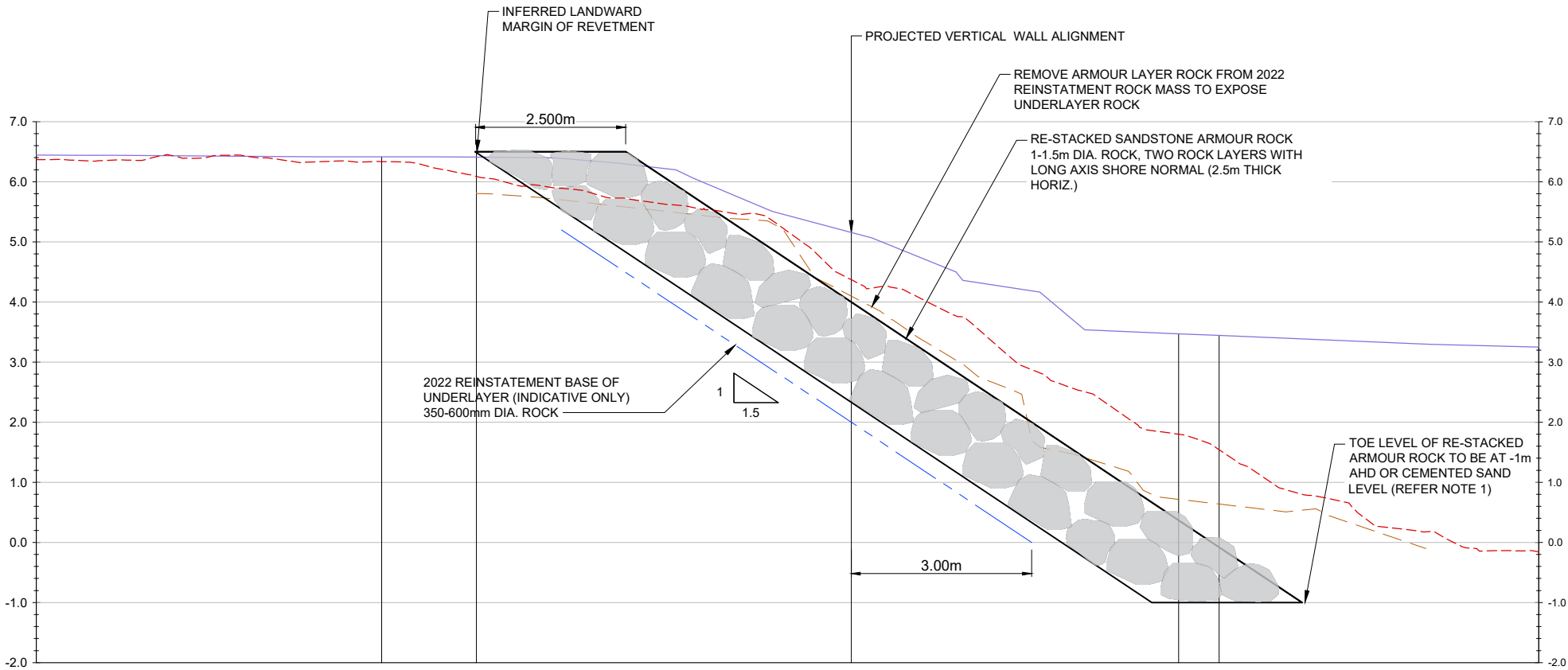


1. ROCK TOE SHALL BE FOUNDED ON CEMENTED SAND OR LEVEL OF RL -1.0, WHICHEVER IS HIGHER. THE PRESENCE OF CEMENTED SAND SHALL BE VERIFIED ONSITE BY A SUITABLY QUALIFIED ENGINEER
2. STABILITY OF TEMPORARY BATTER SLOPES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL SAND TO BE SIEVED PRIOR TO REINSTATEMENT, SAND TO BE WASHED INTO ROCKS TO FILL THE VOIDS. EXCESS SAND TO BE PLACED SEAWARD OF ROCK WORK.



