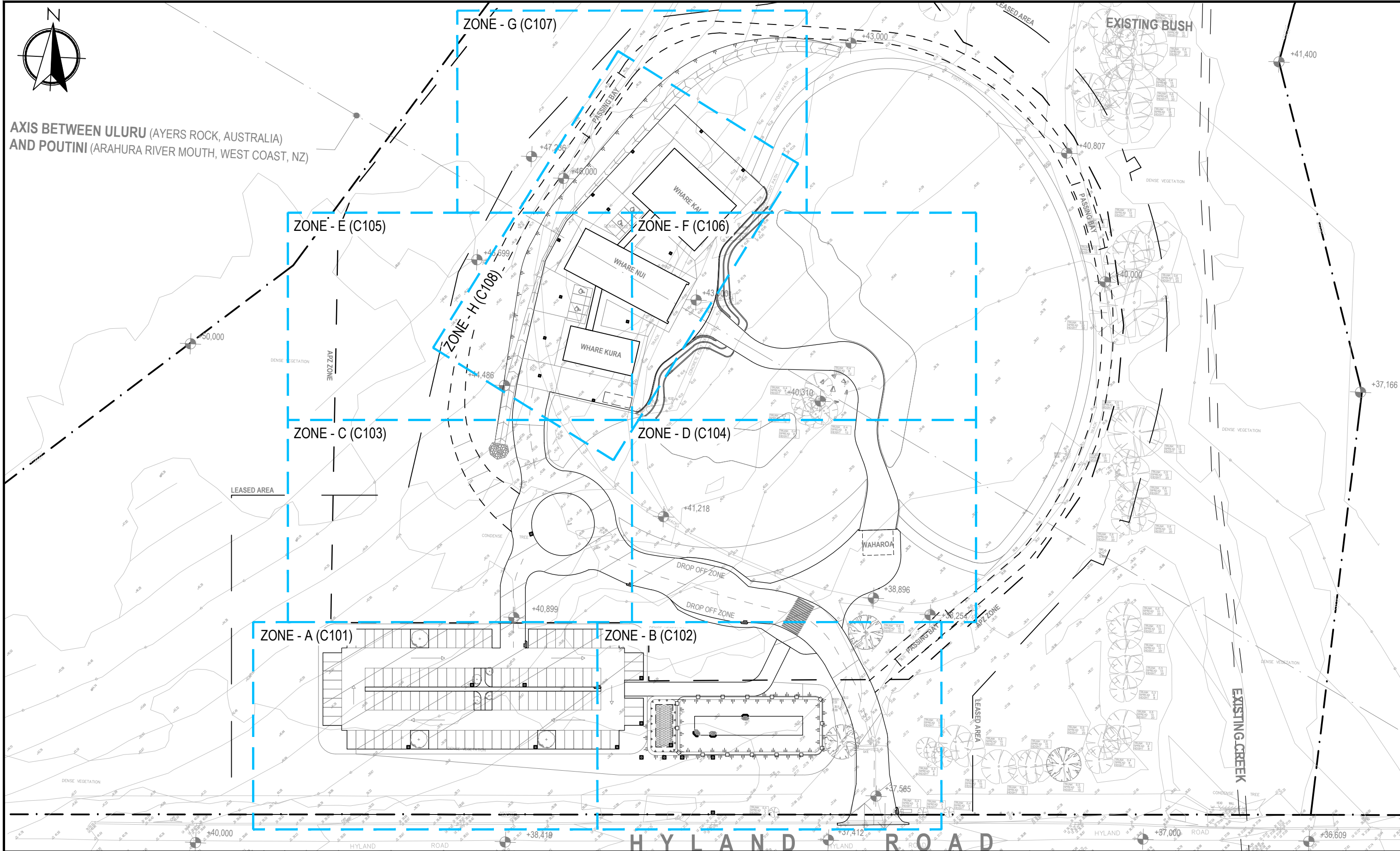




REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	21.03.2023	FS
B	APPROVAL ISSUE	22.03.2023	FS
C	APPROVAL ISSUE	23.03.2023	FS
D	APPROVAL ISSUE	23.03.2023	FS
E	APPROVAL ISSUE	29.09.2023	FS
F	APPROVAL ISSUE	05.10.2023	FS

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SCALE (mm) 1:1000

APPROVAL
ISSUE

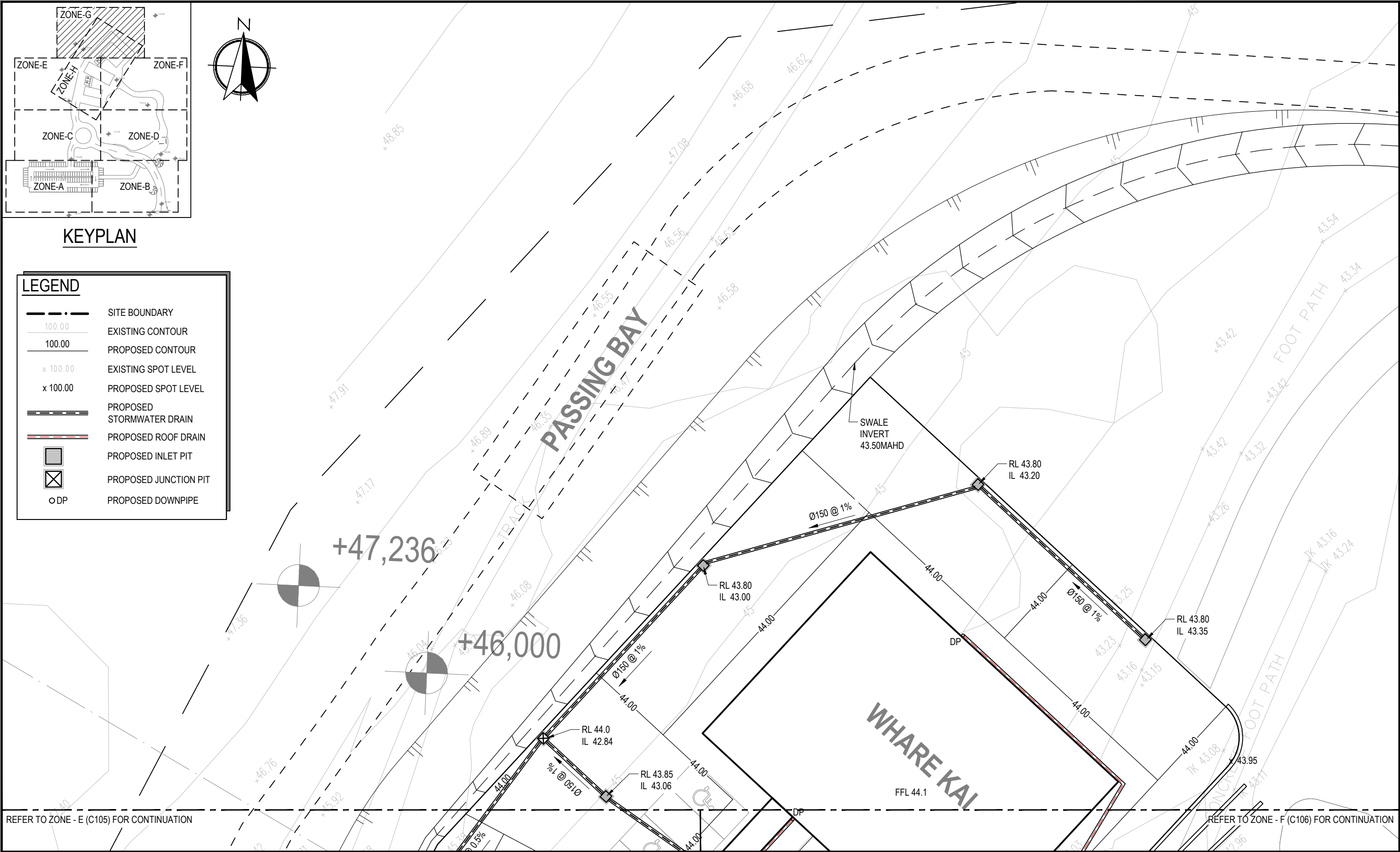
PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

OVERALL STORMWATER PLAN		
DATE:	MARCH 2023	DWG.No.
SCALE:	1:1000 @ A3	C100
JOB No.	230007	REV F



REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	29.09.2023	FS
B	APPROVAL ISSUE	05.10.2023	FS

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SCALE (mm) 1:250

APPROVAL
ISSUE

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

Richmond+Ross

PTY LIMITED

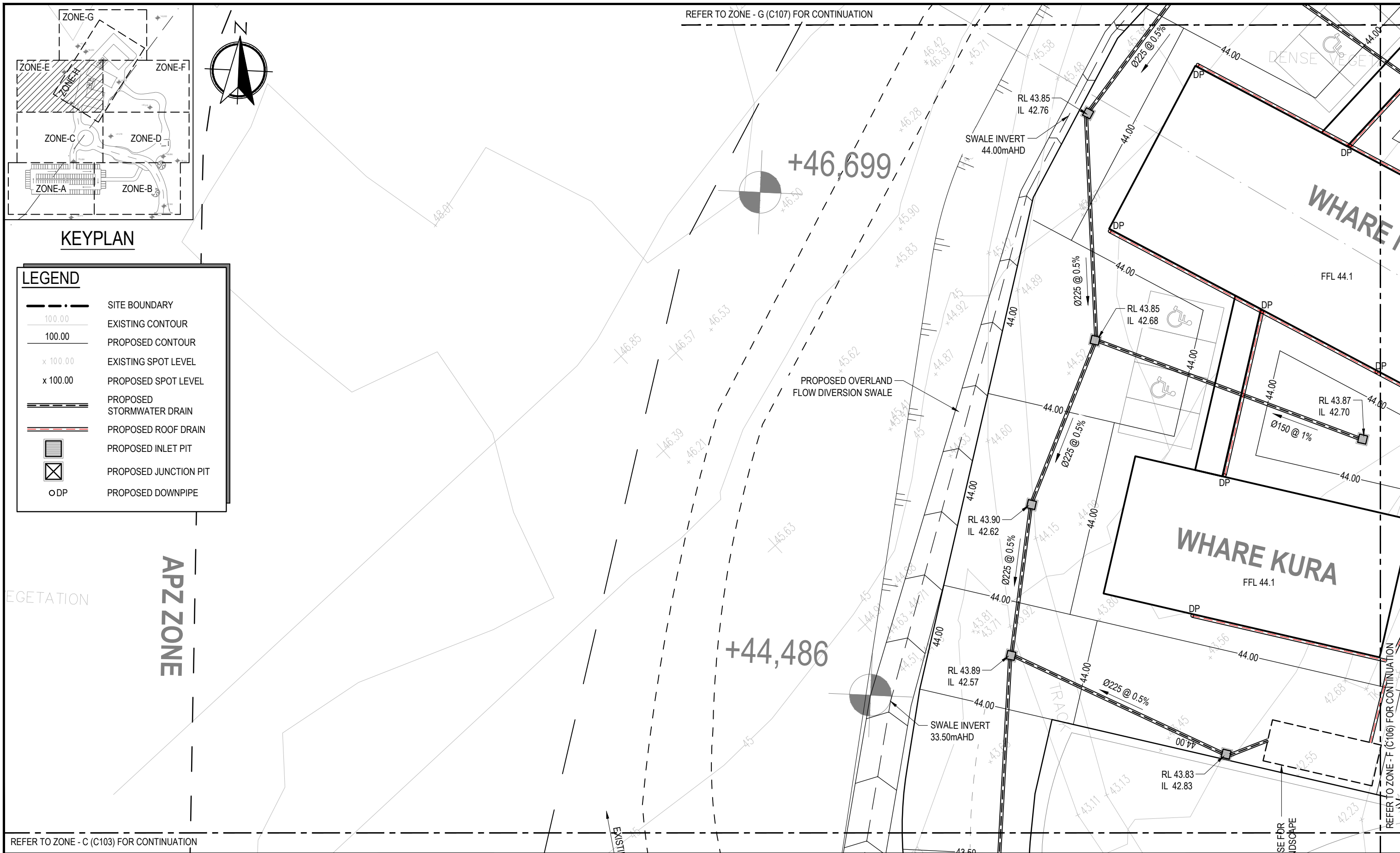
CONSULTING ENGINEERS AND PROJECT LEADERS

ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

STORMWATER PLAN
ZONE - G
SHEET 7 OF 8

DATE:	MARCH 2023	DWG.No.
SCALE:	1:250 @ A3	C107
JOB No.	230007	REV B



REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	21.03.2023	FS
B	APPROVAL ISSUE	22.03.2023	FS
C	APPROVAL ISSUE	23.03.2023	FS
D	APPROVAL ISSUE	23.03.2023	FS
E	APPROVAL ISSUE	29.09.2023	FS
F	APPROVAL ISSUE	05.10.2023	FS

