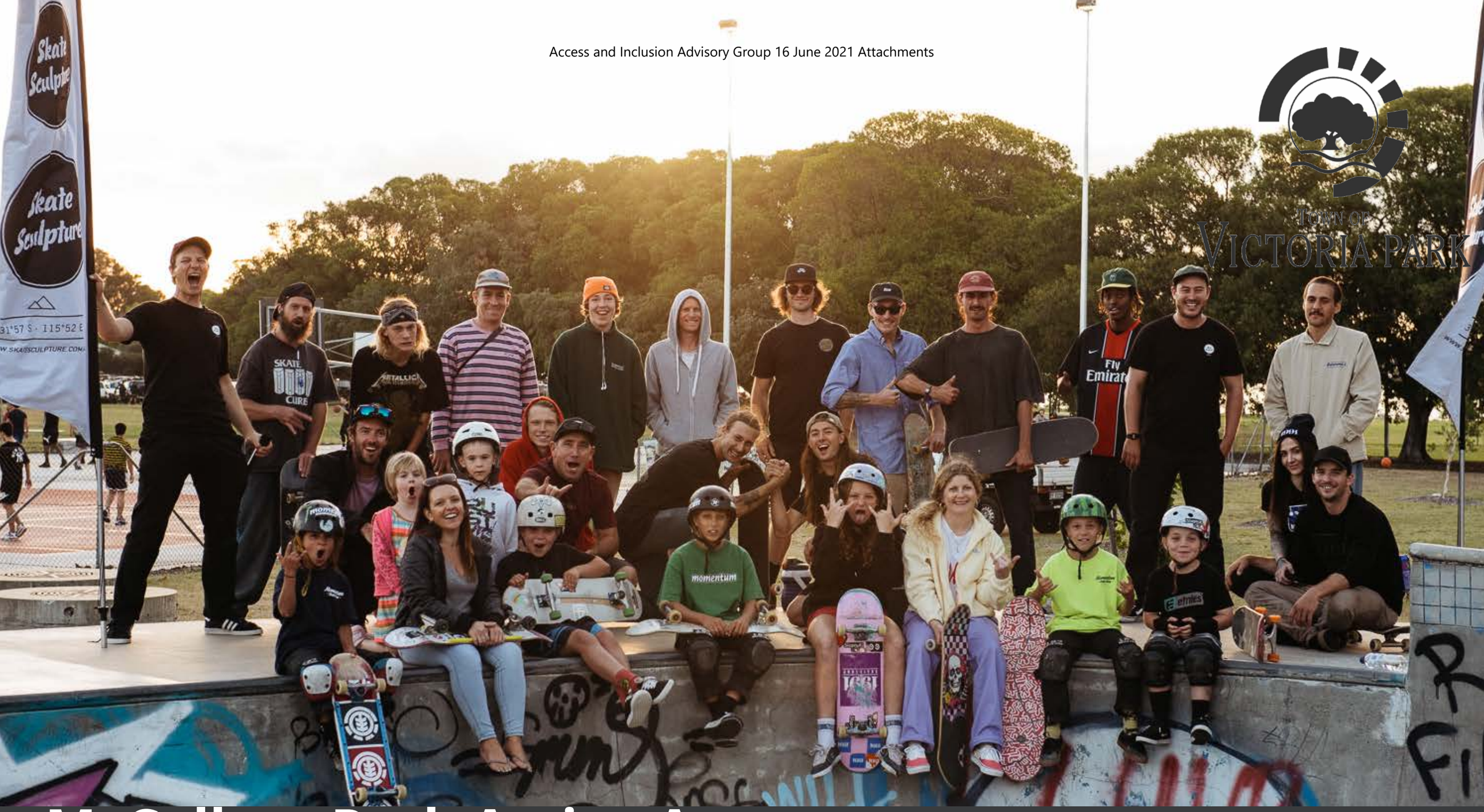
Access and Inclusion Advisory Group 16 June 2021 Attachments



McCallum Park Active Area

Community Consultation & Concept Design Report

On behalf of Town of Victoria Park

PREPARED BY:

ON BEHALF OF:

TOWN OF VICTORIA PARK

REVISION	DATE	ISSUE OR AMENDMENT	BY	REVIEWED
A	08/01/2020	DRAFT ONE ISSUED FOR CLIENT COMMENT	SS	
B	25/02/2020	DRAFT TWO ISSUED FOR CLIENT COMMENT	SS	
C	16/03/2020	DRAFT THREE ISSUED FOR CLIENT COMMENT	SS	
D	12/05/2020	DRAFT FOUR ISSUED FOR CLIENT COMMENT	SS	

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1.0 INTRODUCTION

1.1 THE PROJECT

McCallum Park is an iconic landing point of connection of the Swan River foreshore recreational stretch between South Perth, the Stadium Parklands and as far north as Ascot. The redevelopment of this precinct is powerful in its ability to reach out beyond the extents of the Town of Victoria Park and draw community in droves to the new parkland experiences.

Herein, the opportunity for a landmark skate and active recreation hub are endless. The design team have worked to develop a concept that responds to the Town of Victoria Park's (ToVP) request for key area detailed design and documentation to the 'Activity Hub and All Ages Play' and the 'ToVP Gateway' as identified areas in the Urbis Concept Report (Taylor Reserve & McCallum Park Concept Report, URBIS, 1 May 2017).

At the heart of this design process is the vision for a state of the art activity and recreation precinct that is nestled into the surrounding existing and new landscape.

The landscape concept design draws on the opportunity to elevate spectators and visitors to the site in an engaging immersive context. The central spectator shelter and terraced seating is co-located between the plaza, bowl and flow activity and recreation precincts, with direct viewing towards the existing basketball courts.

Traversing through and around the site shall be universal access through the use of ramps, graded pathways where required. The proposed pedestrian bridge provides a direct connection from the existing Canning Highway underpass, through the site on an elevated walkway experience, and connects into the future main pathway connection between the activity and recreation precinct and the foreshore. The landscape will include amenity such as shelter, seating, toilets, water bubblers, open plaza for events and lighting.

Holistically, this precinct is one for cohesive design and function through the use of active recreation nodes and passive recreational pathway networks. It seeks to draw views from the surrounding mature landscape, Swan River and CBD, creating an iconic experience for the immediate community and visitors to the site.

Image: McCallum Park birds eye view

2.0 CONCEPT PROGRESSION STAGE ONE

2.1 CONCEPT DEVELOPMENT

October 2019 saw the collaboration of Emerge Associates, Skate Sculpture and New Line Skateparks Inc, to flesh out the project brief, early planning desires of the Town of Victoria Park and the sites infrastructure limitations, such as existing Water Corp assets, existing skate precinct and associated drainage outlets, existing trees, vehicular and pedestrian connections to the site.

Our team expressed local knowledge of the precinct in terms of user access and functionality of the existing recreational elements, popularity of the site area with locals and visitors, and general discussion of the range of visitor numbers that the new design could draw, noting the flow and flux of visitors to the wider precinct area was common for the likes of pop up and Perth specific events (eg of previously held events: Perth Garden Festival, 4WD and Adventure Show, Embargo).

A vision for the project was set in terms of creating a local and nationally renowned activity and recreation precinct that could rival those of similar nature worldwide.