P02	18.05.2020	ISSUED FOR COUNCIL INFORMATION						BB	MP	
P01	15.05.2020	ISSUED FOR COUNCIL INFORMATION						BB	MP	
REV.	DATE	DESCRIPTION						BY	CHK	APP
REVISIONS										
CLIENT										
							northern beaches council			
PROJECT										
WETHERILL ST PUBLIC BEACH ACCESS STAIRS										
TITLE										
GENERAL ARRANGEMENT PLAN										
							Level: L3, 90 Mount Street North Sydney NSW 2060 Australia Tel +61 2 88545000 Fax +61 2 95202660 Email: project.admin.australia@rhdhv.com Website: www.royalhaskoningdhv.com			
DRAWN BB		COORD. SYSTEM MGA 56 GDA2020			DATUM AHD		SCALE AS SHOWN		DATE 15.05.2025	
REF. PA4039-RHD-0456-M3-ME-MODEL_WETHERILL_ST										
DRAWING No. PA4039-RHD-04-ME-DR-1000							SUITABILITY S2		REVISION P01	



PROPOSED LEVELS																									
SEPT 2023 BEACH LEVEL SURVEY	6.351	6.359	6.359	6.364	6.369	6.373	6.377	6.381	6.385	6.389	6.393	6.397	6.401	6.405	6.409	6.413	6.417	6.421	6.425	6.429	6.433	6.437	6.441	6.445	
JUNE 2016 SURVEY OF ERODED BEACH PROFILE AND ROCK	6.359	6.364	6.369	6.373	6.377	6.381	6.385	6.389	6.393	6.397	6.401	6.405	6.409	6.413	6.417	6.421	6.425	6.429	6.433	6.437	6.441	6.445	6.449	6.453	
MAR-APR 2025 JK SURVEYED ROCK PROFILE FROM TEST PITS																									
2022 REINSTATEMENT BASE OF UNDERLAYER (INDICATIVE ONLY)																									
CHAINAGE	0.000	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	10.000	11.000	12.000	13.000	14.000	15.000	16.000	17.000	18.000	19.000	20.000	21.000	22.000	23.000	

SECTION 1

NOTES

- ROCK TOE SHALL BE FOUNDED ON CEMENTED SAND OR LEVEL OF RL -1.0, WHICHEVER IS HIGHER. THE PRESENCE OF CEMENTED SAND SHALL BE VERIFIED ONSITE BY A SUITABLY QUALIFIED ENGINEER
- STABILITY OF TEMPORARY BATTER SLOPES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL SAND TO BE SIEVED PRIOR TO REINSTATEMENT, SAND TO BE WASHED INTO ROCKS TO FILL THE VOIDS. EXCESS SAND TO BE PLACED SEAWARD OF ROCK WORK.
- SURVEY DATA SHOWN WAS OBTAINED FROM THE FOLLOWING SOURCES:
 - 2023 BEACH LEVEL FROM DETAILED SURVEY OF WETHERILL ST ROADHEAD UNDERTAKEN BY CMS SURVEYORS ON 20 SEPT 2023
 - JUNE 2016 PROFILE FROM POST-STORM AIRBORNE LIDAR SURVEY UNDERTAKEN BY WATER RESEARCH LABORATORY
 - 2025 ROCK PROFILE FROM SURVEY UNDERTAKEN IN TEST PITS ON 12-13 MAR 2025 AND POST-STORM ROCK FACE SURVEY ON 4 APR 2025 BY JK GEOTECHNICS
 - 2022 REINSTATEMENT BASE OF UNDERLAYER PROFILE WAS DERIVED FROM "INSTRUCTIONS FOR REINSTATEMENT OF ROCK REVETMENT COASTAL PROTECTION WORKS AT WETHERILL ST AND 1172 PITWATER ROAD NARRABEEN", LETTER REPORT DATED 16 MAR 2022, PREPARED BY HORTON COASTAL ENGINEERING

REV	DATE	DESCRIPTION	BY	CHK	APP
P01	15.05.2025	ISSUED FOR COUNCIL INFORMATION	BB	MP	
P02	30.05.2025	ISSUED FOR COUNCIL INFORMATION	BB	MP	

