

Nielsen Park Seawall Re-development

Landscape Development Application

Prepared for National Parks & Wildlife Service

Rev B

18th August 2020



OCULUS



Photo from the 1880s looking south-east over Shark Beach (SLNSW SPF/966).

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DEVELOPMENT APPLICATION

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LANDSCAPE DOCUMENTATION

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DEVELOPMENT APPLICATION INTRODUCTION

The project area resides at Shark Beach, Nielsen Park which is a National Park that lies on the southern side of Port Jackson and extends in a southerly direction along the foreshore of Rose Bay to Bayview Hill Road and to Bottle and Glass Point in the north, backing onto Vaucluse Road and Greycliffe avenue.

Nielsen Park has a wide diversity of values across cultural, social, aesthetic, recreational and natural themes. The park has a strong recreation tradition based around Shark Beach and the swimming enclosure, along with the Hermitage Foreshore walking track which links Rose Bay to Nielsen Park as part of the Sydney Harbour Scenic Walk.

Nielsen Park is listed on the State Heritage Register and of significance for its outstanding natural and cultural landscape, which demonstrates a rich and diverse range of uses spanning pre-European settlement to the present.

The park has extensive archaeological evidence that demonstrates pre-colonial use of the place as a fishing and camping ground for the local Aboriginal people and signifies the ongoing connection of the place to the Birrabirragal People.

The Landscape Concept presented in the following pages has been developed in response to the request from National Parks and Wildlife Services for the renewal of the existing seawall at Nielsen Park which was damaged in the 2016 east coast low storm event in Sydney.

In addition to renewing and rebuilding the existing seawall asset, overarching objectives include improvement to accessibility, connectivity, safety and amenity of the foreshore as well as improvement of coastal protection, climate change resilience, asset standard and life-cycle as well as to celebrate the historic and heritage values of the beach.

The design was developed in collaboration with an extensive project team consisting of the following disciplines:

- Engineering: Coastal, Geotechnical, Civil, Structural
- Aboriginal Cultural and Heritage
- Heritage
- Arboriculture
- Ecological
- Planning
- Quantity Surveyors
- Surveyor
- Access and BCA consultants.

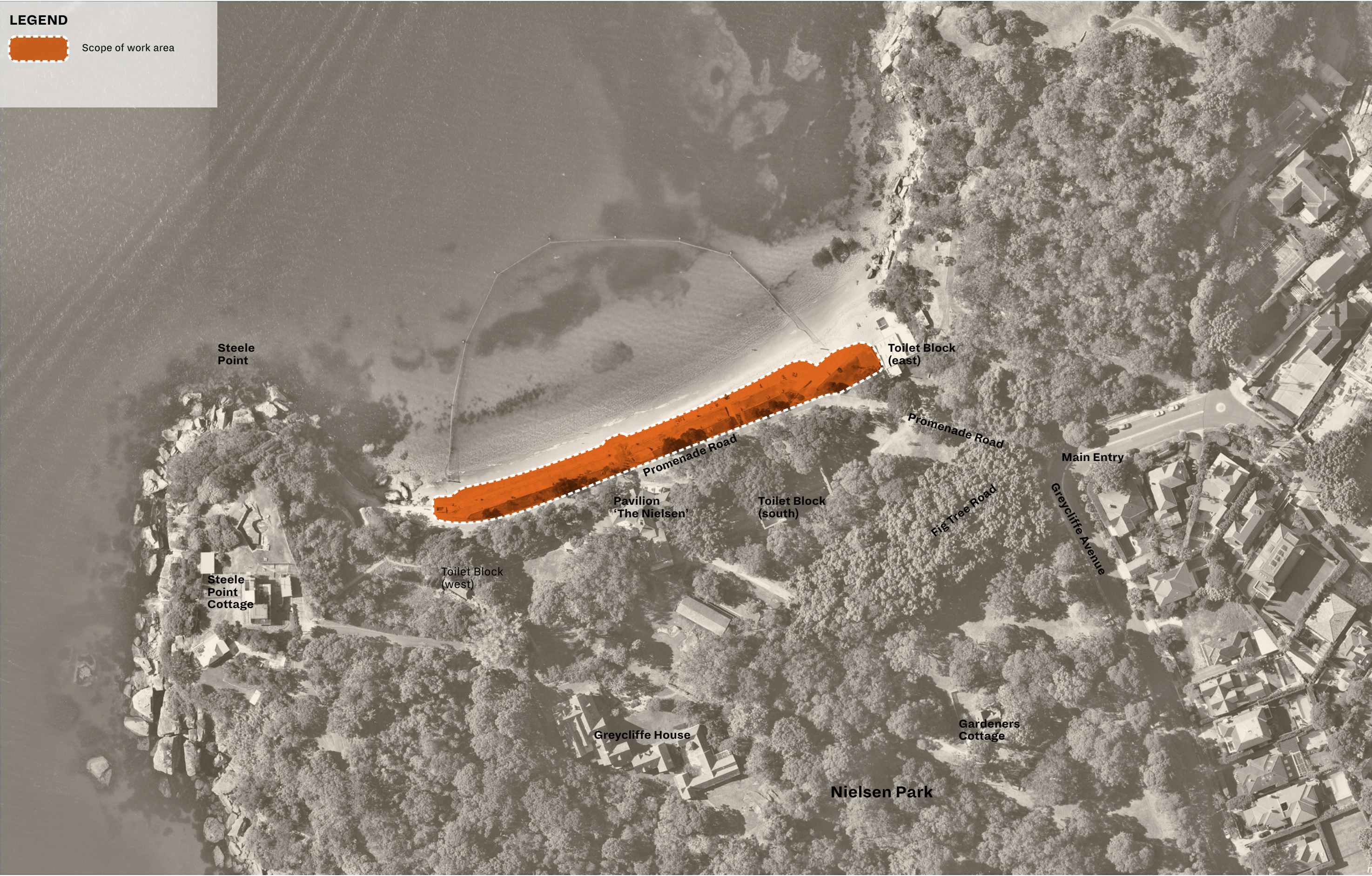




Development Application

Landscape Concept Design

DEVELOPMENT APPLICATION PROJECT AREA



DEVELOPMENT APPLICATION BEACH CHARACTER EVOLUTION - SHEET 1 OF 3

The following pages display a series of historical images depicting the evolution of the use and condition of the beach commencing with what we know to be its natural state, then modification via the introduction of the promenade, tunnel, sloping lawn and fencing, to its now current state with the concrete bleachers.

THE NATURAL BEACH



circa 1880s
Image looking south-east over Shark Beach

Source - State Library of New South Wales SPF/966.



1898
Image from water looking up to Greycliffe House

Source - Mitchell Library Small Pictures Pile (as noted in R.S. Jasprizza's Thesis, 1989)

THE PROMENADE AND SLOPED LAWN INTERVENTION



1922
Notting Parade (Promenade Road), looking east. Sloped lawn and beach access to the left (seaward)

Source - unknown



1919 - 1920
View looking west across beach

Source - Courtesy of Vaocluse House Collection (as noted in R.S. Jasprizza's Thesis, 1989)

THE CONCRETE BLEACHER INTERVENTION



circa 1940s
Image taken from water looking towards Seawall and Pavilion

Source - unknown



circa 1940s
View looking west across beach

Source - National Library of Australia

What makes Nielsen Park ‘Nielsen Park’?

Through the site analysis process and personal experience with Nielsen Park and Shark Beach, the following key areas and elements were identified as crucial to the making Nielsen Park (Shark Beach) what it is today and what it is most revered for.

These areas all hold a different value, whether it is nostalgia, biophilic-draw, or pure functional purposes, but collectively have worked together for years to make this place as loved as it is.

Described below are the characteristics of each area to provide a deeper understanding of their value, and the need to maintain them in the redevelopment of the seawall.

BEACH (WATER)

- ‘Harbour’ beach character and appeal
- Small & intimate beach
- Proximity to water for pedestrian access from promenade
- Calm beach / low wave action
- Welcoming to wider demographic: elderly, families & children
- Biophilic draw
- Protected swimming area with shark net in place during the summer months
- Limited capacity / need to maximise use of space



Revered harbour beach, November 2019

PROMENADE

- Nostalgia: both in terms of local historic reference, as well as resembling the common beach promenade found in many European beaches
- Promotes social interaction, with passing pedestrians or those that are static and sitting and socialising on the edge
- Opportunity for people watching, and looking over the beach view
- Place of navigation; between path and beach
- Used all year round - walking / sitting along promenade
- Well shaded on the southern edge
- Part of a bigger pathway network (Bondi to Manly walk)



Social interaction along promenade (note area not part of scope of works), November 2019

BLEACHERS

- The dominant character of the beach as it exists today
- Defines the beach area
- Provides infinite opportunities for people to sit, lean, lie and congregate, therefore a means to maximise the people that can use this beach at the one time (being as small as it is) as well providing flexibility n how people use the beach
- Valued for seating: allows people who do not like sand to still be part of the beach experience, and allows all year use
- Provides a stable and flat area to place personal belongings, prams, eski's, as well as organise children, dry clothes etc.



Popular all year round, stormy day - January 2020

BEACH (SAND)

- Popular place to sit, lie and sun bath
- Highly valued
- Provides a variety of areas along the length of the beach such as, exposed areas in the centre of the beach, with slightly more isolated areas at the western end (between rock outcrops) and the eastern end (in front of the surf club and eastern cliff face)
- Space available varies with tide levels, and weather patterns

LAWN

- As a result of the trees, this is a popular shaded area in the hotter months
- Popular for those who do not like sitting on the sand
- Easier to access than the sand, in particular for less mobile, or those with prams and infants, however is still in close proximity to the water
- Provides variety to beach character
- Gradient and condition could be improved
- Popular for sun bathing

MID TERRACE

- Provides second promenade, and means to traverse the bleachers west-east and vice versa (however not continuous)
- Provides area for sunbathing on extremely busy days, and is often last preference to lawn and beach
- Provides retreat mid-way from promenade to beach
- Eases scale of terracing
- Could be shortened in width to provide more beach area



Main stairs with large sand deposit after a storm event, limiting sand area, January 2020



Popular lawn use, November 2019



Mid Terrace: mainly used to traverse bleachers or sun bathing on busy days, January 2020

A functional analysis was also undertaken to assess the condition and use of the beach and seawall which provided a clear understanding of the site's attributes, and deficiencies summarised below:

Attributes

- History
- Harbor beach
- Accommodates a variety of users and activity types
- Balance of seating, sand and lawn
- Promenade

Deficiencies

- Safety
- Obstructed pedestrian circulation and permeability
- Sea level rise mitigation / adaptation
- Poor condition and lack of consistency

These provided robust direction, allowing design principles to be established to guide the development of the Concept Design of the reconstruction of the seawall. These principles are described over the following pages as well as the design moves they have lead to.

01 Coastal Protection and Climate Change Resilience

In response to predicted sea level rise as well as understanding the wave activity and impact it has on the beach and sand displacement, scouring and build up; the design has looked to resolve these via the following mechanisms:

1. Increasing the height of the bleacher structure (lower and upper bleachers, mid-level terrace and lawn)by 600mm, building up from the existing level of the promenade along the full length that bleachers run.
2. Proposing to run the bleachers and all ramps further below the mean sand level to ensure that when sand scouring occurs, the amenity is still provided.
3. Introducing a profiled face to the edge of the bleachers and some walls to help with wave deflection and dissipation to lessen the impact which waves have on the structure and other park assets.

02 Improved Accessibility & Safety

In understanding the existing movement and desire lines across the project area, we were able to establish that additional stairs were required to connect users from the promenade, to the bleachers, mid-level terrace and beach. These have been introduced, and spaced evenly along the length of the promenade to ensure that there will be defined and safe access at various points. In addition to this are the ramps at both the western and eastern end linking the promenade to the mid-level terrace, and the ramps adjacent to the eastern toilet block, further described below under 'Improved Amenity'. As required, stairs, ramps and bleachers will be DDA compliant, with handrails, tactile ground surface indicators, nosing and balustrades as required to ensure they are safe and comply with standards.

03 Heritage and Character

The design aims to preserve the heritage and character of the area by not compromising anything that is of heritage value. Importantly, for the works that are proposed, is the preservation of the sandstone walls at both the eastern and western end of the beach which have proposed to be retained and restored as needed. The existing sandstone wall adjacent to the vehicular ramp will be reconstructed in a similar alignment to

where it is now, with the sandstone blocks proposed to be re-used where possible.

The character of the area is intended to be retained and celebrated not only through the retention of the bleacher structure, promenade and all existing elements, but also in the materials selected. Concrete has been proposed to replace the existing concrete bleachers as a measure to maintain the character as well as tell the story of their post-war construction. The design also allows for the use of sandstone in the likes of the ramp walls as they abut existing sandstone walls for consistency, and also to enhance the strong use of sandstone in the area predominantly in the built form.

04 Improved Amenity

The reconstruction of the seawall provides an opportunity to enhance amenity for the beach users. The bleacher structure maintains its original amenity of seating, areas to lay down, keep belongings etc., however improved with the addition of ramp access at both the western and eastern end of the beach down to the mid-level terrace. As noted above, complaint stairs have been proposed to provide equally spaced access points along the length of the promenade. Tree planting will also provide shade for those using the lawn terrace and bleachers as well as the promenade.



Damaged and unsafe conditions of existing bleachers and stairs



Heritage and character of the beach; sandstone

05 Improved Operational Function

Functionality of the spaces has been at the forefront of the design, and ensuring that usability and comfort is catered for. However in addition is the need to cater for operations such as maintenance, access and circulation for emergency vehicles and the likes of shark net retrieval and installation, maintenance vehicular access to the sand to clear, redistribute or level sand across the beach. There will also be the in-built provision for temporary fencing around lawn areas to allow for lawn maintenance and restoration, and for posts to guide the shark net retrieval.

06 Maximise highly valued spaces

Through our observations and use of the beach, the lawn and sand areas seem to be the most valued and first to be occupied, hence we felt it was important not to impede on these areas as well as maximise them where possible. In order to do this, 1 meter was borrowed from the promenade's width, which still retains a substantially wide footpath. In addition, a further 1.2 meters was borrowed from the width of the mid-level terrace, which again still maintains a suitably wide thoroughfare.

07 Consistent, simple and elegant

Due to the extensive damage to the existing seawall, as well as the many interventions and repairs over the years and clutter of furniture add-ons, the existing structure lacks consistency in appearance and simplicity. It was therefore important to reduce this clutter from not just from an aesthetic point of view but also for safety, in turn introducing a level of elegance through a simple form that would allow both the natural and heritage attributes of the site to shine through while allowing people to easily and safely navigate through the site. The alignment of the bleacher has also been modified to create a smooth consistent line, and from above reflecting a consistent radius. This simple and discrete moves add to the level of refinement introduced to the new structure. In addition, the simple play with bleacher profiles, provides a unique and yet functional detail that adds to elegance positively contributing to the character of beach.

08 Enhance vegetation

While some trees have been proposed for removal due to their existing condition as well as the need to raise up the bleacher structure and lawn terrace, 17 no. new trees have been proposed. We see this as an opportunity to select the right and appropriate tree species for the conditions they will be facing as well as trees that will add to the character and create legacy for the coming generations, building upon the heritage value of the beach. Opportunities for dense native planting have also been created to help soften the hard elements and draw in the character of the native surrounding vegetation of the area and enhance aesthetics.



Current impact of storms on sand levels: affecting usability



Popularity of the existing lawn terrace

DEVELOPMENT APPLICATION SEAWALL DESIGN APPROACH

Following on from the principles, more specifically, the following design approach has been implemented for the seawall structure, which we will refer to as the bleachers.

The bleachers have been designed to mimic the existing bleachers, however with minor modifications in form to improve spatial arrangements, functionality, amenity and also better respond to future sea level rise.

The bleacher (seawall) structure has been lifted to achieve a high point of 5.5 AHD, and a consistent rise in level of 0.6m across the full length of the bleacher in an effort to mitigate wave over-topping risks and the protection of assets behind, while also ensuring the bleacher amenity will remain use-able in the future when the coast will succumb to a predicted sea level rise of 0.9m in 100 years.

While the proposed design looks at raising the wall, the optimal level to manage the risk of wave over-topping is 6.5 AHD which, if implemented could drastically change the character and use of Nielsen Park, hence the proposal to lift up to 5.5 AHD. Having said that, the design can accommodate the build-up of walls, or seating elements above the proposed 5.5 AHD, which would assist with wave over-topping as well as act as wave breaks as conditions worsen in the future.

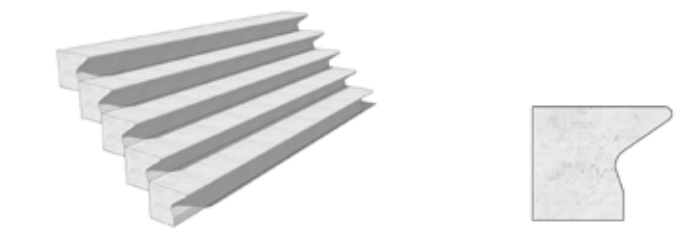
Form

The proposed form of the bleachers, in particular bleacher face profiles that are seaward facing, are such to also further assist with wave deflection and breaks, in addition to user comfort.

The following diagrams showcase some of the potential profile options which play with angled bleacher faces. When angled 'seaward', the profile has the potential to act as a series of wave breaks, and when angled 'landward', have the potential to act as a backrest the seating amenity provided in the bleachers.

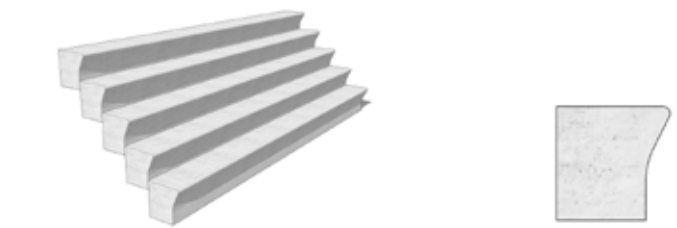
Option 3 mix, was the preferred option and developed further in the Concept Design.

Investigation Profiles | opt 01



Face angled seaward for wave deflection & breaks - acute

Investigation Profiles | opt 02



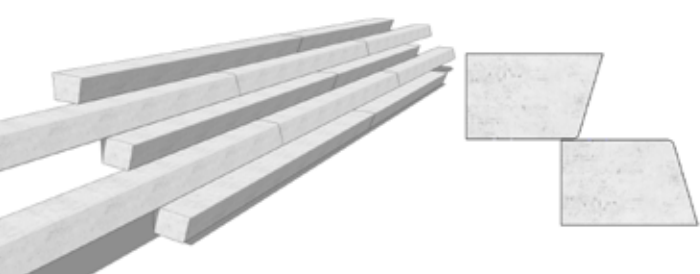
Face angled seaward for wave deflection & breaks - subtle

Investigation Profiles | opt 03



Face angled landward for user comfort as backrest

Investigation Profiles | opt 03 mix



Combination accommodating for both uses



Options 3 - Mix, 3D image

Further modifications to the bleacher include rectifying current obstacles and hazards along the mid-terrace to allow safe, and unobstructed access along the mid-terrace, and from promenade to mid-terrace and to the beach.

