12537 01C - RAIR II R25 KINGSCLIFF SITE KINGSCLIFF, NSW, 2487

CIVIL WORKS PACKAGE

	CIVIL DRAWING REGISTER
DRAWING NUMBER	DRAWING TITLE
C1001	COVER PAGE AND DRAWING REGISTER
C1002	GENERAL NOTES
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C1005	SEDIMENT AND EROSION CONTROL PLAN - LOWER GROUND FLOOR SHEET 2
C1006	SEDIMENT AND EROSION CONTROL PLAN - GROUND FLOOR SHEET 3
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C1008	BULK EARTHWORKS DETAIL PLAN - LOWER GROUND FLOOR SHEET 1
C1009	BULK EARTHWORKS DETAIL PLAN - LOWER GROUND FLOOR SHEET 2
C1010	BULK EARTHWORKS DETAIL PLAN - GROUND FLOOR SHEET 3
C1011	SITE SECTIONS - SHEET 1
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C1040	EXISTING BULK CATCHMENT PLAN
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C1050	STORMWATER DRAINAGE DETAILS
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C1060	PAVEMENT PLAN - LOWER GROUND FLOOR SHEET 1
C1061	PAVEMENT PLAN - LOWER GROUND FLOOR SHEET 2
C1062	PAVEMENT PLAN - GROUND FLOOR SHEET 3
C1070	SITEWORKS AND PAVEMENT DETAILS



LOCALITY PLAN

NOT TO SCALE

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05.07.22 LD
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ne	RAIR II: KINGSCLIFF SITE KINGSCLIFF, NSW, 2487	REF SUBMISSION							
	LOT 11: DP1269398	Design		ם	Approved GK		FEB	Date	North
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		Scale		-	Project Ref			Drawing No	Rev
	DRAWING REGISTER	Date	FEB 2	2022	12537	01	R25	C100 ²	P3
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- G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH WORK.
- G2 MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATION, CURRENT SAA CODES, BUILDING REGULATIONS AND THE REQUIREMENTS OF ANY OTHER RELEVANT STATUTORY AUTHORITIES.
- G3 THESE DRAWINGS MUST NOT BE SCALED. ALL DIMENSIONS ARE IN METERS. ALL SET OUT DIMENSIONS AND LEVELS, INCLUDING THOSE SHOWN ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S DRAWINGS AND VERIFIED ON SITE.
- G4 ALL SETOUT AND DIMENSIONS OF THE STRUCTURE INCLUDING KERBS AND RETAINING WALLS, AND BULK EARTHWORKS MUST BE TAKEN FROM THE ARCHITECT'S DRAWINGS. SETOUT OF THE STORMWATER PITS BY OTHERS. CONTRACTOR TO CONFIRM SETOUT OF SERVICE TRENCHING INCLUDING SUBSOIL ON SITE.
- G5 THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF AUTHORITIES HAVING JURISDICTON OVER THE WORKS.
- G6 ALL DIMENSIONS AND REDUCED LEVELS MUST BE VERIFIED ON SITE BEFORE THE COMMENCEMENT OF
- G7 THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE SUPERINTENDENT BUT IS NOT AN AUTHORISATION OF A COST VARIATION. THE SUPERINTENDENT MUST APPROVE ANY COST VARIATION INVOLVED BEFORE ANY WORK STARTS.
- G8 ALL LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM.
- G9 SERVICE INFORMATION SHOWN IS APPROXIMATE ONLY. PRIOR TO COMMENCEMENT OF ANY WORKS, THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES AND COMPLY WITH ALL REQUIREMENTS OF THOSE AUTHORITIES.
- G10 EXISTING SURFACE CONTOURS, WHERE SHOWN, ARE INTERPOLATED AND MAY NOT BE ACCURATE.
- G11 UNLESS NOTED OTHERWISE, ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150mm UNDER ALL PROPOSED PAVEMENT AND BUILDING AREAS.
- G12 MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.

SITEWORKS NOTES

- S1 PRIOR TO THE PLACEMENT OF ANY PAVEMENTS, BUILDINGS OR DRAINS THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION IN ACCORDANCE WITH TEST 'E1.1' OF A.S. 1289 FOR THE TOP 300mm. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH GRANULAR FILL TO THE ENGINEERS APPROVAL AND COMPACTED IN ACCORDANCE WITH THE COMPACTION REQUIREMENTS SET OUT BELOW. ON HIGHLY REACTIVE CLAY AREAS SITE EXCAVATED MATERIAL MAY BE USED WITH THE PRIOR AUTHORISATION OF THE ENGINEER.
- S2 ALL FILL AND PAVEMENT MATERIALS SHALL BE COMPACTED IN ACCORDANCE WITH GEOTECHNICAL REPORT BY JK GEOTECHNICS PTY LTD DATED 07 MARCH 2022 (REF 34304URFrpt). MOISTURE CONTENT TO BE MAINTAINED AT +/- 2% OMC. MINIMUM COMPACTION REQUIREMENTS ARE DETAILED BELOW FOR (ALL REQUIREMENTS ARE TO VERIFIED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER):
 - LANDSCAPED AREAS
 - FILL UNDER ANY FOOTINGS AND FLOOR SLABS FOR ANY STRUCTURE TO SUBGRADE LEVEL;

98% STD.

	FINE CRUSHED ROCKSELECTED FILL WITHOUT CONSPICUOUS CLAY CONTENT	98% STD 98% STD
•	BUILDING BASECOURSE	98% MOD

 FILL UNDER ROAD PAVEMENTS; - TO WITHIN 500mm OF FINISHED SUBGRADE LEVEL - UP TO FINISHED SUBGRADE LEVEL 98% STD.

 ROAD PAVEMENT MATERIALS: SUB BASE 98% MOD. BASE COURSE 98% MOD.

THE MAXIMUM COMPACTION IS TO BE NO GREAT THAN 4% ON TOP OF THE ABOVE MENTION VALUES.