REVISIONS

CLIENT



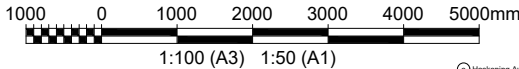
PROJECT
WETHERILL ST
PUBLIC BEACH ACCESS STAIRS

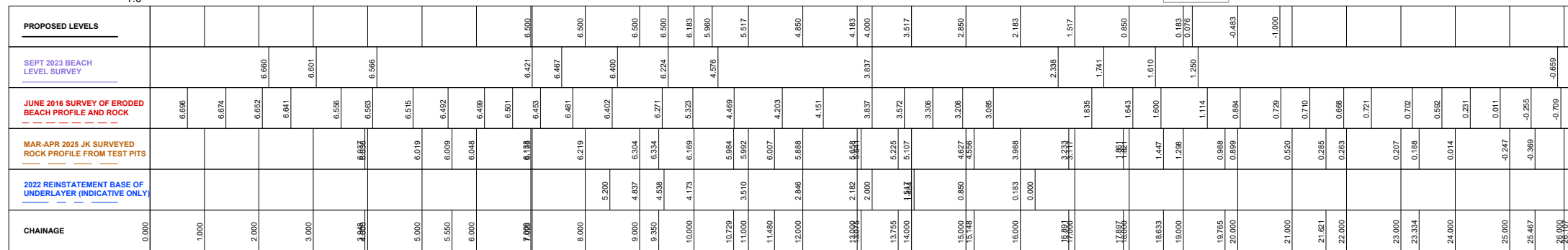
TITLE
GENERAL ARRANGEMENT
SECTIONS SHEET 1



DRAWN BB	COORD. SYSTEM MGA 56 GDA2020	DATUM AFD	DATE 15.05.2025
SCALE AS SHOWN	REF. PA4039-RHD-0456-M3-ME-MODEL_WETHERILL_ST	SUITABILITY S2	REVISION P01

S2 FOR INFORMATION





S2 FOR INFORMATION



1. ROCK TOE SHALL BE FOUNDED ON CEMENTED SAND OR LEVEL OF RL -1.0, WHICHEVER IS HIGHER. THE PRESENCE OF CEMENTED SAND SHALL BE VERIFIED ONSITE BY A SUITABLY QUALIFIED ENGINEER
2. STABILITY OF TEMPORARY BATTER SLOPES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL SAND TO BE SIEVED PRIOR TO REINSTATEMENT, SAND TO BE WASHED INTO ROCKS TO FILL THE VOIDS. EXCESS SAND TO BE PLACED SEAWARD OF ROCK WORK.
4. SURVEY DATA SHOWN WAS OBTAINED FROM THE FOLLOWING SOURCES:
 - 2023 BEACH LEVEL FROM DETAILED SURVEY OF WETHERILL ST ROADHEAD UNDERTAKEN BY CMS SURVEYORS ON 20 SEPT 2023
 - JUNE 2016 PROFILE FROM POST-STORM AIRBORNE LIDAR SURVEY UNDERTAKEN BY WATER RESEARCH LABORATORY
 - 2025 ROCK PROFILE FROM SURVEY UNDERTAKEN IN TEST PITTS ON 12-13 MAR 2025 AND POST-STORM ROCK FACE SURVEY ON 4 APR 2025 BY JK GEOTECHNICS
 - 2022 REINSTATEMENT BASE OF UNDERLAYER PROFILE WAS DERIVED FROM "INSTRUCTIONS FOR REINSTATEMENT OF ROCK REVETMENT COASTAL PROTECTION WORKS AT WETHERILL ST AND 1172 PITTWATER ROAD NARRABEEN", LETTER REPORT DATED 16 MAR 2022, PREPARED BY HORTON COASTAL ENGINEERING

