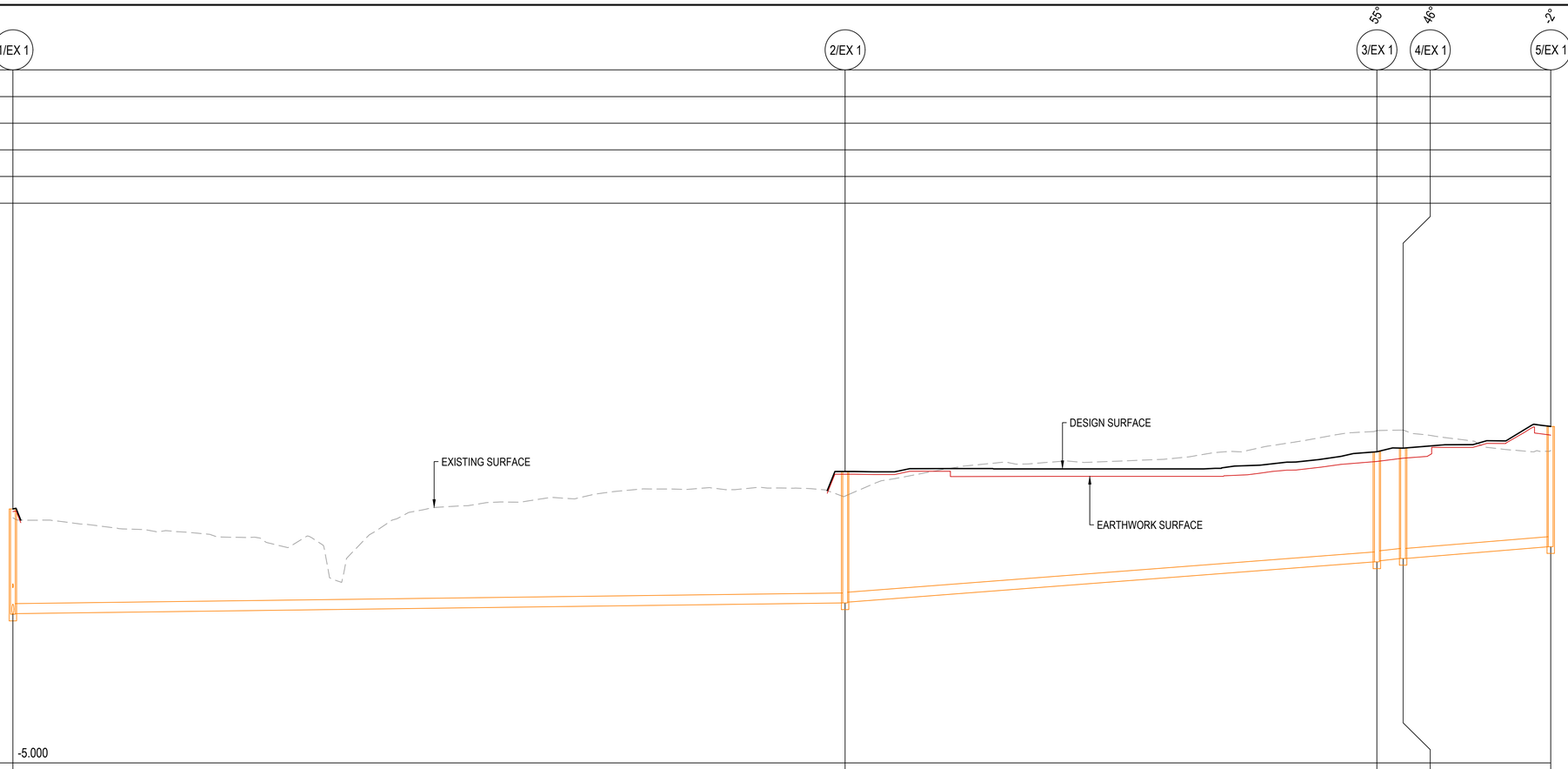
PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
SCALE (metres) 5 0 5 10
1 : 250 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

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PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2603	A



MAINTENANCE HOLE/SHAFT No.	1/EX 1		2/EX 1		3/EX 1	4/EX 1	5/EX 1	
MH/MS COVER TYPE								
MH/MS TYPE								
BRANCH DROP TYPE								
BRANCH LINE No.								
PROPERTY CONNECTION TYPE								
DATUM	-5.000							
PROP. DESCRIPTION			EXISTING LOT					
PIPE NOMINAL DIAMETER (DN) TYPE, CLASS	375Ø uPVC		375Ø uPVC		375Ø uPVC	375Ø uPVC		
GRADE (1 IN XX)	1 in 391		1 in 66.11		1 in 54.63	1 in 62.97		
LENGTH	156.207		99.819		4.917	27.705		
EMBEDMENT TYPE								
DEPTH OF INVERT BELOW FSL	3.948	3.928	4.932	4.902	4.134	4.094	4.139	4.139	4.512
INVERT LEVEL (IL)	0.580	0.600	1.000	1.030	2.540	2.580	2.670	2.670	3.110
FINISHED SURFACE LEVEL (FSL)	4.528		5.932		6.674	6.809			7.622
EXISTING SURFACE LEVEL (ESL)	4.199		5.011		7.465	7.487			6.719
CHAINAGE (CH)	0.000		156.207		256.026	260.942			288.648
	E530136.663 N6921660.566		E530212.993 N6921524.278		E530261.332 N6921436.945	E530259.175 N6921432.526			E530232.842 N6921423.916