The dimensions of the seawall / bleacher have also been adjusted to ensure that in raising the level of the wall that the beach and sand area as well as the lawn area is not further compromised, as building up often results in building out.

This has been achieved by reducing the width of the promenade by 1m from the seaward edge, as well as reducing the mid-terrace width by 1.2m which still ensures comfortable widths that do not impede on the use.

Finally the form of the bleacher in plan has also been modified, introducing a slight curve, set on a consistent radius along its entire length, from which the bleachers are offset, reinforcing simplicity, and a clean form that can stand as a statement for Nielsen Park without compromising its character.

These modifications have resulted in the simplification of form, providing safe, easy and free flowing access which helps to be control the crowds.

Aesthetics

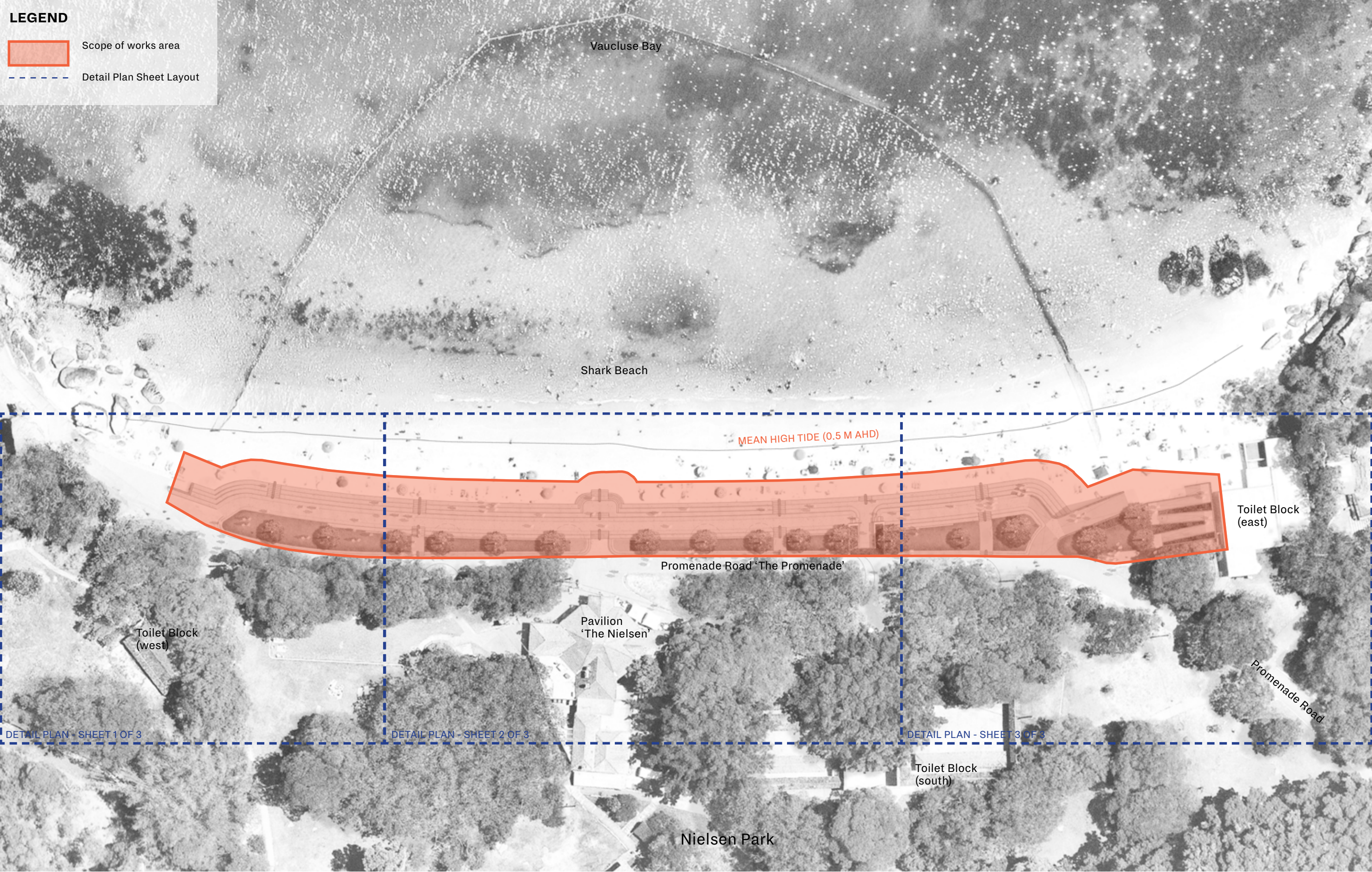
The seawall is proposed to be maintained in concrete, acknowledging the modern history of the park and maintaining the essence of its character. The concrete bleachers are intended to be built in-situ, identified by the project team as the most suitable method of construction for the proposed design and desired outcome.

At the eastern end of the beach, where the pedestrian and vehicular ramps have been proposed, and where there are existing sandstone walls, the use of sandstone is proposed to also tap into another significant material also significant to the character of the park, seen in the surrounding buildings and walls.

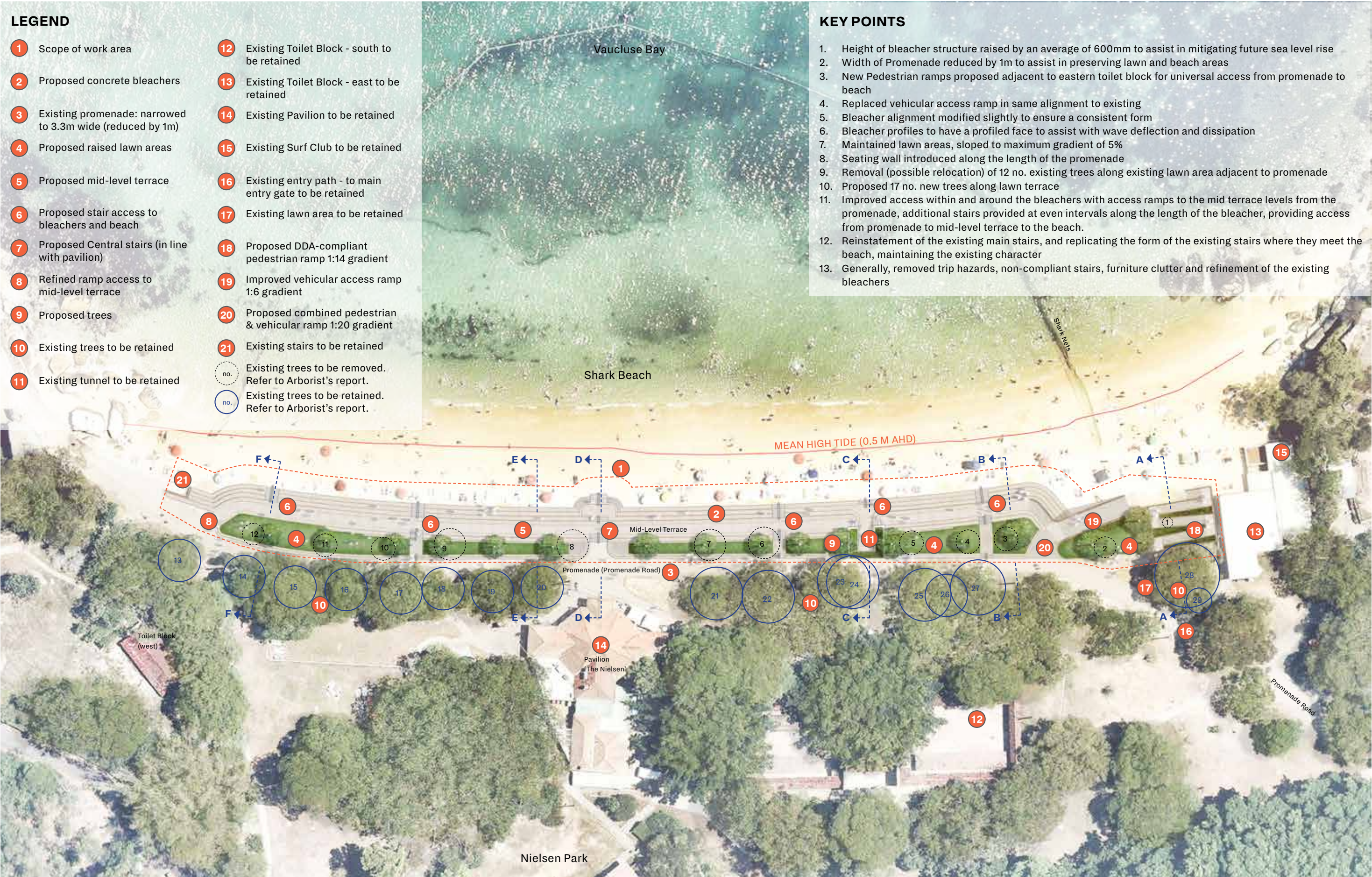
Using sandstone here helps tone down the built form of the ramps, as well as build in with the existing landscape, and also helping to accentuate the 'statement' made of concrete being the bleacher structure itself.

The following pages showcase the proposed concept design.

DEVELOPMENT APPLICATION KEY PLAN



DEVELOPMENT APPLICATION CONCEPT PLAN



LANDSCAPE ARCHITECT

OCULUS

CLIENT

NATIONAL PARKS AND
WILDLIFE SERVICE

PROJECT

NIELSEN PARK SEAWALL
REDEVELOPMENT

ISSUE

DEVELOPMENT APPLICATION

DRAWING NAME

CONCEPT PLAN

DATE: 18.08.2020

JOB NUMBER: S19-020

DRAWN BY: GM/HL

NORTH

SCALE

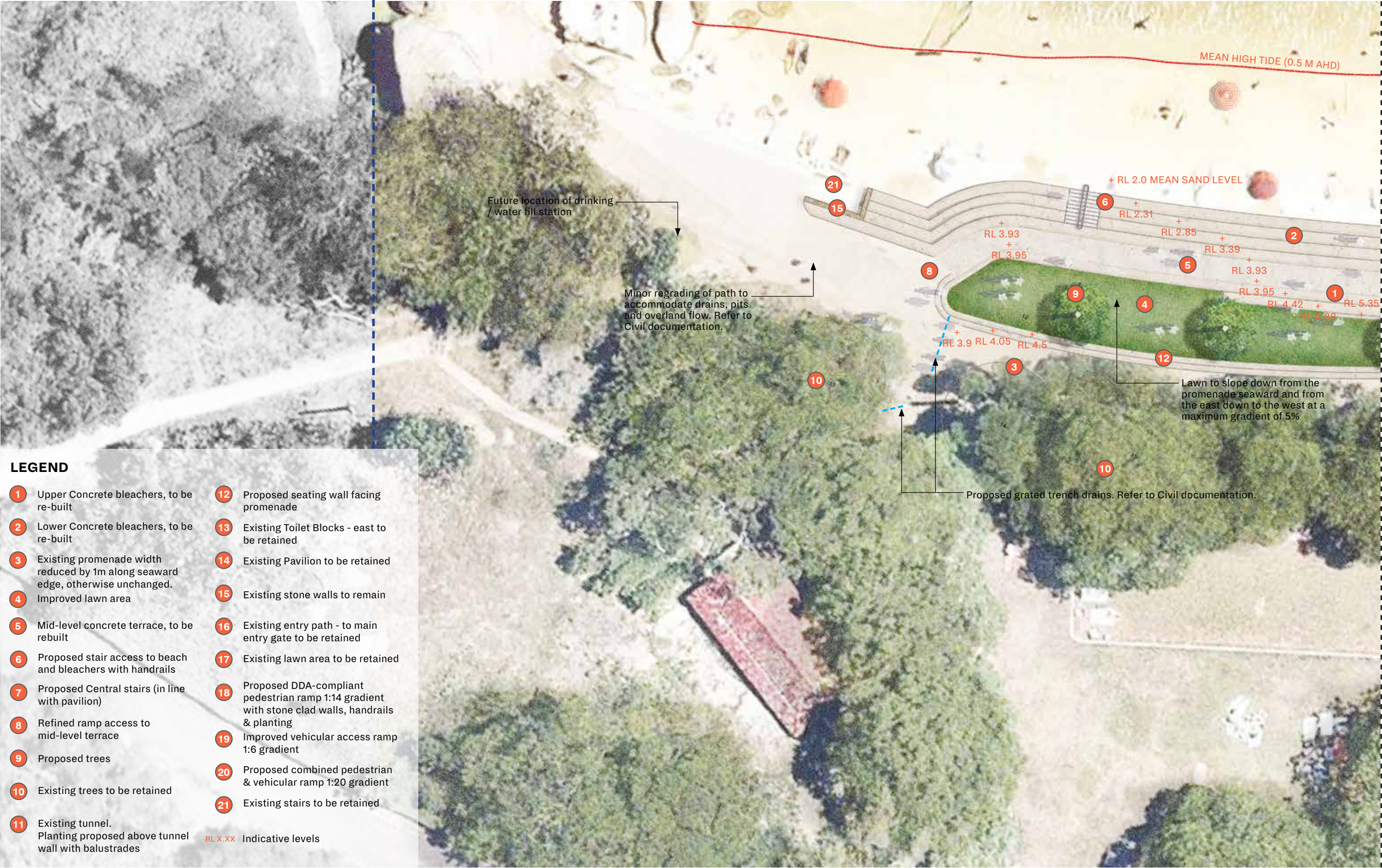
Not to scale

DRAWING NUMBER

OC - L - 013

REVISION

Rev B



LEGEND

1

Upper Concrete bleachers, to be re-built

2

Lower Concrete bleachers, to be re-built

3

Existing promenade width reduced by 1m along seaward edge, otherwise unchanged.

4

Improved lawn area

5

Mid-level concrete terrace, to be rebuilt

6

7

Proposed Central stairs (in line with pavilion)

8

9

Proposed trees

10

Existing trees to be retained

11

Existing tunnel. Planting proposed above tunnel wall with balustrades

12

Proposed seating wall facing promenade

13

14

Existing Pavilion to be retained

15

16

Existing entry path - to main entry gate to be retained

17

18

Proposed DDA-compliant pedestrian ramp 1:14 gradient with stone clad walls, handrails & planting

19

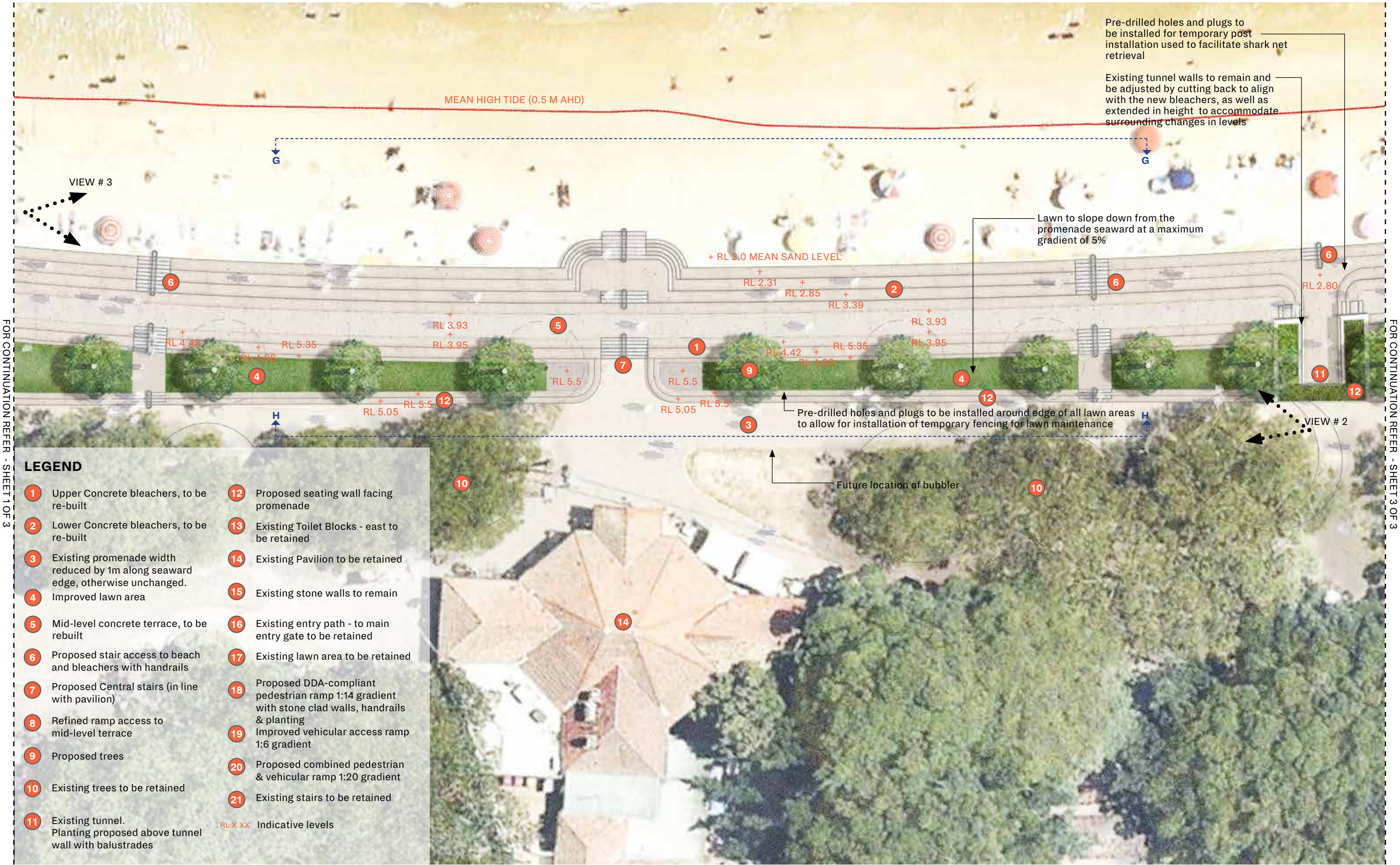
20

Proposed combined pedestrian & vehicular ramp 1:20 gradient

21

RL X.XX

Indicative levels



LEGEND

1

Upper Concrete bleachers, to be re-built

2

Lower Concrete bleachers, to be re-built

3

Existing promenade width reduced by 1m along seaward edge, otherwise unchanged.