0250050001000015000

SCALE (mm) 1:250

APPROVAL
ISSUE

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

Richmond+Ross

PTY LIMITED

CONSULTING ENGINEERS AND PROJECT LEADERS

ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

STORMWATER PLAN
ZONE - E
SHEET 5 OF 8

DATE: MARCH 2023

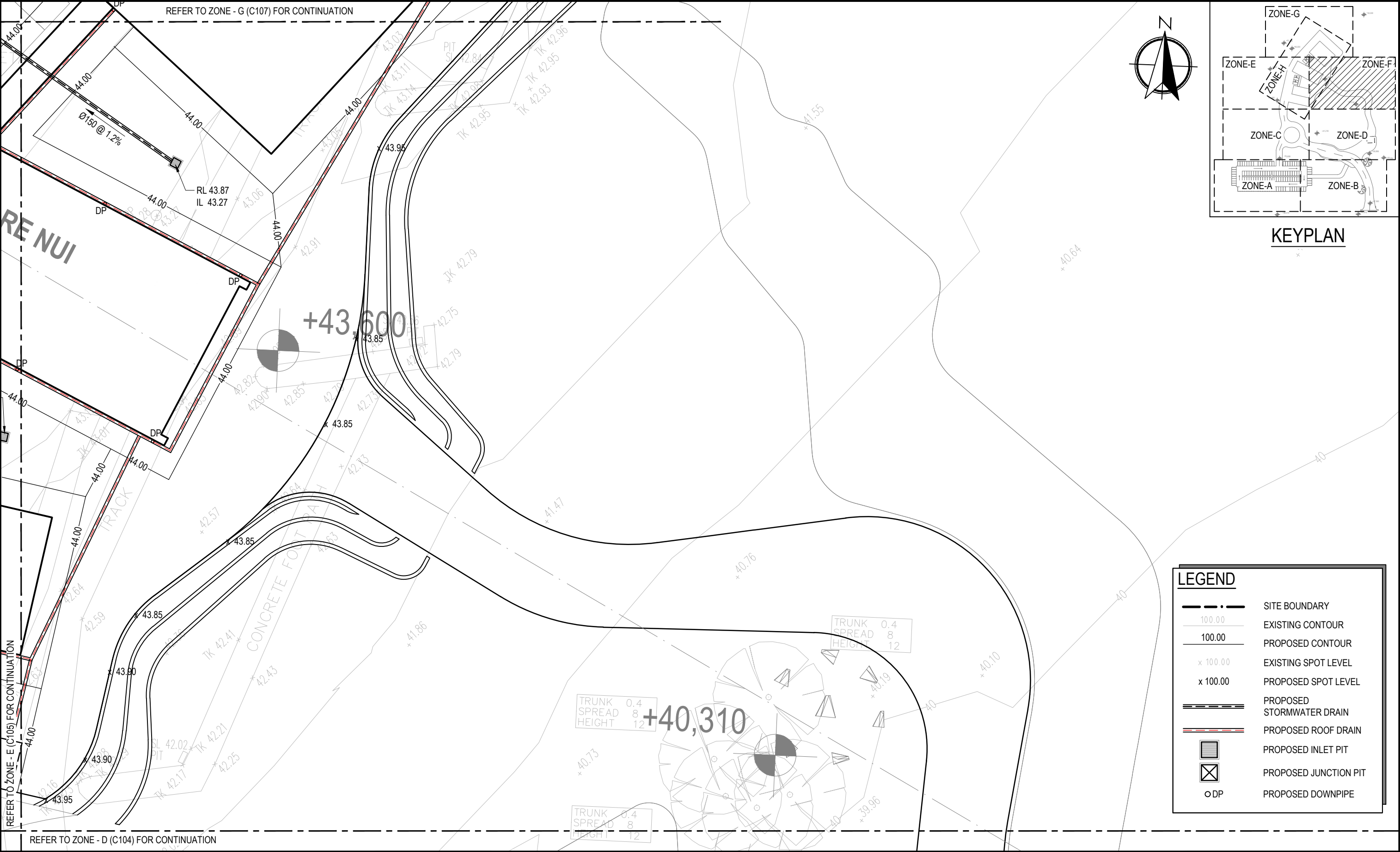
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JOB No. 230007

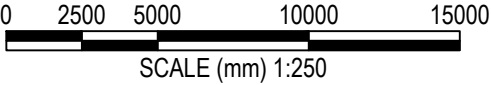
DWG.No.

C105

REV F



REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	29.09.2023	FS
B	APPROVAL ISSUE	05.10.2023	FS



APPROVAL
ISSUE

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

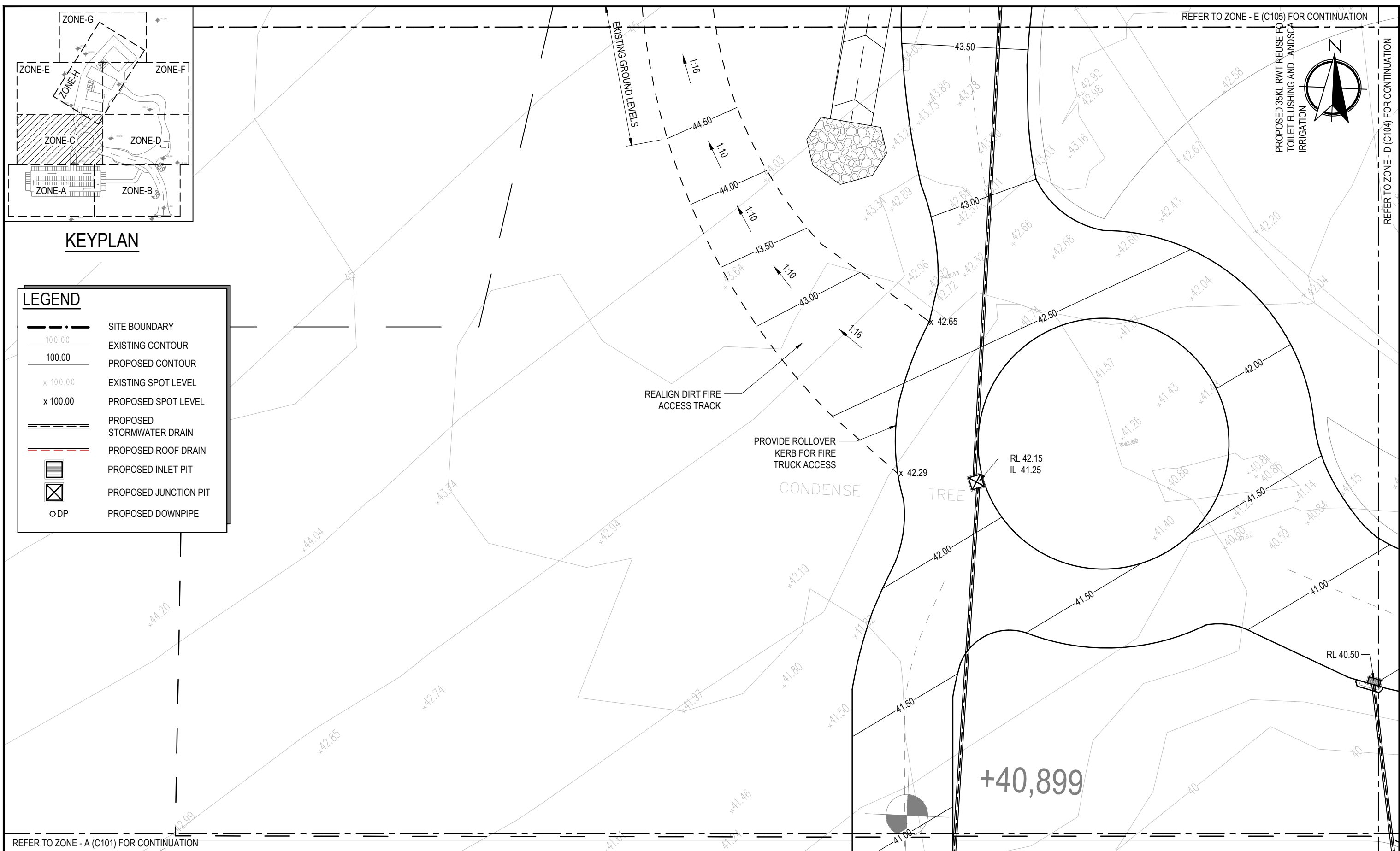
Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

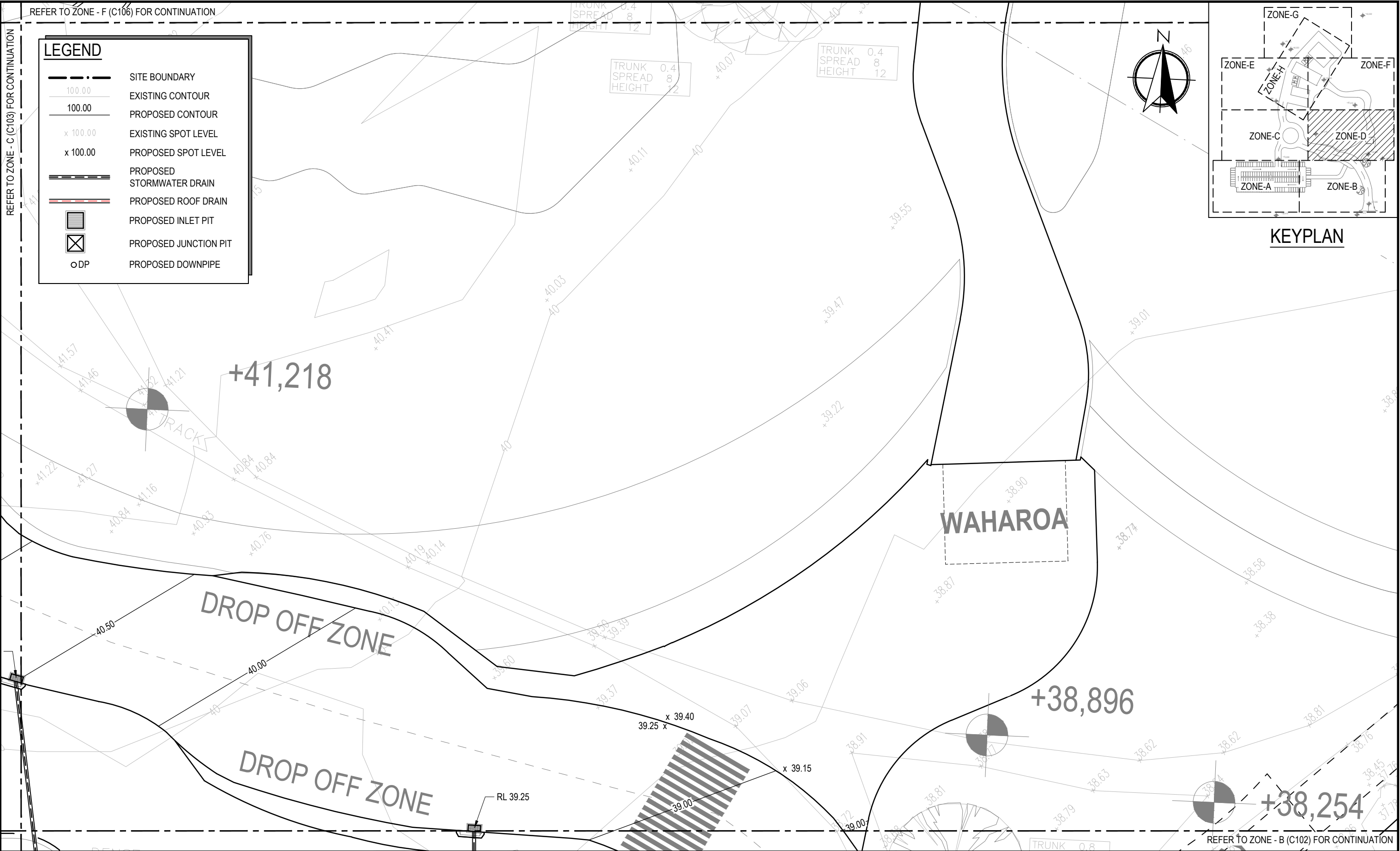
38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