- S3 GRADE EVENLY BETWEEN FINISHED SURFACE SPOT LEVELS. FINISHED SURFACE CONTOURS ARE SHOWN FOR CLARITY. WHERE FINISHED SURFACE LEVELS ARE NOT SHOWN, THE SURFACE SHALL BE GRADED SMOOTHLY SO THAT IT WILL DRAIN AND MATCH ADJACENT SURFACES OR STRUCTURES.
- S4 ALL DIMENSIONS GIVEN ARE TO FACE OF KERB, CENTER OF PIPE OR EXTERIOR FACE OF BUILDING UNLESS NOTED OTHERWISE.
- S5 ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DIRTIED OR MADE UNSERVICABLE DUE TO CONSTRUCTION WORK SHALL BE REINSTATED TO THE SATISFACTION OF THE ENGINEER.
- S6 ANY FILL REQUIRED SHALL BE APPROVED BY THE ENGINEER / GEOTECHNICAL CONSULTANT
- CONTRACTOR IS TO ENSURE THAT ALL EXCAVATIONS ARE MAINTAINED IN A DRY CONDITION WITH NO WATER ALLOWED TO REMAIN IN THE EXCAVATIONS.
- S8 ALL FINISHES AND COLOURS TO BE IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS.
- S9 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE, REINFORCEMENT AND RETAINING WALL DETAILS.
- S10 GENERALLY FOR TRENCHING WORKS THE CONTRACTOR MUST:
- A) COMPLY WITH THE GENERAL PROVISIONS OF PART 3.1 "MANAGING RISKS TO HEALTH AND SAFETY" OF NSW WORK AND HEALTH AND SAFETY REGULATION 2011
- B) COMPLY PART 6.3 DIVISION 3 "EXCAVATION WORK" OF NSW WORK HEALTH AND SAFETY REGULATION NSW 2011
- S11 PRIOR TO THE EXCAVATION OF ANY TRENCH DEEPER THAN 1.5 METRES THE CONTRACTOR MUST: A) NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY ON THE APPROPRIATE FORM.

STORMWATER DRAINAGE NOTES

- SW1 UNLESS NOTED OTHERWISE, ALL DOWNPIPES & GRATED INLETS SHALL BE CONNECTED TO PITS OR MAIN STORMWATER DRAINS WITH 150 DIA. UPVC PIPES LAID AT A MINIMUM GRADE OF 1 IN 100.
- SW2 ALL MAIN STORMWATER DRAINS SHALL BE CONSTRUCTED USING MATERIALS AS SPECIFIED ON THE DRAWINGS IN ACCORDANCE WITH THE APPROPRIATE A.S. IF NOT SPECIFIED THEN CLASS 2 RRJ RCP SHALL BE USED FOR DIAMETERS > 225mm. SEWER CLASS SEH UPVC IN ACCORDANCE WITH AS1260 SHALL BE USED FOR Ø225mm OR SMALLER.
- SW3 ALL PIPEWORK TO BE INSTALLED IN ACCORDANCE WITH AS3725 FOR RCP AND AS2032 FOR PVC. ALL BEDDING TO BE TYPE H2 UNLESS NOTED OTHERWISE.
- SW4 FOR ALL PITS > 1.2m DEEP STEP IRONS SHALL BE INSTALLED.
- SW5 PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY BONACCI
- SW6 ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- SW7 WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- SW8 GRATES AND COVERS SHALL CONFORM WITH AS 3996 AND AS 1428.1 FOR ACCESS REQUIREMENTS
- SW9 CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- SW10 AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- SW11 ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

KERBING NOTES

- K1 ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32 MPa U.N.O.
- K2 ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 75mm GRANULAR BASECOURSE COMPACTED TO A MINIMUM 98% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289
- K3 EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.
- K4 WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.
- K5 BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- K6 IN THE REPLACEMENT OF KERBS:-

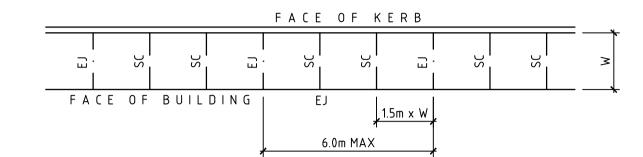
Date By App

- EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O. FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER, NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.
- EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

JOINTING NOTES

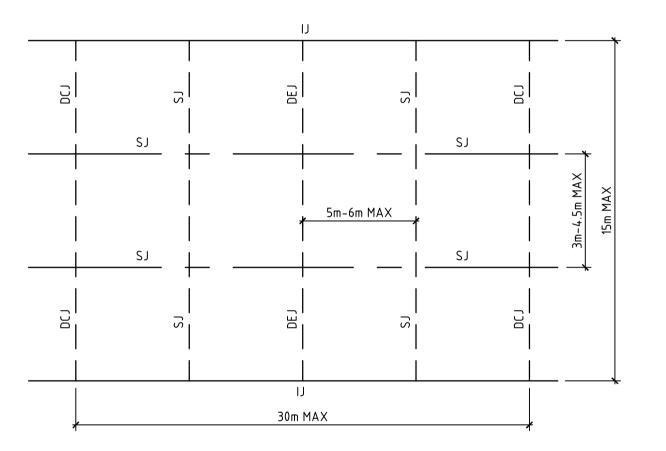
PEDESTRIAN FOOTPATH JOINTS

- EXPANSION JOINTS (EJ) ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT 6m CENTRES.
- SAWCUT JOINTS (SC) ARE TO BE LOCATED AT A MAX 1.5m x WIDTH OF PAVEMENT. THE TIMING OF THE SAWCUT IS TO BE CONFIRMED BY THE CONTRACTOR ON SITE. SITE CONDITIONS WILL DETERMINE HOW MANY HOURS AFTER THE CONCRETE POUR BEFORE THE SAW CUTS ARE COMMENCED.
- WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS.
- PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS (EJ) BETWEEN BUILDINGS AND ALL CONCRETE
- J5 ALL PEDESTRIAN FOOTPATH JOINTINGS AS FOLLOWS (U.N.O.).



VEHICULAR PAVEMENT JOINTS

- J6 ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.
- ISOLATION JOINTS WITH SUB-GRADE BEAM (IJ) TO BE PROVIDED AT INTERSECTIONS OR AT THE JUNCTION OF A POUR BREAK.
- ALL VEHICULAR PAVEMENTS TO BE JOINTED IN ACCORDANCE WITH AUSTROADS AGPT02-12 GUIDE TO PAVEMENT TECHNOLOGY PART 2 STRUCTURAL PAVEMENT DESIGN AND SUPPLEMENT AP-T36-06 PAVEMENT DESIGN FOR LIGHT TRAFFIC
- VEHICULAR PAVEMENT JOINTING AS FOLLOWS (U.N.O.)