4

Improved lawn area

5

Mid-level concrete terrace, to be rebuilt

6

Proposed stair access to beach and bleachers with handrails

7

Proposed Central stairs (in line with pavilion)

8

Refined ramp access to mid-level terrace

9

Proposed trees

10

Existing trees to be retained

11

Existing tunnel. Planting proposed above tunnel wall with balustrades

12

Proposed seating wall facing promenade

13

Existing Toilet Blocks - east to be retained

14

Existing Pavilion to be retained

15

Existing stone walls to remain

16

Existing entry path - to main entry gate to be retained

17

Existing lawn area to be retained

18

Proposed DDA-compliant pedestrian ramp 1:14 gradient with stone clad walls, handrails & planting

19

Improved vehicular access ramp 1:6 gradient

20

Proposed combined pedestrian & vehicular ramp 1:20 gradient

21

Existing stairs to be retained

RL X.XX

Indicative levels

DEVELOPMENT APPLICATION CONCEPT DETAIL PLAN - SHEET 3 OF 3



DEVELOPMENT APPLICATION VIEW # 1 - EASTERN BEACH AREA LOOKING SOUTH WEST



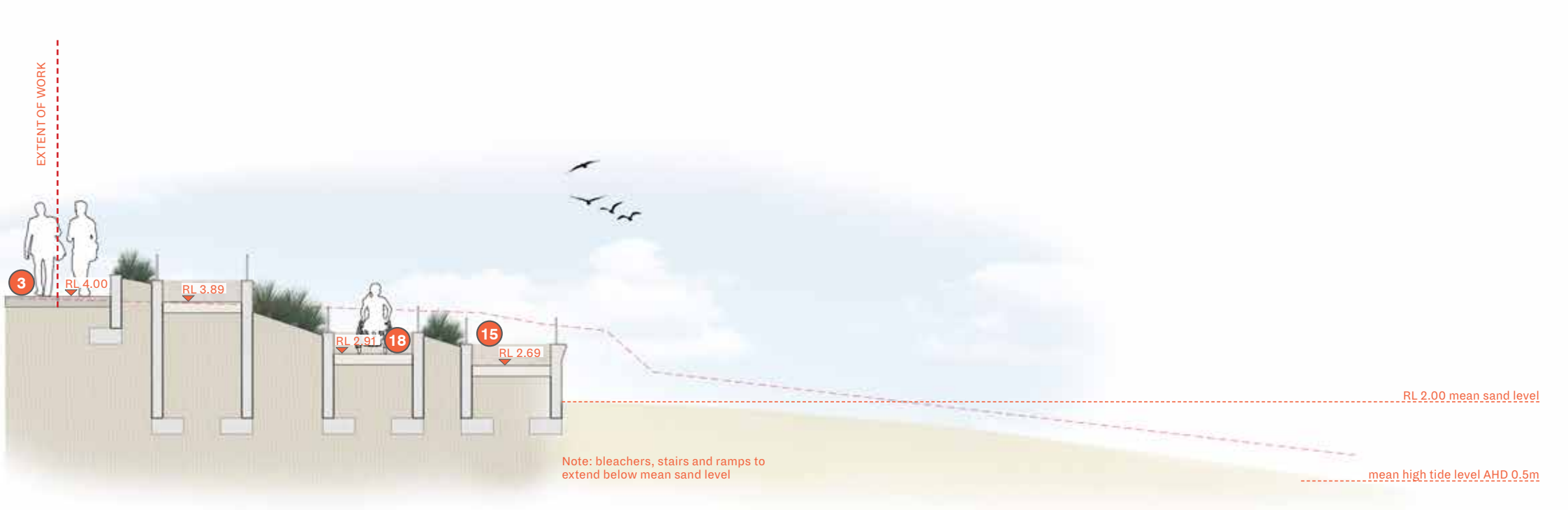
DEVELOPMENT APPLICATION VIEW # 2 - THE PROMENADE



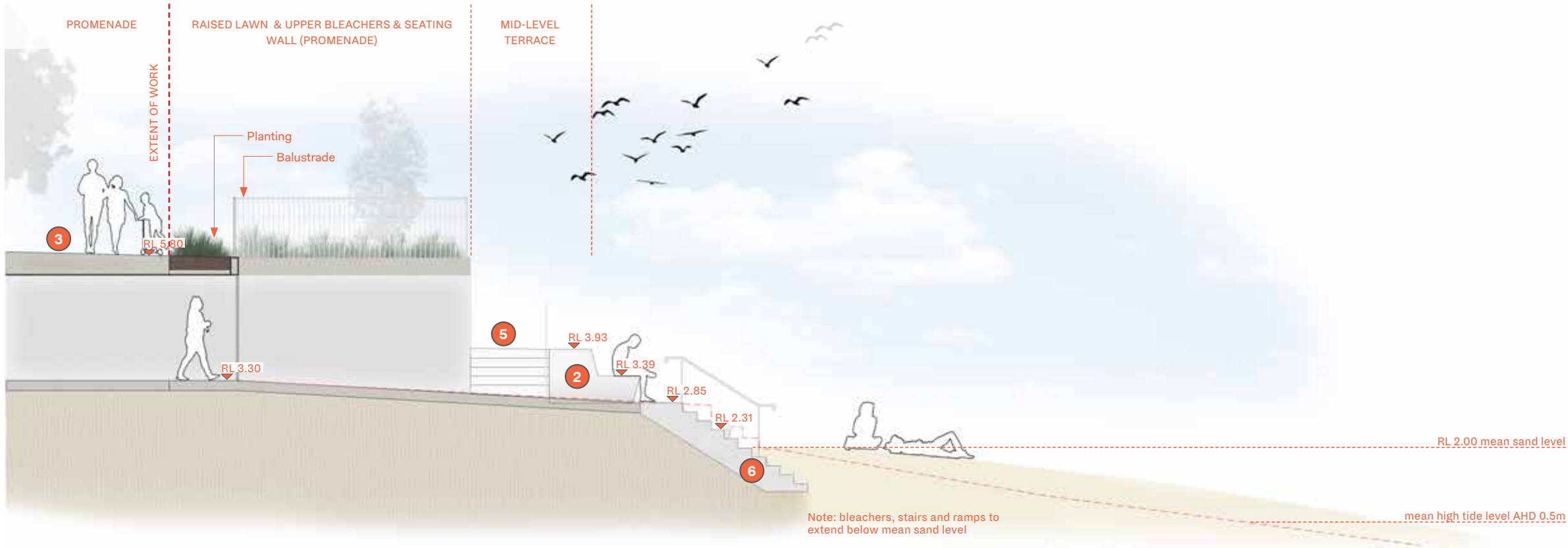
DEVELOPMENT APPLICATION VIEW # 3 - WESTERN BEACH AREA LOOKING EAST ACROSS BLEACHERS



DEVELOPMENT APPLICATION INDICATIVE SECTIONS



SECTION AA - FAR EASTERN END - RAMP CROSS SECTION

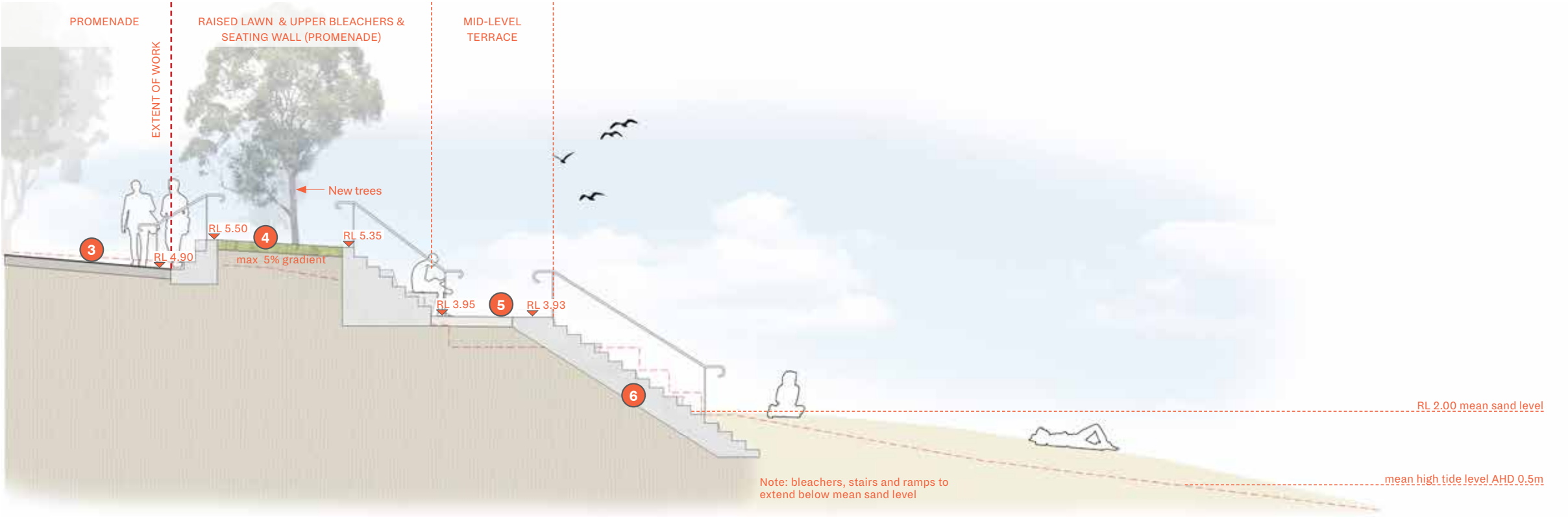


SECTION BB - TUNNEL

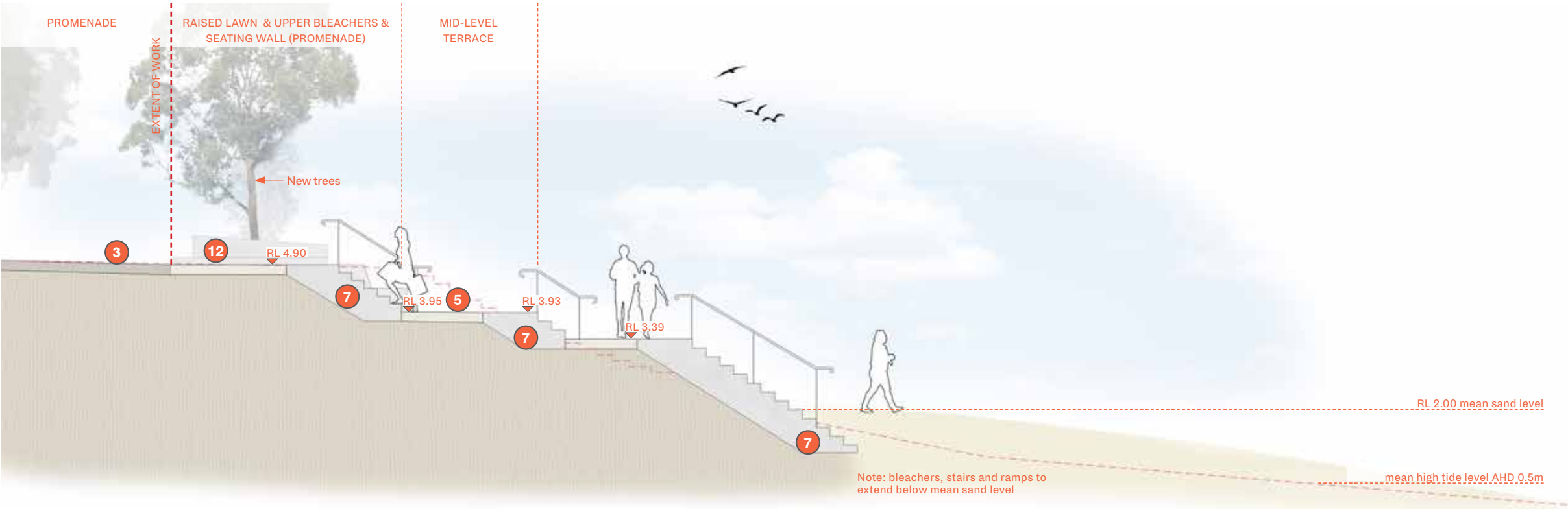
LEGEND

- 2 Lower Concrete bleachers, to be re-built
- 3 Existing promenade width reduced by 1m along seaward edge, otherwise unchanged.
- 5 Mid-level terrace to be rebuilt
- 6 Proposed stair access to beach and bleachers with handrails
- 15 Existing stone walls to remain
- 18 Proposed DDA-compliant pedestrian ramp 1:14 gradient with stone clad walls, handrails & planting

DEVELOPMENT APPLICATION INDICATIVE SECTIONS



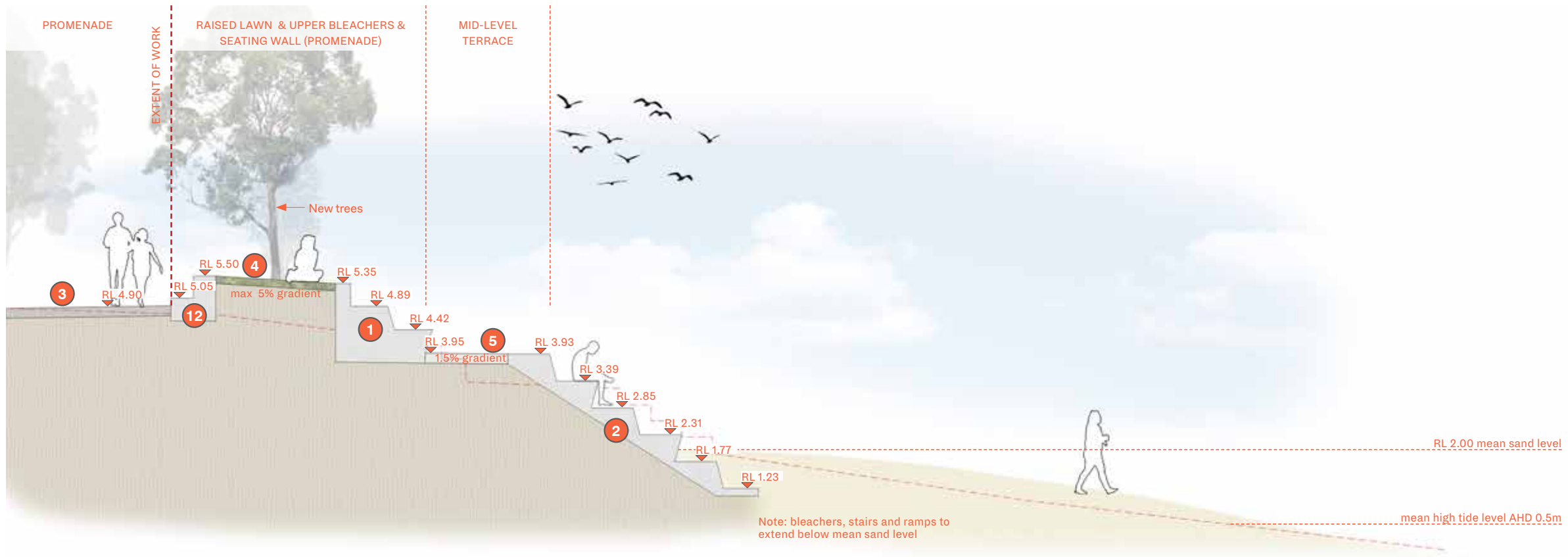
SECTION CC - EASTERN SIDE



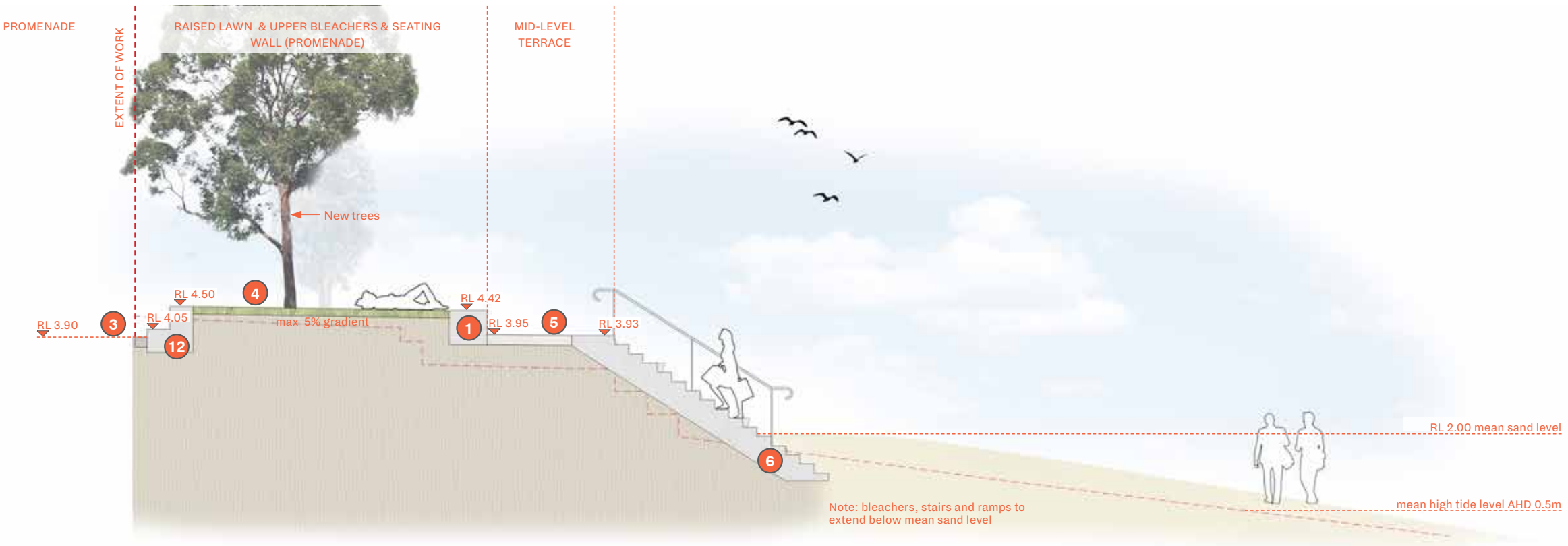
SECTION DD - CENTRAL STAIRS

- LEGEND
- 3 Existing promenade width reduced by 1m along seaward edge, otherwise unchanged.
 - 4 Improved lawn area
 - 5 Mid-level terrace to be rebuilt
 - 6 Proposed stair access to beach and bleachers with handrails
 - 7 Proposed Central stairs (in line with pavilion)
 - 12 Proposed seating wall facing promenade

DEVELOPMENT APPLICATION INDICATIVE SECTIONS



SECTION EE - WESTERN END (NEAR PAVILION)



SECTION FF - WESTERN END

LEGEND

- 1 Upper Concrete bleachers, to be re-built
- 2 Lower Concrete bleachers, to be re-built
- 3 Existing promenade width reduced by 1m along seaward edge, otherwise unchanged.
- 4 Improved lawn area
- 5 Mid-level terrace to be rebuilt
- 6 Proposed stair access to beach and bleachers with handrails
- 12 Proposed seating wall facing promenade

DEVELOPMENT APPLICATION INDICATIVE ELEVATIONS - SHEET 1 OF 2



SECTION GG - FROM BEACH LOOKING SOUTH TOWARDS SEAWALL / BLEACHERS

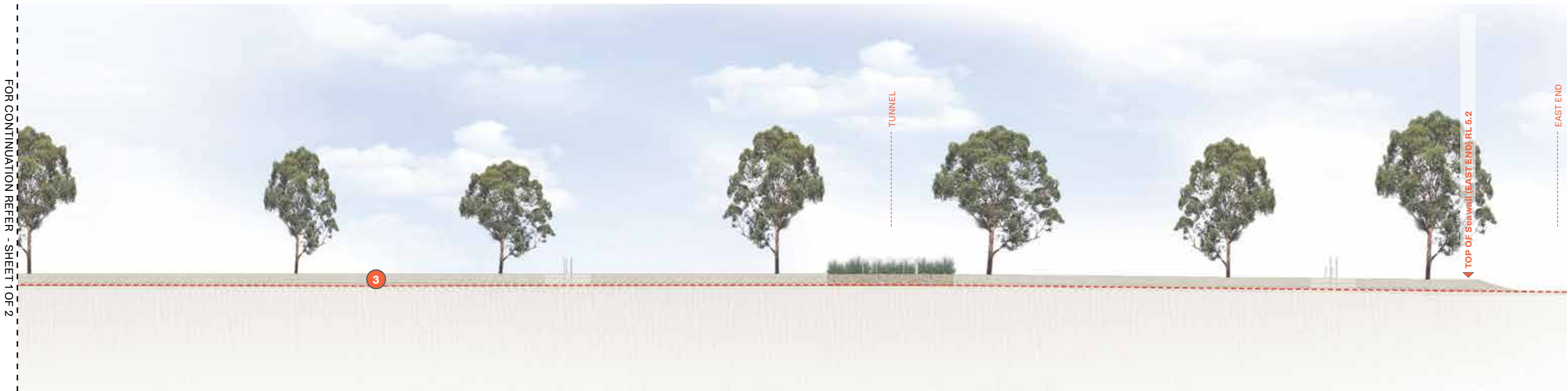


SECTION HH - FROM PROMENADE LOOKING SEAWARD

LEGEND

- Line of existing top of seawall
- 1 Upper Concrete bleachers, to be re-built
- 2 Lower Concrete bleachers, to be re-built
- 3 Lawn terrace / seawall, promenade edge

DEVELOPMENT APPLICATION INDICATIVE ELEVATIONS - SHEET 2 OF 2



DEVELOPMENT APPLICATION INDICATIVE PLANT SCHEDULE AND PALETTE

The following planting palette responds to the surrounding natural environment and extreme coastal conditions that they will be exposed to. Planting selected is a native, hardy palette intended to be densely planted to ensure good plant coverage and instant affect, with a combination of ground covers, grasses and shrubs.