EX 1

EXISTING SEWER ON SECTION A-A

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FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : BULK EARTHWORKS SECTIONS - SHEET 1 OF 6

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

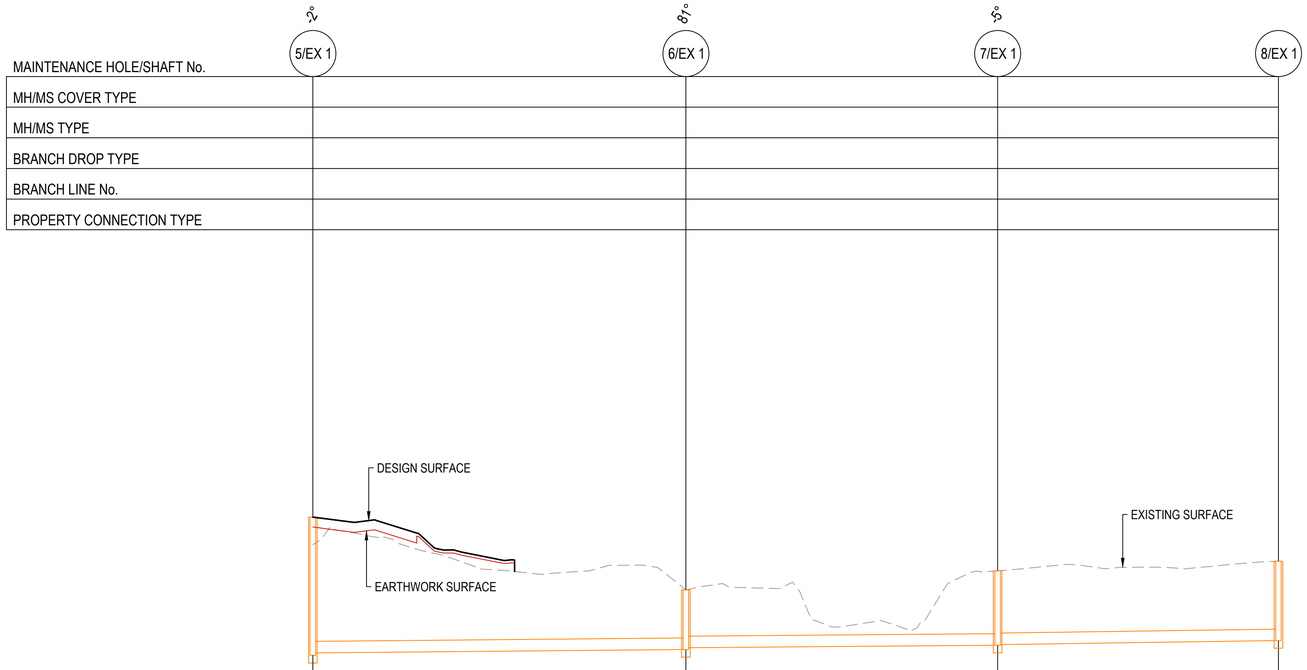
PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
VERTICAL SCALE 1:100 (meters)
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5 0 5 10 15 20 25
(FULL SIZE)
HORIZONTAL SCALE 1:500 (meters)

DEVEL. APPLIC. No. :		DATE :	03-09-26
PROJECT LEADER : -		DESIGNER :	BNB
DRAFTSPERSON :	BNB	CHECKED :	-

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BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2801	A



MAINTENANCE HOLE/SHAFT No.	5/EX 1		6/EX 1		7/EX 1		8/EX 1
MH/MS COVER TYPE							
MH/MS TYPE							
BRANCH DROP TYPE							
BRANCH LINE No.							
PROPERTY CONNECTION TYPE							
DATUM	-4.000						
PROP. DESCRIPTION	EXISTING LOT						
PIPE NOMINAL DIAMETER (DN) TYPE, CLASS	375Ø uPVC		375Ø uPVC		375Ø uPVC		
GRADE (1 IN XX)	1 in 554		1 in 636		1 in 353		
LENGTH	60.895		50.899		45.837		
EMBEDMENT TYPE							
DEPTH OF INVERT BELOW FSL	4.512	4.432	1.946	1.886	2.430	2.410	2.592
INVERT LEVEL (IL)	3.110	3.190	3.300	3.360	3.440	3.460	3.590
FINISHED SURFACE LEVEL (FSL)	7.622		5.246		5.870		6.182
EXISTING SURFACE LEVEL (ESL)	6.719		5.246		5.870		6.182
CHAINAGE (CH)	288.648		349.543		400.442		446.279
	E530232.842 N6921423.916		E530175.514 N6921403.379		E530150.962 N6921447.965		E530125.649 N6921486.179