WARNING NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

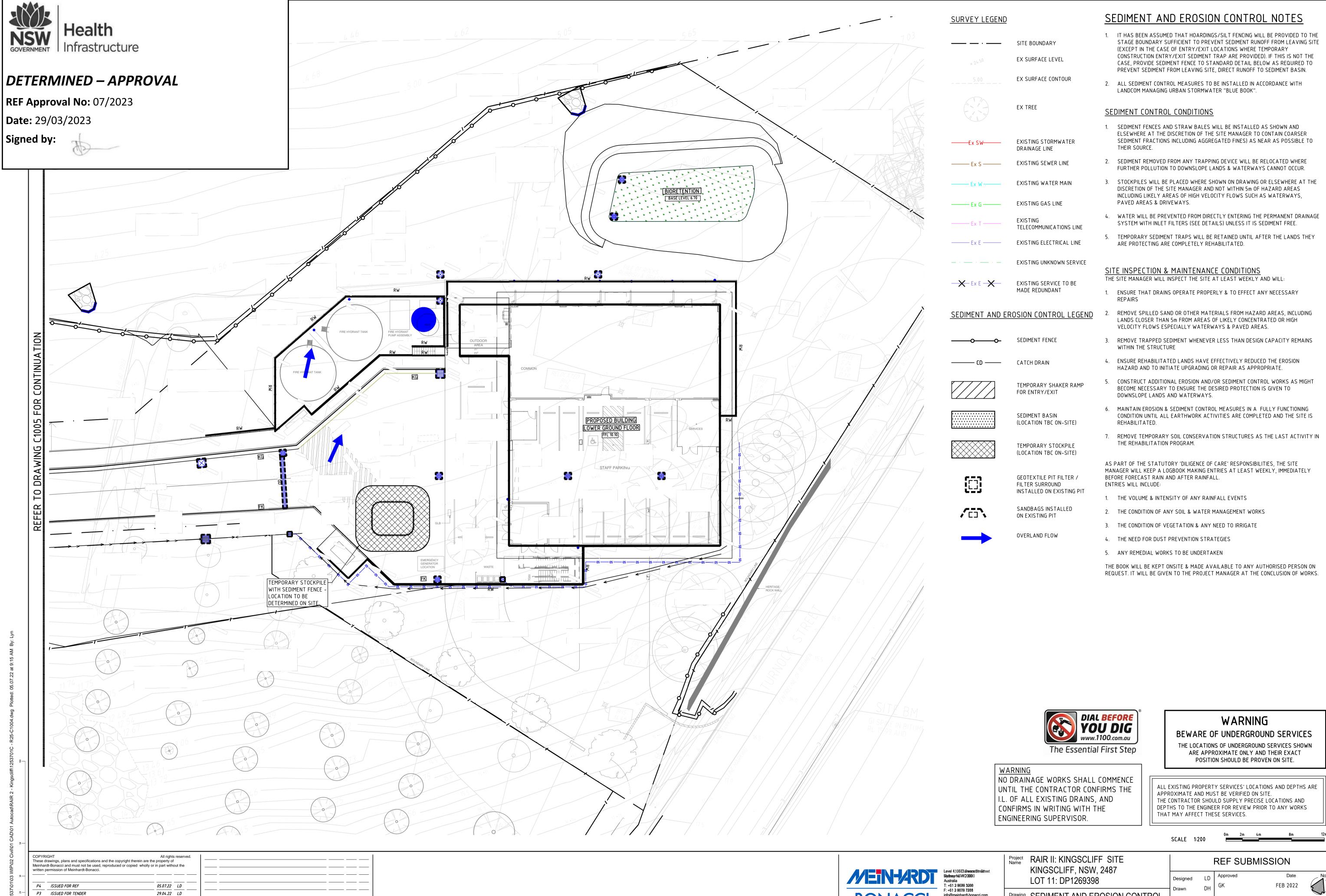
ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

12537 01 R25 C1002 P3

T: +61 2 9699 3088 F: +61 2 9319 7518 BONACCI www.meinhardt-bonacci.com Project Name RAIR II: KINGSCLIFF SITE **REF SUBMISSION** KINGSCLIFF, NSW, 2487 LOT 11: DP1269398 FEB 2022 Drawing GENERAL NOTES

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Rev Description



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03.03.22 LD

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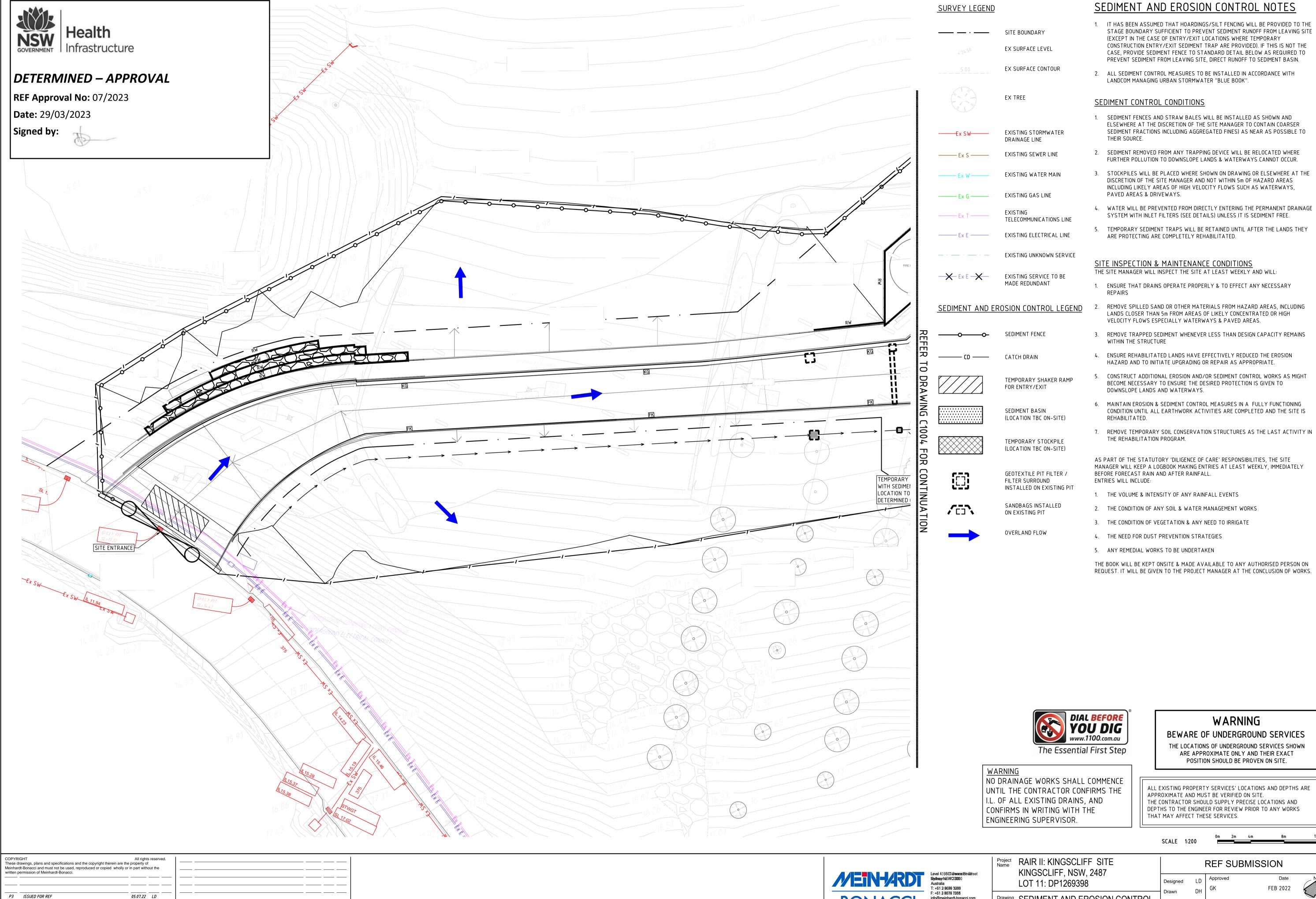
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Drawing SEDIMENT AND EROSION CONTROL PLAN - LOWER GROUND FLOOR