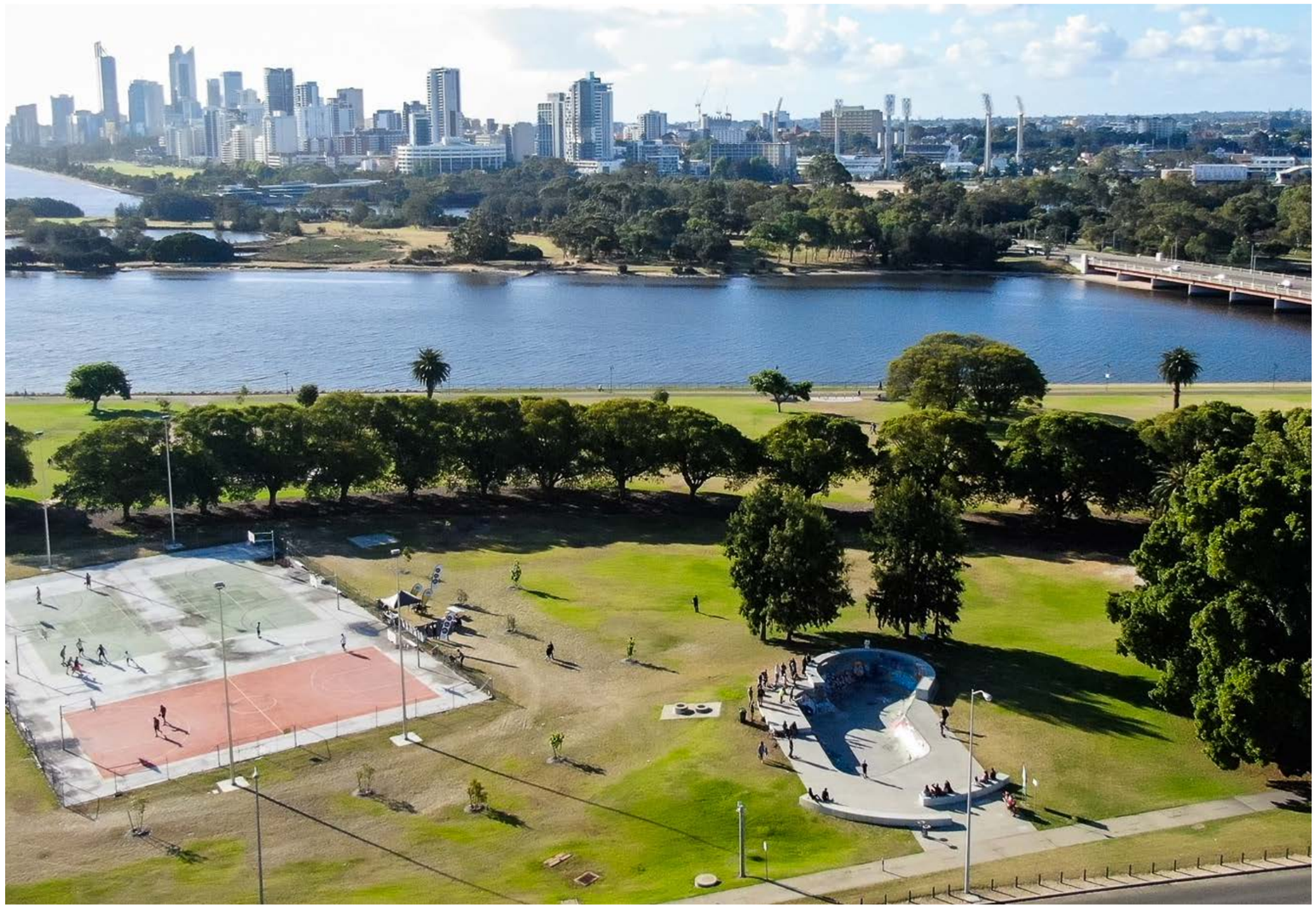


Image: McCallum Park Swan River setting

2.0 CONCEPT PROGRESSION STAGE ONE

2.2 ZONING PLAN

The second phase of this collaboration saw the generation of a zoning plan for key functions of the activity and recreation area and its colocation of niche activity precincts. The existing basketball court and skate bowl were key elements to design functional activation around and gave inspiration to a centralised spectator viewing area which would provide opportunity for day to day spectator needs and larger scale needs of programmed skate/ bmx community events and competitions.

Movement networks were a key priority in the development of the zoning plan. Creating an effective and pragmatic circulation network was paramount in allowing visitors to access and traverse the space comfortably, be that all access, wheeled connections for skateboards, inline skates, bmx, scooters or if they were simply pedestrian traffic.

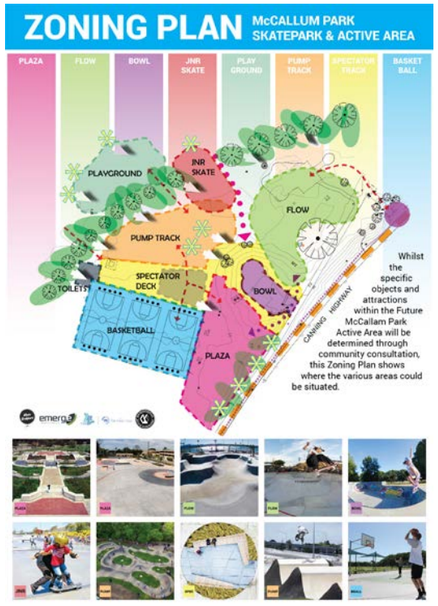
Key connections to the foreshore were reviewed so as the flow from the activity zone was seamless in transition, yet inviting for those not necessarily engaged with the activity users, to observe the recreational pursuits in action. It is important for the overall cohesive design process to be in unison with the water's edge and be easily accessible either from the bikeway or from the activity precinct. Additionally, just as important are connections from the existing pedestrian footpath on Canning Highway and the pedestrian underpass.

Image: First Draft Zoning Plan

2.0 CONCEPT PROGRESSION STAGE ONE

2.3 DISPLAY BOARDS FOR COMMUNITY CONSULTATION

In alignment with the proposed methodology, Skate Sculpture and Emerge Associates created the following series of vision boards to display during the community consultation which were then used in digital format to accompany the online survey. The intention of the display boards was to give all interested stakeholders an overview of the project objectives and a detailed breakdown of the various areas that will make up the overall skatepark and activity area. The boards aimed to empower participants with the knowledge and understanding of site constraints, social responsibilities, global trends and design tactics in order to make meaningful contributions through their survey responses, hand drawn designs and comments made to camera.



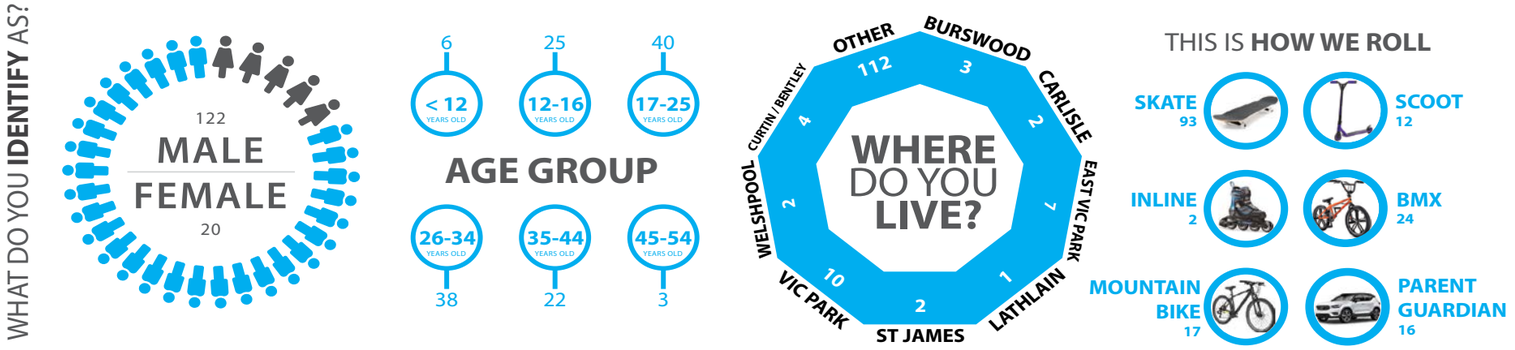
3.0 COMMUNITY DESIGN WORKSHOP STAGE ONE

3.1 COMMUNITY DESIGN WORKSHOP | SUMMARY

The intention behind the McCallum Park Active Area community consultation was to gather statistics, ideas and requests from the target demographic to best shape the project design brief.

The first community consultation for the McCallum Park Activite Area took place on the 17th of November from 2pm-6pm at McCallum Park. The event attracted approximately 60 people including local residents, skateboarders, BMX riders and parents. The afternoon consisted of presentations, design sessions, group conversations, completion of surveys and a series of skateboarding competitions at both the street and bowl components of the exiting McCallum Park skatepark.

The following Monday morning the Town of Victoria Park launched the McCallum Park Skatepark and Active Area online design survey via the 'Your Thoughts' platform, which was open for a two-week time frame. In total, 144 people participated in the survey resulting in the following outcomes;



TOP 5 **STREET ELEMENTS** YOU WANT TO SEE**?**

WHAT TYPE OF **BMX/CYCLE FACILITY** WOULD YOU LIKE TO SEE**?**

TOP 3 **BOWL FEATURES** YOU WANT TO SEE**?**

TOP 3 **PUMP/JUMP ELEMENTS** YOU WANT TO SEE**?**

WHAT **SKATE TERRAIN** DO YOU **PREFER?**

TOP 3 **PARKLAND ELEMENTS** YOU WANT TO SEE**?**

TOP 3 **RECREATIONAL ELEMENTS** YOU WANT TO SEE**?**

3.0 COMMUNITY DESIGN WORKSHOP STAGE ONE

3.1 COMMUNITY DESIGN WORKSHOP | SUMMARY

In addition to the survey questions, participants were given the opportunity to write responses to a series of questions that would further shape the design brief to ensure the precinct will align with community expectations. Key questions and responses included;

Please describe what type of bowl should be included in the design and why?

"Vans Park Series Bowl as there are none of this style in Perth, it's the most relevant for the times and will be capable of attracting international competitions and demonstrations"

"A flow bowl because it can accommodate for all. For example you can include HIPS AND extensions, start at 5ft, have a 7ft section then a 10ft section for the real gnarly riders"

"Combination bowl which is a unique shape for Perth, with numerous hips and pockets, suitable for hosting national bowl riders events"

If you could describe your dream street plaza for this space, what would it be?

"Focus on making a plaza with a real street feel. Marble ledges, some good stairs and rails, gaps, etc. This also has the advantage of giving it less of a skatepark feel and more of an urban shared space feel"

"Something similar to Street League with an elevated starting section to accommodate a large stair set with handrails and hubbas. Interesting centre feature and more mellow features along the side for beginner / intermediate skaters. "

If you could describe your dream BMX /cycle facility for this space, what would it be?