EX 1

EXISTING SEWER ON SECTION H-H

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FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : BULK EARTHWORKS SECTIONS - SHEET 2 OF 6

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

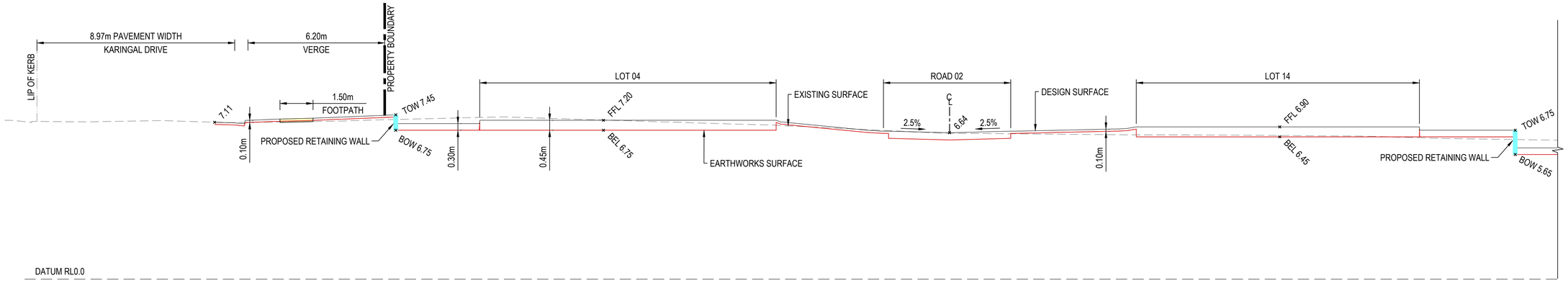
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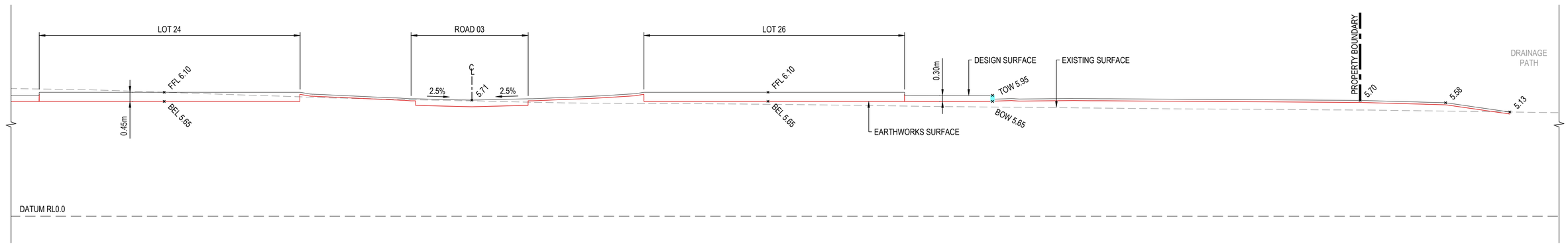
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VERTICAL SCALE 1:100 (meters)
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5 0 5 10 15 20 25
(FULL SIZE)
HORIZONTAL SCALE 1:500 (meters)

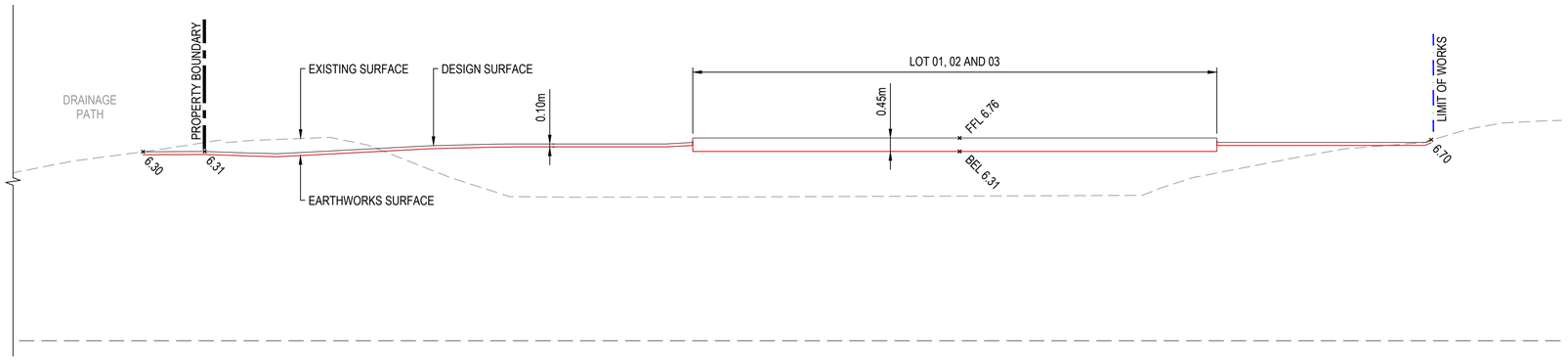
DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

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BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2802	A







LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- EARTHWORKS SURFACE
- PROPOSED RETAINING WALL

B C2601 SECTION
SCALE 1:100

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IPSWICH | MORETON BAY
PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : BULK EARTHWORKS SECTIONS - SHEET 3 OF 6