Likewise trees selected are native, robust species and front-line salt tolerant, with both the Banksia integrifolia and Cupaniopsis being species that currently exist on site, with the Banksia integrifolia successfully growing. In addition to their responsiveness to the site conditions, the trees, through their arrangements on the lawn terrace, provide shade to the lawn, edge seating and the promenade.

PLANT SCHEDULE

Botanic Name	Common Name	Mature Height (metres)	Mature Spread (metres)	Spacing / m2	Pot Size	Notes
Trees						
<i>Banksia integrifolia</i>	Coastal Banksia	15m	6m	As shown plan	min. 400L	Trees should be advanced-size and supplied with a clear stem of 30-35% of tree height. A 400L tree supplied in accordance with Australian Standard 2303 (2015) Tree Stock for Landscape Use would be approximately 5m at the time of installation.
<i>Cupaniopsis anacardioides</i>	Tuckeroo	8m	7m	As shown plan	min. 400L	
<i>Angpohora costata</i>	Sydney Red Gum	20m	12m	As shown plan	min. 400L	
<i>Banksia serrata</i>	Old Man Banksia	10m	5m	As shown plan	min. 400L	
Mass Planting (Shrubs, Groundcovers & Grasses)						
<i>Carpobrotus glaucescens</i>	Pig Face	0.3	1	5	200mm	-
<i>Correa alba</i>	White Correa	1	0.5	3	200mm	-
<i>Dianella sp.</i>	Flax Lily	0.3	0.4	7	200mm	-
<i>Ficinia nodosa</i>	Knobby Club-rush	1	0.5	7	200mm	-
<i>Lomandra longifolia</i> 'Nyalla'	Fine leaved Lomandra	0.75	0.75	3	200mm	-
<i>Westringia fruticosa</i>	Coastal Rosemary	2	1.5	1	200mm	-
Lawn						
<i>Cynodon dactylon</i> x <i>C. transvaalensis</i> 'Agridark'	Hybrid green couch	-	-	-	-	-



Correa alba



Westringia fruticosa



Carpobrotus glaucescens



Banksia integrifolia



Cupaniopsis anacardioides



Ficinia nodosa



Lomandra longifolia 'Nyalla'

DEVELOPMENT APPLICATION INDICATIVE MATERIALS PALETTE

Bleachers

The main material nominated for the bleachers is concrete, replicating the current seawall materiality.

However understanding the prominence of the sandstone across the project area and Nielsen Park (both as a natural resource and incorporated into buildings and walls), there will be hints of sandstone introduced, likely as walls and elements dis-associated with the bleacher structure itself.

This also includes the restoration of the eastern sandstone wall, reinstating the wall adjacent to the vehicular ramp.

These contrasting materials tell a story of the area’s history and modern past, and both will be maintained but distinctly separated from each other to celebrate the two in their own right.



Draw from natural character of site: sandstone



Concrete: combination of in situ and pre-cast concrete elements



Sandstone: introduce durable sandstone elements



Refined use of concrete

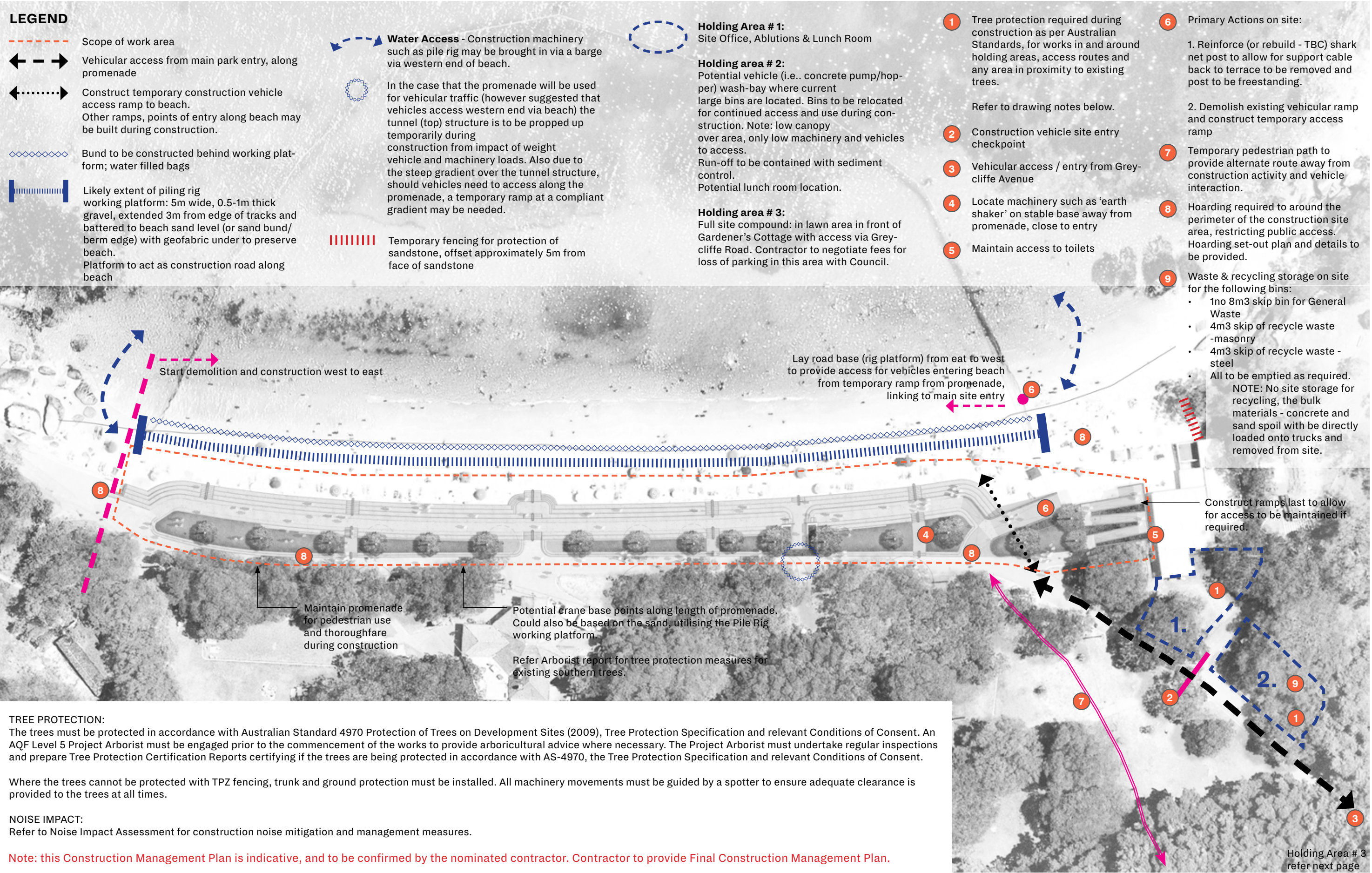


Sandstone: draw from existing

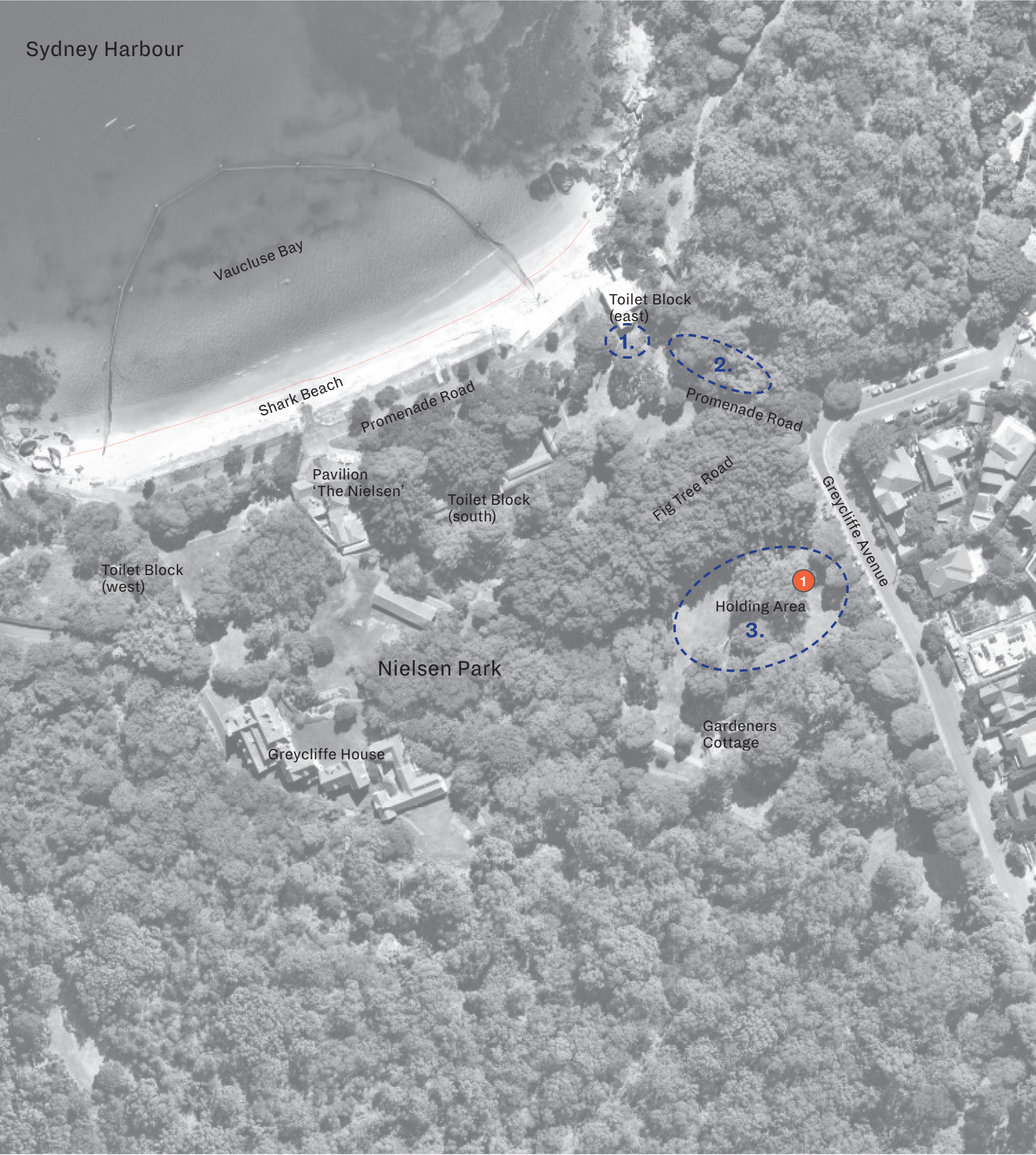


in situ concrete to achieve consistent bleacher curve

DEVELOPMENT APPLICATION DRAFT CONSTRUCTION MANAGEMENT PLAN



DEVELOPMENT APPLICATION DRAFT CONSTRUCTION MANAGEMENT PLAN

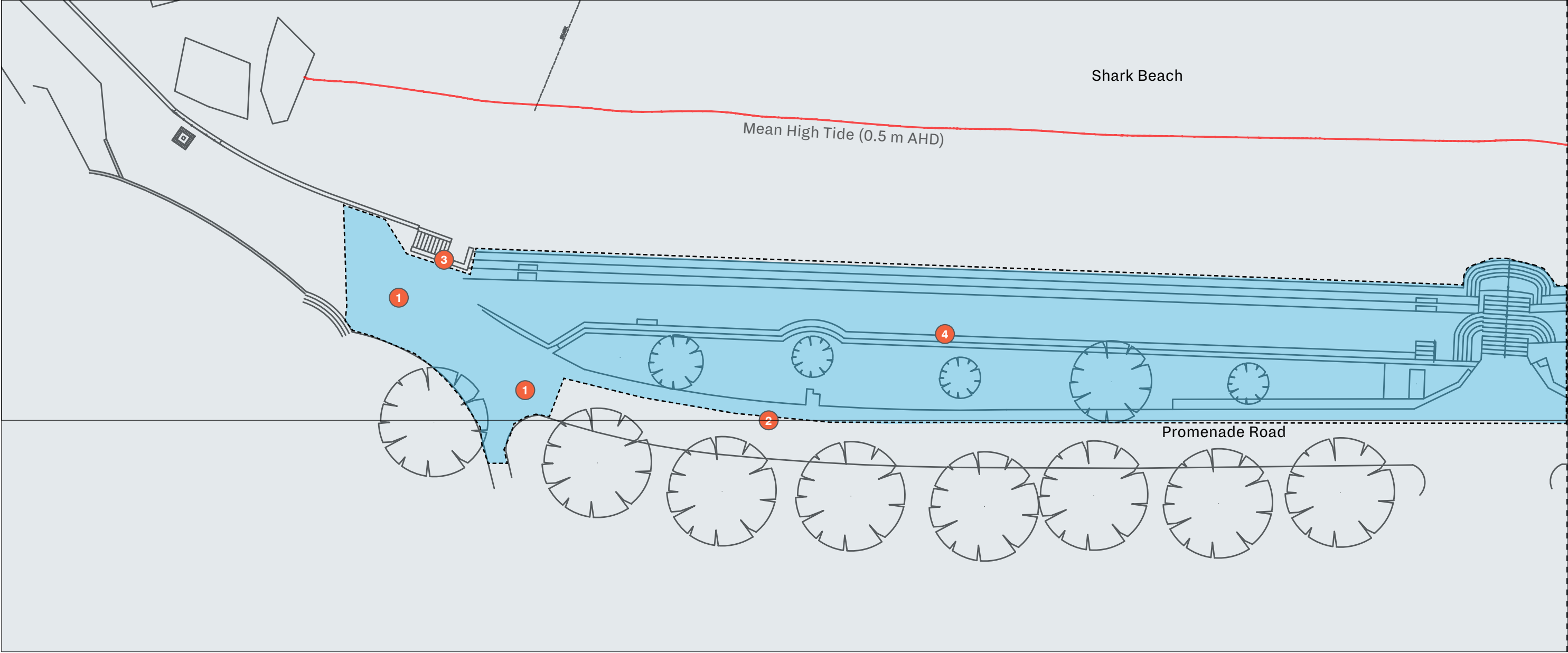


Construction Commencement & Duration
Commence 1st of March and complete 30th of November 2021
Demolition works: first 6-8weeks approximately

Staging
To be undertaken in one stage

Hours of construction:
0700-1700 week day & 0700-1200 Saturday. No Public Holiday or Sunday

Schedule of construction equipment & vehicles	
<i>Vehicle type, size</i>	<i>Daily vehicle movements on the road, duration on site</i>
12ton Bogies (bulk material)	For bulk materials in or out. Max 15 each way per day during demolition. (660m3 = 83 truck movements = 5.5days @ 15per day)
20ton Excavator with rock hammer	6-8 weeks onsite (2 week demo prior to mobile crusher arriving)
Mobile crusher / MB Crusher Bucke - TBC, may not crush and re-use concrete on site, but rather bring in road base	6 weeks on site: 1,300t @ 50t/ hour
Pilling Rigs	6 weeks on site
7ton Excavator	On site for the duration of works
Large Possie Track - Skid steer / bobcat	On site for the duration of works
Small dumpy trucks	duration of demo and excavation works)
Concrete Trucks 7m3 sized	1500m3 = 214 deliveries over 12 weeks (7no every second day)
Concrete boom pumps	30 days
Trade vehicles <4t	On site for the duration of works
12t flatbed trucks with hiabs	On site for the duration of works
Barge	TBC
Skip bins	Duration of demolition works



LEGEND

- 1

Minor footpath regrading required to achieve appropriate falls for overland flow. In addition to this is the introduction of 2 no. grated trench drains and pits proposed to ensure proper drainage.
- 2

Cut back existing promenade path by 1m. Remaining promenade to be retained and protected during construction. Contractor to rectify any damages.
- 3

Existing sandstone walls and stairs to be retained and protected during construction.
- 4

Lawn terrace, upper bleacher structure, mid level terrace and lower bleacher structure to be demolished. This includes the removal of highlighted trees to allow works to occur. Contractor should consult with NPWS on the possibility of transplanting healthy existing trees.
- 5

Vehicular ramp to be demolished.
- 6

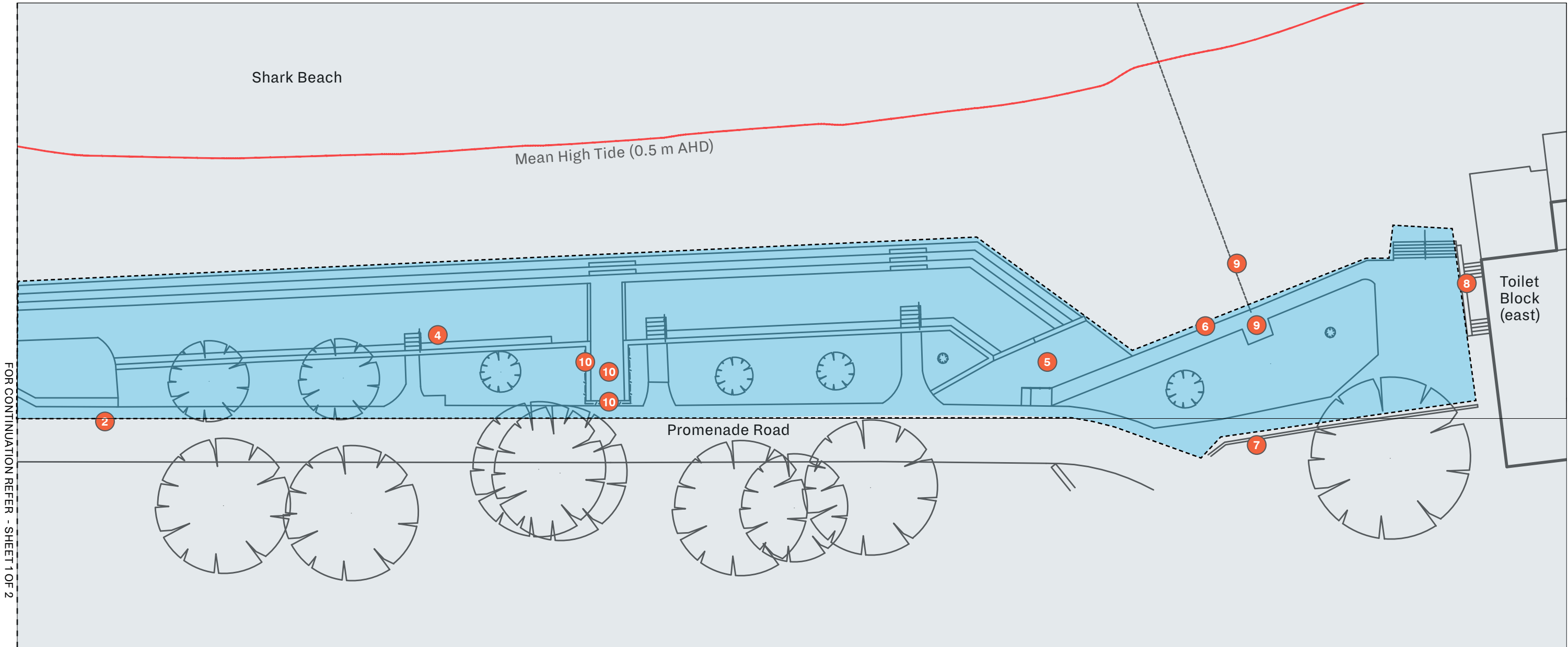
Wall to be carefully demolished (and rebuilt in same alignment - refer to Concept Plans) to allow for the preservation of existing sandstone blocks for re-use. Sandstone blocks to be carefully removed, cleaned, and stored for re-use on site or other NPWS / Council restoration projects.
- 7

Existing sandstone kerb wall to be retained and protected during construction.
- 8

Existing sandstone wall and stairs to be retained and protected during construction. Sandstone wall will required restoration. Refer to Heritage Impact Statement.
- 9

Existing shark net support cable and structure to be demolished, following the reinforcement of the Shark Net post to allow it to be self supporting of the shark net.
- 10

Existing tunnel structure to remain in place. Demolition at the promenade level is to top of roof slab level only, roof slab to be retained and protected. External walls associated with tunnel structure are to be retained to the extent shown in the Concept Plans, with build up as required to achieve required levels and to structural design. Pavement outside of tunnel may be regraded as required to ensure efficient drainage.