STORMWATER PLAN
ZONE - F
SHEET 6 OF 8

DATE: MARCH 2023
SCALE: 1:250 @ A3
JOB No. 230007

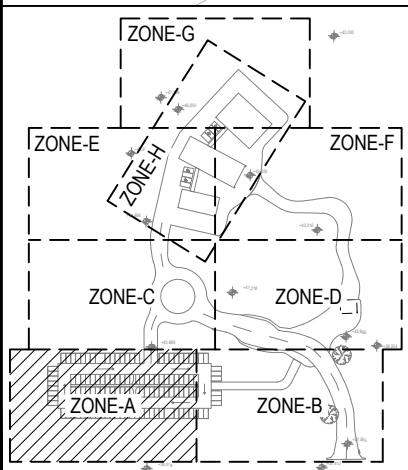
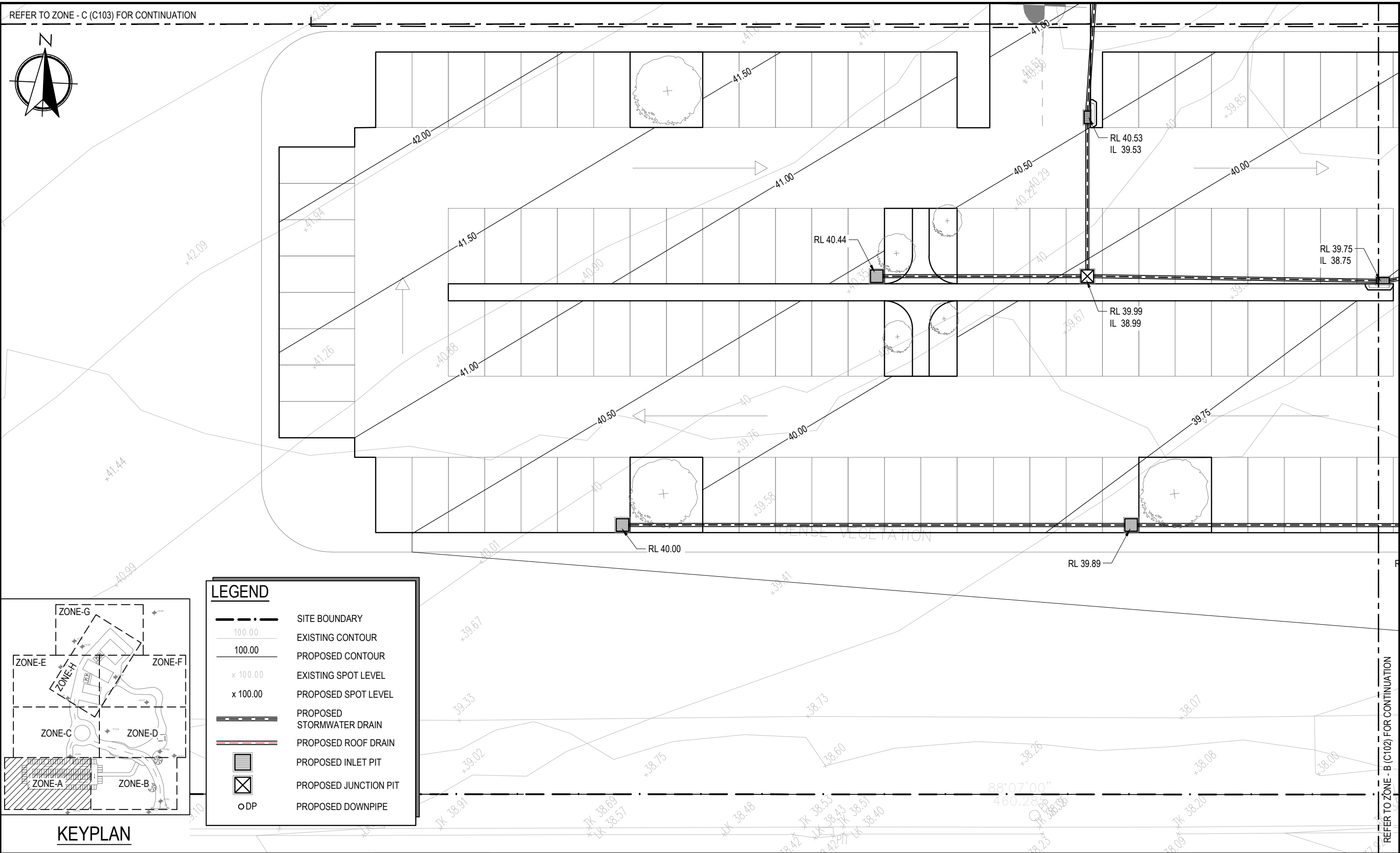
DWG.No.
C106
REV B





REV No.		COMMENTS	DATE	INIT.	0250050001000015000 SCALE (mm) 1:250	PROJECT: SYDNEY MAORI CULTURE CENTRE HYLAND ROAD RESERVE GREYSTANES, NSW 2145	Richmond+Ross CONSULTING ENGINEERS AND PROJECT LEADERS ABN 34 001 485 436	STORMWATER PLAN ZONE - D SHEET 4 OF 8			
A	APPROVAL ISSUE	21.03.2023	FS								
B	APPROVAL ISSUE	22.03.2023	FS	APPROVAL ISSUE		CLIENT: DKO ARCHITECTURE	38 WILLOUGHBY ROAD, CROWS NEST, NSW 2065 TEL : (02) 9490 9600 FAX : (02) 9438 1224	DATE:	MARCH 2023	DWG.No.	C104 REV F
C	APPROVAL ISSUE	23.03.2023	FS					SCALE:	1:250 @ A3		
D	APPROVAL ISSUE	23.03.2023	FS			JOB No.	230007				
E	APPROVAL ISSUE	29.09.2023	FS								
F	APPROVAL ISSUE	05.10.2023	FS								

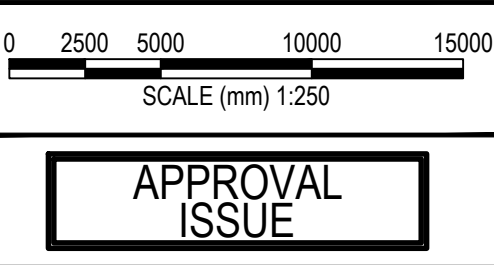
REFER TO ZONE - C (C103) FOR CONTINUATION



KEYPLAN

LEGEND	
	SITE BOUNDARY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING SPOT LEVEL
	PROPOSED SPOT LEVEL
	PROPOSED STORMWATER DRAIN
	PROPOSED ROOF DRAIN
	PROPOSED INLET PIT
	PROPOSED JUNCTION PIT
	PROPOSED DOWNPIPE

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	21.03.2023	FS
B	APPROVAL ISSUE	22.03.2023	FS
C	APPROVAL ISSUE	23.03.2023	FS
D	APPROVAL ISSUE	23.03.2023	FS
E	APPROVAL ISSUE	29.09.2023	FS
F	APPROVAL ISSUE	05.10.2023	FS



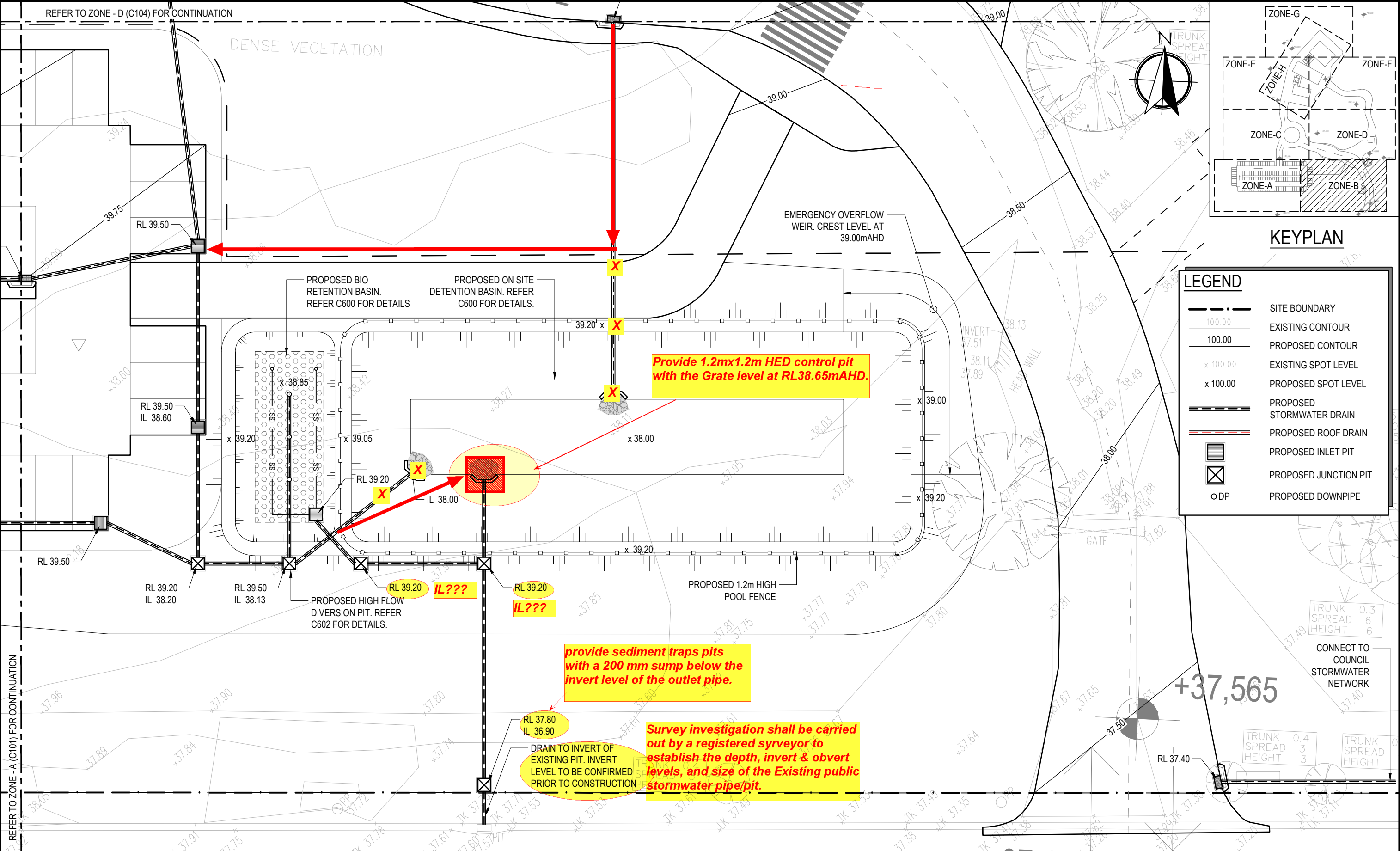
PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