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

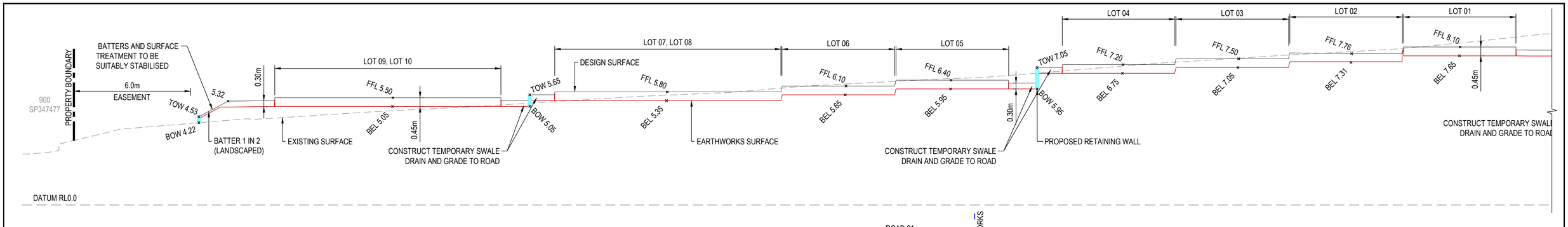
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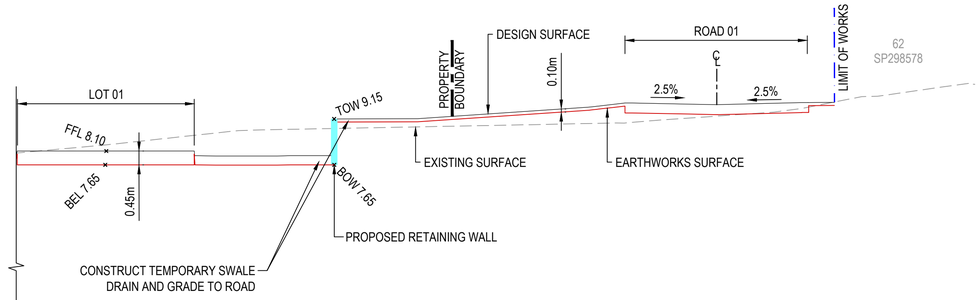
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1 : 100 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

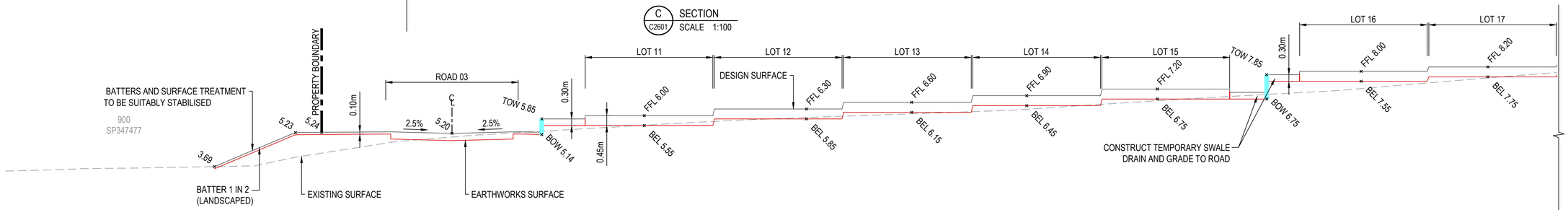
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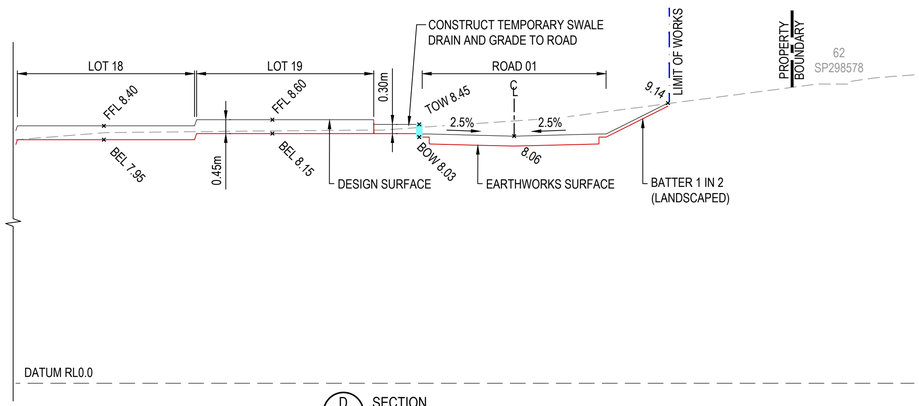
PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2803	A





C SECTION
C2601 SCALE 1:100





D SECTION
C2601 SCALE 1:100

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- EARTHWORKS SURFACE
- PROPOSED RETAINING WALL

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PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : BULK EARTHWORKS SECTIONS - SHEET 4 OF 6