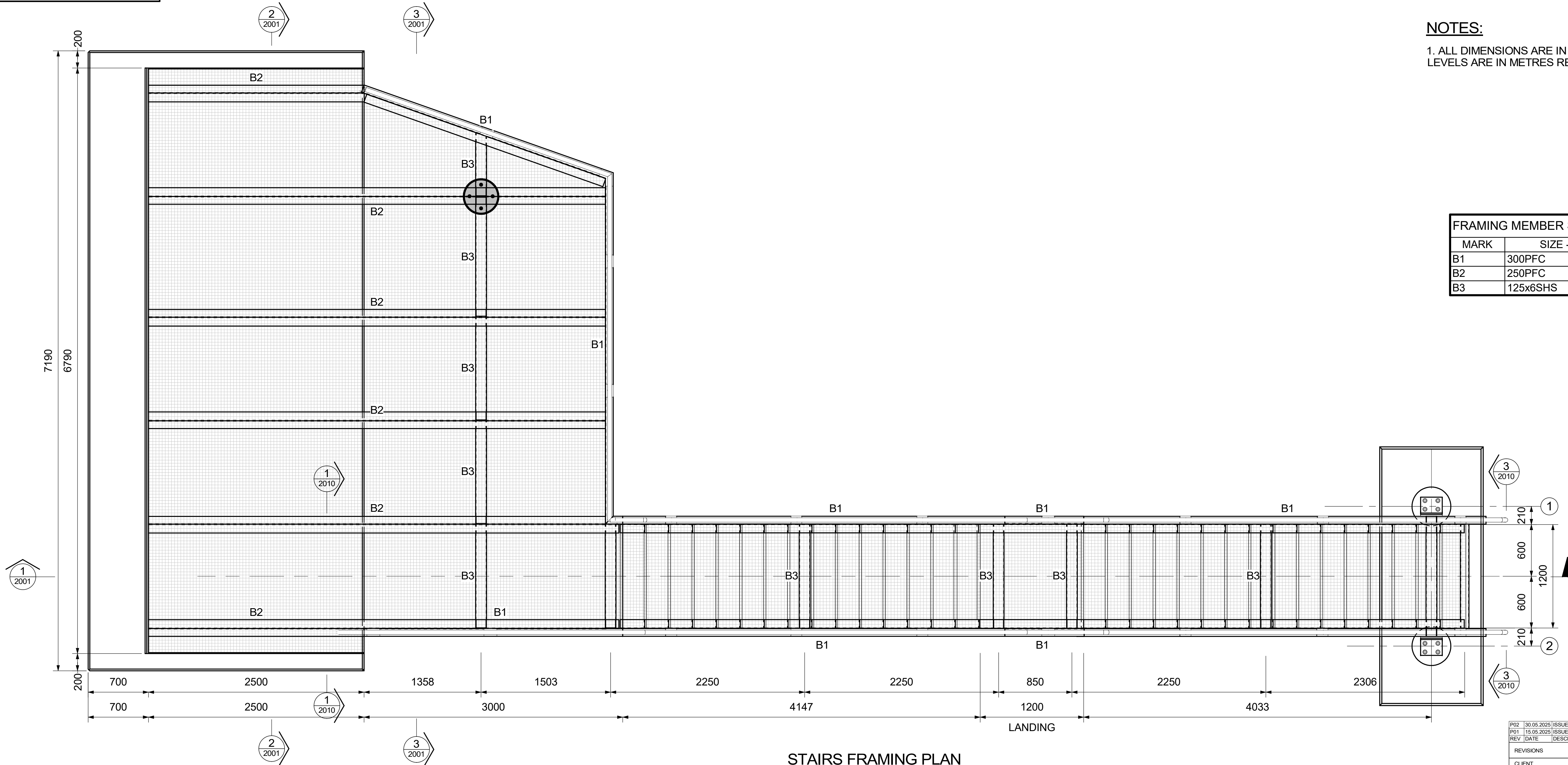
REVISIONS



Level 15, 99 Mount Street
North Sydney NSW 2060
Australia
Tel +61 2 88545000
Fax +61 2 95200960
Email: project.admin.australia@dhv.com
Website: www.royalhaskoningdhv.com

**Royal
HaskoningDHV**
Enhancing Society Together

DRAWN BB	COORD. SYSTEM MGA 56 GDA2020	DATUM AHD	DATE 15.05.2025
SCALE AS SHOWN	REF. PA4039-RHD-0456-M3-ME-MODEL_WETHERILL_ST		
DRAWING No.		SUITABILITY	REVISION
PA4039-RHD-04-ME-DR-1004		S2	P01



STAIRS FRAMING PLAN
1 : 25(A1)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS ARE IN METRES RELATIVE TO AHD.

FRAMING MEMBER SCHEDULE	
MARK	SIZE - TYPE
B1	300PFC
B2	250PFC
B3	125x6SHS

P02	30.05.2025	ISSUED FOR COUNCIL REVIEW	BB	IMP	
P01	15.05.2025	ISSUED FOR COUNCIL REVIEW	BB	IMP	
REV	DATE	DESCRIPTION	BY	CHK	APR