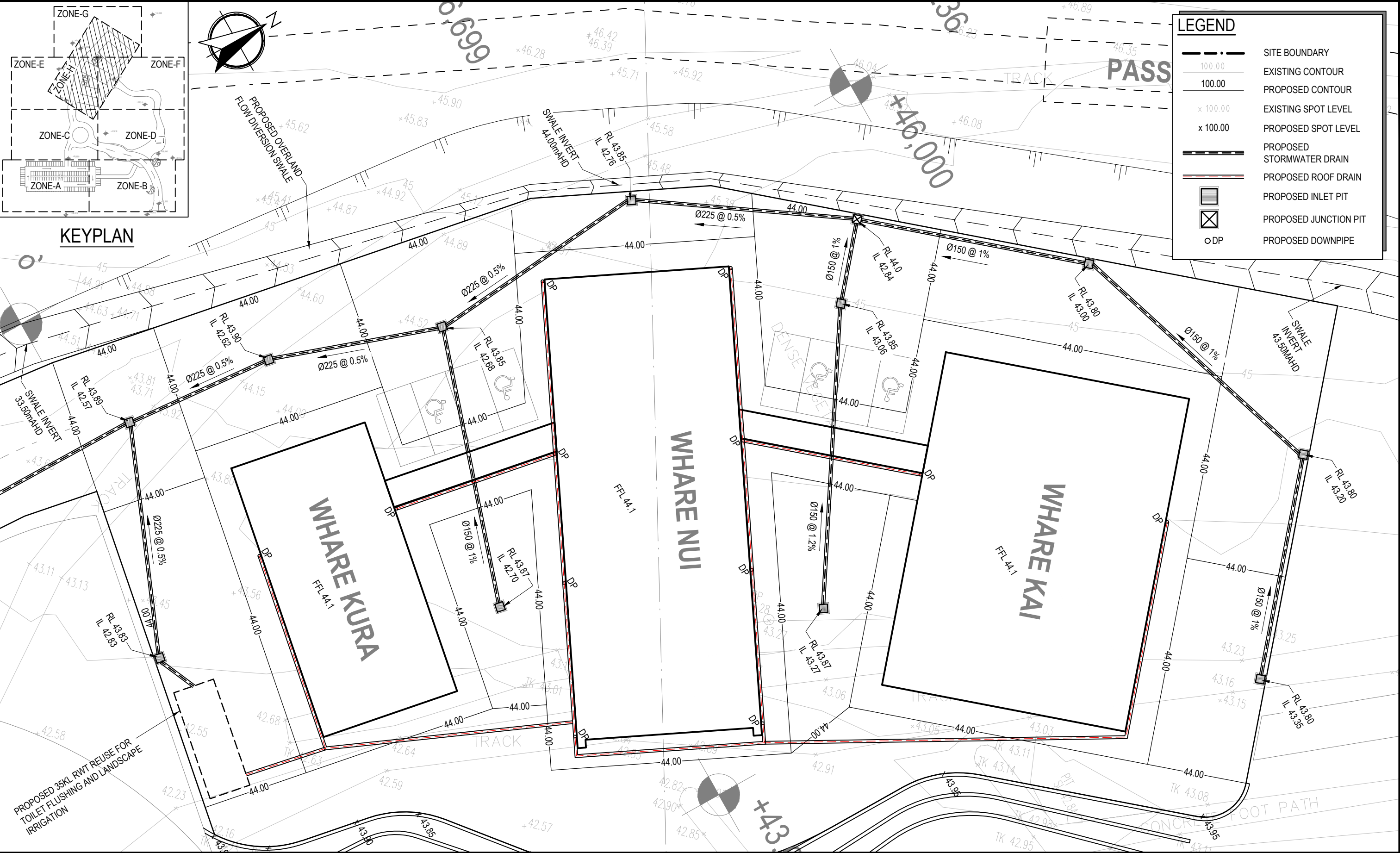
Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

STORMWATER PLAN ZONE - A SHEET 1 OF 8		
DATE:	MARCH 2023	DWG.No.
SCALE:	1:250 @ A3	C101
JOB No.	230007	REV F



REV No.	COMMENTS	DATE	INIT.	PROJECT: SYDNEY MAORI CULTURE CENTRE HYLAND ROAD RESERVE GREYSTANES, NSW 2145		Richmond+Ross PTY LIMITED CONSULTING ENGINEERS AND PROJECT LEADERS ABN 34 001 485 436		STORMWATER PLAN ZONE - B SHEET 2 OF 8	
A	APPROVAL ISSUE	21.03.2023	FS						
B	APPROVAL ISSUE	22.03.2023	FS	CLIENT: DKO ARCHITECTURE		38 WILLOUGHBY ROAD, CROWS NEST, NSW 2065 TEL : (02) 9490 9600 FAX : (02) 9438 1224		DATE:	MARCH 2023
C	APPROVAL ISSUE	23.03.2023	FS					SCALE:	1:250 @ A3
D	APPROVAL ISSUE	23.03.2023	FS	APPROVAL ISSUE				JOB No.	230007
E	APPROVAL ISSUE	29.09.2023	FS					DWG.No.	C102
F	APPROVAL ISSUE	05.10.2023	FS					REV	F



REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	05.10.2023	FS

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SCALE (mm) 1:250

**APPROVAL
ISSUE**

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

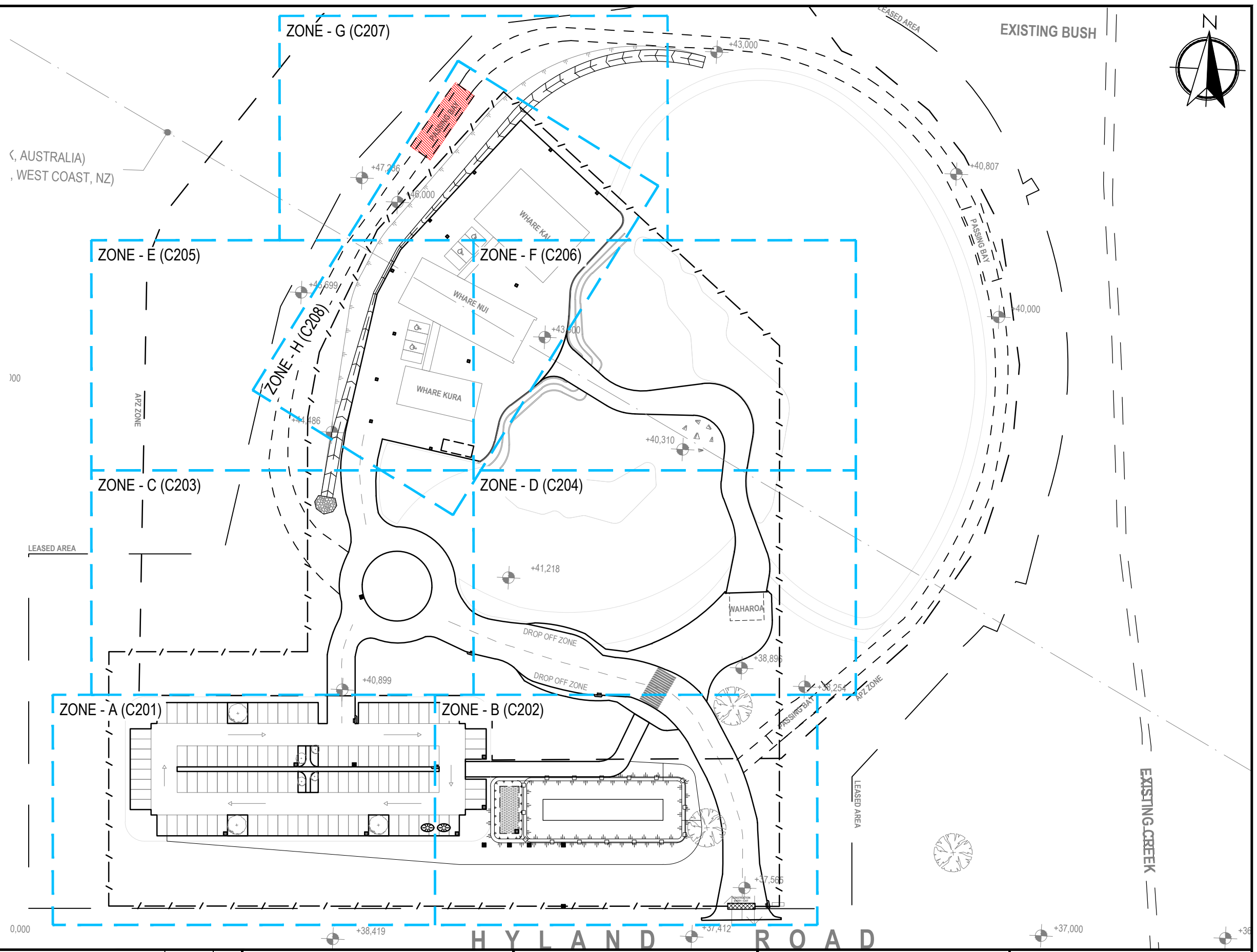
STORMWATER PLAN ZONE - H SHEET 8 OF 8		
DATE:	MARCH 2023	DWG.No.
SCALE:	1:250 @ A3	C108
JOB No.	230007	REV A

LEGEND

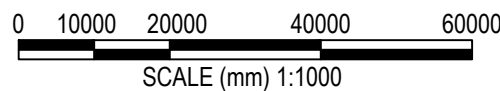
- / -- / -- SEDIMENT FENCE
-  SEDIMENT TRAP
-  CONSTRUCTION ENTRY/EXIT
-  STOCK PILE LOCATION

EROSION AND SEDIMENTATION
CONTROL NOTES

1. BUILDER SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE BOUNDARIES. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG.HUMES PROPEX SILT STOP) STANDING 300 ABOVE GROUND AND EXTENDING 150 BELOW GROUND.
2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
5. ROOF DRAINAGE, IF APPLICABLE, IS TO BE CONNECTED TO THE STORMWATER SYSTEM AS SOON AS PRACTICAL.
6. BUILDER SHALL CHECK ALL EROSION AND SEDIMENT CONTROL MEASURES EVERYDAY THERE IS ACTIVITY ON SITE AND AFTER EVERY STORM EVENT.
7. EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED BEFORE COMMENCEMENT OF WORKS. DISTURBED SURFACES ARE TO BE TREATED AS DETAILED WITH LINING INSTALLED AS SPECIFIED IN DETAIL.