Development Application

Landscape Concept Documentation

SHEET No. SHEET NAME

L-100 INFORMATION	
L-100	TITLE SHEET
L-101	EXISTING CONDITION PLAN

L-200 DEMOLITION AND SITE PROTECTION PLAN	
L-200	DEMOLITION PLAN
L-201	DEMOLITION PLAN - SHEET 1 OF 3
L-202	DEMOLITION PLAN - SHEET 2 OF 3
L-203	DEMOLITION PLAN - SHEET 3 OF 3

L-300 GENERAL ARRANGEMENT PLANS	
L-300	GENERAL ARRANGEMENT PLAN
L-301	GENERAL ARRANGEMENT PLAN - SHEET 1 OF 3
L-302	GENERAL ARRANGEMENT PLAN - SHEET 2 OF 3
L-303	GENERAL ARRANGEMENT PLAN - SHEET 3 OF 3

L-500 PLANTING PLANS	
L-500	PLANTING PLAN
L-501	PLANTING PLAN - SHEET 1 OF 3
L-502	PLANTING PLAN - SHEET 2 OF 3
L-503	PLANTING PLAN - SHEET 3 OF 3

L-600 SECTION	
L-600	SECTIONS
L-601	SECTIONS
L-602	SECTIONS



LOCATION PLAN



PROJECT RENDER

NOTES

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KEY PLAN

ISSUE	DATE	AMENDMENT	DRN	APRVD
D1	06/08/20	ISSUE FOR DA	SL	RB
D2	18/08/20	ISSUE FOR DA	SL	RB

O C U L U S

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SYDNEY MELBOURNE WASHINGTON

PROJECT
NIELSEN PARK SEA WALL REDEVELOPMENT
CLIENT
NATIONAL PARKS AND WILDLIFE SERVICE
ARCHITECT

STATUS
ISSUE FOR DEVELOPMENT APPLICATION

DRAWING SCALE

NORTH POINT

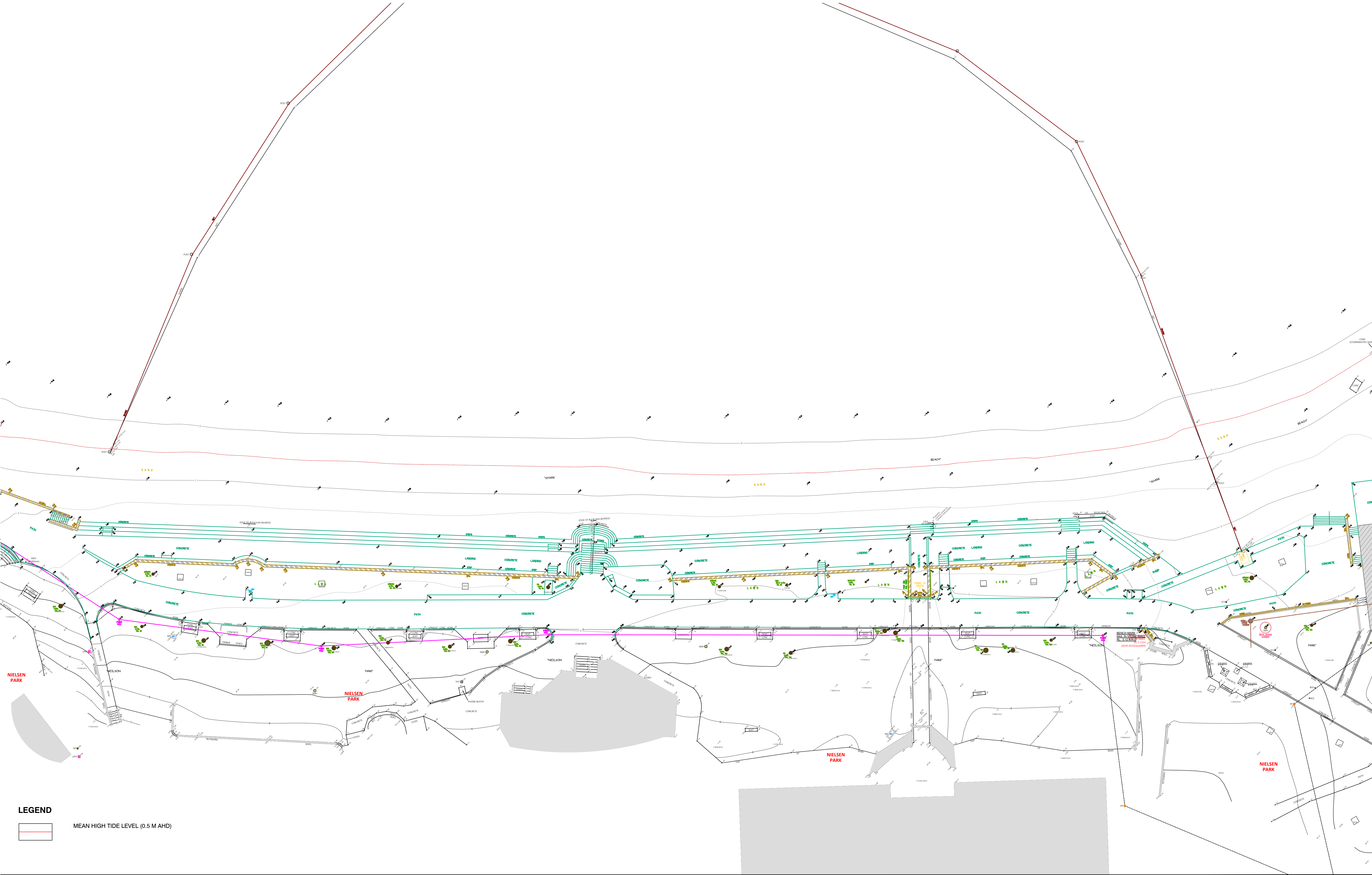
DRAWING
COVER SHEET

PROJECT №
S19-020

DRAWING №
L-100

SHEET SIZE
A1

ISSUE
D2



LEGEND



MEAN HIGH TIDE LEVEL (0.5 M AHD)

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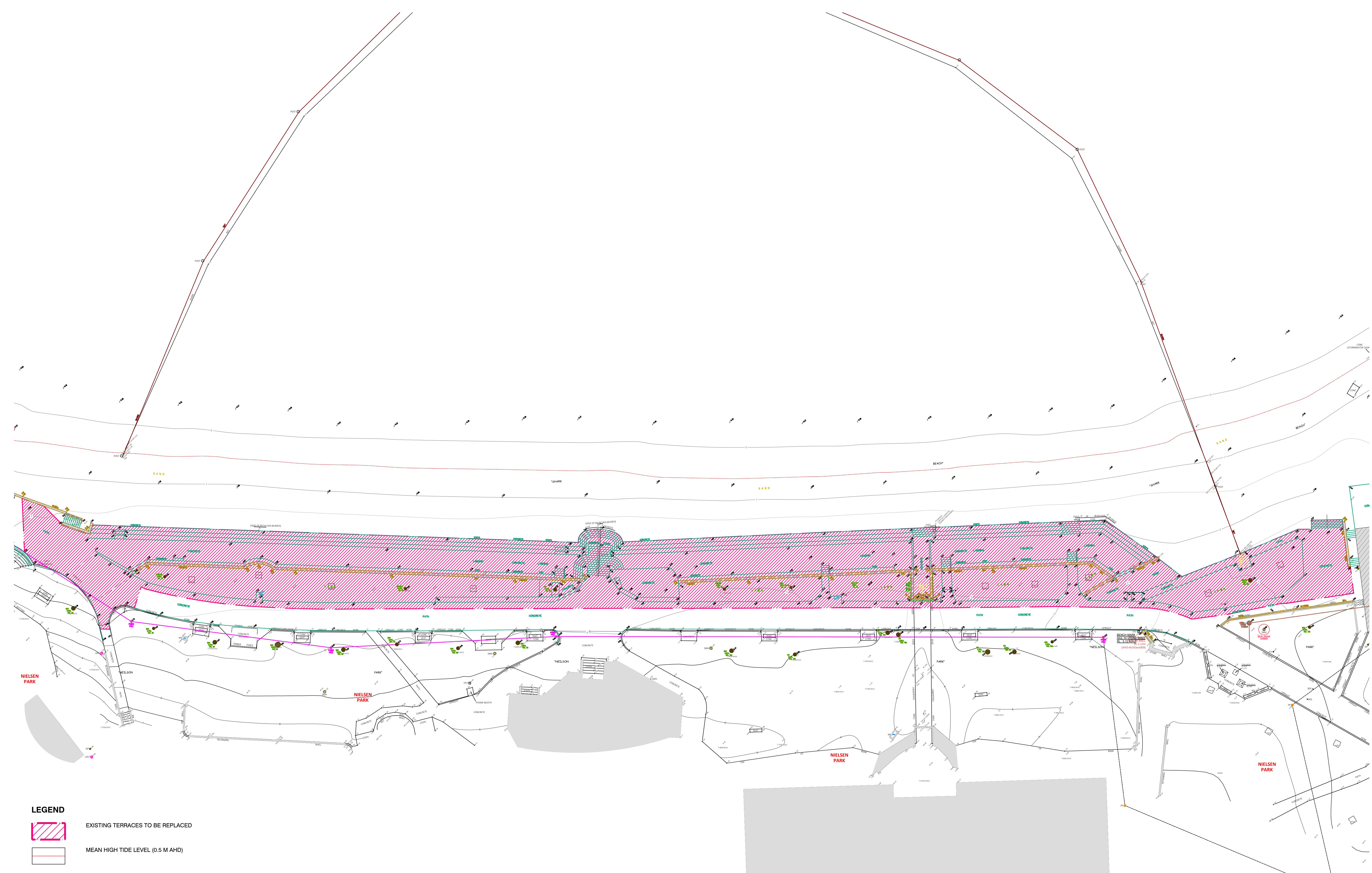
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CLIENT
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ARCHITECT

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DRAWING SCALE
SCALE 1:250 @ A1
2.5 0 2.5 5 12.5m



DRAWING
EXISTING CONDITION PLAN
PROJECT No
S19-020
DRAWING No
L-101
SHEET SIZE
A1
ISSUE
D1



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CLIENT

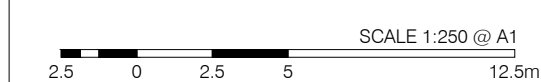
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ARCHITECT

STATUS

**ISSUE FOR
DEVELOPMENT APPLICATION**

DRAWING SCALE



NORTH POINT



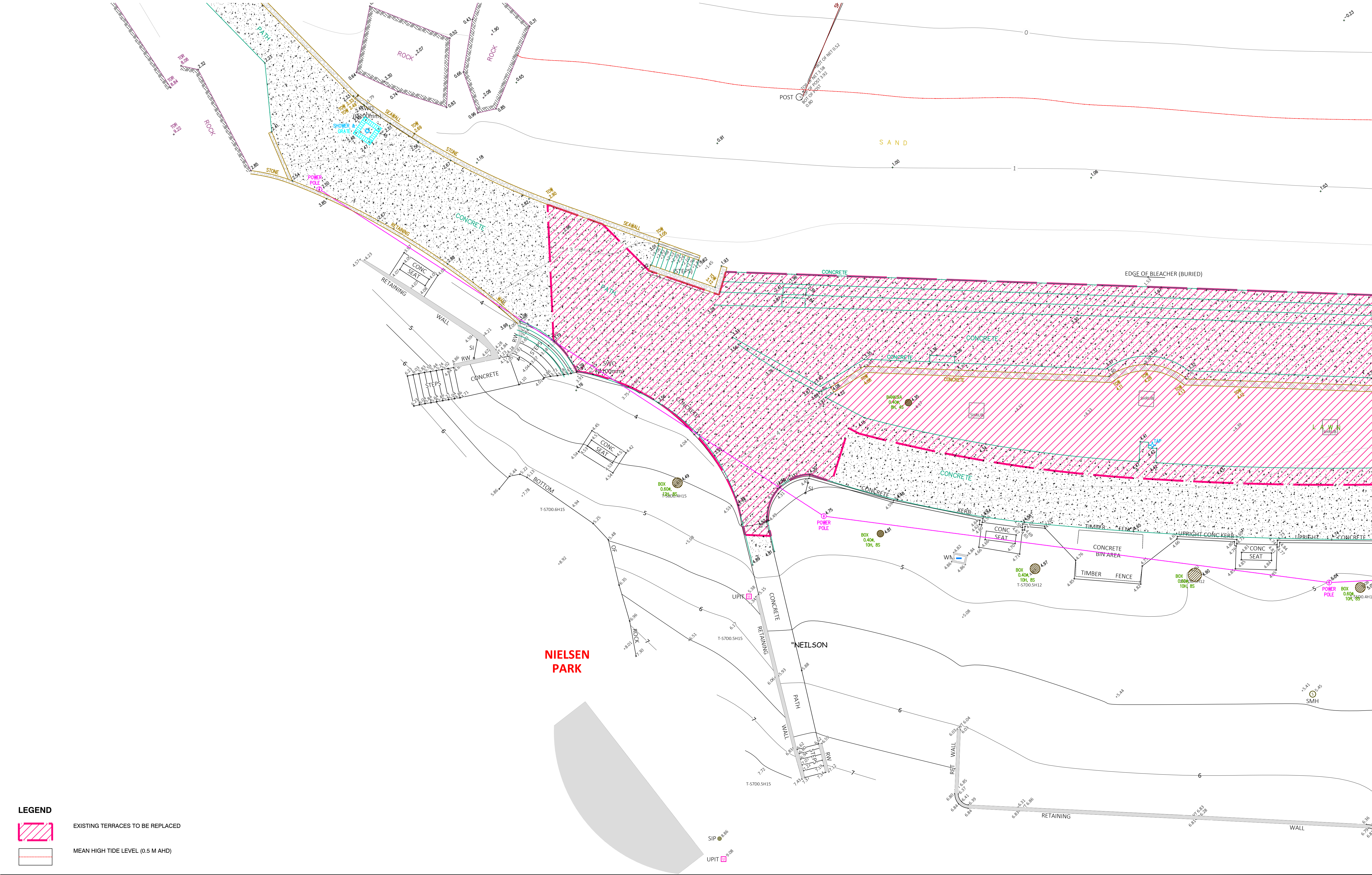
DRAWING

DEMOLITION PLAN

PROJECT №
S18-030DRAWING No.
L-200

SHEET SIZE
A1

ISSUE
D2



LEGEND

EXISTING TERRACES TO BE REPLACED

MEAN HIGH TIDE LEVEL (0.5 M AHD)

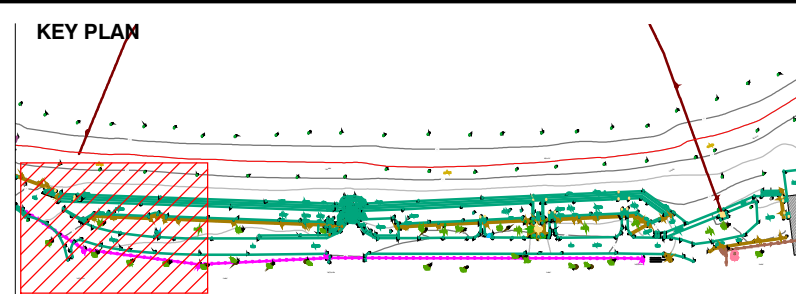
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ARCHITECT