"A pump track for the masses and jump track for fast speed and high air opportunities for advanced riders to attract spectators"

"Have a pump track with lines for transfers and then some table jumps, double jumps and a hip jump, all with progressive sizes"

"Separate beginner and advanced areas, concrete lips for less maintenance, left and right hips, big gaps"

If you could describe your dream recreational elements for this space, what would they be?

"Having lighting for night events would be essential, it would also make it less daunting to go at night. A café would also be very nice as it would encourage community engagement and an even more social aspects"

"Free wifi, BBQ areas, public art, lots of bright lights for night sessions, cafe, street art everywhere. Anything that brings family outdoors and together!"

Do you have any comments you would like to share with us about the project so far?

"Perth needs this. Town of VP has the opportunity to bring this to an international stage that will make the likes of the big name teams come visit and potentially comps like street league and vans. Plus going forward into the skating future Perth up and comers need somewhere to skate and train that can help them get to the next level and even Olympic opportunities! We need this park!!!"

"The setting, space and all round possibilities of McCallum Park make it ideal for Perth's premiere competition and demonstration skatepark. Much emphasis should be placed on ensuring it looks as iconic as possible"

3.0 COMMUNITY DESIGN WORKSHOP STAGE ONE

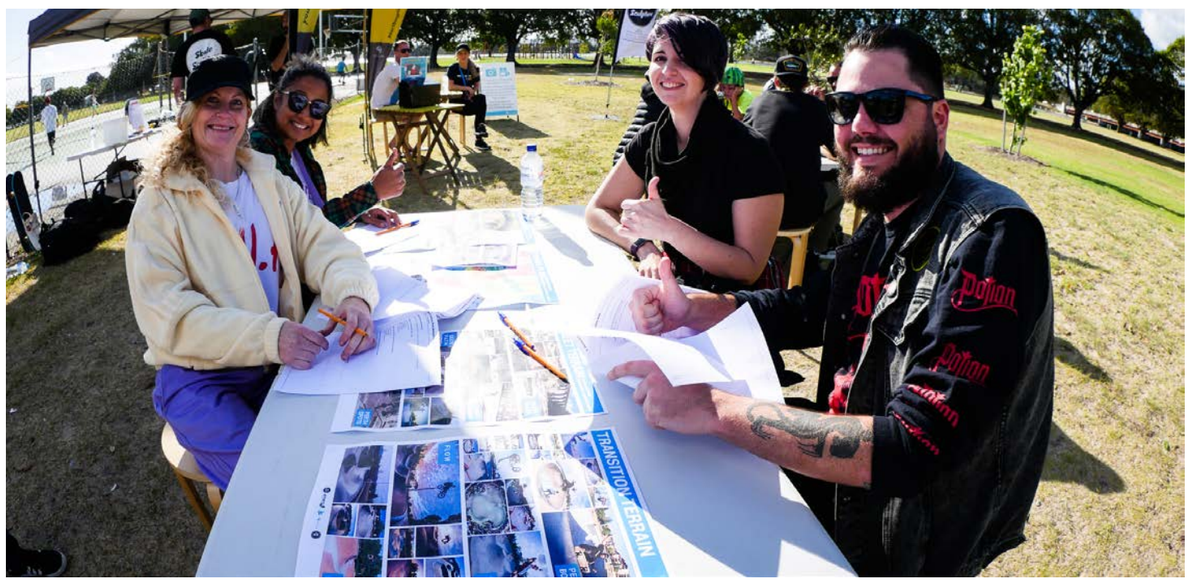
3.1 COMMUNITY DESIGN WORKSHOP | SUMMARY

Based on the site opportunities outlined in the zoning plan, the community feedback was categorised under the following four recreation areas.

Bowl
The survey results showed a clear desire to see a flow bowl of similar size and style to those skated in the international Vans Park Series bowl competition. Many requests specified a bowl that would function as training facility for Perth riders and be capable of hosting international competitions and demonstrations. The most frequently requested objects within the bowl were hips, pool coping, roll ins and extensions. To complement the flow bowl there were considerable requests for a junior bowl to accommodate beginner to intermediate riders.

Skate Plaza
The international Street League skate series was frequently referenced in comments relating to the skate plaza. Participants emphasised the importance of having a skate plaza capable of hosting competitions and demonstrations on par with the size, style and standard set by Street League. Many people wanted to avoid the plaza feeling like a stock standard skatepark by achieving a 'real street feel'. Suggestions to achieve this included innovative landscaping, replicating famous street spots and using aesthetically pleasing materials and textures.

Participants also wanted to see an elongated skate path that would be create a causal skating experience in contrast to the more challenging skate plaza. Suggestions to best implement this included significant flat ground area and providing a series of lower level objects. Within the street area the most frequently requested objects were ledges / manual pads, stairs/ledge/handrail, hips, quarter-pipes, euro gaps, garden gaps, flat rails and a pier 7.



Pump Track / Lump Line
From the proposed three options of a pump track, jump track and mountain bike skills course there was a clear demand for both the pump track and jump track, with the mountain bike skills course proving less popular. The pump track was the most requested option with many people stating it would increase physical health and provide an recreational area for people of all ages. The jump track appealed to more experienced riders who wanted a challenging course where they could perform high speed aerial maneuvers.

Concrete was by far the most requested surface material for the pump track. This can be attributed to its ability to accommodate all forms of riders by providing the smoothest surface option. The most frequently requested objects for this area were hip jump, table top, double jumps and transfers.

Non Skate Recreation and Landscape.
In creating recreation options that would not require wheeled devices, the three most frequently requested elements were ninja obstacle course, bouldering / climbing wall and parkour. The three most requested parkland elements were lighting, BBQ's / shade areas and a pop-up café or skate store. Lighting was frequently requested with many people wanting the opportunity to enjoy the facility after school / work. Much emphasis was placed on comfort and creativity with requests for ample shade, spectator spaces, public art and family attractions.

4.0 CONCEPT PROGRESSION STAGE TWO

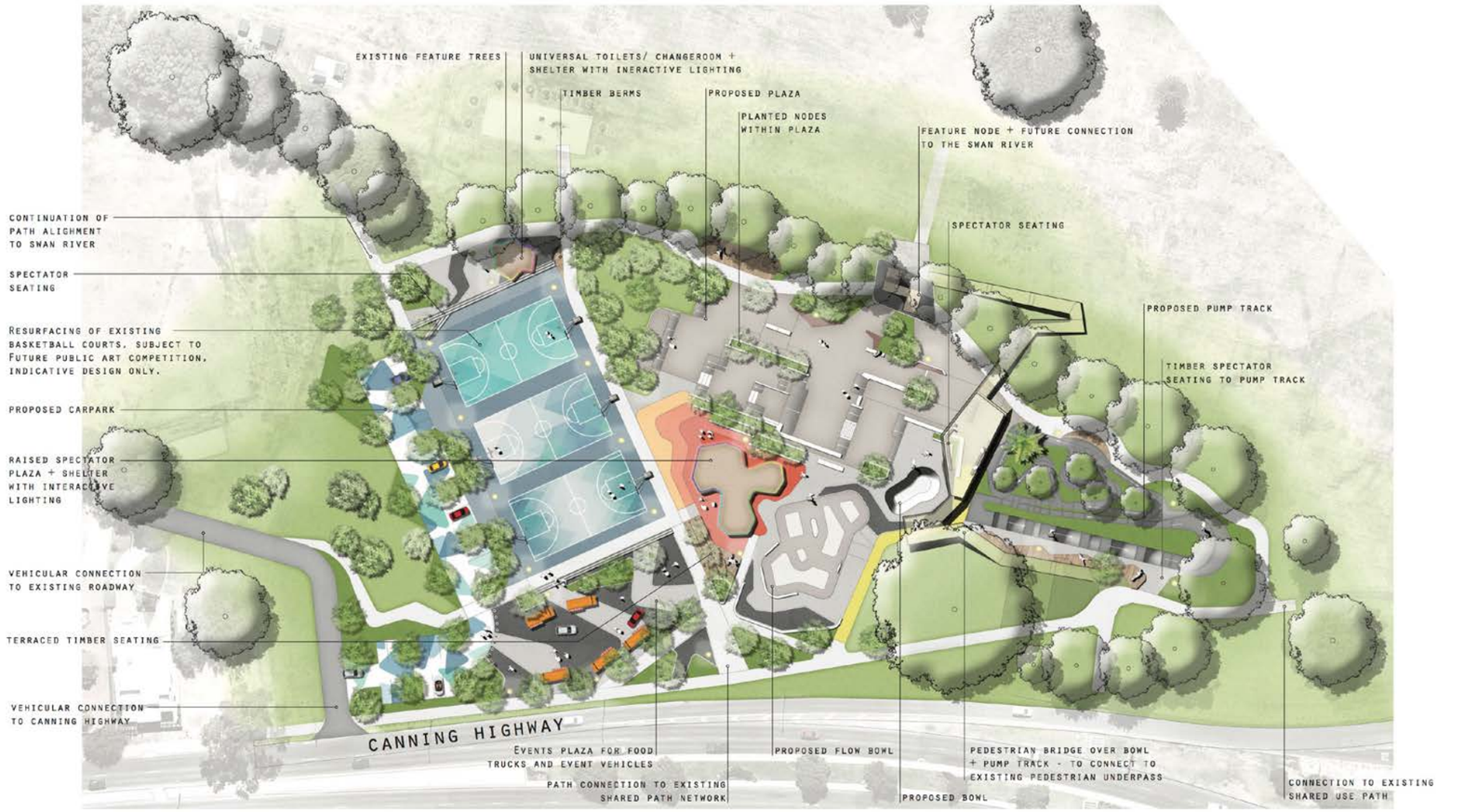
4.1 McCALLUM PARK ACTIVE AREA CONCEPT DESIGN (MASTERPLAN)

November / December 2019 saw design development from the zoning plan into two preliminary concept options that would be used for community consultation and the Town of Victoria Park to review and discuss options based on retaining or removing the existing skate bowl. Both options incorporate active skate / pump zones within the precinct, with the design differing pending the retention or demolition of the bowl.