REV.No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	23.03.2023	FS
B	APPROVAL ISSUE	23.03.2023	FS
C	APPROVAL ISSUE	05.10.2023	FS



APPROVAL
ISSUE

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

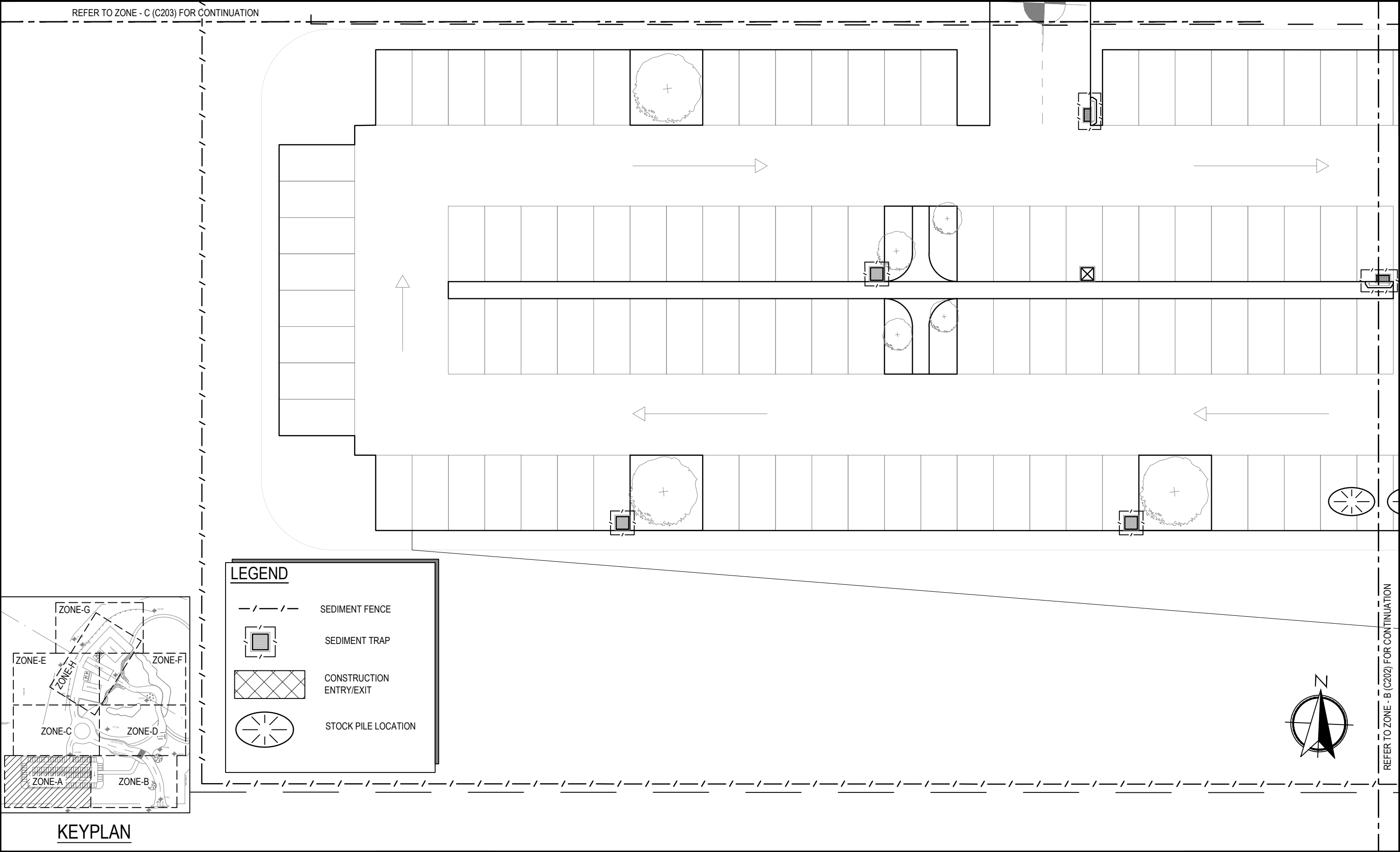
CLIENT:
DKO ARCHITECTURE

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

OVERALL
EROSION & SEDIMENT
CONTROL PLAN

DATE:	MARCH 2023	DWG.No.
SCALE:	1:1000 @ A3	C200
JOB No.	230007	REV C



REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	23.03.2023	FS
B	APPROVAL ISSUE	23.03.2023	FS
C	APPROVAL ISSUE	05.10.2023	FS

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SCALE (mm) 1:250

**APPROVAL
ISSUE**

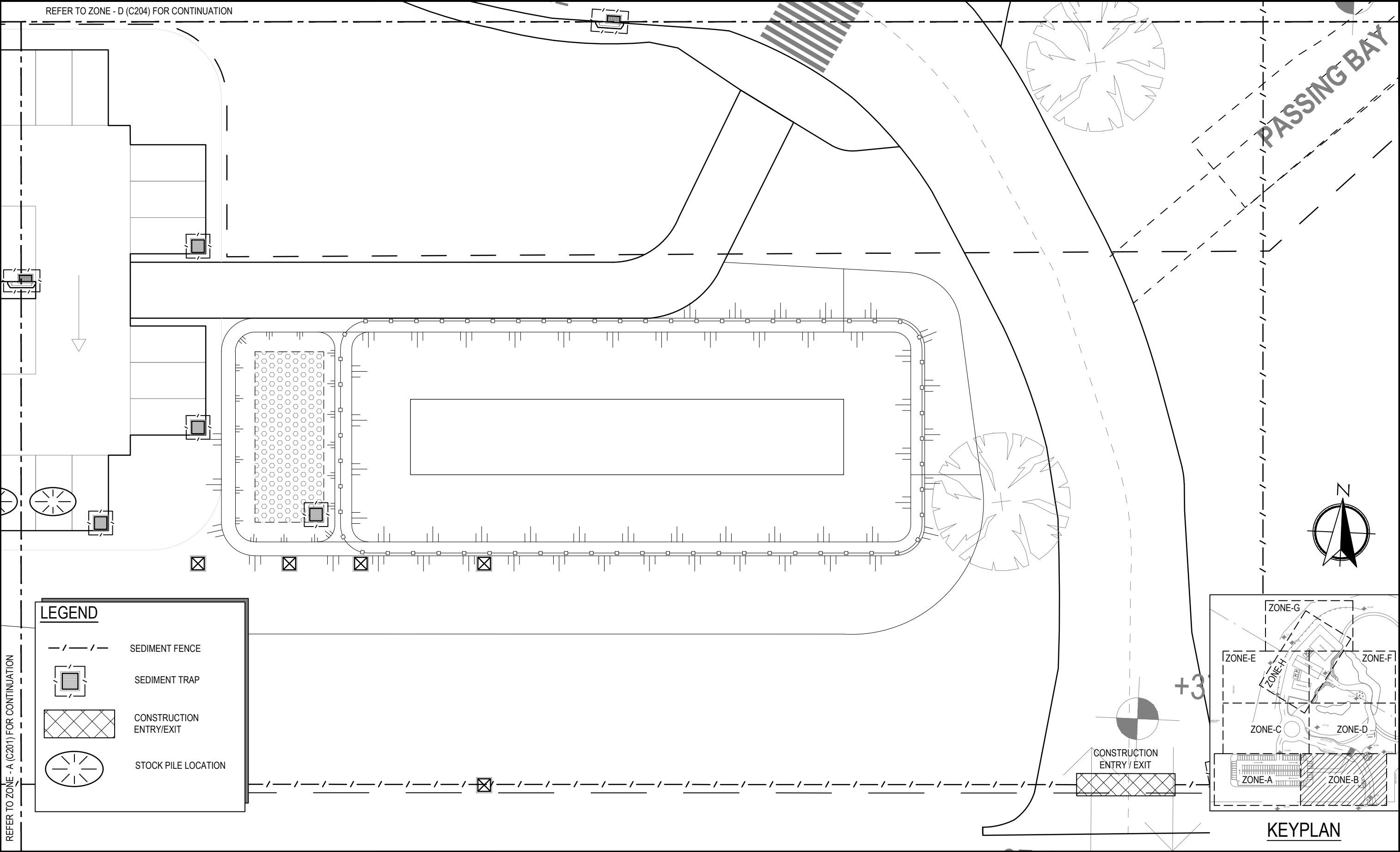
PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

EROSION & SEDIMENT CONTROL PLAN ZONE-A SHEET 1 OF 8		
DATE:	MARCH 2023	DWG.No.
SCALE:	1:250 @ A3	C201
JOB No.	230007	REV C



LEGEND

- SEDIMENT FENCE
- [Symbol] SEDIMENT TRAP
- [Symbol] CONSTRUCTION ENTRY/EXIT
- [Symbol] STOCK PILE LOCATION

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	23.03.2023	FS
B	APPROVAL ISSUE	23.03.2023	FS
C	APPROVAL ISSUE	05.10.2023	FS

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SCALE (mm) 1:250

**APPROVAL
ISSUE**

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

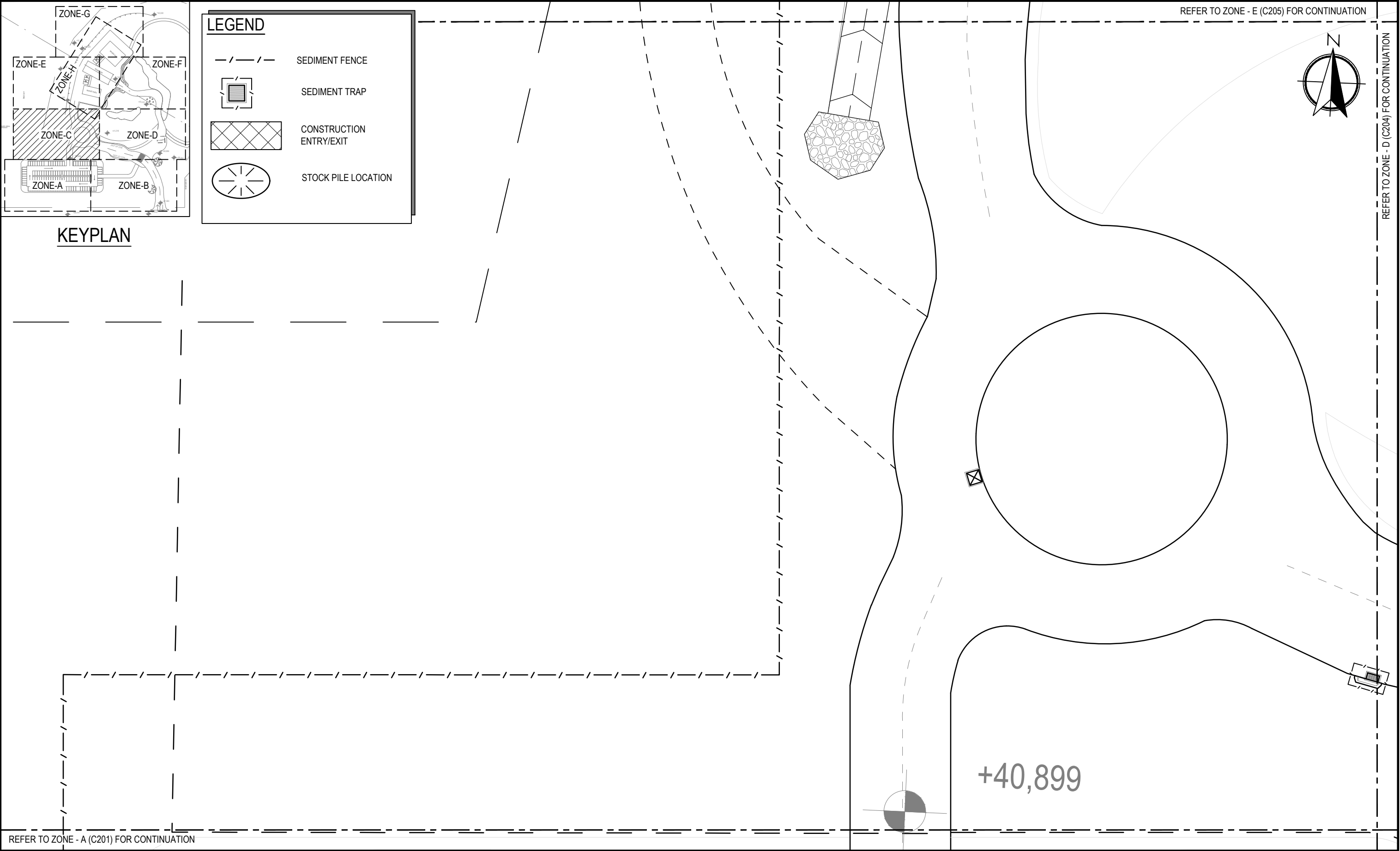
CLIENT:
DKO ARCHITECTURE

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

**EROSION & SEDIMENT
CONTROL PLAN
ZONE-B SHEET 2 OF 8**

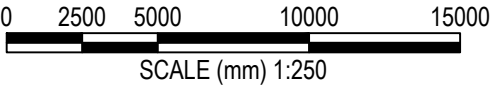
DATE:	MARCH 2023	DWG.No.
SCALE:	1:250 @ A3	C202
JOB No.	230007	REV C