SHEET 1

12537 01 R25 C1004 P4



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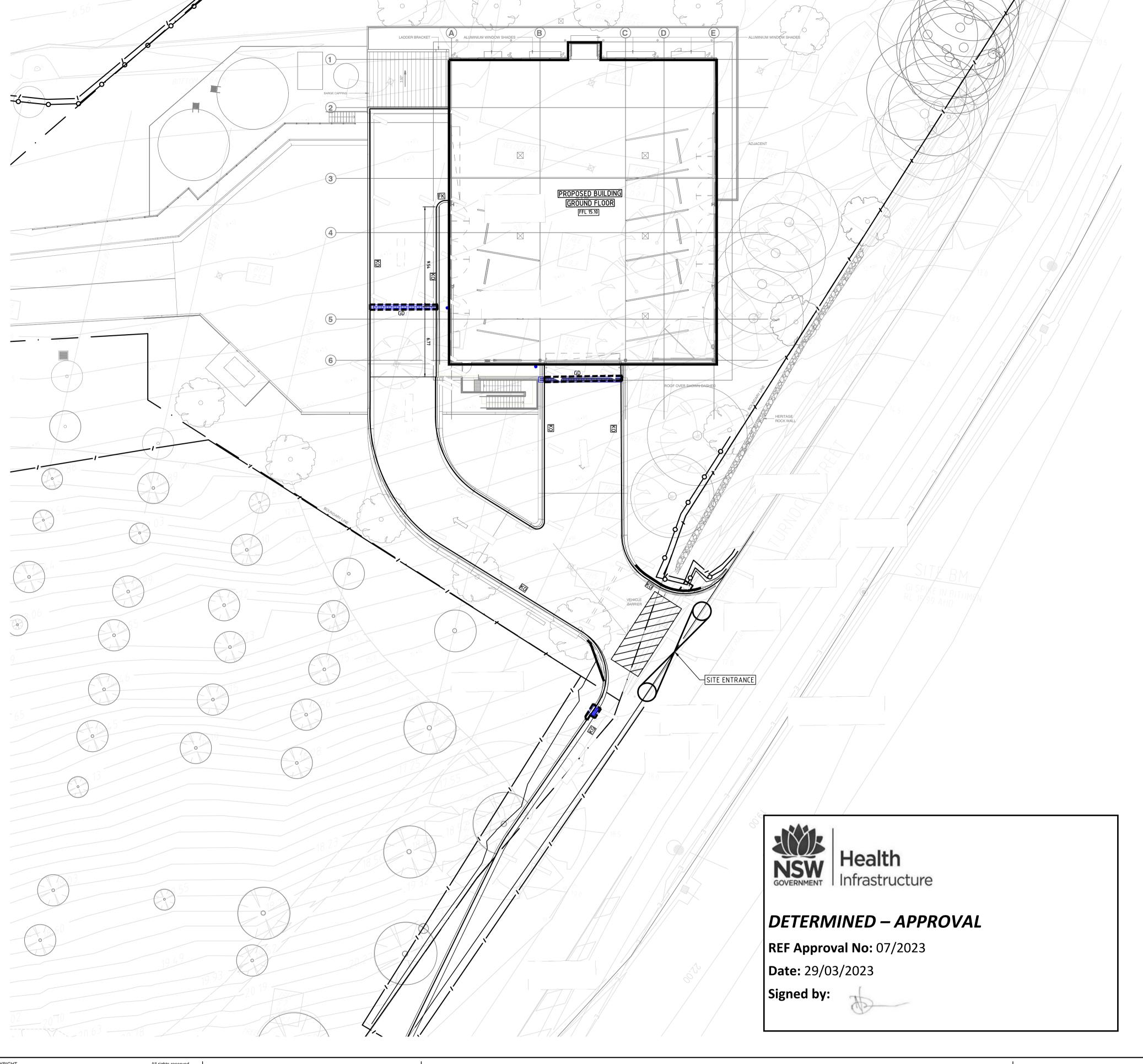
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F: +61 2 9679 7208

Drawing SEDIMENT AND EROSION CONTROL PLAN - LOWER GROUND FLOOR SHEET 2

12537 01 R25 C1005 P3





- 1. IT HAS BEEN ASSUMED THAT HOARDINGS/SILT FENCING WILL BE PROVIDED TO THE STAGE BOUNDARY SUFFICIENT TO PREVENT SEDIMENT RUNOFF FROM LEAVING SITE (EXCEPT IN THE CASE OF ENTRY/EXIT LOCATIONS WHERE TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP ARE PROVIDED). IF THIS IS NOT THE CASE, PROVIDE SEDIMENT FENCE TO STANDARD DETAIL BELOW AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE, DIRECT RUNOFF TO SEDIMENT BASIN.
- 2. ALL SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH LANDCOM MANAGING URBAN STORMWATER "BLUE BOOK".

SEDIMENT CONTROL CONDITIONS

PAVED AREAS & DRIVEWAYS.

SURVEY LEGEND

X Ex E X

/[]\

SITE BOUNDARY

EX TREE

EX SURFACE LEVEL

EX SURFACE CONTOUR

EXISTING STORMWATER

DRAINAGE LINE

EXISTING SEWER LINE

EXISTING WATER MAIN

TELECOMMUNICATIONS LINE

EXISTING ELECTRICAL LINE

EXISTING UNKNOWN SERVICE

EXISTING SERVICE TO BE MADE REDUNDANT

SEDIMENT FENCE

FOR ENTRY/EXIT

SEDIMENT BASIN

(LOCATION TBC ON-SITE)

TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)

SANDBAGS INSTALLED

ON EXISTING PIT

OVERLAND FLOW

TEMPORARY SHAKER RAMP

CATCH DRAIN

EXISTING GAS LINE

EXISTING

- 1. SEDIMENT FENCES AND STRAW BALES WILL BE INSTALLED AS SHOWN AND ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER TO CONTAIN COARSER SEDIMENT FRACTIONS INCLUDING AGGREGATED FINES) AS NEAR AS POSSIBLE TO THEIR SOURCE.
- 2. SEDIMENT REMOVED FROM ANY TRAPPING DEVICE WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS & WATERWAYS CANNOT OCCUR.
- 3. STOCKPILES WILL BE PLACED WHERE SHOWN ON DRAWING OR ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER AND NOT WITHIN 5m OF HAZARD AREAS INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS,
- 4. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM WITH INLET FILTERS (SEE DETAILS) UNLESS IT IS SEDIMENT FREE.
- 5. TEMPORARY SEDIMENT TRAPS WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.