A key opportunity exists in removing the existing bowl to further enhance the landscape experience of the activity precinct. In this concept, the landscape integration is able to flow from the proposed south western entry carpark, through an events plaza which is suited to the likes of food trucks, skate events vehicles. From here the concept offers change in material palettes from coloured concrete to timber composite plaza features that incorporate seating, planters and shelters. The landscape has also been incorporated into the skate precincts, particularly the plaza and pump zone areas to soften the reflective glare from skatecrete and to provide visual interest across the site.

Topographically this site will rise and fall. A unique feature of this concept is the proposed pedestrian bridge that allows visitors to the site that are not within the skate community to traverse over the precinct, providing a birds eye view of the activity below. The bridge in its concept formation is intended to allow free flow of the skate precinct to the pump track beneath it, and incorporate seating and shelter opportunities.

The concept also respects the existing landscape and its dominant canopy species which are a mix of native and exotic species. A dual use path hugs the canopy alignment of the large 'Ficus Hilli', with a dedicated connection node to the foreshore created through an existing 'gap' in the tree spacing's.



4.0 CONCEPT PROGRESSION STAGE TWO

4.2 SKATE PLAZA / SKATE PATH

The skate plaza is comprised of two key areas – a competition level skate plaza for intermediate to advanced riders, and an elongated skate path that will feature lower level street objects to accommodate beginner riders.

South East Platform.
In the south east corner riders call roll into two platforms of 1200mm and 900mm height where they can skate an assortment of stairs, down ledges and a hand rail. This section will be one of the most challenging components of the course and will be well utilised in competitions and demonstrations. To ensure back and forth flow a 'euro gap' has been included next to the stairs.

The lower 300mm high skate plaza platform will interface with the skate path. This platform is host to a street bank for turning around or transferring from the street plaza to skate path / vice versa, a garden planter for grinds and manuals, a two block that doubles as a stair set/ ledge and a roll-in bank that will allow riders to enter both the street plaza and skate path.

Whilst the platform design is intended for right to left and left to right flow, there are also lines to be skated from the top-level platform to bottom level platform, all the way into the skate path, giving this area a distinct street skating appeal.

Center Island.
The Center Island will interface with the terraced seating wall to create a multi-level central island featuring a plethora of gaps, stairs, ledges, banks and rails.

On the south side of the island riders will be able to ollie out of the banks to perform a series of tricks on the terraced seating, landing back into the skate plaza. This will put spectators right near the action and create a unique appeal to the McCallum Park skate plaza.

There is then a 'wheel chair ramp' creating a long mellow down rail/ out rail which can be skate from both directions. This leads to three-stair flat four-stair with rails and accompanying roll in banks. This combination feature is inspired by a popular Perth street skating attraction in the Perth Stock Exchange and allows for a sequence of two tricks lines down both sets of stairs/banks.

At the highest point of the central island is an across rail that will allow riders to hold long grinds/slides coming from both directions. This rail will be a big draw card for advanced riders. The rail connects to a 'kicker to kicker' gap ideal for aerial tricks which lines up with an A-frame and accompanying A-frame rails.

The northern end of the center feature is host to a flat rail and two across down ledges that interface with a level change into a long/wide flat ledge, perfect for holding long grinds, slides and manuals. This long ledge is a key feature in connecting the skate plaza to the skate path area.

Turnaround Platform.
To the western side of the skate plaza is a 1200mm high platform consisting of a long quarter pipe with two roll-in sections. The quarter pipe adds a transition feature to the plaza for increased terrain options and will allow for long grinds/slides, turning around for increased flow, and transferring from the skate plaza to skate path or vice versa.

This platform will be a congregation space for skaters, who will then drop in on the quarter pipe to commence their lines. When riders are requiring more speed than the 1200mm quarter pipe provides, they have the option of rolling into the rolled edges on both sides. This will give them ample speed to perform tricks on the highest level of the center islands. The roll in also allows skaters to get speed for fakie and switch (backwards) tricks which can otherwise be limited by only having the option of a quarter pipe. The roll in option also allows beginner riders who may not be confident with dropping into the quarter pipe.

4.0 CONCEPT PROGRESSION STAGE TWO

Skate Path
Starting at the north-east corner of the skate path, riders have the option of starting lines from the street bank or throwing down from the start of the skate path. This leads to a 300mm level change hosting a paved street bank, two stair, out rail, roll in bank and garden planter box that can be skated as an out ledge from one direction or as a bank to ledge from the other direction.

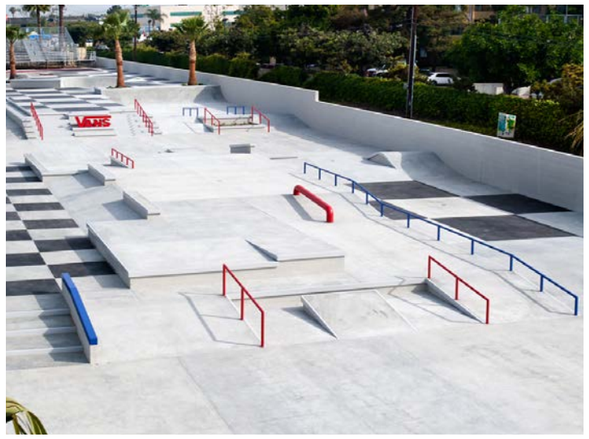
In the center of the skate path is a flat rail, flat ledge, up/down ledge, thin ledge with rolled top and a long ledge connected to the center island. This section leads to a cantilevered quarter pipe for turning around and performing low-level transition tricks. At the top center of the skate path is a brick paved hip connecting the path to the grassed area and allowing for 'hip tricks' from both directions, adding to the diversity of street terrain on offer.

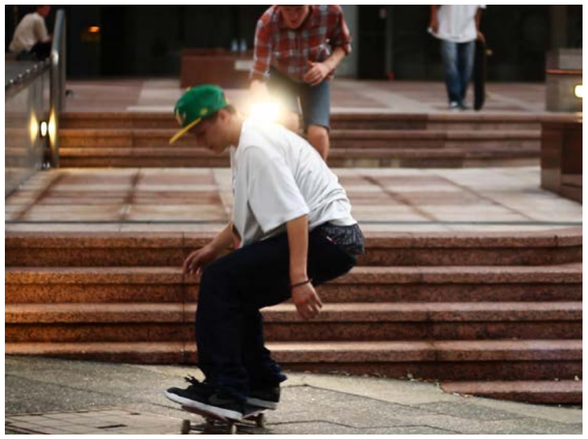
SKATE PLAZA / SKATE PATH PRECEDENT IMAGERY


ADVANCED STAIR SET / RAIL / DOWN LEDGES


INTERMEDIATE STAIR SET / RAIL / DOWN LEDGES


PLAZA PLATFORM TO SKATE PATH INTERFACE


CENTER ISLAND EXAMPLE


THREE STAIR FLAT FOUR STAIR


WHEEL VVCHAIR RAMP WITH DOWN RAILS


SKATE PATH AREA WITH LEDGES AND FLAT RAIL


SLAPPY BANK WITH RAIL FLAT RAIL


SKATE PATH UP-DOWN LEDGE, FLAT LEDGES


SKATE PATH LEDGES, UP RAIL

4.0 CONCEPT PROGRESSION STAGE TWO

4.3 COMPETITION FLOW BOWL / JUNIOR BOWL

Option one responds to the community consultation data by providing the frequently requested competition level flow bowl with an accompanying junior bowl.