REFER TO ZONE - A (C201) FOR CONTINUATION

REFER TO ZONE - E (C205) FOR CONTINUATION

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	23.03.2023	FS
B	APPROVAL ISSUE	23.03.2023	FS
C	APPROVAL ISSUE	05.10.2023	FS



APPROVAL
ISSUE

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

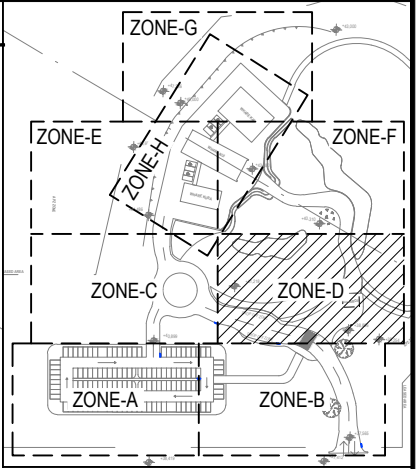
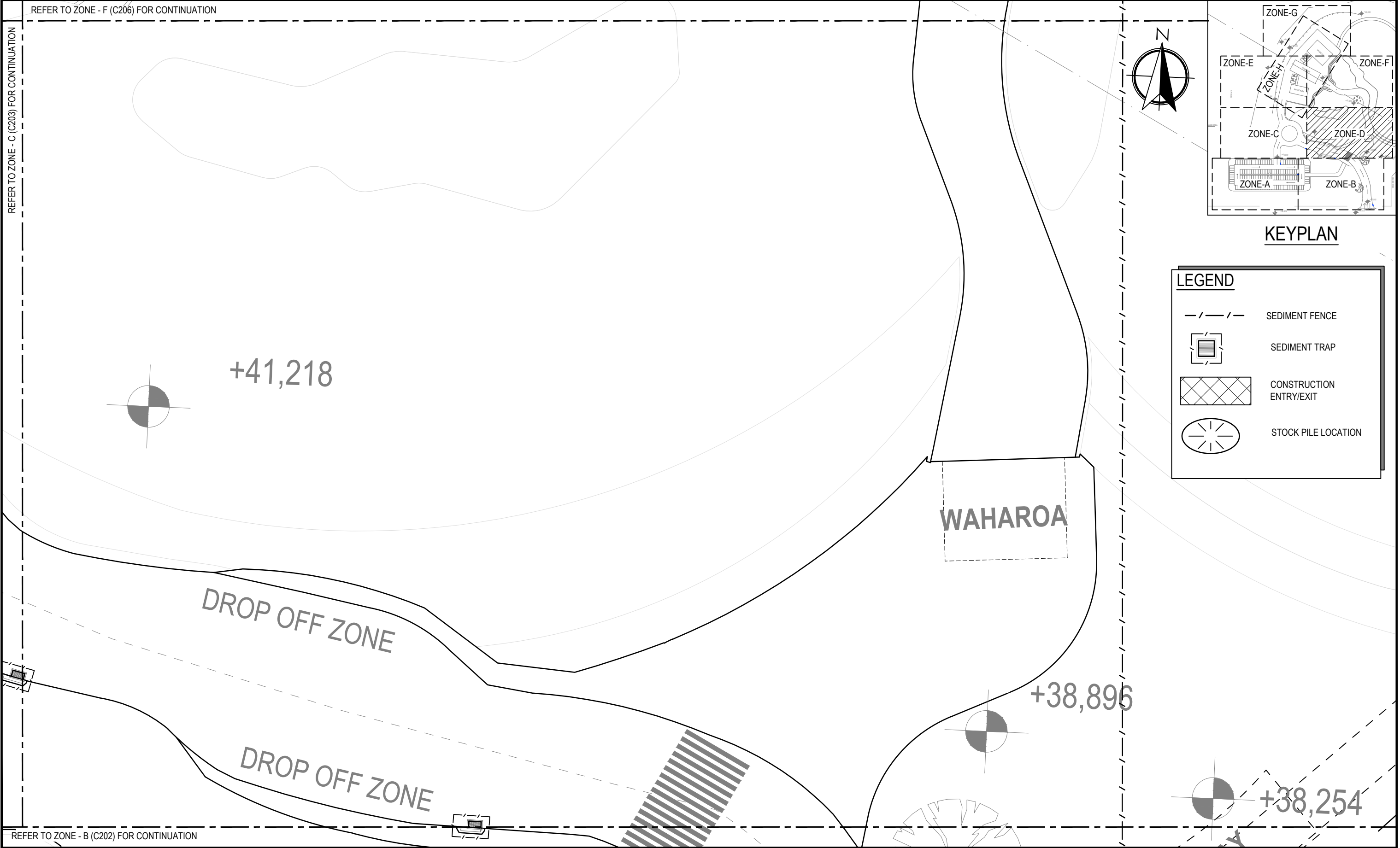
Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

EROSION & SEDIMENT
CONTROL PLAN
ZONE-C SHEET 3 OF 8

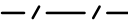
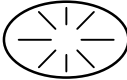
DATE: MARCH 2023
SCALE: 1:250 @ A3
JOB No. 230007

DWG.No.
C203
REV C

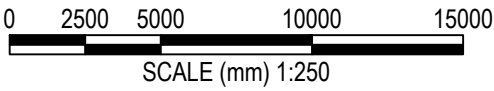


KEYPLAN

LEGEND

-  SEDIMENT FENCE
-  SEDIMENT TRAP
-  CONSTRUCTION ENTRY/EXIT
-  STOCK PILE LOCATION

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	23.03.2023	FS
B	APPROVAL ISSUE	23.03.2023	FS
C	APPROVAL ISSUE	05.10.2023	FS



APPROVAL
ISSUE

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

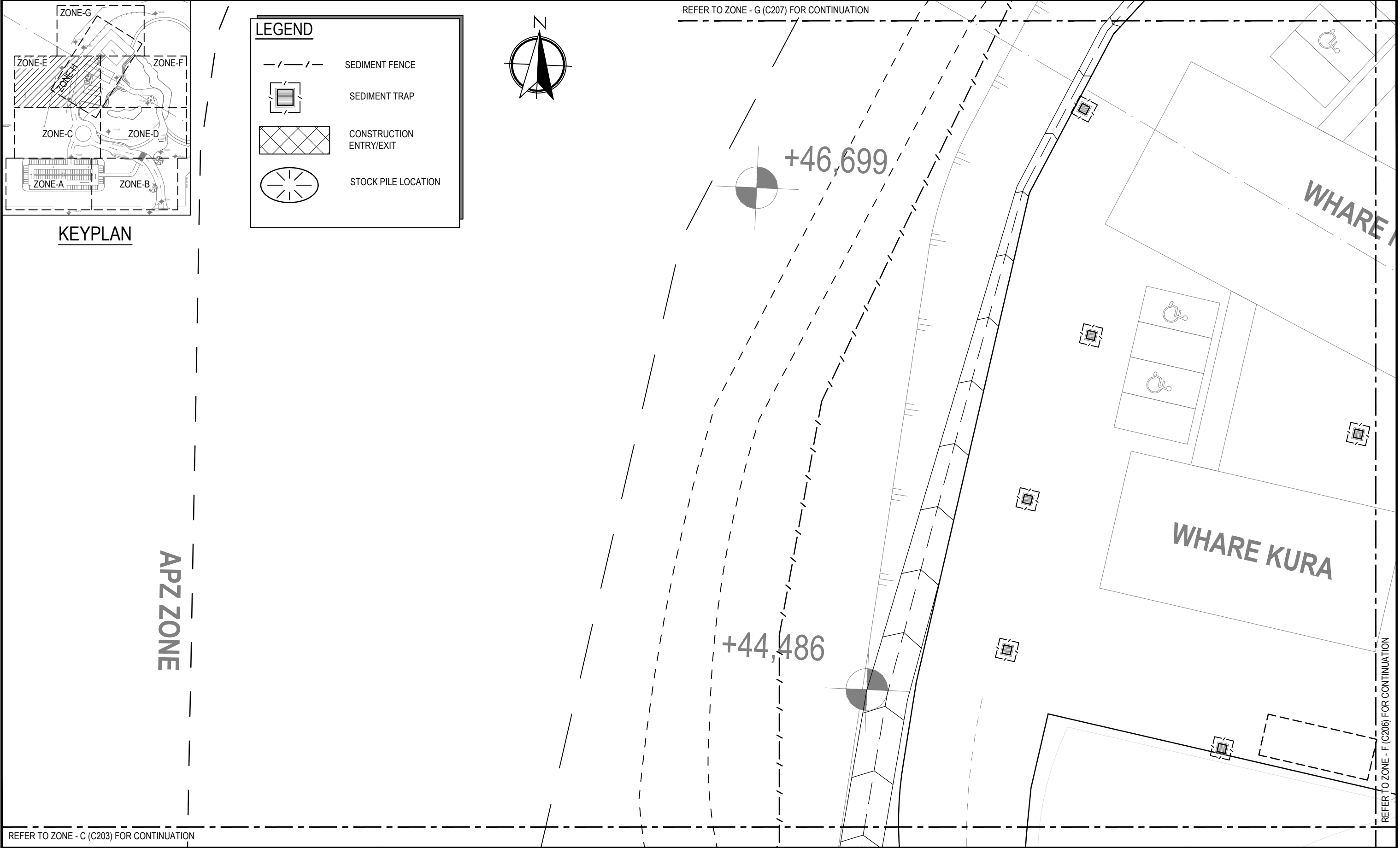
CLIENT:
DKO ARCHITECTURE

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

EROSION & SEDIMENT
CONTROL PLAN
ZONE-D SHEET 4 OF 8

DATE:	MARCH 2023	DWG.No.
SCALE:	1:250 @ A3	C204
JOB No.	230007	REV C



REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	23.03.2023	FS
B	APPROVAL ISSUE	23.03.2023	FS
C	APPROVAL ISSUE	05.10.2023	FS

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SCALE (mm) 1:250

APPROVAL
ISSUE

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
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EROSION & SEDIMENT CONTROL PLAN ZONE-E SHEET 5 OF 8		
DATE:	MARCH 2023	DWG.No.
SCALE:	1:250 @ A3	C205
JOB No.	230007	REV C



REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	05.10.2023	FS

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SCALE (mm) 1:250

APPROVAL
ISSUE

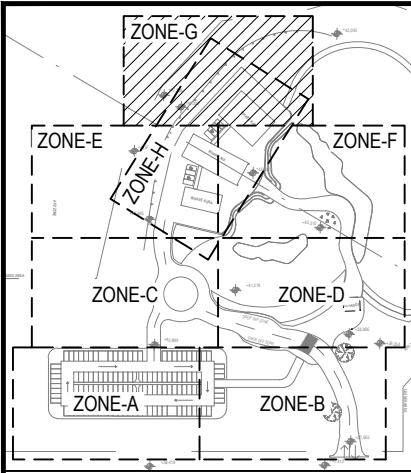
PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