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

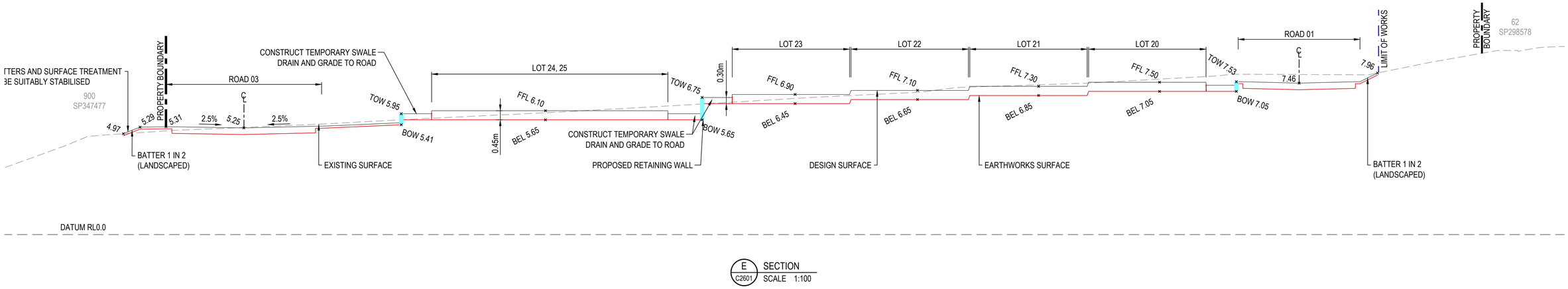
PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

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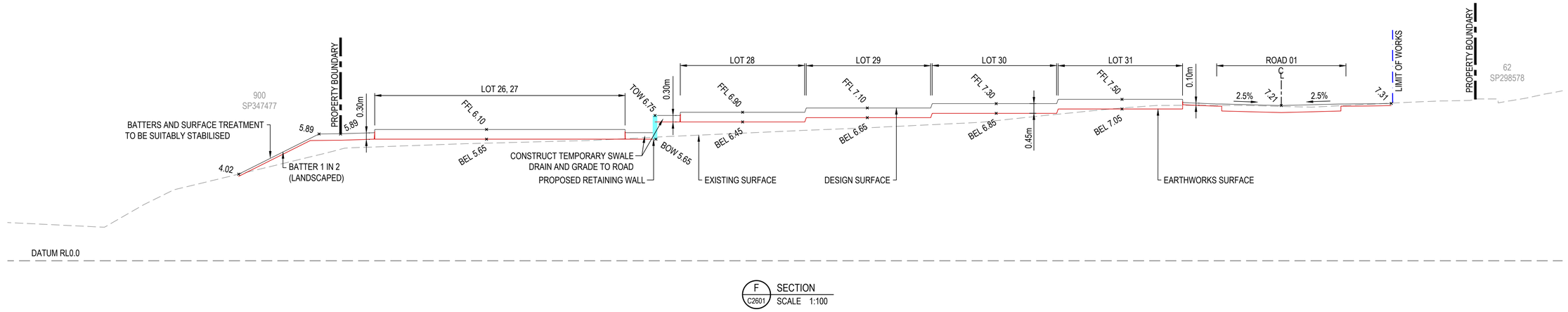
DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

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PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2804	A



E C2601 SECTION
SCALE 1:100



F C2601 SECTION
SCALE 1:100

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- EARTHWORKS SURFACE
- PROPOSED RETAINING WALL

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ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : BULK EARTHWORKS SECTIONS - SHEET 5 OF 6

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

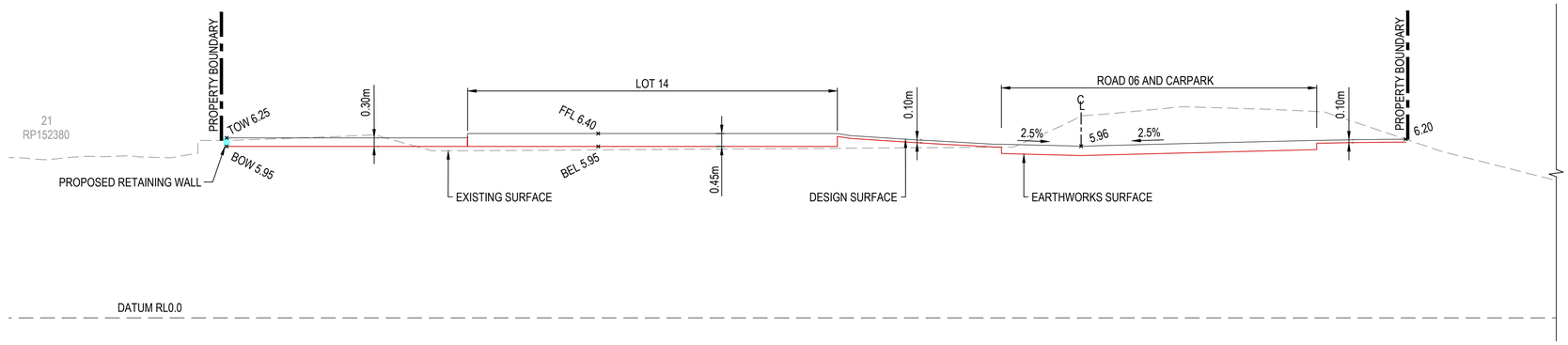
PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
SCALE (metres) 1 0 1 2 3 4 5
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DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