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DRAWING SCALE

NORTH POINT

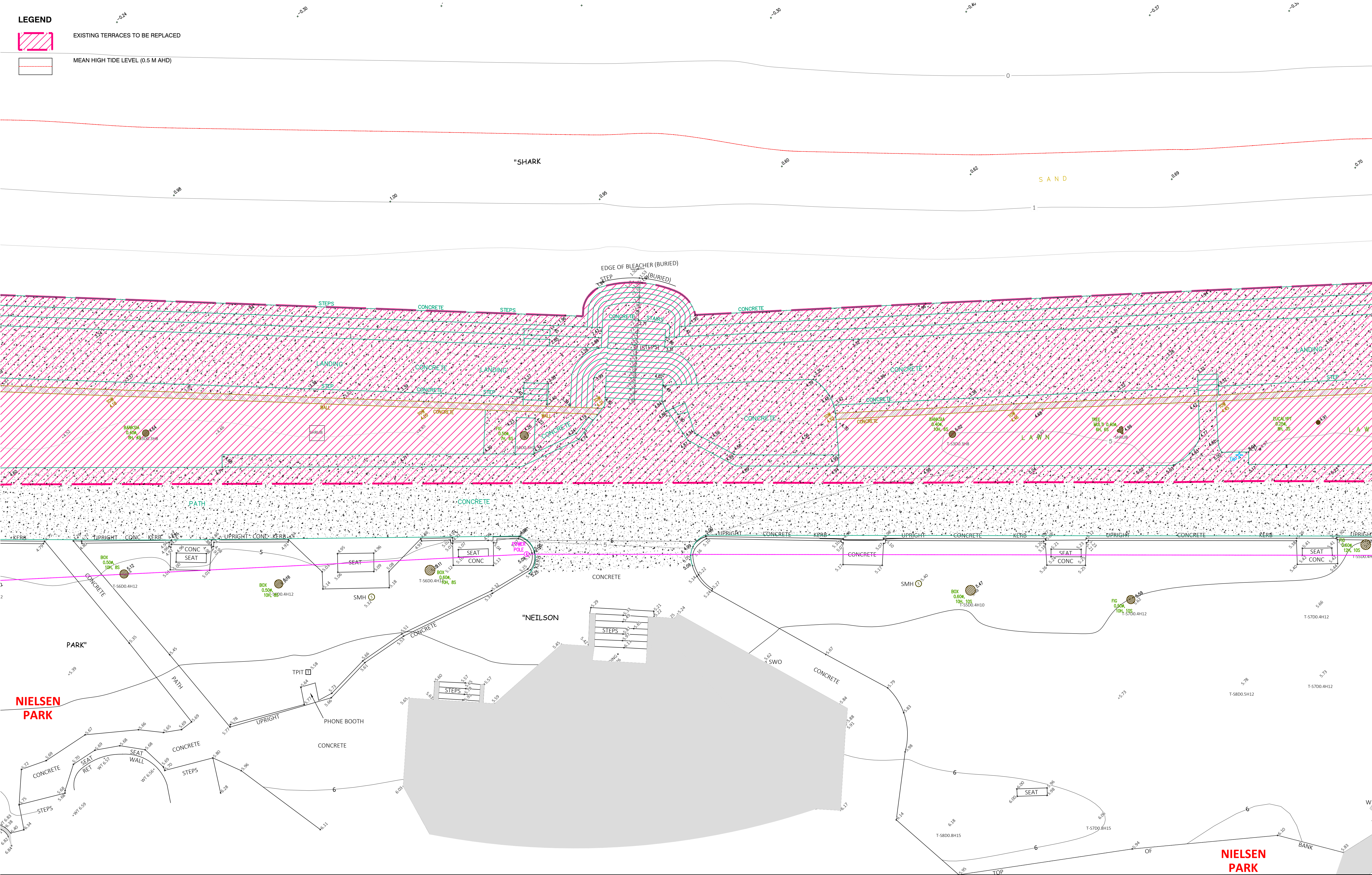
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S19-020

DRAWING N^o
L-201

SHEET SIZE
A1

ISSUE
D2

DRAWING
DEMOLITION PLAN SHEET 1 OF 3



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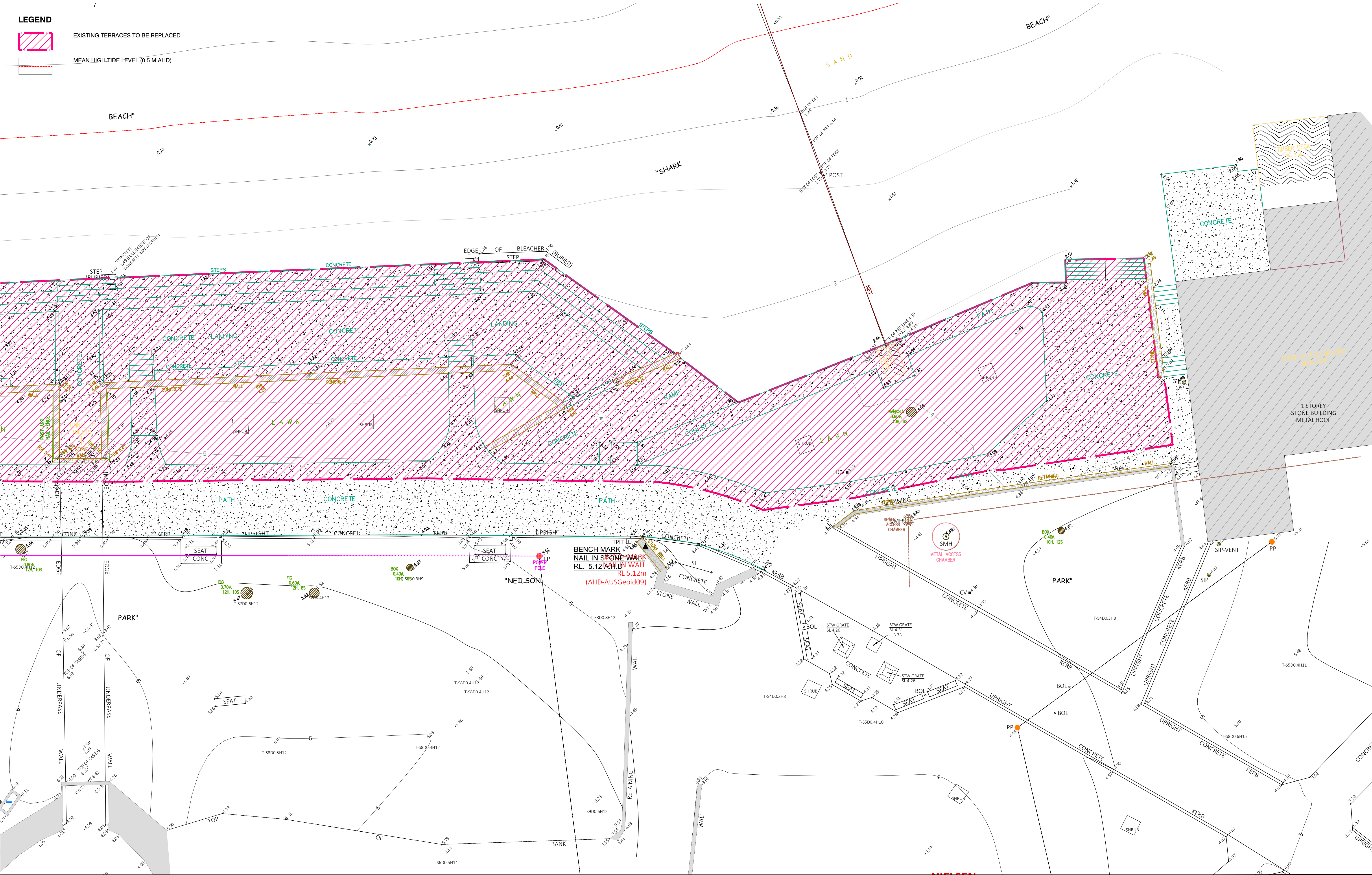
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NORTH POINT

DRAWING
DEMOLITION PLAN SHEET 2 OF 3

PROJECT Nbr S19-020	SHEET SIZE A1
DRAWING Nbr L-202	ISSUE D2



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NORTH POINT

DRAWING
DEMOLITION PLAN
SHEET 3 OF 3

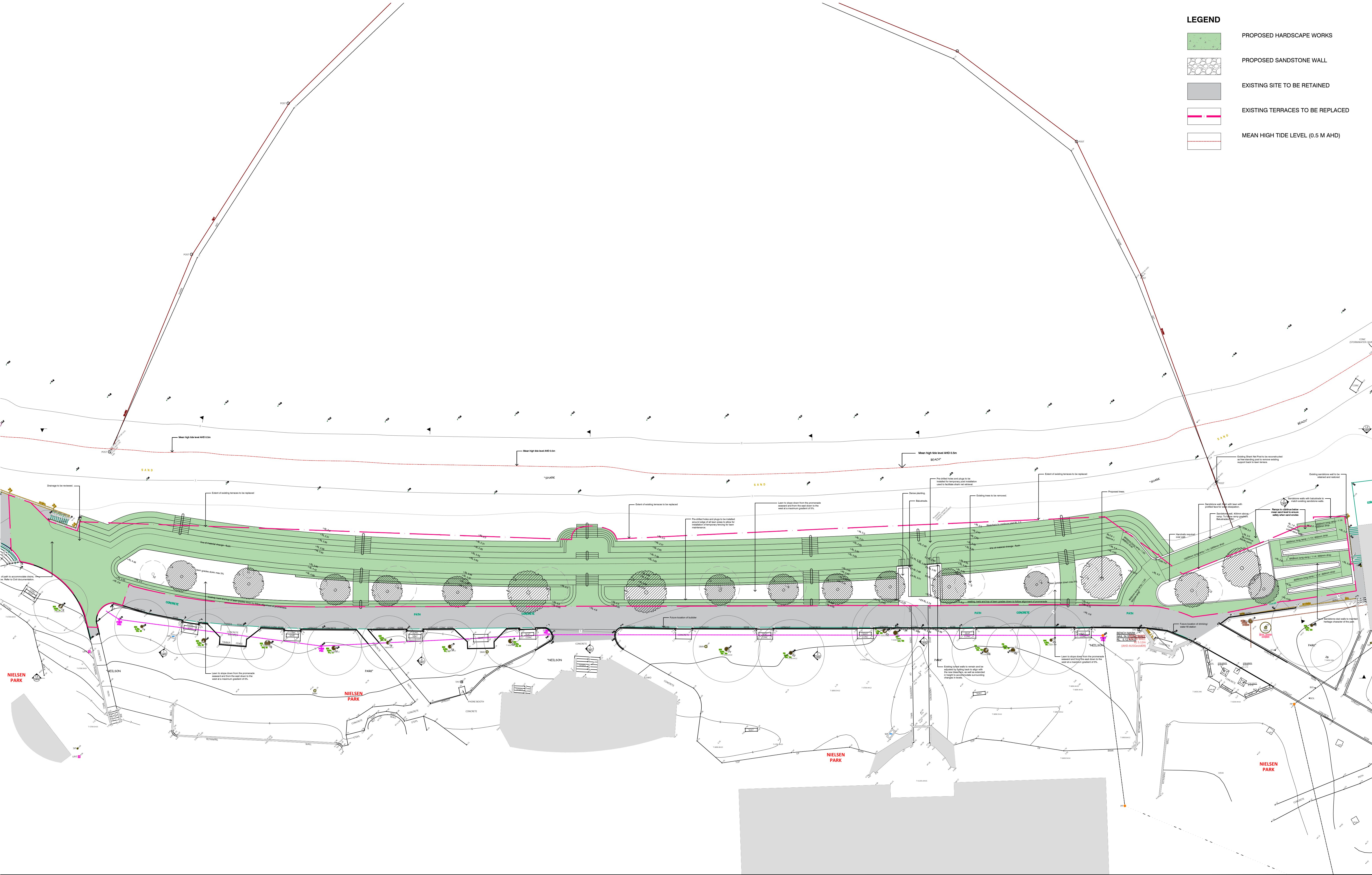
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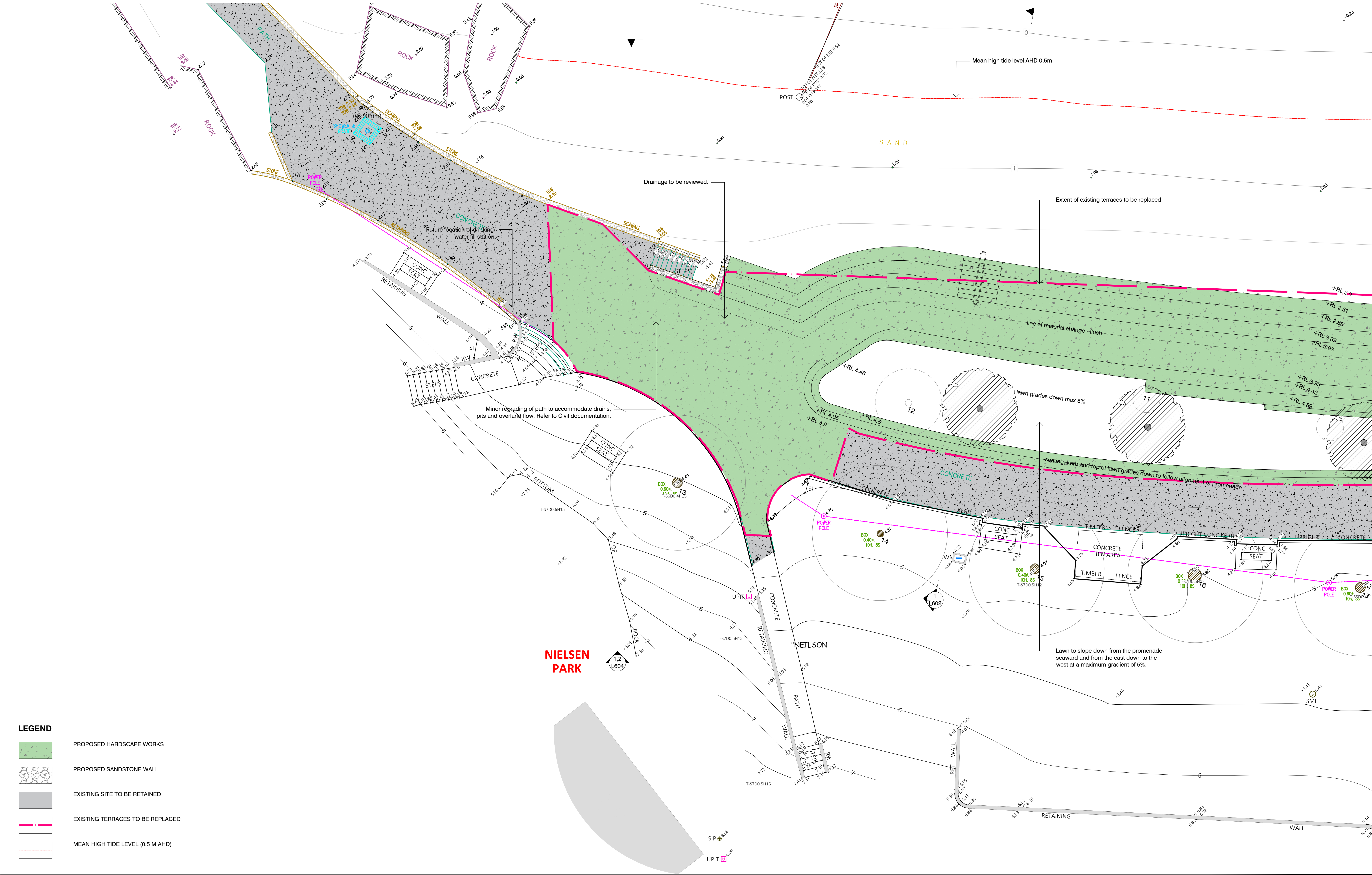
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L-203

SHEET SIZE
A1

ISSUE
D2

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D1	06/08/20	ISSUE FOR DA	SL	RB
D2	18/08/20	ISSUE FOR DA	SL	RB

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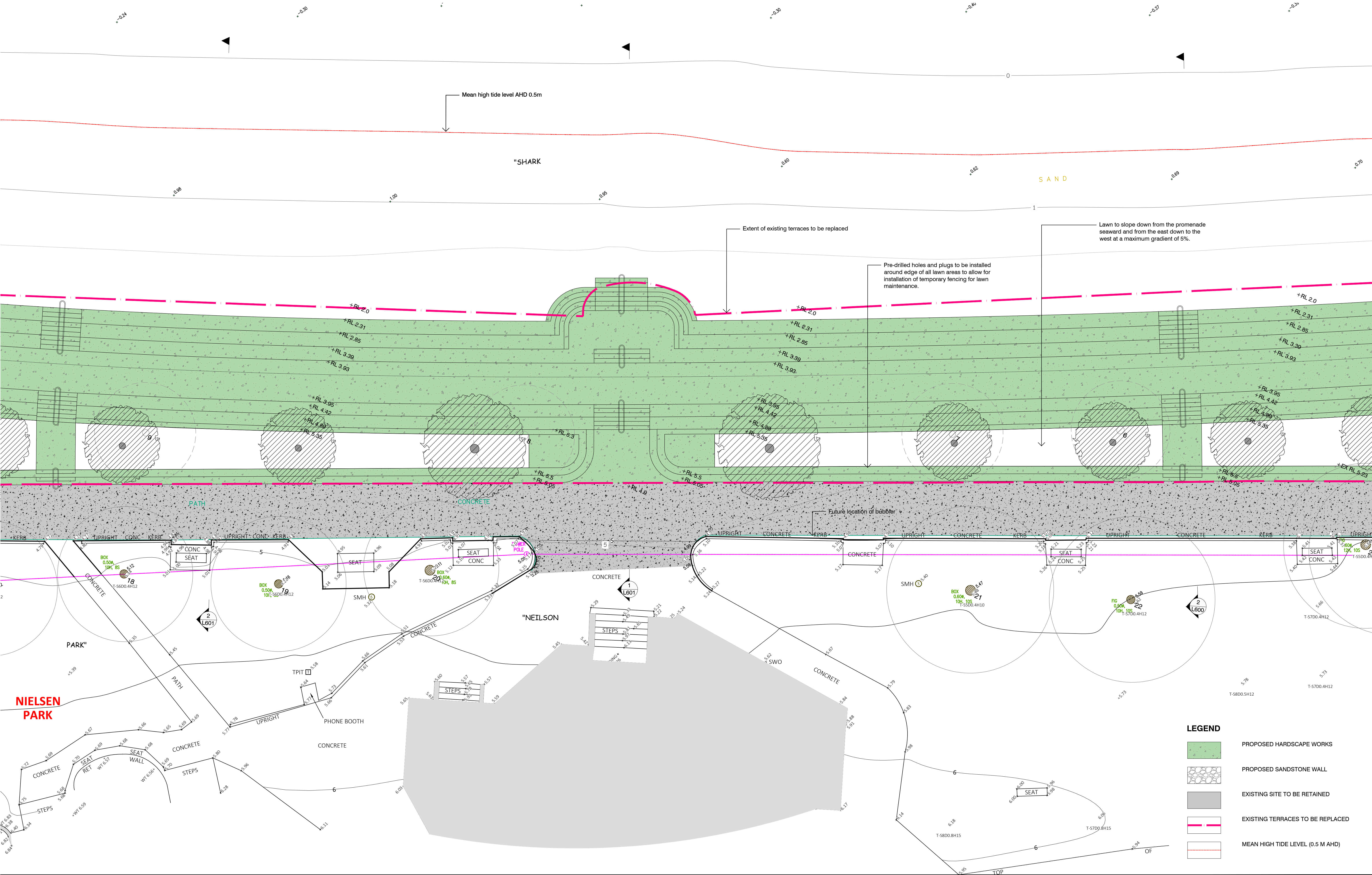
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NORTH POINT

DRAWING
GENERAL ARRANGEMENT PLAN SHEET 1 OF 3

PROJECT No S19-020	SHEET SIZE A1
DRAWING No L-301	ISSUE D2



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D1	06/08/20	ISSUE FOR DA	SL	RB
D2	18/08/20	ISSUE FOR DA	SL	RB