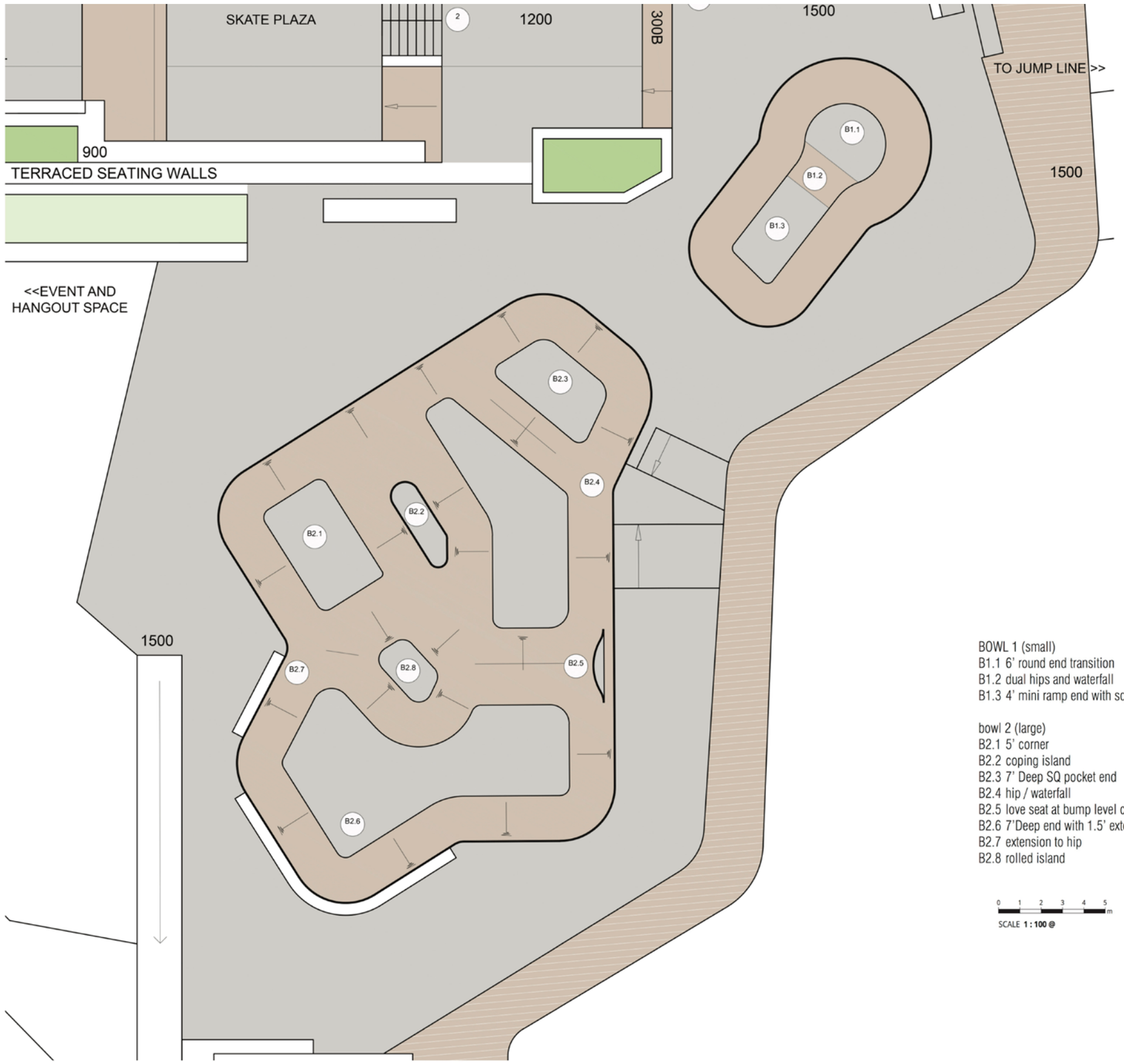
Whilst only indicative at this level of concept, the flow bowl is inspired by the terrain skated in the international Vans Park Series competitions. This approach will provide Western Australian skateboarders and BMX riders with a training ground for international competitions including the X-Games, Vans Park Series and the Olympics. It will also ensure McCallum Park Active Area has the capacity to host international competitions and demonstrations.

As evident in this comment taken from the community consultation: 'A flow bowl because it can accommodate for all. For example, you can include extensions, start at 5ft, have a 7ft section [and] then a 10ft section for the real gnarly riders', this style of combination bowl can provide sections that will accommodate both intermediate and advanced riders, creating opportunity for continuous progression in skills development.

In further responding to the community consultation, a flow bowl provides capacity to include a combination of the most frequently requested features asked for in the bowl design. This includes hips, pool coping, roll-ins, elevators, waterfalls and a love seat.

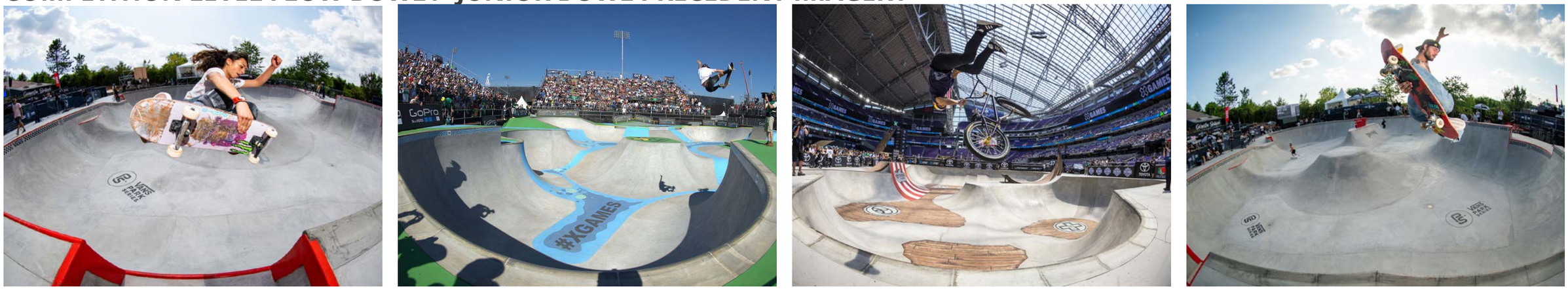
In addition to the flow bowl, many survey participants also requested a junior bowl. This design has provided a small bowl consisting of a 4-ft mini ramp with squared corners, dual hips and a waterfall leading into a 6-foot section with rounded transition.

The junior bowl will be ideal for skills development workshops, warming up before skating the bigger bowl and provide an alternative option when the flow bowl is over-crowded.



4.0 CONCEPT PROGRESSION STAGE TWO

COMPETITION LEVEL FLOW BOWL / JUNIOR BOWL PRECEDENT IMAGERY



COMPETITION LEVEL FLOW BOWL EXAMPLES

JUNIOR BOWL EXAMPLES

4.0 CONCEPT PROGRESSION STAGE TWO

4.4 RETAIN CURRENT BOWL / JUNIOR FLOW BOWL

Option two explores the layout possibilities if the future facility retains the current bowl. After much experimentation the design team concluded that if the requested competition flow bowl is to co-exist with the pre-existing bowl, it will be significantly compromised in both size and height.

The junior flow bowl will have capacity to be longer than the junior bowl in option one, however because of site constrains and spacial arrangements it will be significantly smaller and shallower than the previously proposed flow bowl.

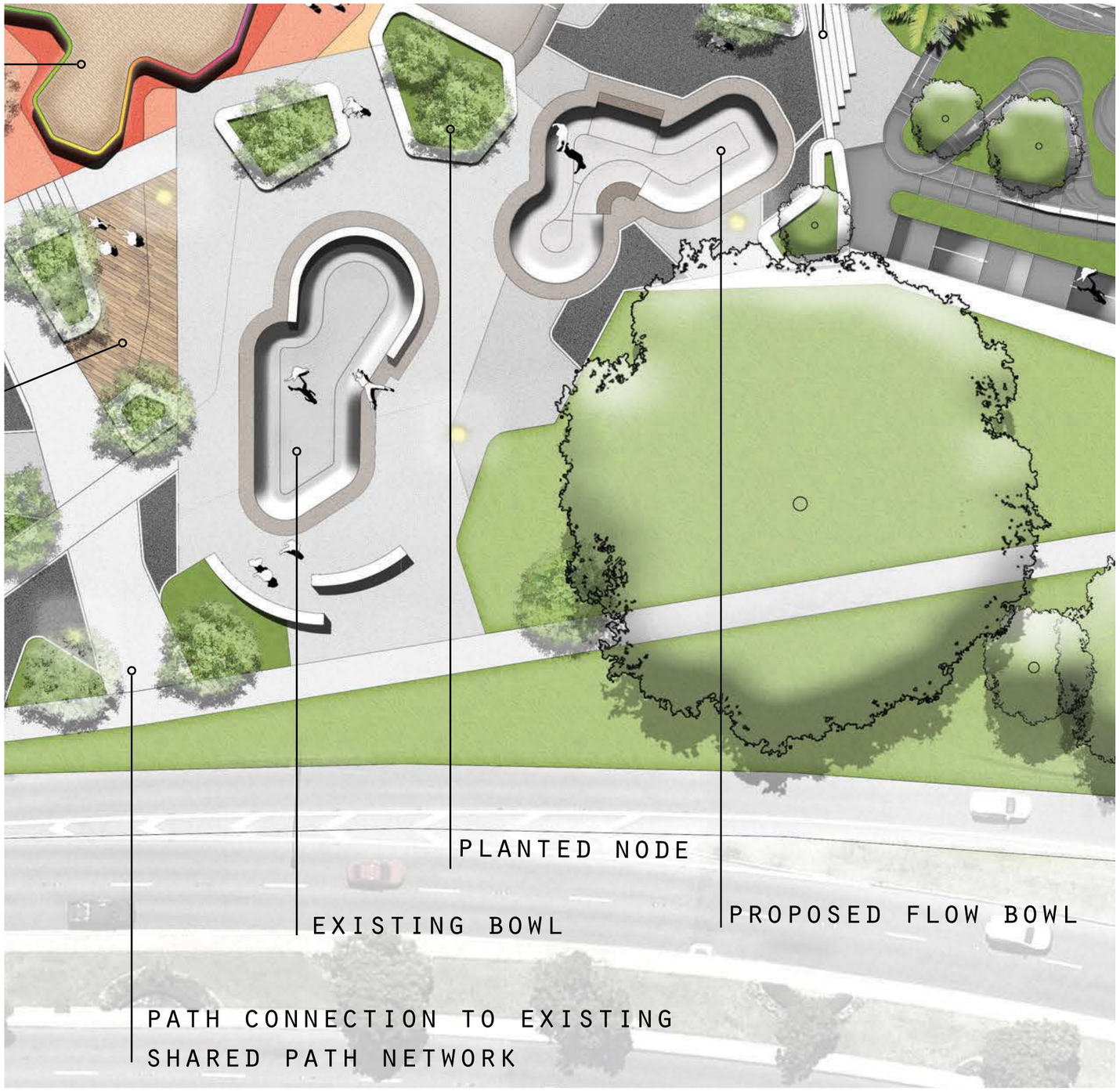
Pros in keeping the old bowl include:

- Retaining history of site and allowing established user groups to continue using the bowl as is.
- There will be a slight saving on demolition, however that is negated once new fill is factored in for building up levels at a different area of the site.

Negatives in keeping the old bowl include:

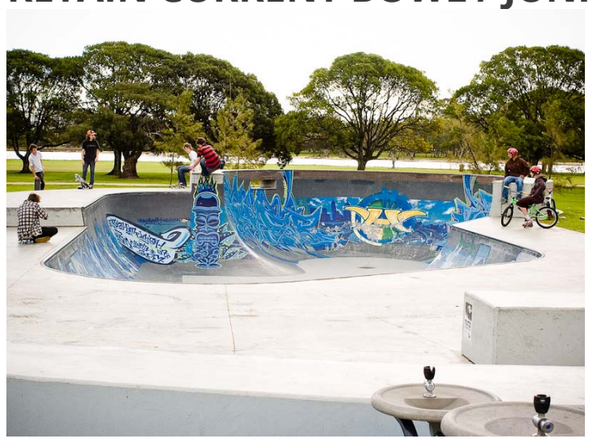
- It puts constraints on what is possible for a new flow bowl, as new levels to reach heights of 10ft will need to tie into existing levels. It also reduces the available space on site, especially when factoring in other requirements for competition level spaces including spectator areas and bowl / plaza size requirements.
- The old bowl has endured several graffiti removal procedures and will only have a limited life left by the time the new park is in the ground. As a result, there will come a time in the future where demolition and additional construction will hold up the new park. It is most efficient to do all the works at once to create an ideal overall space.
- The lines in the old bowl don't allow for peak performance which has been stated by some of WA's best and most experienced bowl riders. This means an outdated bowl that does not perform to peak performance will reduce the overall functionality and visual appeal of the future facility.

In acknowledging the history of the 'Vic Park Bowl', the design team can take the popular features and characteristics of the old bowl and incorporate replica components into the new flow bowl. This could include designing a whole portion of the new bowl as a 'tribute' section to the old bowl, giving the culturally significant Vic Park Bowl the respect it deserves.



4.0 CONCEPT PROGRESSION STAGE TWO

RETAIN CURRENT BOWL / JUNIOR FLOW BOWL PRECEDENT IMAGERY

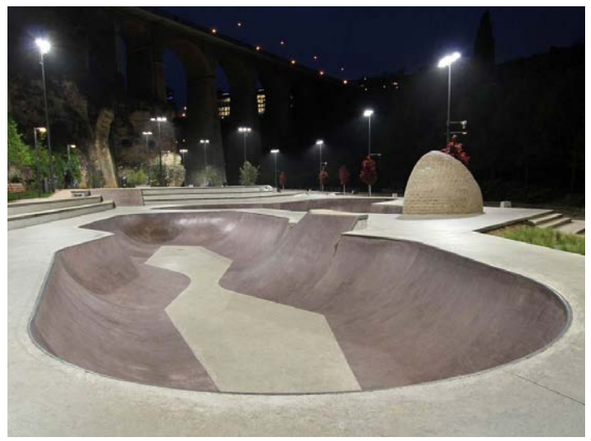



VICTORIA PARK BOWL IMAGES









JUNIOR FLOW BOWL EXAMPLES

4.0 CONCEPT PROGRESSION STAGE TWO

4.5 PUMP TRACK / JUMP LINE

In response to the question “If you could describe your dream BMX/cycle facility for this space, what would it be?”, many survey participants requested the facility be constructed from a material that will accommodate BMX, skaters and scooter riders, as opposed to the dirt jumps found throughout the West Australian suburbs which only accommodate BMX riders and require ongoing maintenance.

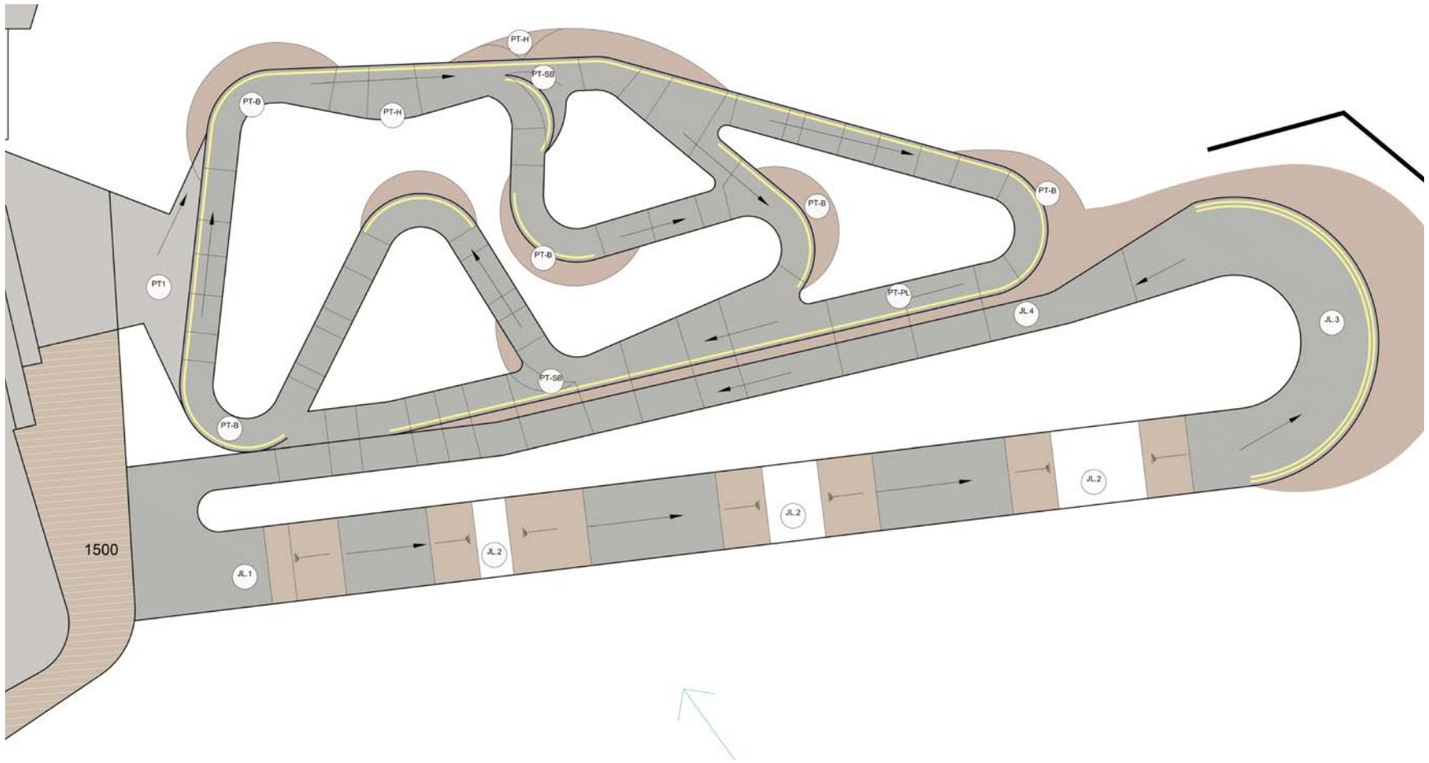
Community feedback demonstrated a clear demand to see both a pump track that is usable by people of all skill levels, and a jump line for the more advanced riders to perform challenging aerial manoeuvres. In response to this request the concept design features a multi-faceted pump track and a triple box jump line. There was not a strong enough demand to include a mountain bike skills course which can be attributed to its limited user group appeal and contrasting characteristics to the rest of the skate and BMX terrain.