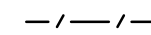
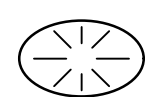
38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

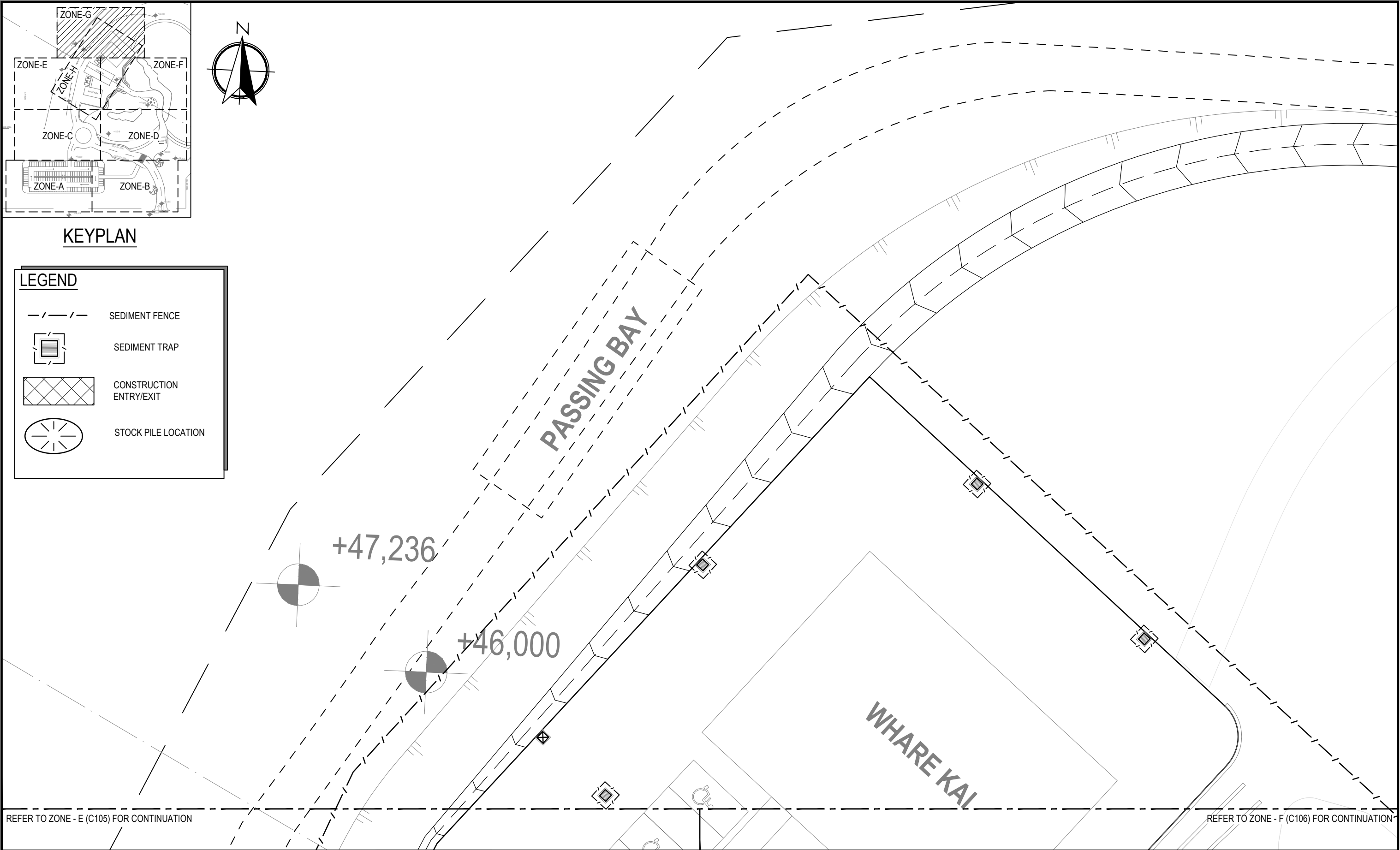
EROSION & SEDIMENT CONTROL PLAN ZONE-F SHEET 6 OF 8		
DATE:	MARCH 2023	DWG.No.
SCALE:	1:250 @ A3	C206
JOB No.	230007	REV A



KEYPLAN

LEGEND

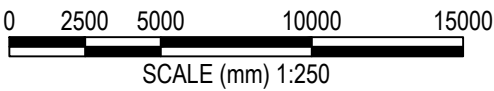
-  SEDIMENT FENCE
-  SEDIMENT TRAP
-  CONSTRUCTION ENTRY/EXIT
-  STOCK PILE LOCATION



REFER TO ZONE - E (C105) FOR CONTINUATION

REFER TO ZONE - F (C106) FOR CONTINUATION

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	05.10.2023	FS

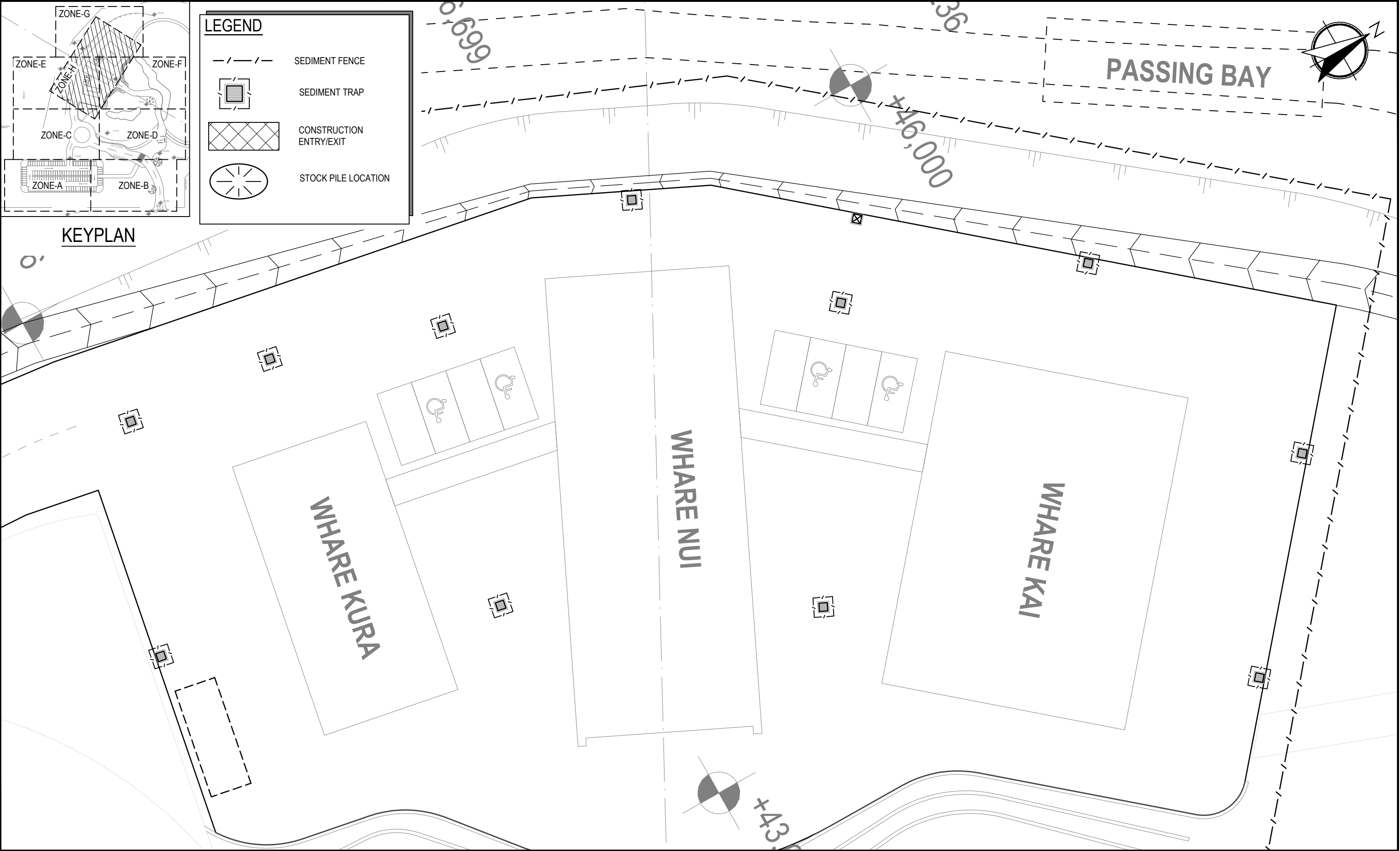


APPROVAL
ISSUE

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145
CLIENT:
DKO ARCHITECTURE

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436
38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

EROSION & SEDIMENT
CONTROL PLAN
ZONE-G SHEET 7 OF 8
DATE: MARCH 2023
SCALE: 1:250 @ A3
JOB No. 230007
DWG.No. C207
REV A



REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	05.10.2023	FS

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SCALE (mm) 1:250

APPROVAL
ISSUE

PROJECT:
SYDNEY MAORI CULTURE CENTRE
HYLAND ROAD RESERVE
GREYSTANES, NSW 2145

CLIENT:
DKO ARCHITECTURE

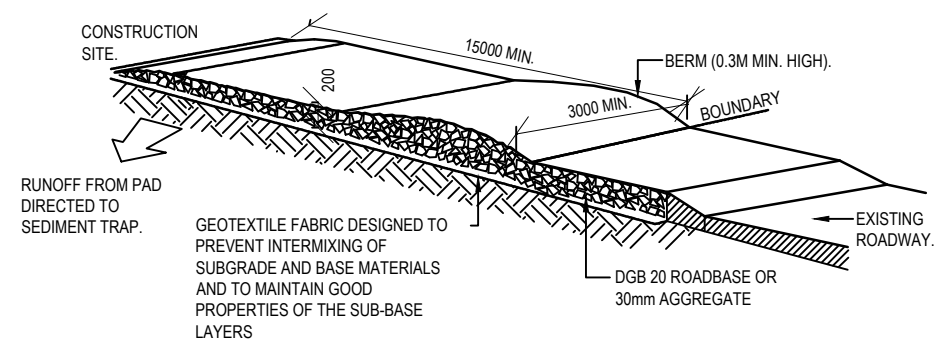
Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS AND PROJECT LEADERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
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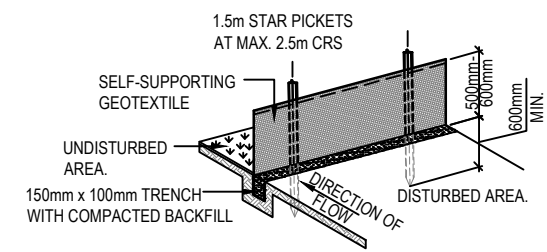
EROSION & SEDIMENT
CONTROL PLAN
ZONE-H SHEET 8 OF 8

DATE: MARCH 2023
SCALE: 1:250 @ A3
JOB No. 230007

DWG.No. C208
REV A



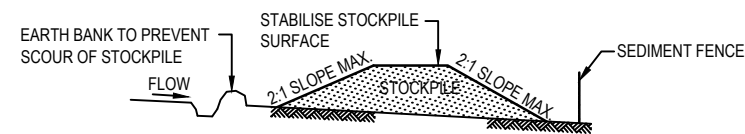
TEMPORARY CONSTRUCTION ENTRY
NTS



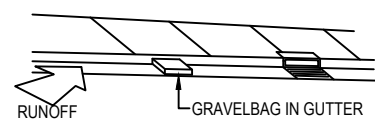
SEDIMENT FENCE
NTS

EROSION AND SEDIMENTATION CONTROL NOTES:

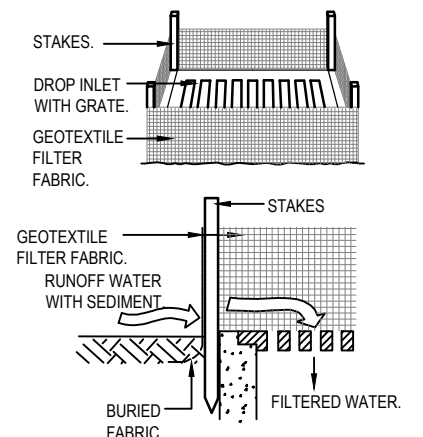
1. BUILDER SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE BOUNDARIES. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG.HUMES PROPEX SILT STOP) STANDING 300 ABOVE GROUND AND EXTENDING 150 BELOW GROUND.
2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
5. ROOF DRAINAGE IS TO BE CONNECTED TO THE STORMWATER SYSTEM AS SOON AS PRACTICAL.
6. BUILDER SHALL CHECK AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES EVERYDAY THERE IS ACTIVITY ON SITE AND AFTER EVERY STORM EVENT.
7. EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED BEFORE COMMENCEMENT OF WORKS. DISTURBED SURFACES ARE TO BE TREATED AS DETAILED WITH LINING INSTALLED AS SPECIFIED IN DETAIL.