SITE INSPECTION & MAINTENANCE CONDITIONS

THE SITE MANAGER WILL INSPECT THE SITE AT LEAST WEEKLY AND WILL:

ENSURE THAT DRAINS OPERATE PROPERLY & TO EFFECT ANY NECESSARY

- REPAIRS

 SEDIMENT AND EROSION CONTROL LEGEND

 2. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5m FROM AREAS OF LIKELY CONCENTRATED OR HIGH
 - VELOCITY FLOWS ESPECIALLY WATERWAYS & PAVED AREAS.

 3. REMOVE TRAPPED SEDIMENT WHENEVER LESS THAN DESIGN CAPACITY REMAINS WITHIN THE STRUCTURE
 - 4. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS APPROPRIATE.
 - 5. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS.
 - 6. MAINTAIN EROSION & SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
 - 7. REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.

AS PART OF THE STATUTORY 'DILIGENCE OF CARE' RESPONSIBILITIES, THE SITE
MANAGER WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY
GEOTEXTILE PIT FILTER /
FILTER SURROUND
INSTALLED ON EXISTING PIT

AS PART OF THE STATUTORY 'DILIGENCE OF CARE' RESPONSIBILITIES, THE SITE
MANAGER WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY
BEFORE FORECAST RAIN AND AFTER RAINFALL.
ENTRIES WILL INCLUDE:

THE VOLUME & INTENSITY OF ANY RAINFALL EVENTS
 THE CONDITION OF ANY SOIL & WATER MANAGEMENT WORKS

3. THE CONDITION OF VEGETATION & ANY NEED TO IRRIGATE

4. THE NEED FOR DUST PREVENTION STRATEGIES

5. ANY REMEDIAL WORKS TO BE UNDERTAKEN

THE BOOK WILL BE KEPT ONSITE & MADE AVAILABLE TO ANY AUTHORISED PERSON ON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF WORKS.



NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

WARNING

WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES SHOWN

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ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE.
THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

SCALE 1:200 0m 2m 4m 8m

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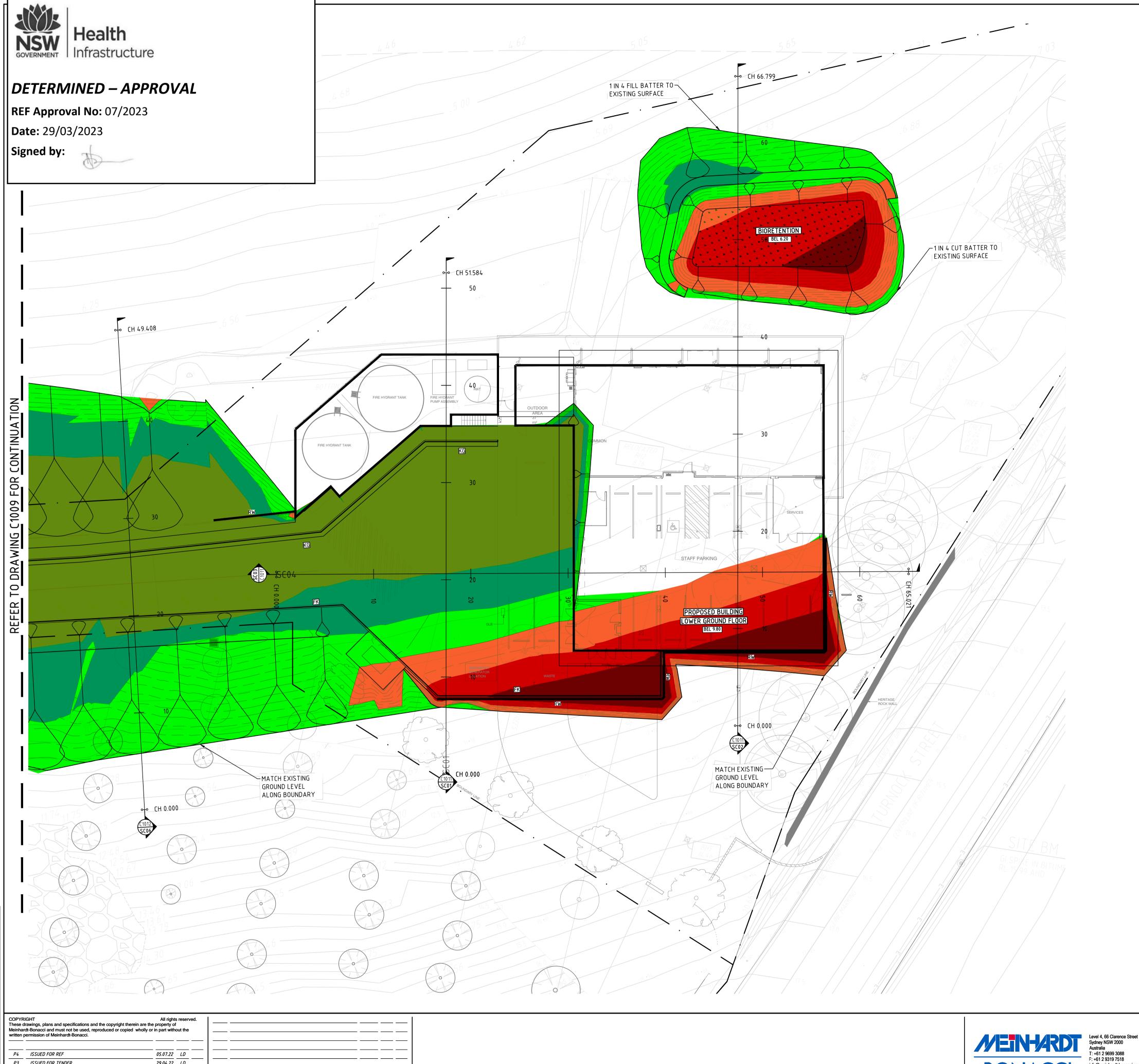
Project Name	RAIR II: KINGSCLIFF SITE KINGSCLIFF, NSW, 2487 LOT 11: DP1269398

Drawing SEDIMENT AND EROSION CONTROL PLAN - GROUND FLOOR SHEET 3

	REF ISSUED				
gned	LD	Approved	Date	North	
/n	DH	GK	FEB 2022		
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Rev Description