The design team recommend the pump track be made from concrete which was also the most frequently requested surface material in the community consultation. This option will additionally result in the longest surface life. In the event of a rider being dismounted, it will also create a smoother fall than most other surface materials listed in the survey. With an elevated platform as the start/end point of the circuit, the track is intended to be ridden in a clockwise direction and features an assortment of berms, rolls, bumps, hips and path splits.

The concept design also proposes that that the jump line be constructed from concrete which will maximum its life span and mitigate ongoing maintenance requirements. Riders will commence lines from the starting platform where they will ride down a sloping bank to gain speed for the three sequential concrete table tops (jumps). This will allow a sequence of three manoeuvres to be performed, putting the rider’s skills and consistency to the test.

In a competition setting, riders will be scored on the difficulty and variety of the three tricks they perform as well as the speed and style in which they execute the manoeuvres. After performing the three-trick line, riders will turn around on the bern in an anti-clockwise direction which will absorb their speed, sending them back to the starting platform. The jumps are placed in a straight line to ensure there are no collisions, as riders will be travelling at fast speeds.

This section of the McCallum Park Active Area will be a big draw card for spectators and is likely to be showcased on social media platforms on a regular basis.



4.0 CONCEPT PROGRESSION STAGE TWO

PUMP TRACK / JUMP LINE PRECEDENT IMAGERY

PUMP TRACK EXAMPLES

JUMP LINE EXAMPLES

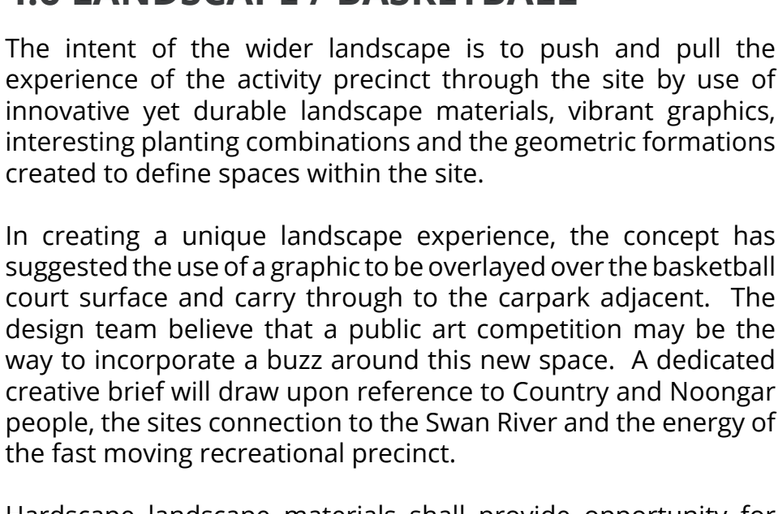
4.0 CONCEPT PROGRESSION STAGE TWO

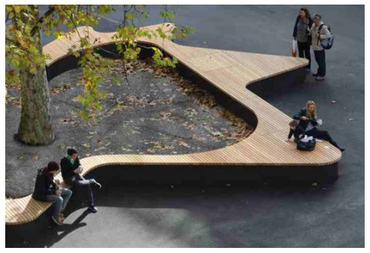
4.6 LANDSCAPE / BASKETBALL

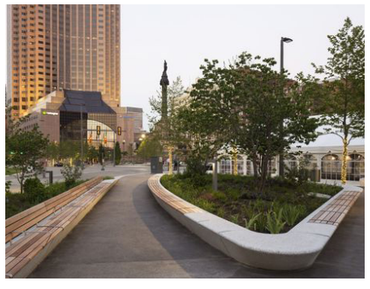
The intent of the wider landscape is to push and pull the experience of the activity precinct through the site by use of innovative yet durable landscape materials, vibrant graphics, interesting planting combinations and the geometric formations created to define spaces within the site.

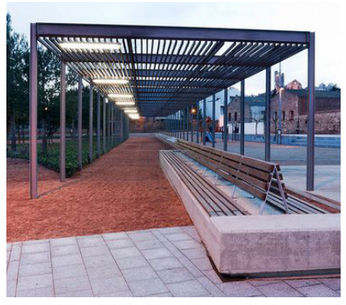
In creating a unique landscape experience, the concept has suggested the use of a graphic to be overlayed over the basketball court surface and carry through to the carpark adjacent. The design team believe that a public art competition may be the way to incorporate a buzz around this new space. A dedicated creative brief will draw upon reference to Country and Noongar people, the sites connection to the Swan River and the energy of the fast moving recreational precinct.

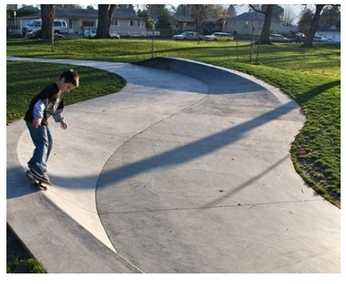
Hardscape landscape materials shall provide opportunity for creative expression on the ground plane, but also aim to provide climatic relief in the use of timber, timber composites, open lawn areas, raised and natural ground level planters in balance with trafficable concrete pathways and plaza precincts. Functional elements such as seating, shelter, water bubblers, and bins shall be selected so as to inform a cohesive design palette, whilst elements such as lighting, bike repair stations and amenities shall provide pragmatic sensibilities to the overall precinct.











4.0 CONCEPT PROGRESSION STAGE TWO

LANDSCAPE MATERIAL PALETTE


SIMPLE STYLISTIC SHADE STRUCTURES


TERRACED TURF AREAS FOR VSPECTATOR


SKATE-ABLE PATHS


INTEGRATED LANDSCAPE PLANTERS


INTEGRATED LANDSCAPE / PLAY ELEMENTS


QUIETER CONTEMPLATIVE NODES


ROBUST FORMED CONCRETE WALLS


INNOVATIVE LANDSCAPE & LIGHTING RESPONSE


ANCILLARY RECREATION EQUIPMENT


TIERED SPECTATOR AREAS


ARTISTIC & FUNCTIONAL LIGHTING


INTEGRATED LANDSCAPE / PLAY ELEMENTS

4.0 CONCEPT PROGRESSION STAGE TWO

4.7 PRELIMINARY COMPLEMENTARY LANDSCAPE OFF THE SHELF PRODUCTS

LEDA Bike Repair Station

PRODUCT SUPPLIER|	LEDA
PRODUCT CODE|	BBRS01
PRODUCT FINISH |	Hot dipped galvanised
PRODUCT COLOUR |	Stainless Steel

Note: As per Design Brief Specification & Town of Victoria Park approval guidelines.

Bike Leaning Rail

PRODUCT SUPPLIER|	Commercial Systems Australia
PRODUCT CODE|	BR7010
MATERIALS |	Frame: 316 Stainless Steel
PRODUCT FINISH |	Satin Polished
FIXINGS |	Bolt down fixing | Extended leg

Note: As per Design Brief Specification & Town of Victoria Park approval guidelines.

Alfresco Bin Enclosure 120L

PRODUCT SUPPLIER|	Commercial Systems Australia
PRODUCT CODE|	LR6554
MATERIALS |	Frame/door/back: Mild steel only Lid: 304 Stainless Steel #4 Finish Battens: Australian hardwood timber
PRODUCT FINISH |	Frame/door/back: Powdercoated Timber Battens: Quantum oil
FIXINGS |	Bolt down fixing | Extended leg

Note: As per Design Brief Specification & Town of Victoria Park approval guidelines.

Uurania Bollard

PRODUCT SUPPLIER|	Commercial Systems Australia
PRODUCT CODE|	SB2101
DIMENSIONS |	Width: 150mm | Depth: 100mm | Height: 1000mm
PRODUCT MATERIAL |	Mild steel | 304 Stainless Steel | 316 Stainless Steel Battens: Australian Hardwood Timber (Class 1) | Enviroslat Battens
PRODUCT FINISH |	Powdercoated | Galvanised | Satin polished
FIXINGS |	Removable In-Ground Sleeve

Note: Any standard Dulux colour available for powdercoated frames.

Lisboa Drinking Fountain

PRODUCT SUPPLIER|	Commercial Systems Australia
PRODUCT CODE|	DF5200
DIMENSIONS |	Width: 890mm | Depth: 300mm | Height: 960mm
PRODUCT MATERIAL |	Mild Steel and Stainless Steel | Full Stainless Steel
PRODUCT FINISH |	Body: Powdercoated Mild Steel |Full 304 Stainless Steel
OTHER OPTIONS |	Includes side water bottle refill outlet.

Note: As per Design Brief Specification & Town of Victoria Park approval guidelines.