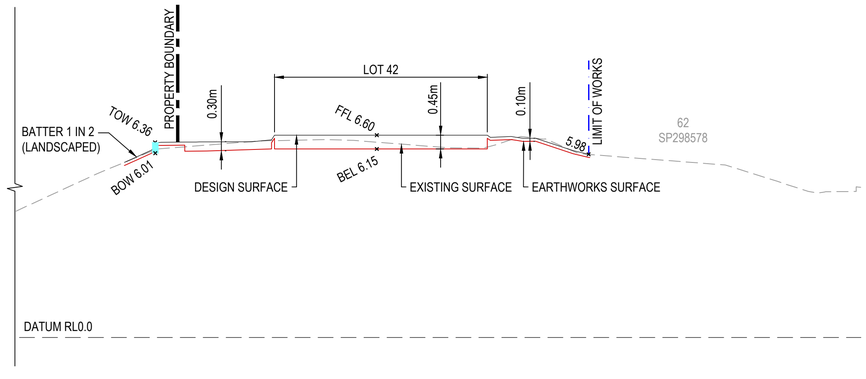
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PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2805	A



LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- EARTHWORKS SURFACE
- PROPOSED RETAINING WALL



G / C2601 SECTION
SCALE 1:100

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ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : BULK EARTHWORKS SECTIONS - SHEET 6 OF 6

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
SCALE (metres) 1 0 1 2 3 4 5
1 : 100 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 03-09-26
PROJECT LEADER : -	DESIGNER : BNB
DRAFTSPERSON : BNB	CHECKED : -

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PROJECT No.:	DRAWING No. :	VERSION:
BE200223-00	C2806	A

GENERAL EARTHWORKS NOTES:

1. ALL EARTHWORKS CONSTRUCTION UNDER THIS CONTRACT IS TO BE PERFORMED STRICTLY IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY THE PRINCIPAL'S GEOTECHNICAL CONSULTANT.
2. ALL COMPACTION TESTING UNDER THIS CONTRACT IS TO BE CARRIED OUT TO AS3798 LEVEL 1 STANDARD BY A NATA-ACCREDITED TESTING AUTHORITY. CERTIFICATION FOR ALL EARTHWORKS CONSTRUCTION AND TESTING IS TO BE PROVIDED BY A REGISTERED PROFESSIONAL ENGINEER QUEENSLAND (RPEQ) ENGAGED BY THE CONTRACTOR.
3. ALL DESIGN LEVELS SHOWN ON THE CONTRACT DRAWINGS ARE FINISHED SURFACE LEVELS FOLLOWING TOPSOIL REPLACEMENT.
4. ALL STRUCTURAL FILL MATERIAL PLACED SHALL BE COMPACTED TO THE FOLLOWING MINIMUM DENSITY IN ACCORDANCE WITH THE SPECIFICATION AND THE GEOTECHNICAL REPORT:
   a) 95% DENSITY RATIO FOR GENERAL STRUCTURAL FILL (COHESIVE MATERIAL).
   b) 98% DENSITY RATIO FOR THE TOP 300mm DEPTH BELOW PAVEMENT SUBGRADE LEVEL (COHESIVE MATERIAL).
5. FILL MATERIAL USED IN WETLAND BATTERS IS TO BE STIFF TO HARD CLAYS OR OTHER SUITABLE MATERIAL AS DIRECTED BY GEOTECHNICAL ENGINEER.
6. ALL EARTHWORKS BATTERS STEEPER THAN 1 IN 4 ARE TO BE LANDSCAPED IN ACCORDANCE WITH LANDSCAPE ARCHITECTS PLANS.
7. EXISTING DAMS ARE TO BE DE-WATERED AND CLEANED-OUT. ALL UNSUITABLE OR SATURATED MATERIAL IS TO BE REMOVED AND REPLACED WITH SELECTED ON-SITE STRUCTURAL FILL MATERIAL AND COMPACTED AS SPECIFIED.
8. PROVIDE CONDITION SURVEY OF ADJACENT RESIDENTIAL BUILDINGS FOR ALL PROPERTIES LOCATED WITHIN NOMINAL 100m OF EARTHWORKS OPERATIONS. CONDITION SURVEY TO BE UNDERTAKEN BY QUALIFIED PERSONNEL WITH BUILDING EXPERIENCE.