Date By App



SURVEY LEGEND

SITE BOUNDARY EX SURFACE LEVEL EX SURFACE CONTOUR

EX TREE

EXISTING STORMWATER DRAINAGE LINE EXISTING SEWER LINE

EXISTING WATER MAIN EXISTING GAS LINE

EXISTING TELECOMMUNICATIONS LINE EXISTING ELECTRICAL LINE

MADE REDUNDANT

EXISTING UNKNOWN SERVICE EXISTING SERVICE TO BE

SITEWORKS LEGEND

——— Ex G ———

FINISHED SURFACE CONTOUR BEL 34.00 BULK EXCAVATION LEVEL

BEL 34.00 BULK EXCAVATION SPOT LEVEL

EARTHWORKS QUANTITIES

ASSUMED STRIPPED TOPSOIL (150mm) = 1095m³

TOTAL CUT VOLUME = 458m³ TOTAL FILL VOLUME = 4410m³

EXCESS FILL VOLUME = 3952m³

EARTHWORKS Lower_value			RANGE _value	Colour
-10	to	-1.0	m	
-1.0	to	-0.5	m	
-0.5	to	0	m	
0	to	0.5	m	
0.5	to	1.0	m	
1.0	to	10	m	

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ISSUED FOR TENDER 03.03.22 LD ISSUED FOR DA 25.02.22 DH ISSUED FOR PRELIMINARY SET

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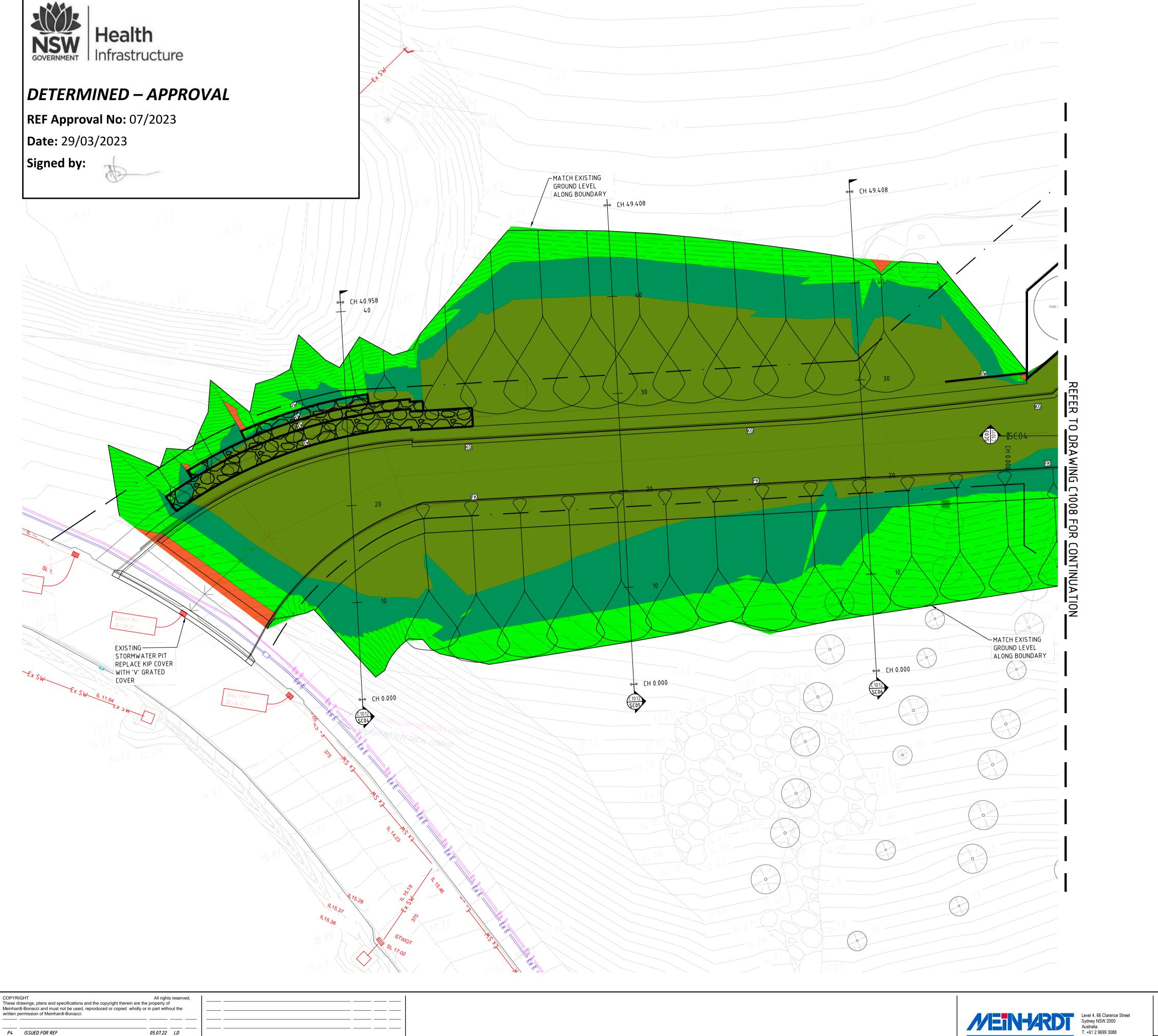
Project Name	RAIR II: KINGSCLIFF SITE
	KINGSCLIFF, NSW, 2487
	LOT 11: DP1269398

The Essential First Step

Orawing Fitle	BULK EARTHWORKS PI
	LOWER GROUND FLOC
	SHEET 1

	REF SUBMISSIO
LD	Approved

FEB 2022



SURVEY LEGEND

SITE BOUNDARY

EX SURFACE LEVEL EX SURFACE CONTOUR

EX TREE

EXISTING STORMWATER DRAINAGE LINE EXISTING SEWER LINE

EXISTING WATER MAIN EXISTING GAS LINE

EXISTING TELECOMMUNICATIONS LINE EXISTING ELECTRICAL LINE

EXISTING UNKNOWN SERVICE EXISTING SERVICE TO BE MADE REDUNDANT

SITEWORKS LEGEND

FINISHED SURFACE CONTOUR BEL 34.00 BULK EXCAVATION LEVEL

BEL 34.00 BULK EXCAVATION SPOT LEVEL

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TOTAL CUT VOLUME = 458m³

TOTAL FILL VOLUME = 4410m³

EXCESS FILL VOLUME = 3952m3

EARTHWORKS DEPTH RANGE Lower_value Upper_value Colour				
-10	to	-1.0	m	
4.0	1.	0.5	_	
-1.0	to	-0.5	m	
-0.5	to	0	m	
0	to	0.5	m	
0.5	to	1.0	m	
1.0	to	10	m	