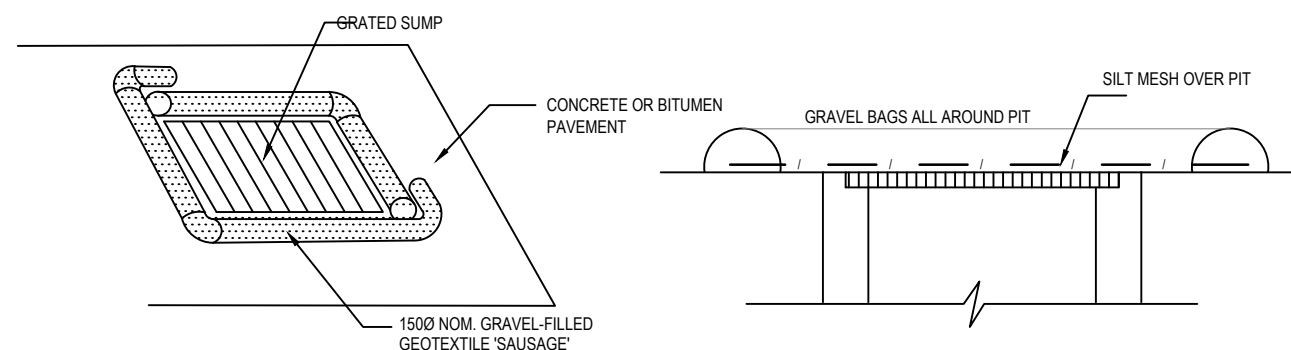
BUILDING MATERIAL STOCKPILES
NTS



GRAVELBAG KERB SEDIMENT TRAP
NTS



SEDIMENT TRAP TO STORMWATER SUMP
NTS



GRAVEL BAG SURROUND AT PIT
NTS

REV No.	COMMENTS	DATE	INIT.	APPROVAL ISSUE	PROJECT:	Richmond+Ross PTY LIMITED CONSULTING ENGINEERS AND PROJECT LEADERS ABN 34 001 485 436	EROSION & SEDIMENT CONTROL DETAILS	
A	APPROVAL ISSUE	23.03.2023	FS		SYDNEY MAORI CULTURE CENTRE HYLAND ROAD RESERVE GREYSTANES, NSW 2145			
					CLIENT:	38 WILLOUGHBY ROAD, CROWS NEST, NSW 2065 TEL : (02) 9490 9600 FAX : (02) 9438 1224	DATE: MARCH 2023	DWG.No.
							SCALE: NTS @ A3	C250
							JOB No. 230007	REV A

GENERAL NOTES

- CONTRACTOR SHALL CONTACT OCEAN PROTECT TO COORDINATE DELIVERY AND INSTALLATION OF FILTERRA BIOSCAPE SYSTEM. OCEAN PROTECT ACTIVATION CAN ONLY OCCUR ONCE CONTRACTOR RESPONSIBILITIES ARE COMPLETE.
- PERFORM FILTERRA BIOSCAPE SYSTEM EXCAVATION ONLY AFTER ALL THE CONTRIBUTING DRAINAGE AREAS ARE PERMANENTLY STABILISED. IF FILTERRA BIOSCAPE SYSTEM IS IN AN AREA PREVIOUSLY USED AS EROSION AND SEDIMENT CONTROL FACILITIES PLEASE CONTACT OCEAN PROTECT. DO NOT STOCKPILE MATERIALS OR STORE EQUIPMENT IN THIS AREA. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT CONSTRUCTION-RELATED EROSION RUNOFF FROM ENTERING THE FILTERRA MEDIA BAY.
- FILTERRA SHALL BE INSTALLED OFFLINE AS EARLY AS POSSIBLE AFTER SITE STABILISATION TO ALLOW FOR SOIL MATURITY AND SYSTEM ESTABLISHMENT.
- CONTRACTOR SHALL COORDINATE WITH OCEAN PROTECT BEFORE THE FILTERRA BIOSCAPE SYSTEM IS EXCAVATED TO MINIMISE THE TIME BETWEEN EXCAVATION AND COMPLETION OF THE FILTERRA BIOSCAPE SYSTEM. ONCE EXCAVATED, ANY STANDING WATER THAT ACCUMULATES IN THE EXCAVATED AREA MUST BE REMOVED BY THE CONTRACTOR BEFORE OCEAN PROTECT CAN COMMENCE THE FILTERRA BIOSCAPE SYSTEM. ANY ADDITIONAL EXCAVATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE ACCESS TO THE EXCAVATED AREA(S) FOR OCEAN PROTECT TO USE DURING THE CONSTRUCTION OF THE FILTERRA BIOSCAPE SYSTEM(S). ACCESS SHALL NOT PROHIBIT LIGHT DUTY EQUIPMENT THAT MAY BE USED TO INSTALL THE COMPONENTS (STONE, MEDIA, ETC). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY RE-STABILIZATION THAT MAY BE REQUIRED AFTER THE FILTERRA BIOSCAPE SYSTEM INSTALLATION/ACTIVATION.
- OCEAN PROTECT AND/OR ITS REPRESENTATIVES SHALL BE RESPONSIBLE FOR THE LIST ENTITLED 'OCEAN PROTECT INSTALLATION RESPONSIBILITIES'.
- NO FLOW SHALL ENTER THE FILTERRA SYSTEM UNLESS OCEAN PROTECT HAS ACTIVATED THE SYSTEM AND CONFIRMED ESTABLISHMENT
- IF FILTERRA IS WITHIN AN OVERLAND FLOW PATH, PLEASE CONTACT OCEAN PROTECT

CONTRACTOR WORKS AND INSTALLATION RESPONSIBILITIES

- A. CONTRACTOR TO PLACE FILTERRA INLET STRUCTURE ON BEDDING AS SPECIFIED BY THE ENGINEER. OCEAN PROTECT SUGGESTS AS A MINIMUM TO USE 150MM BEDDING STONE ON COMPACTED SUB-GRADE TO 90% DENSITY. UNSUTIABLE MATERIAL SHALL BE REPLACED AS ADVISED BY THE ENGINEER.
- B. CONTRACTOR SHALL PROVIDE AND INSTALL DRAINAGE ITEMS TO, FROM AND INCLUDING THE INLET AND OUTLET STUCTURES AS PER THE APPROVED SITE PLANS.
- C. OCEAN PROTECT CAN PROVIDE COUPLERS AT THE FILTERRA INTERFACE FOR CONNECTION TO THE INLET DIVERSION PIPES. ALL DRAINAGE TO AND FROM THE FILTERRA MUST ALLOW FOR POSITIVE FLOW.
- D. CONTRACTOR TO PROVIDE BATTER ACCORDING TO DIMENSION AND SLOPE SHOWN ON PLANS. SLOPE FROM SHOULDER TO FILTERRA BIOSCAPE SYSTEM SURFACE PERIMETER SHALL NOT EXCEED 3:1. TURF IS REQUIRED TO STABILISE SIDE SLOPES SHOWN ON DETAIL AND ON PLAN SHEETS.
- E. CONTRACTOR TO EXCAVATE MEDIA AREA CORRESPONDING TO THE SIZE OF THE FILTERRA BIOSCAPE SYSTEM SURFACE AREA AS SHOWN ON DETAIL AND ON PLAN SHEETS.
- F. CONTRACTOR SHALL EXCAVATE VERTICALLY FROM BOTTOM OF UNDERDRAIN STONE OR DRAINAGE STONE IF REQUIRED, TO ELEVATION OF MULCH AS SHOWN ON THIS DETAIL.
- G. CONTRACTOR TO CONFIRM DEPTH OF EXCAVATION. IF THE EXCAVATION HAS BEEN MADE TOO DEEP AND ADDITIONAL UNDERDRAIN STONE NEEDS TO BE USED TO RAISE THE BASE OF THE FILTERRA, THIS COST SHALL BE TAKEN ON BY THE CONTRACTOR.
- H. RETAINING WALLS AND ADDITIONAL EROSION CONTROL AROUND THE FILTERRA BIOSCAPE SYSTEM. RETAINED OFFLINE FROM FILTERRA

OCEAN PROTECT SUPPLY AND INSTALLATION RESPONSIBILITIES

- 1. GEOTEXTILE FABRIC ALONG THE PERIMETER OF THE FILTERRA BIOSCAPE SYSTEM EXCAVATION.
- 2. UNDERDRAIN STONE. TYPICALLY 250mm THICK (50mm UNDER THE PIPING 150mm AROUND THE PIPING AND 50mm ABOVE THE PIPING)
- 3. 150mm UNDERDRAIN PIPING UNLESS OTHERWISE APPROVED BY OCEAN PROTECT, ASSOCIATED PIPING AND FITTINGS/ELBOWS TO CONNECT TO THE PIPING/FITTING(S) THAT IS PROVIDED BY CONTRACTOR (SEE CONTRACTOR INSTALLATION RESPONSIBILITIES THIS DETAIL).
- 4. 530mm FILTERRA MEDIA.
- 5. 75mm DOUBLE SHREDDED HARDWOOD MULCH OVER ENTIRE FILTERRA BIOSCAPE SYSTEM SURFACE AREA.
- 6. PLANTINGS OF PLANTS SELECTED BY ENGINEER THAT MATCH OCEAN PROTECTS APPROVED PLANTING LIST.
- 7. FLOW DISSIPATION APRON AROUND ALL FLOW ENTRY POINTS AS DESIGNED AND INDICATED ON THIS DETAIL
- 8. CLEAN-OUT ADAPTER,PLUG AND PIPING.
- 9. ACTIVATING THE SYSTEM

REV No.	COMMENTS	DATE	INIT.	APPROVAL ISSUE		PROJECT: SYDNEY MAORI CULTURE CENTRE HYLAND ROAD RESERVE GREYSTANES, NSW 2145	Richmond+Ross PTY LIMITED CONSULTING ENGINEERS AND PROJECT LEADERS ABN 34 001 485 436	FILTERRA BIOSCOPE BIO RETENTION BASIN NOTES	
A	APPROVAL ISSUE	22.03.2023	FS						
B	APPROVAL ISSUE	23.03.2023	FS						
C	APPROVAL ISSUE	05.10.2023	FS						
								DATE: MARCH 2023	DWG.No. C600
						CLIENT: DKO ARCHITECTURE	38 WILLOUGHBY ROAD , CROWS NEST, NSW 2065 TEL : (02) 9490 9600 FAX : (02) 9438 1224	SCALE: N.T.S.	REV C
								JOB No. 230007	