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SYDNEY MELBOURNE WASHINGTON

PROJECT

NIELSEN PARK SEA WALL REDEVELOPMENT

CLIENT

NATIONAL PARKS AND WILDLIFE SERVICE

ARCHITECT

STATUS

ISSUE FOR DEVELOPMENT APPLICATION

DRAWING SCALE

SCALE 1:100 @ A1

1 0 1 2 5m

NORTH POINT

DRAWING

GENERAL ARRANGEMENT PLAN SHEET 2 OF 3

PROJECT No

S19-020

DRAWING No

L-302

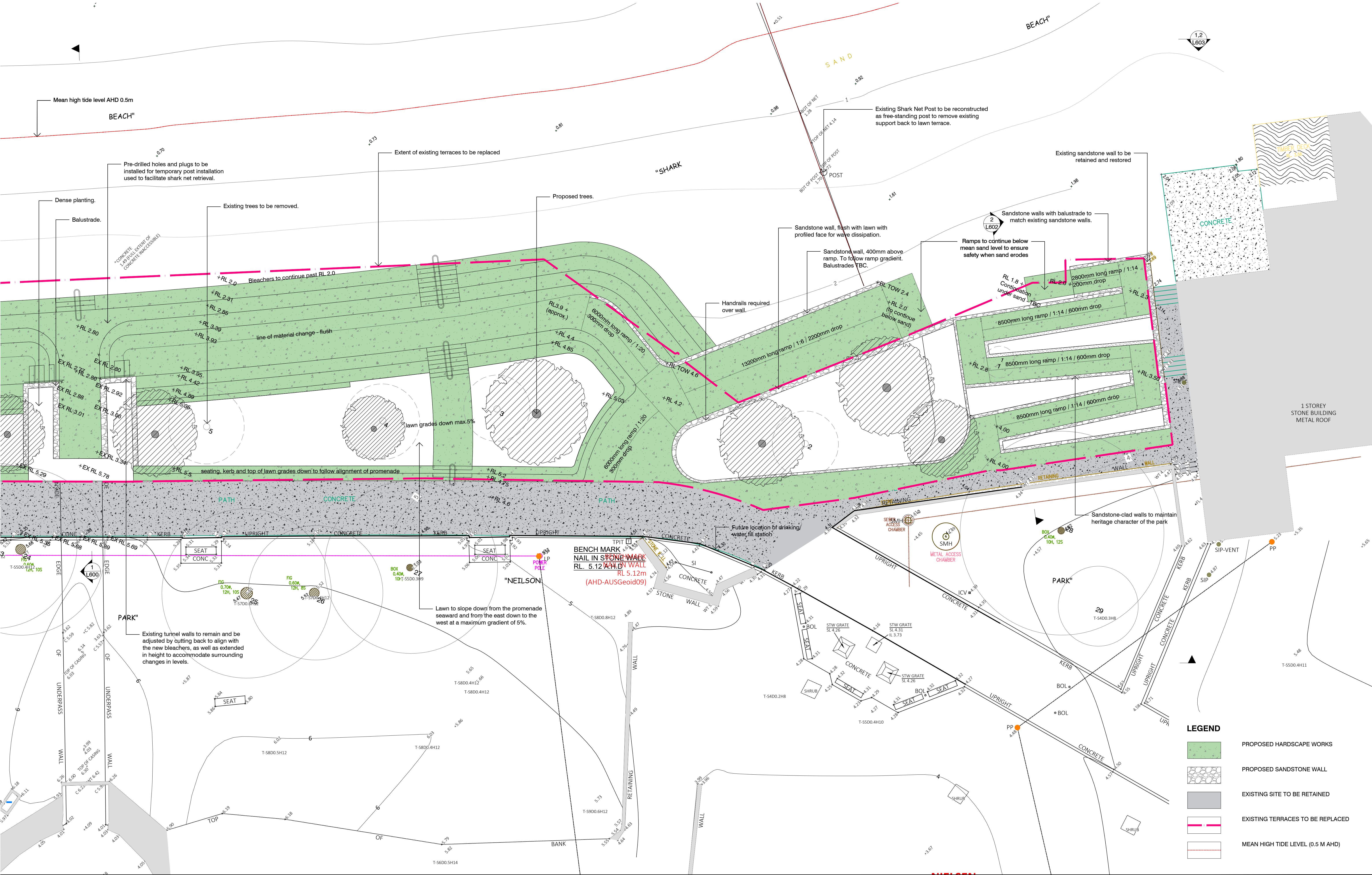
SHEET SIZE

A1

ISSUE

D2

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NOTES

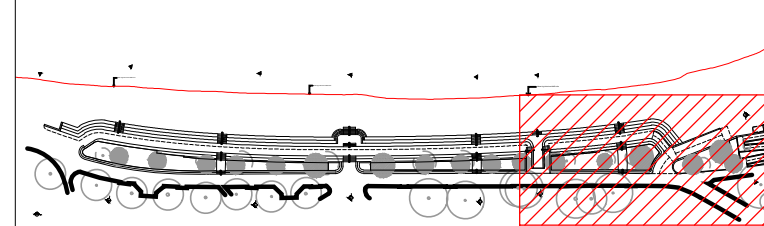
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D2	18/08/20	ISSUE FOR DA	SL	RB

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PROJECT

NIELSEN PARK SEA WALL REDEVELOPMENT

CLIENT

NATIONAL PARKS AND WILDLIFE SERVICE

ARCHITECT

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ISSUE FOR DEVELOPMENT APPLICATION

DRAWING SCALE

1 0 1 2

SCALE 1:100 @ A1

5m

NORTH POINT



DRAWING

GENERAL ARRANGEMENT PLAN

SHEET 3 OF 3

PROJECT No

S19-020

DRAWING No

L-303

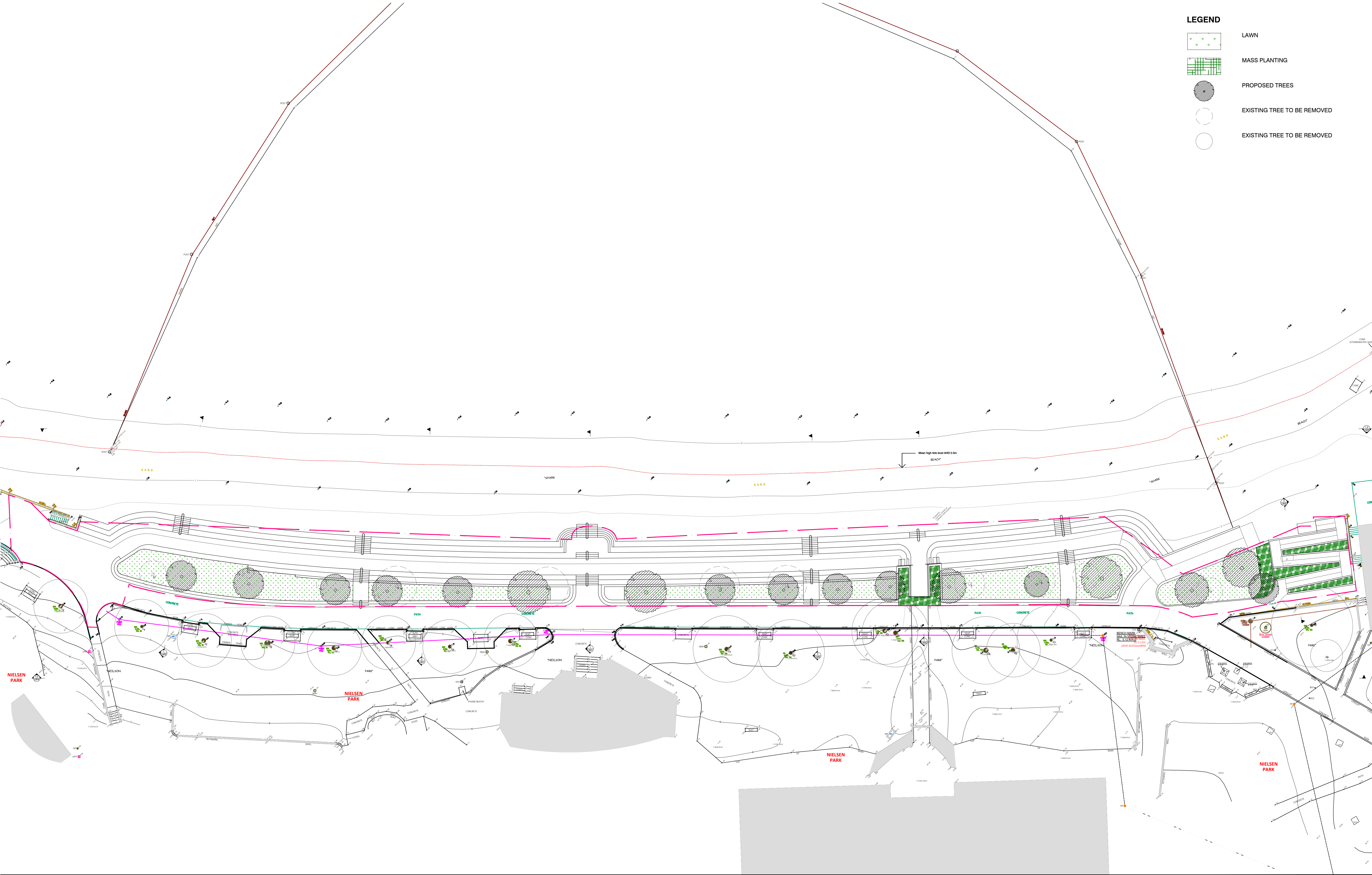
SHEET SIZE

A1

ISSUE

D2

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- LEGEND**
- LAWN
 - MASS PLANTING
 - PROPOSED TREES
 - EXISTING TREE TO BE REMOVED
 - EXISTING TREE TO BE REMOVED

NOTES

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FILE PATH:P:\SYDNEY\S19-020 NIELSEN PARK SEAWALL\06. CONCEPT DESIGN\02. CAD DRAWINGS\01. SHEET SETS\OC_S19-020_500_PLANTING.DWG; DATE PLOTTED:17/08/2020; PLOTTED BY:SCARLETT UANG

KEY PLAN

ISSUE	DATE	AMENDMENT	DRN	APRVD
D1	06/08/20	ISSUE FOR DA	SL	RB
D2	18/08/20	ISSUE FOR DA	SL	RB

OCULUS

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SYDNEY MELBOURNE WASHINGTON

PROJECT
NIELSEN PARK SEA WALL REDEVELOPMENT

CLIENT
NATIONAL PARKS AND WILDLIFE SERVICE

ARCHITECT

STATUS
ISSUE FOR DEVELOPMENT APPLICATION

DRAWING SCALE

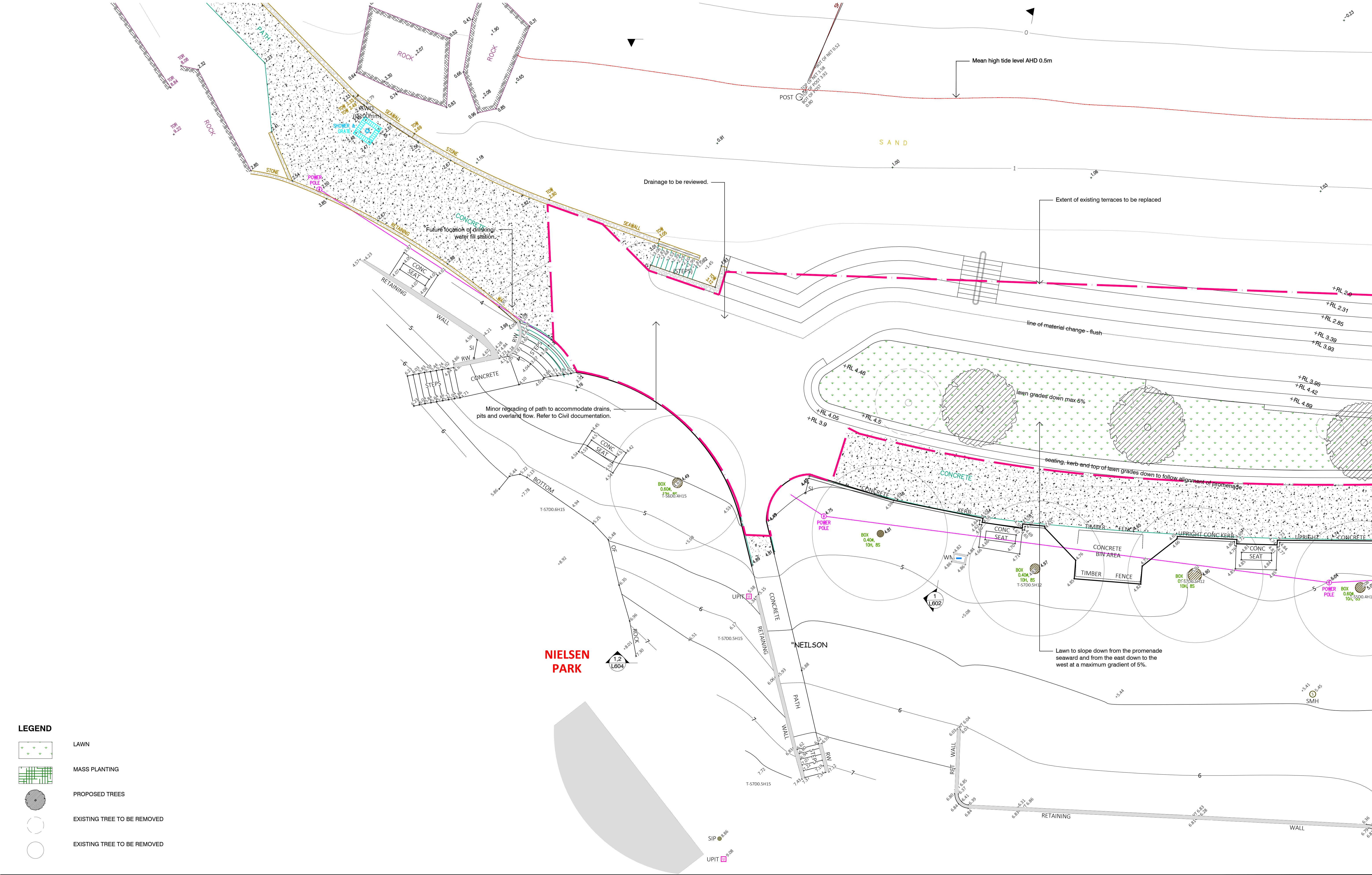
SCALE 1:250 @ A1

2.5 0 2.5 5 12.5m



DRAWING
PLANTING PLAN

PROJECT No S19-020	SHEET SIZE A1
DRAWING No L-500	ISSUE D2



LEGEND

LAWN

MASS PLANTING

PROPOSED TREES

EXISTING TREE TO BE REMOVED

EXISTING TREE TO BE REMOVED

NOTES

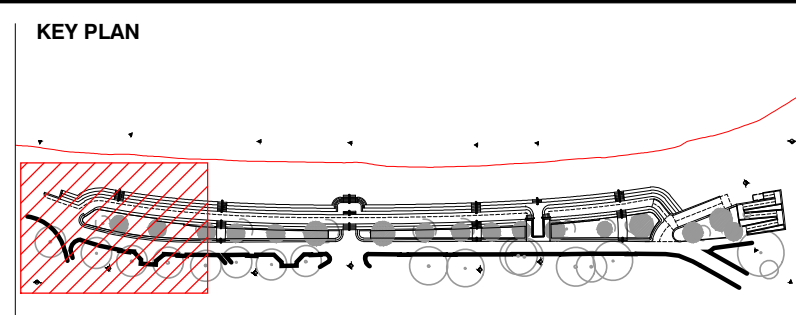
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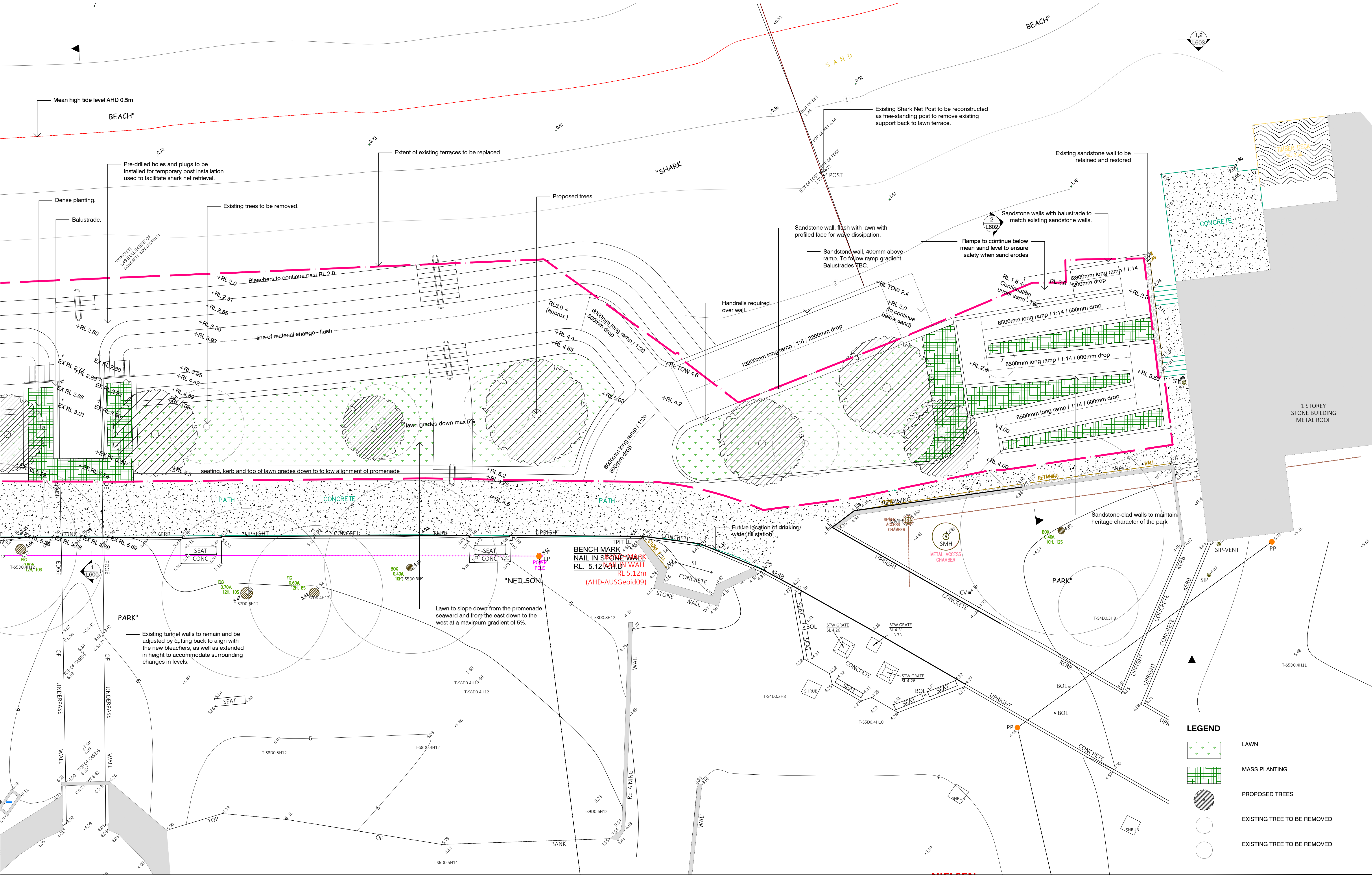
ARCHITECT