<u>WARNING</u>

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Date By App Rev Description

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Project Name RAIR II: KINGSCLIFF SITE KINGSCLIFF, NSW, 2487 LOT 11: DP1269398

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The Essential First Step

Drawing BULK EARTHWORKS PLAN LOWER GROUND FLOOR SHEET 2

REF SUBMISSION

FEB 2022



EARTHWORKS DEPTH RANGE

<u>WARNING</u>

SURVEY LEGEND

——— Ex G ———

——— Ex E ———

 \longrightarrow Ex E \longrightarrow

SITEWORKS LEGEND

BEL 34.00

BEL 34.00

SITE BOUNDARY

EX TREE

EX SURFACE LEVEL

EX SURFACE CONTOUR

EXISTING STORMWATER

DRAINAGE LINE

EXISTING SEWER LINE

EXISTING WATER MAIN

TELECOMMUNICATIONS LINE

EXISTING ELECTRICAL LINE

EXISTING SERVICE TO BE MADE REDUNDANT

EXISTING UNKNOWN SERVICE

FINISHED SURFACE CONTOUR

BULK EXCAVATION SPOT LEVEL

BULK EXCAVATION LEVEL

EXISTING GAS LINE

NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

Project Name RAIR II: KINGSCLIFF SITE KINGSCLIFF, NSW, 2487 LOT 11: DP1269398

Drawing BULK EARTHWORKS PLAN **GROUND FLOOR** SHEET 3

The Essential First Step

REF SUBMISSION

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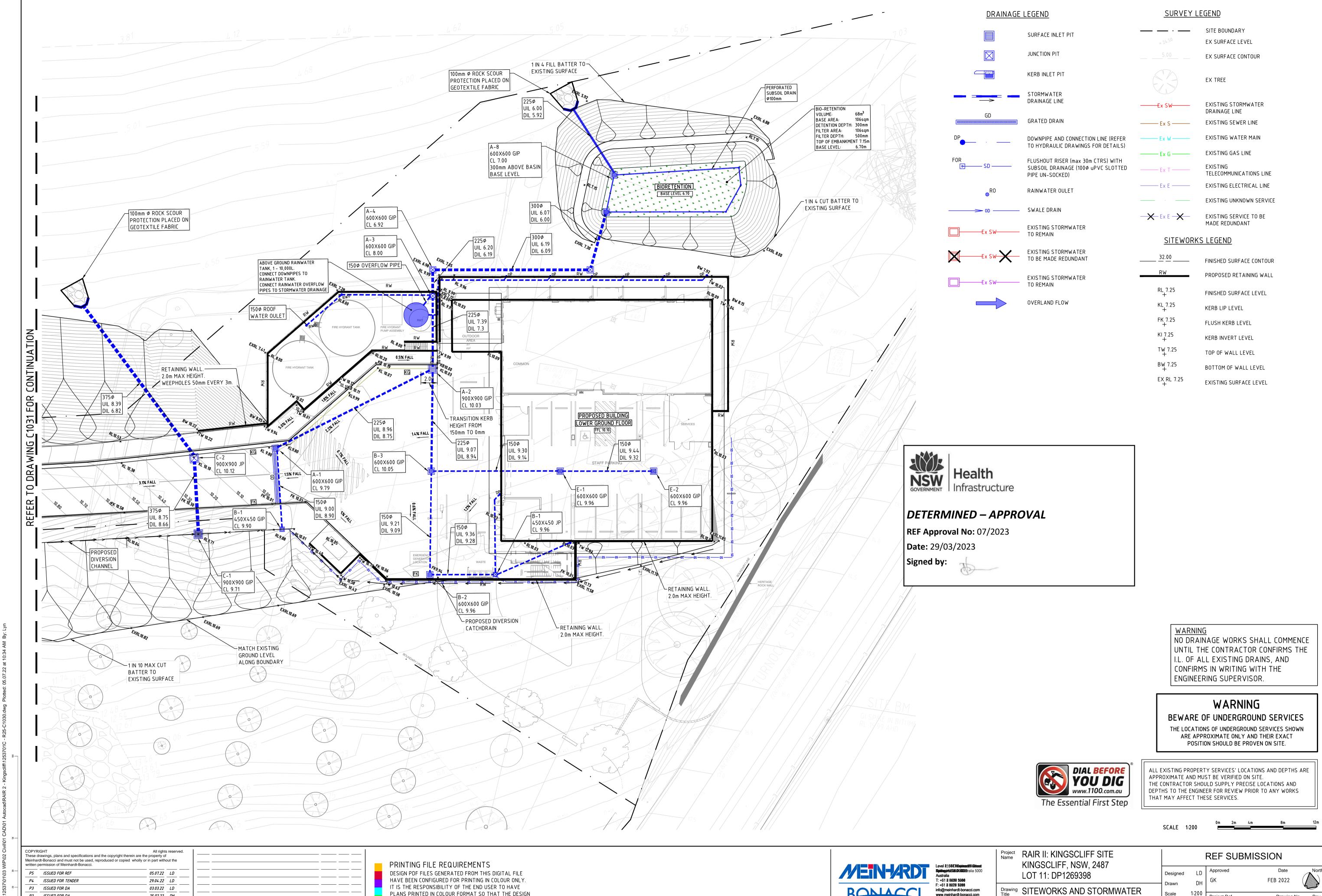
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DRAINAGE PLAN - LOWER GROUND