TYPICAL EARTHWORKS SEQUENCE NOTES:

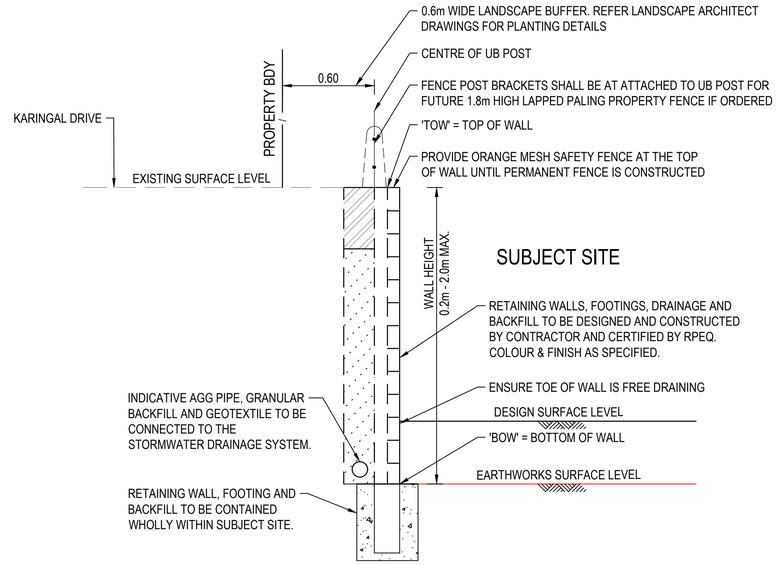
1. CONSTRUCT DIVERSION DRAINS AS DIRECTED TO DIVERT SITE RUNOFF AWAY FROM CONSTRUCTION AREAS. ESTABLISH DE-WATERING CONTROLS TO ENSURE THAT THE CONSTRUCTION AREAS REMAIN FREE OF SURFACE WATER AND PONDING.
2. FOLLOWING COMPLETION OF CLEARING OPERATIONS AND REMOVAL OF RESIDUAL VEGETATION AND DEBRIS, STRIP TOPSOIL TO A NOMINAL 200mm DEPTH AND PLACE IN TEMPORARY STOCKPILES IN LOCATIONS APPROVED BY THE SUPERINTENDENT.
3. PROOF-ROLL AND COMPACT THE PROPOSED FILL AREAS FOLLOWING TOPSOIL STRIPPING, TO THE SATISFACTION OF THE SUPERINTENDENT.
4. ANY STRIPPED AREAS WHICH DEMONSTRATE EXCESSIVE MOVEMENT OR DO NOT IMPROVE SUFFICIENTLY UNDER PROOF-ROLLING ARE TO BE REMOVED, REPLACED WITH APPROVED SITE MATERIAL AND COMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
5. ANY UNSUITABLE MATERIAL ENCOUNTERED, INCLUDING SILTY MATERIAL AND UN-CONTROLLED FILL IS TO BE EXCAVATED TO THE EXTENTS AND DEPTHS NOMINATED BY THE PRINCIPAL'S GEOTECHNICAL CONSULTANT, REMOVED TO NON-STRUCTURAL FILL AREAS OR TAKEN OFF-SITE AS DIRECTED AND REPLACED WITH APPROVED, COMPACTED FILL MATERIAL.
6. PLACE STRUCTURAL FILL MATERIAL FROM SITE EXCAVATIONS TO NOMINATED SITE FILL AREAS, INCLUDING BENCHING AND COMPACTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND TRIMMING AND FINAL PROFILING OF BATTERS.

NOTE:
ALL RETAINING WALL AGGREGATE PIPES TO BE CONNECTED TO THE STORMWATER DRAINAGE SYSTEM.

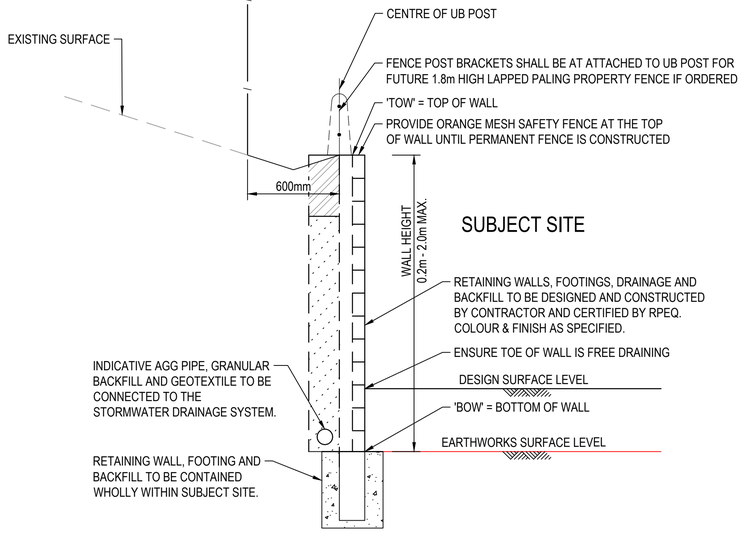
NOTE:
RETAINING WALL DESIGN, CONSTRUCTION, SUPERVISION AND CERTIFICATION TO BE PROVIDED BY SPECIALIST SUB-CONTRACTOR.