REVISIONS

CLIENT



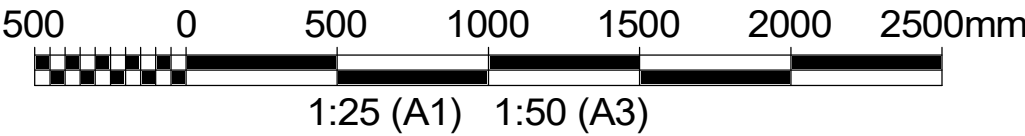
PROJECT
WETHERILL STREET
PUBLIC BEACH ACCESS STAIRS

TITLE
BEACH ACCESS STAIRS AND
PLATFROM GENERAL
ARRANGEMENT - PLAN



DRAWN	BB	COORD. SYSTEM	DATUM
DATE	07.05.2025	SCALE	REF.
		AT A1	As indicated

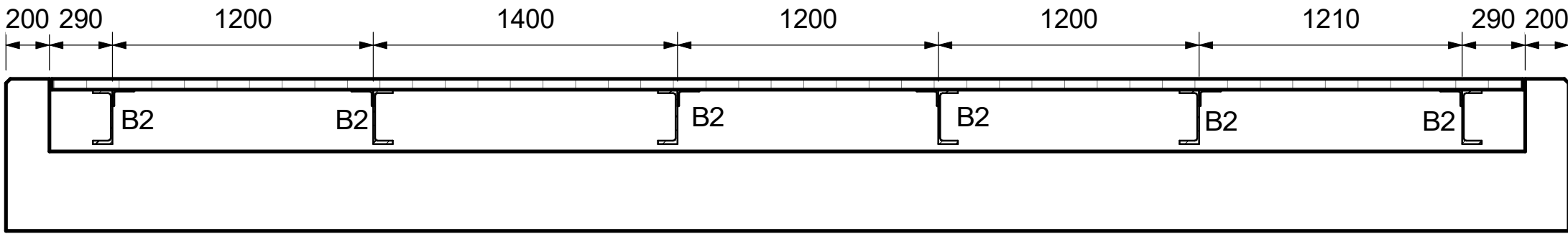
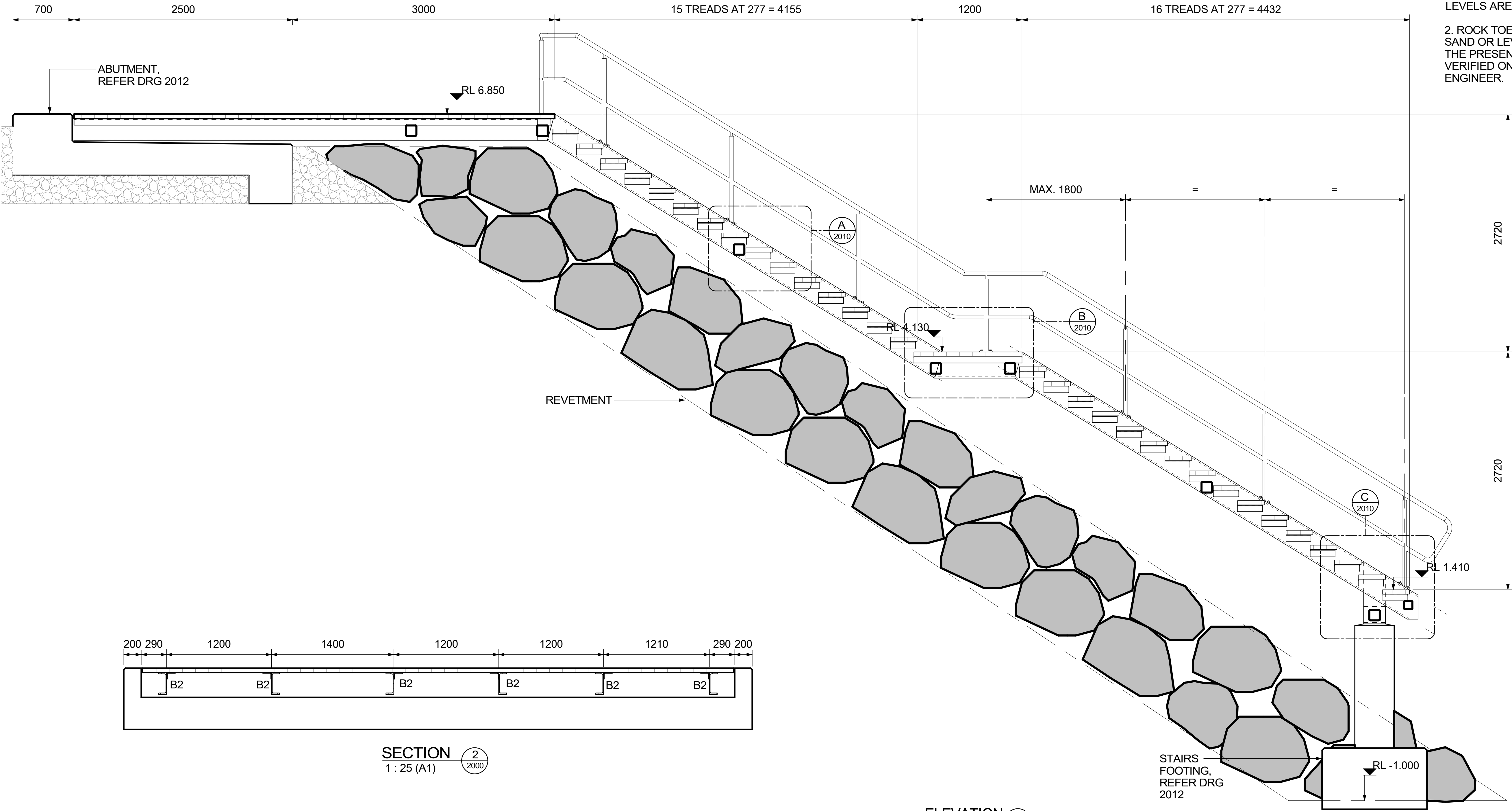
DRAWING No.	SUITABILITY	REVISION
PA4039-RHD-04-ME-DR-2000	S2	P02