SHEET 1

12537 01 R25 C1030 P5

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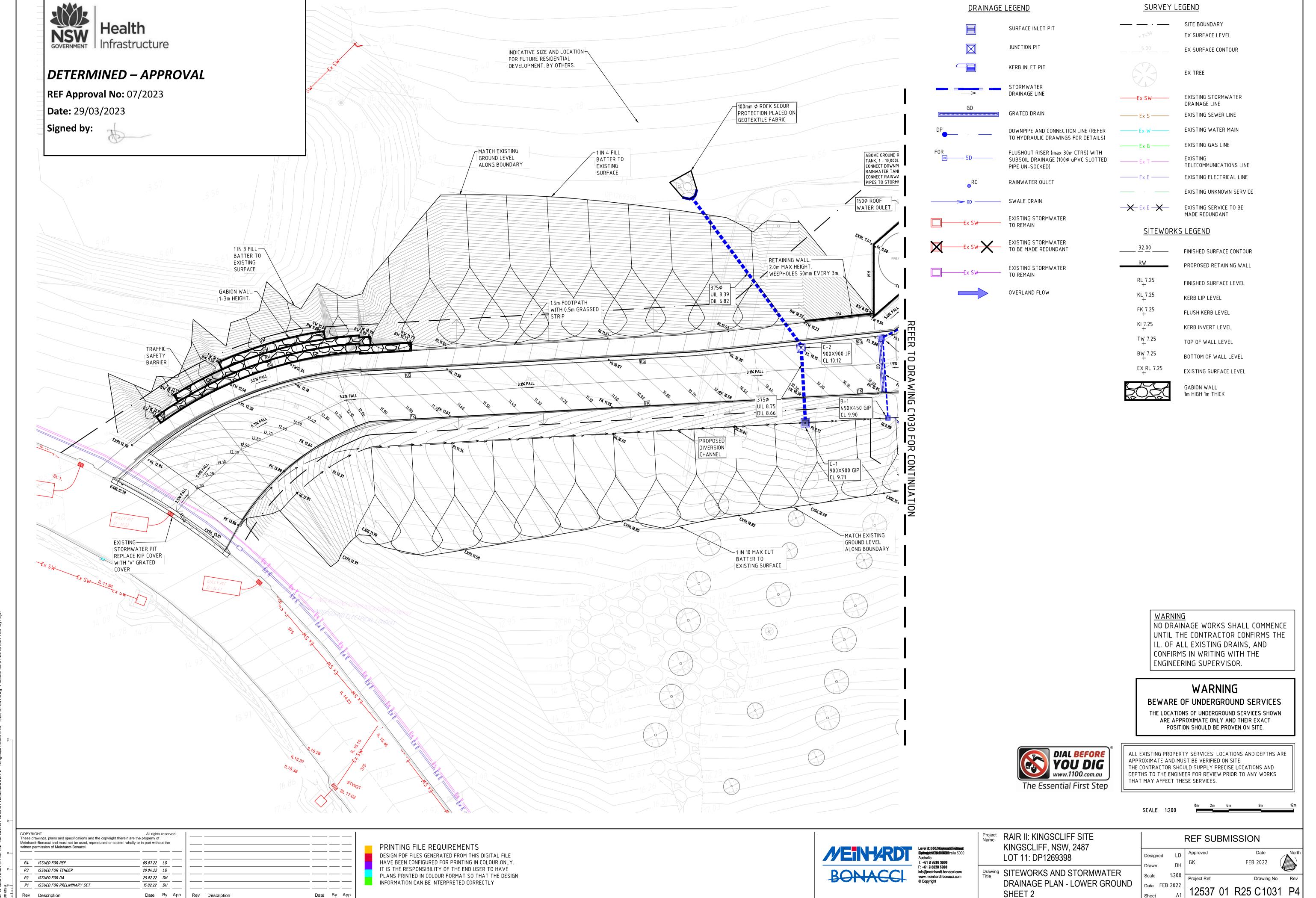
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15.02.22 DH

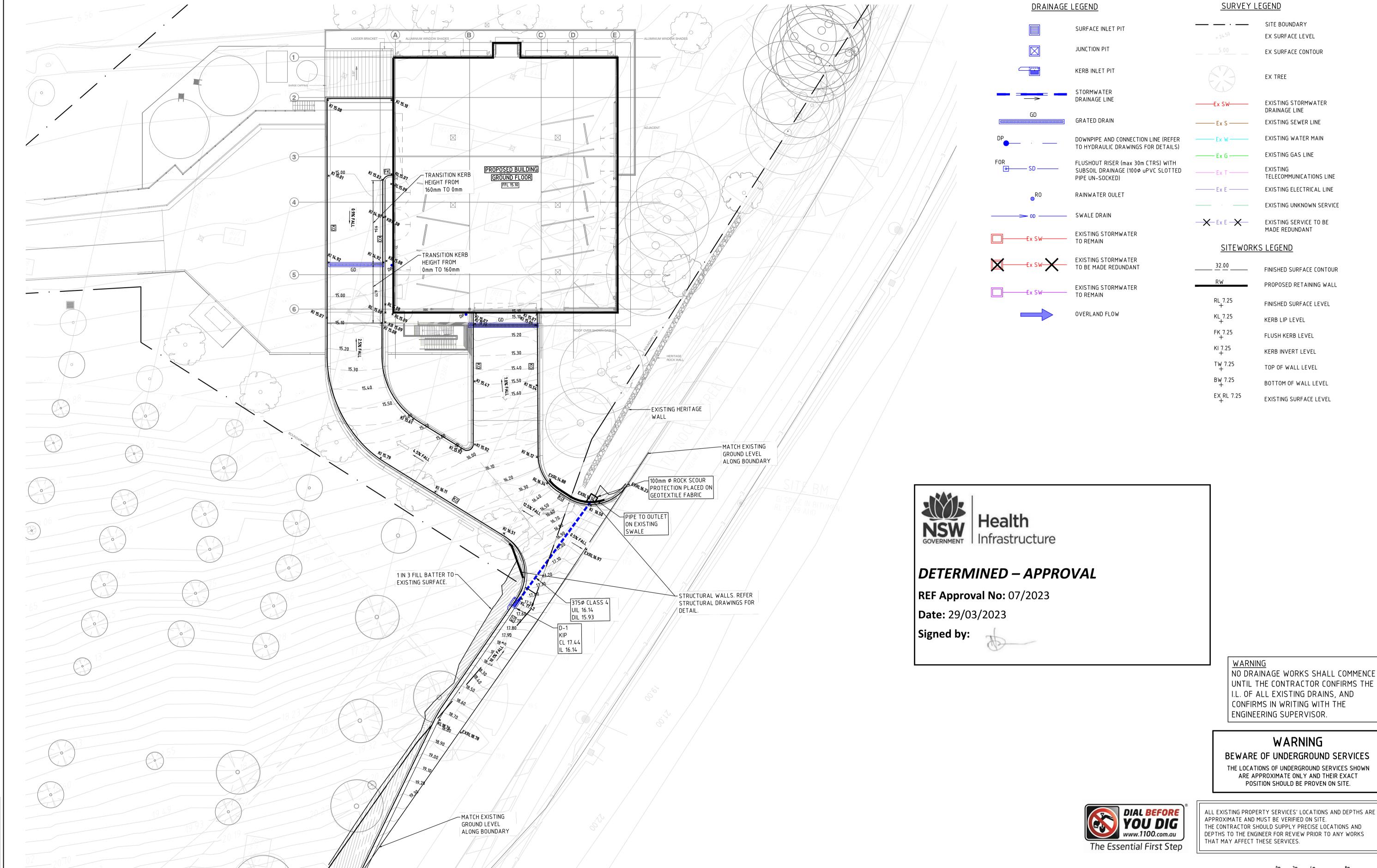
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Project Name	RAIR II: KINGSCLIFF SITE KINGSCLIFF, NSW, 2487 LOT 11: DP1269398
	LOT 11. DP1209396

awing	SITEWORKS AND STORMWATER
	DRAINAGE PLAN - GROUND FLOO
	SHEET 3

	REF S	UBMISSION
	Approved	

FEB 2022

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