RETAINING WALL NOTES:

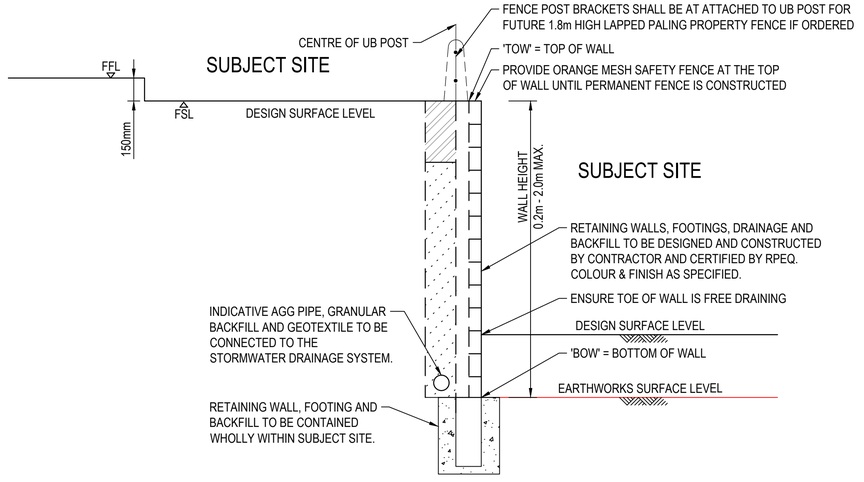
1. RETAINING WALLS, FOOTINGS, DRAINAGE, BACKFILL AND CONNECTION OF AGGREGATE DRAINS TO STORMWATER DRAINAGE SYSTEM TO BE DESIGNED AND CONSTRUCTED BY THE CONTRACTOR AND CERTIFIED BY AN SUITABLY QUALIFIED RPEQ.
2. THESE DRAWINGS IDENTIFY SURFACE PROFILES, RETAINING WALL LOCATIONS, AND SETOUT INFORMATION ONLY. REFER TO CONTRACTOR SUPPLIED DRAWINGS FOR RPEQ STRUCTURAL DETAILS, WALL MATERIALS AND COMPACTION SPECIFICATIONS AND CONTRACTIBILITY INFORMATION.
3. RETAINING WALL DESIGN ENGINEER TO PROVIDE RPEQ FORM 15 STRUCTURAL CERTIFICATE INCLUDING GEOTECHNICAL GLOBAL STABILITY CERTIFICATION BY GEOTECHNICAL ENGINEER. WALL DESIGN TO ASSUME SURCHARGE LOADING BEHIND WALL. DESIGN TO BE IN ACCORDANCE WITH AS4678 INCLUDING ALL REQUIRED DESIGN LOAD CASES AND COMBINATIONS.
4. RETAINING WALLS TO BE DESIGNED TO CONSIDER ALL LOADS INCLUDING CONSTRUCTION LOADS AND OPERATIONAL LOADS.
5. ANY GEOTECHINCAL INFORMATION PROVIDED BY THE PRINCIPAL OR THE SUPERINTENDENT SHALL BE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR AND THE RETAINING WALL DESIGN ENGINEER SHOULD SATISFY THEMSELVES OF THE DESIGN SOIL PARAMETERS AND UNDERTAKE AND ADDITIONAL GEOTECHNICAL INVESTIGATION DEEMED NECESSARY BY THE DESIGN ENGINEER.
6. THE CONTRACTOR SHALL ENSURE THAT ANY CONFLICT BETWEEN THESE PROJECT DRAWINGS AND THE RETAINING WALL DRAWINGS PREPARED BY THE RETAINING WALL DESIGN ENGINEER IS RESOLVED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCING.
7. A COPY OF THE RETAINING WALL DESIGN DRAWINGS, INCLUDING CONNECTION OF AGGREGATE DRAINS TO THE STORMWATER DRAINAGE SYSTEM, DESIGN PARAMETERS AND CERTIFICATION BE PROVIDED TO THE SUPERINTENDENT AT THE PRE-START MEETING PRIOR TO CONSTRUCTION COMMENCING.
8. ANY RETAINING WALL AND BATTER EXCEEDING THE HEIGHT OF 1.5m, THE CONTRACTOR SHALL UNDERTAKE A THIRD PARTY RPEQ REVIEW OF THE PROPOSED DESIGN.



RETAINING WALL CONFIGURATION
BETWEEN LOT AND PUBLIC ROAD
SCALE 1:20



RETAINING WALL CONFIGURATION
INTERNAL SITE TO SITE WITH CUTOFF DRAIN
SCALE 1:20



RETAINING WALL CONFIGURATION
INTERNAL SITE TO SITE
SCALE 1:20

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VER.	DESCRIPTION	DATE
A	ORIGINAL ISSUE	03-09-26

BURCHILLS ENGINEERING SOLUTIONS
GOLD COAST | BRISBANE | TOOWOOMBA
IPSWICH | MORETON BAY
PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : BOS

DRAWING TITLE : BULK EARTHWORKS NOTES & DETAILS

PROJECT : 2 KARINGAL DRIVE & 60 IMELDA WAY, PIMPAMA

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
SCALE (metres) 0.2 0 0.2 0.4 0.6 0.8 1.0
1 : 20 (FULL SIZE)

DEVEL. APPLIC. No. : | DATE : 03-09-26
PROJECT LEADER : - | DESIGNER : BNB
DRAFTSPERSON : BNB | CHECKED : -

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.: BE200223-00
DRAWING No. : C2901
VERSION: A