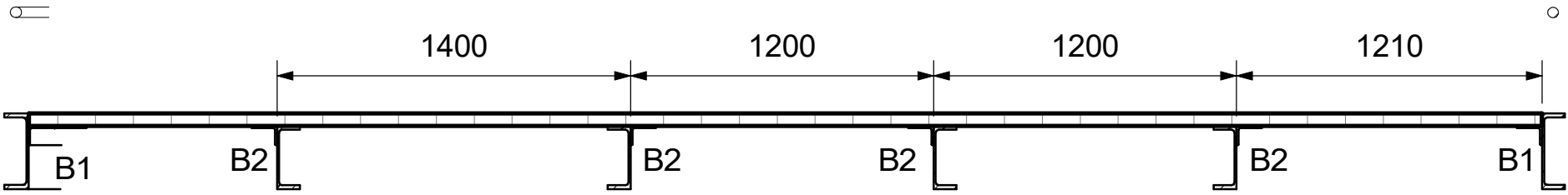
S2 FOR INFORMATION

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS ARE IN METRES RELATIVE TO AHD.
2. ROCK TOE SHALL BE FOUND ON CEMENTED SAND OR LEVEL OF RL-1.0, WHICHEVER IS HIGHER. THE PRESENCE OF CEMENTED SAND SHALL BE VERIFIED ONSITE BY A SUITABLY QUALIFIED ENGINEER.

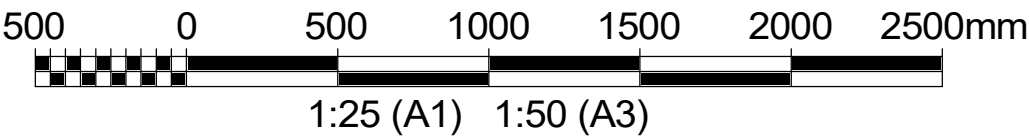


SECTION 2
1:25 (A1)



SECTION 3
1:25 (A1)

ELEVATION 1
1:25 (A1)



S2 FOR INFORMATION

P02	30.05.2025	ISSUED FOR COUNCIL REVIEW	BB	IMP	
P01	15.05.2025	ISSUED FOR COUNCIL REVIEW	BB	IMP	
REV	DATE	DESCRIPTION	BY	CHK	APR

REVISIONS

CLIENT



PROJECT
WETHERILL STREET
PUBLIC BEACH ACCESS STAIRS

TITLE
BEACH ACCESS STAIRS
GENERAL ARRANGEMENT-
ELEVATION AND SECTIONS



DRAWN	BB	COORD. SYSTEM	DATUM
DATE	07.05.2025	SCALE	REF.
DRAWING No.	PA4039-RHD-04-ME-DR-2001	SUITABILITY	REVISION
		S2	P02

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

2. FOOTING TO BE FOUNDED MINIMUM 100mm INTO CEMENTED SAND. EXCAVATION OF CEMENTED SAND TO BE CARRIED OUT CAREFULLY BY HAND TO LIMIT DISTURBANCE OF CEMENTED SAND. IF CEMENTED SAND IS BELOW RL-1.00 AND REFER TO ENGINEER.



NOTE: ALL BALUSTRADE COMPONENTS
TO BE FULLY WELDED STAINLESS
STEEL GRADE 316L / 600 GRIT BRIGHT
POLISHED FULLY WELDED