STATUS
ISSUE FOR DEVELOPMENT APPLICATION

DRAWING SCALE
SCALE 1:100 @ A1
1 0 1 2 5m

NORTH POINT

DRAWING PLANTING PLAN SHEET 1 OF 3	
PROJECT No S19-020	SHEET SIZE A1
DRAWING No L-501	ISSUE D2



NOTES

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ISSUE	DATE	AMENDMENT	DRN	APRVD
D1	06/08/20	ISSUE FOR DA	SL	RB
D2	18/08/20	ISSUE FOR DA	SL	RB

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STATUS
ISSUE FOR DEVELOPMENT APPLICATION

DRAWING SCALE
SCALE 1:100 @ A1
1 0 1 2 5m

NORTH POINT

DRAWING
PLANTING PLAN SHEET 3 OF 3

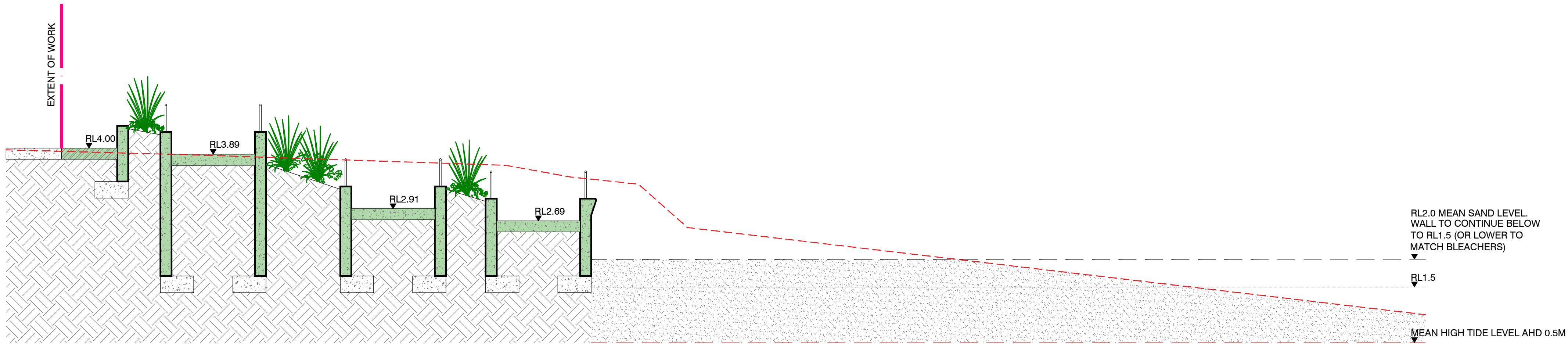
PROJECT No
S19-020

DRAWING No
L-503

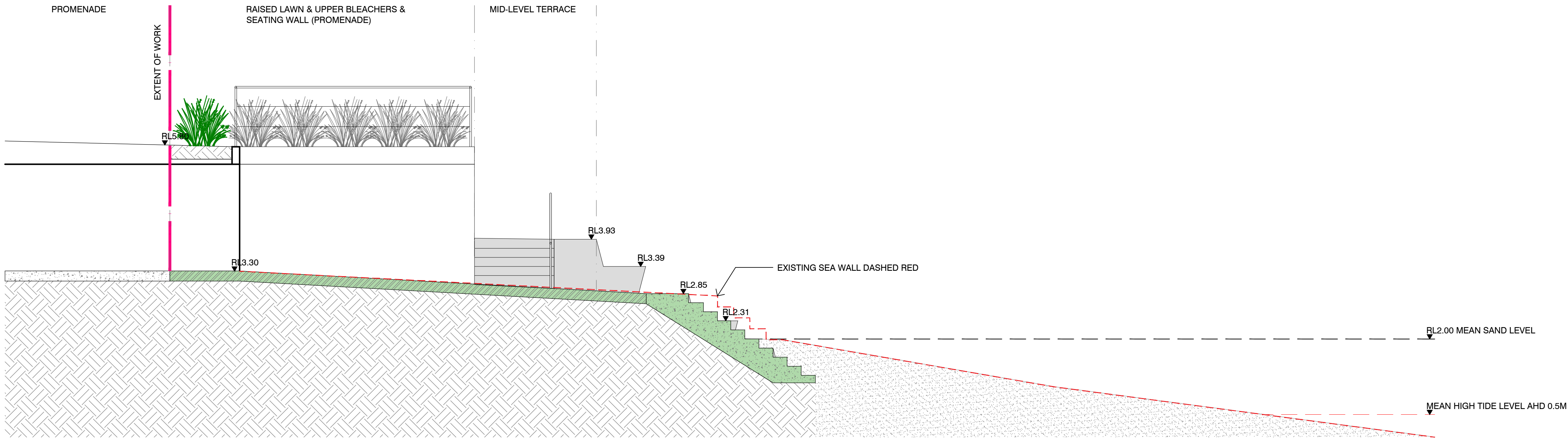
SHEET SIZE
A1

ISSUE
D2

NOTE: BLEACHERS, STAIRS AND RAMPS TO
EXTEND BELOW MEAN SAND LEVEL



1 SECTION AA - FAR EASTERN END - RAMP CROSS SECTION
L600 / 1:50



2 SECTION BB- TUNNEL
L600 / 1:50

NOTES

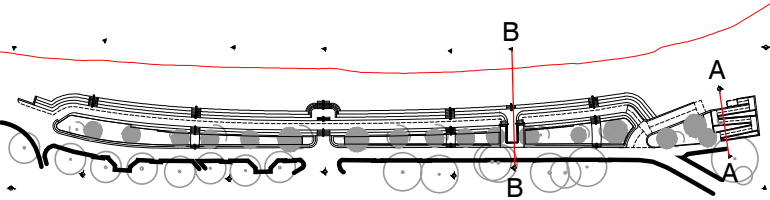
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ISSUE	DATE	AMENDMENT	DRN	APRVD
D1	06/08/20	ISSUE FOR DA	SL	RB
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PROJECT
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NATIONAL PARKS AND WILDLIFE SERVICE
ARCHITECT

STATUS
ISSUE FOR DEVELOPMENT APPLICATION

DRAWING SCALE
0.5 0 0.5 1 2.5m
SCALE 1:50 @ A1

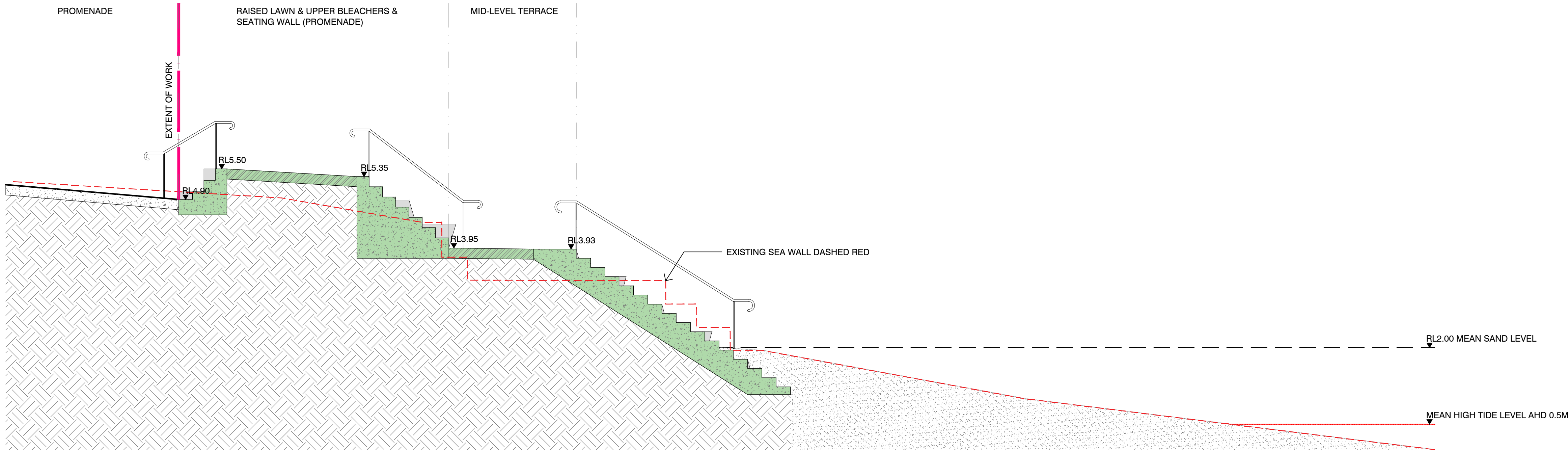


DRAWING SECTIONS

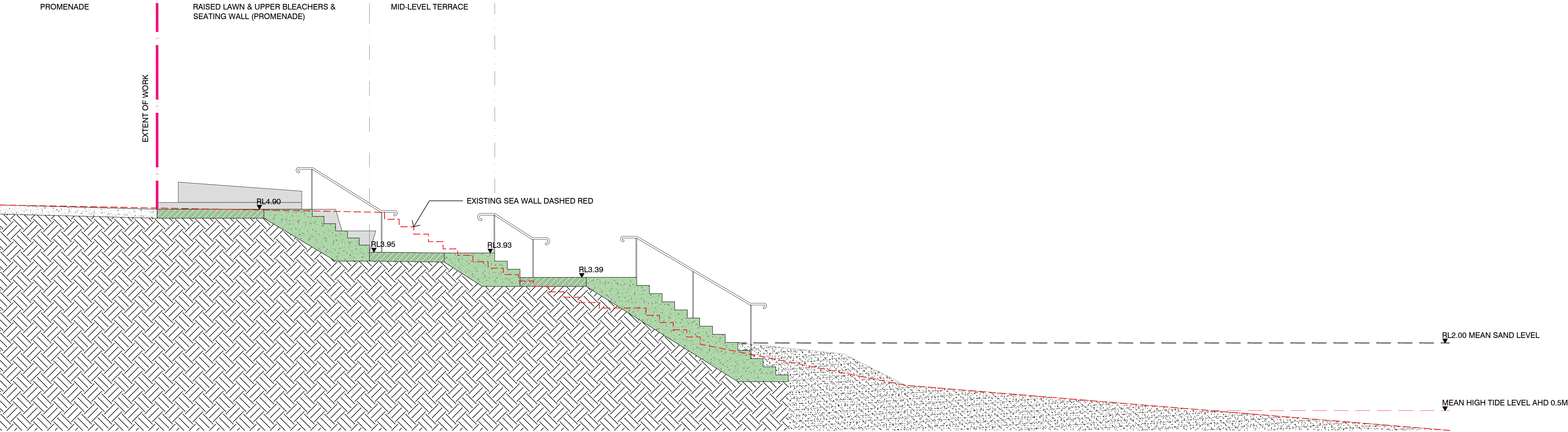
PROJECT №
S19-020
DRAWING №
L-600

SHEET SIZE
A1
ISSUE
D2

NOTE: BLEACHERS, STAIRS AND RAMPS TO
EXTEND BELOW MEAN SAND LEVEL



1 SECTION CC - EASTERN SIDE
L601 1:50



2 SECTION DD - CENTRAL STAIRS
L601 1:50

NOTES

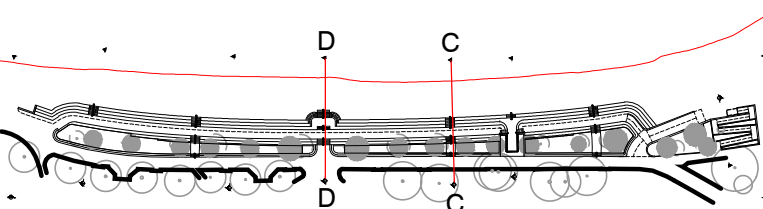
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KEY PLAN



ISSUE	DATE	AMENDMENT	DRN	APRVD
D1	06/08/20	ISSUE FOR DA	SL	RB
D2	18/08/20	ISSUE FOR DA	SL	RB

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ARCHITECT

STATUS
ISSUE FOR DEVELOPMENT APPLICATION

DRAWING SCALE
SCALE 1:50 @ A1
0.5 0 0.5 1 2.5m

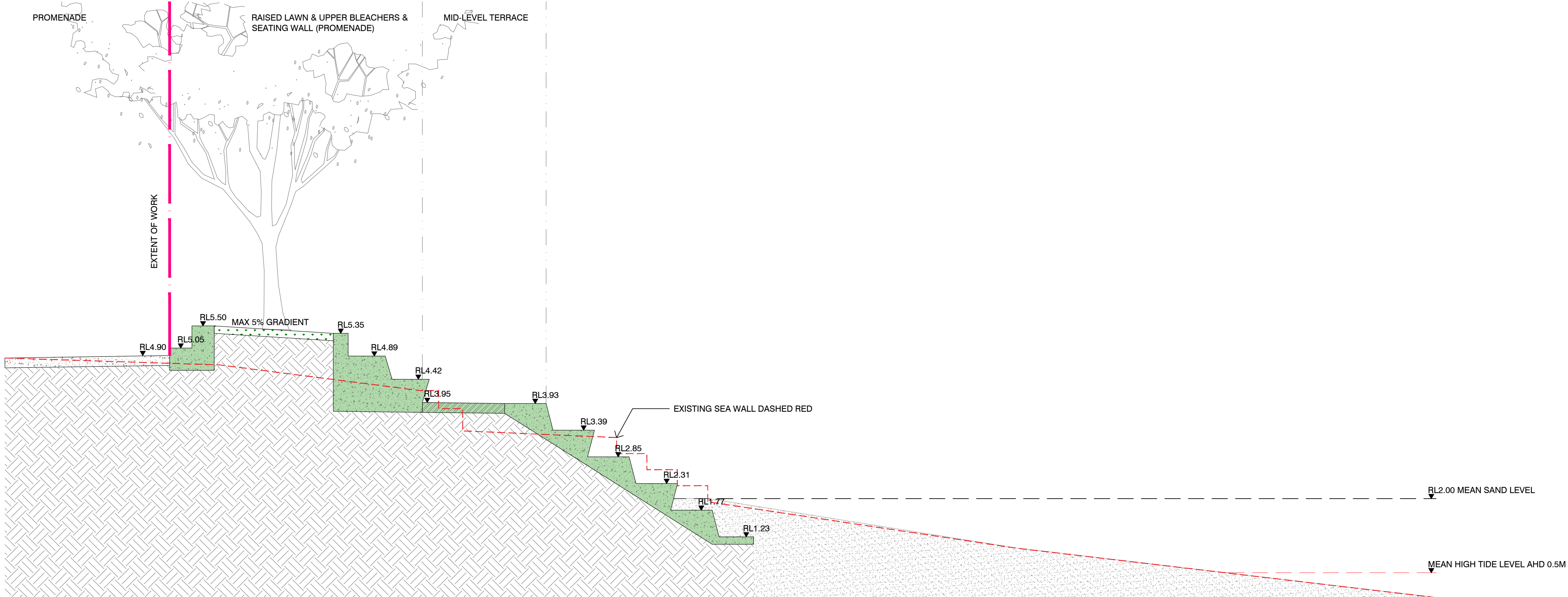


DRAWING SECTIONS

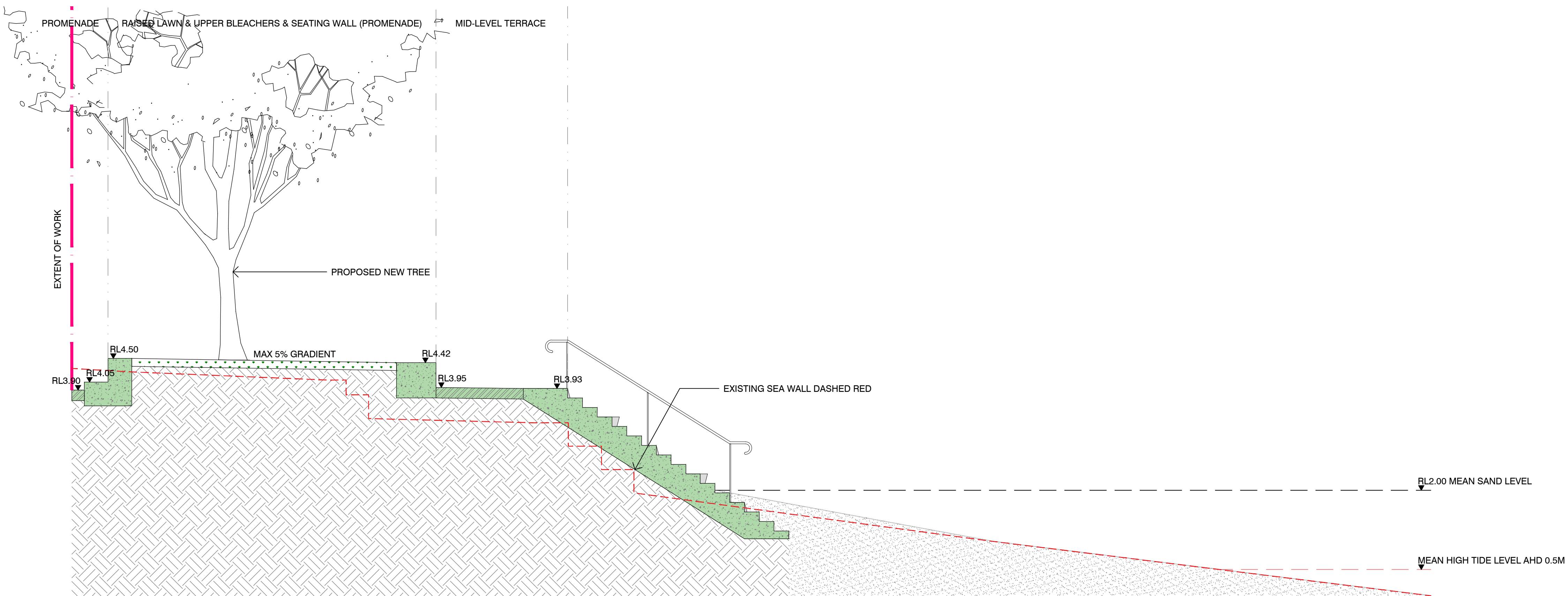
PROJECT №
S19-020
DRAWING №
L-601

SHEET SIZE
A1
ISSUE
D2

NOTE: BLEACHERS, STAIRS AND RAMPS TO
EXTEND BELOW MEAN SAND LEVEL



1 SECTION EE - WESTERN END (NEAR PAVILION)
L602 1:50



2 SECTION FF - WESTERN END
L602 1:50

NOTES

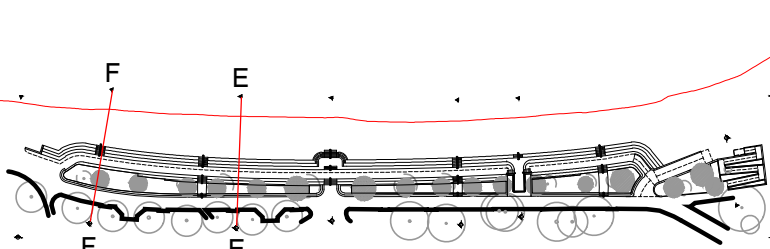
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STATUS

**ISSUE FOR
DEVELOPMENT APPLICATION**

DRAWING SCALE

SCALE 1:50 @ A1

NORTH POINT



DRAWING SECTIONS

PROJECT No.
S19-020DRAWING
L-602

SHEET SIZE
A1

ISSUE
D2

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