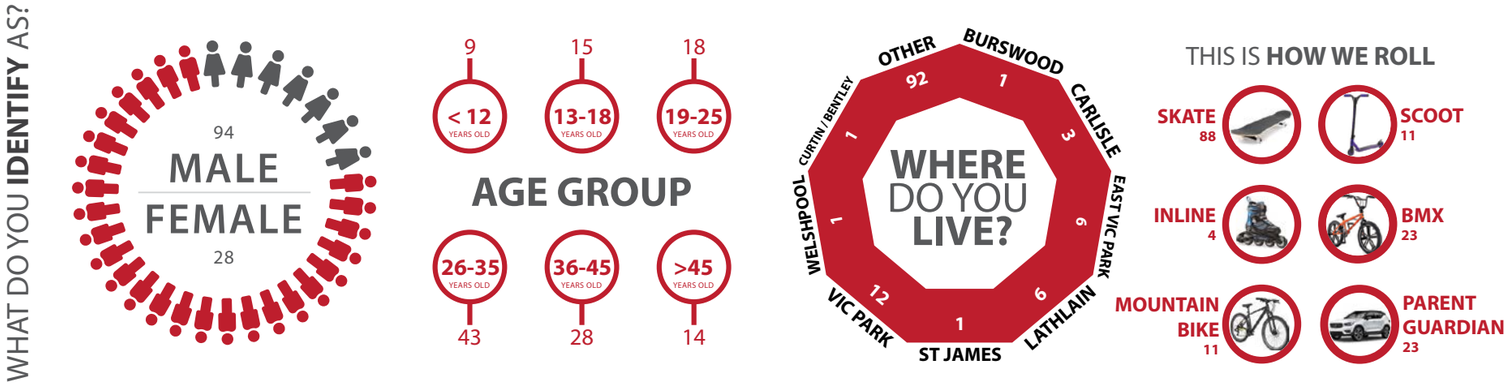
5.0 COMMUNITY DESIGN WORKSHOP STAGE TWO

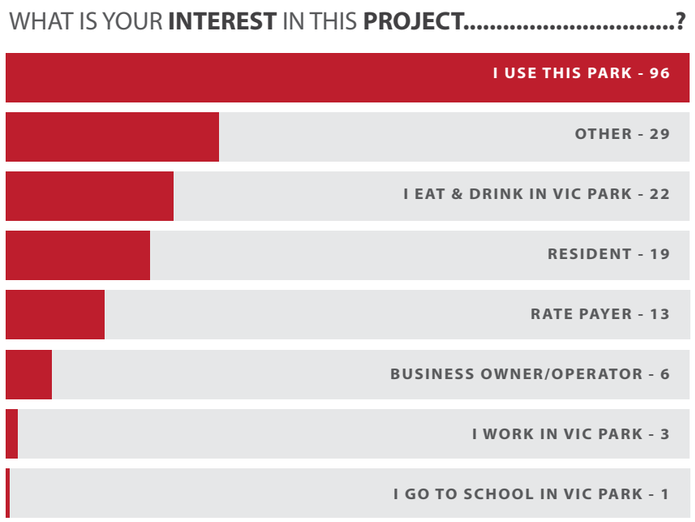
5.1 DRAFT CONCEPT CONSULTATION | SUMMARY

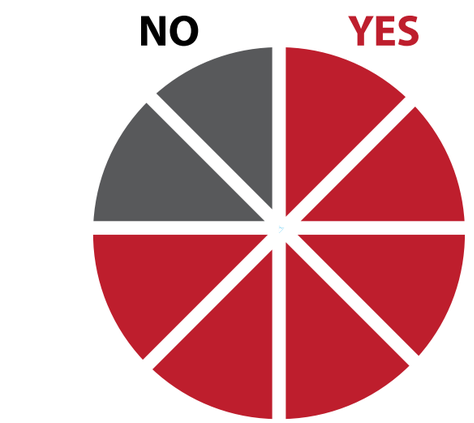
Once the first draft concept designs were complete, it was imperative to seek further community feedback to ensure the designs sufficiently addressed the data collected during the first stage community consultation.

With the stage one event aimed at the skate and BMX community, stage two aimed to engage the greater Town of Victoria Park community by hosting an event at the Town of Victoria Park Christmas Markets, held at John Macmillan Park in December 2019.

The following day the stage two online survey was launched via the 'Your Thoughts' platform. In total, 123 people participated in the survey resulting in the following outcomes;







5.0 COMMUNITY DESIGN WORKSHOP STAGE TWO

5.1 DRAFT CONCEPT CONSULTATION | SUMMARY

Survey participants were given the opportunity to write responses to express their thoughts on the proposed precinct concept designs, including reviews of the four key recreation areas and overall impressions of the concept designs. key responses include;

Bowl Responses;

"I love the idea of the park having one of the only flow vans park series styled parks in Australia. It was well over due"

"Bowl/flow area looks amazing and heaps of variety".

"The new flow bowl design looks nice and very 'Vans park series'-esque, which is also the way the Olympic parks will be"

Skate Plaza Responses;

"Amazing layout of obstacles, the layout covers everything for beginners to intermediate skateboarders, you can tell the design inspiration has been taken from world class plazas"

"Loving the openness and simplicity of the street skating area"

"The street plaza adheres well to street-inspired urban form"

"This plaza will assist the next generation of skateboarders to potentially build careers in the sport, it will help the economy / local skateboard industry"

Pump Track / Jump Line Responses;

"Very important to have an area specific for parents / people who wish to relax or supervise from affair, this will also be a great addition for events at the plaza, competitions / demonstrations or even skate clinics for a good place to watch"

Have we got it right? What would you change /add to the Concept Design?

"Not keen on a lot of wooden seating, maintenance issues"

"More open space, plaza, curbs, manual pads, seperate mini ramp and shade structures over the park. A real mini ramp under 3ft"

Closing Thoughts;

"This design will bring enormous activation of a relatively dormant space, which will bring with it great benefits socially and economically for the Town of Vic Park and the wider Perth region"

"PLease move forward with this as it will be a huge benefit to the local community and the entire larger community all around WA.

"Looks good! Might get me out of the house exercising again"

"If implemented, this would easily be the best set of skate/BMX/scooter facilities in Perth"

5.0 COMMUNITY DESIGN WORKSHOP STAGE TWO

5.1 DRAFT CONCEPT CONSULTATION | SUMMARY

Categorised under the four key recreation areas, the summarised commuinty feedback of the first draft concept plans for the McCallum Park Activity Area Precinct are as follows;

Bowl
There was a clear consensus that the old bowl should be removed to make way for a new and improved flow bowl, however due to its significance in WA skateboarding, several established skaters asked that the new design pay homage to the old Vic Park bowl. Suggestions to achieve this included using a similar pool coping detailing and replicating the current bowls 'death box' within the new design.

Many people positively noted the flow bows similar characteristics to the Vans Park Series bowls and were excited by the opportunities this will bring to West Australia. Emphasis was placed on ensuring the bowl offers a variety of depths from 5ft to 10ft so it appeals to a large cross sector of transition riders. Request were also placed on insuring the inclusion of a central feature for performing aerial maneuvers.

Skate Plaza
There was much excitement about the skate plaza with many people noting it will become the largest, most competition and demonstration worthy street style facility in WA. Some comments requested the inclusion of larger objects to further challenge advanced skaters / riders. There were also several mentions of further replicating iconic street spots and being more creative with textures and materials to increase the street appeal of the facility.

There were several requests for more variety in the objects on offer throughout the skate path area including more curbs, flat rails, ledges and a manuel pad. There was a mix of opinions regarding the inclusion of landscaping throughout the skate plaza with some survey participants making mention that it gave the park a more integrated feel and would provide more shade. Others believed the landscaping should be removed to make way for more skateable areas.

Several comments requested the provision of shade at either end of the street plaza for people resting or waiting for their turn to drop in.

Pump Track / Lump Linevkkkk
Many participants made note of ensuring the surface material of the pump track will accommodate all styles of riding, requesting it be built from concrete. Some requested that the pump track take on more of a snake run formation to create a more diverse riding experience. Emphasis was placed on providing sufficient space between the pump track and jump line to ensure there are no collisions between the different users.

With the pump track catering to beginner / intermediate riders, the advanced riders were insistent on ensuring the jump line will be challenging by international standards.

Non-Skate Recreation and Landscape
Although there was mention of including non-skate / BMX recreation activities during the initial community consultation (such as parkour, bouldering walls and obstacle courses), spacial constraints limited possibilities to include these elements in the first draft concept designs. Interestingly there was very little feedback that expressed any disappointment about the lack of these elements. With the basketball courts being revitilised and priority placed on ensuring the bowl, plaza and pump/jump line attractions were maximized to the full potential of the space, it can be concluded that participants approved on this approach.
Much emphasis was placed on ensuring significant shade was provided throughout the facility and an overwhelming amount of people were adamant in requesting lighting. There were some concerns with the idea of using wood materials for the seating due to damage and maintenance issues. There were also several mentions of ensuring wood chips or mulch were not used throughout the landscaping as they can easily be blown into the skate areas and create hazards.
Many people mentioned the importance of having space for pop-up cafes and food trucks to activate the area. Requests for street art and sculptures were placed to ensure the precinct has a unique and creative atmosphere.

Summary
The overall feedback was extremely positive with much discussion on the social, physical and economic benefits this precinct will bring to Victoria Park and the greater Western Australia. Many participants highlighted their satisfaction in the designs potential to host international competitions and demonstrations whilst still accommodating beginner to intermediate users.

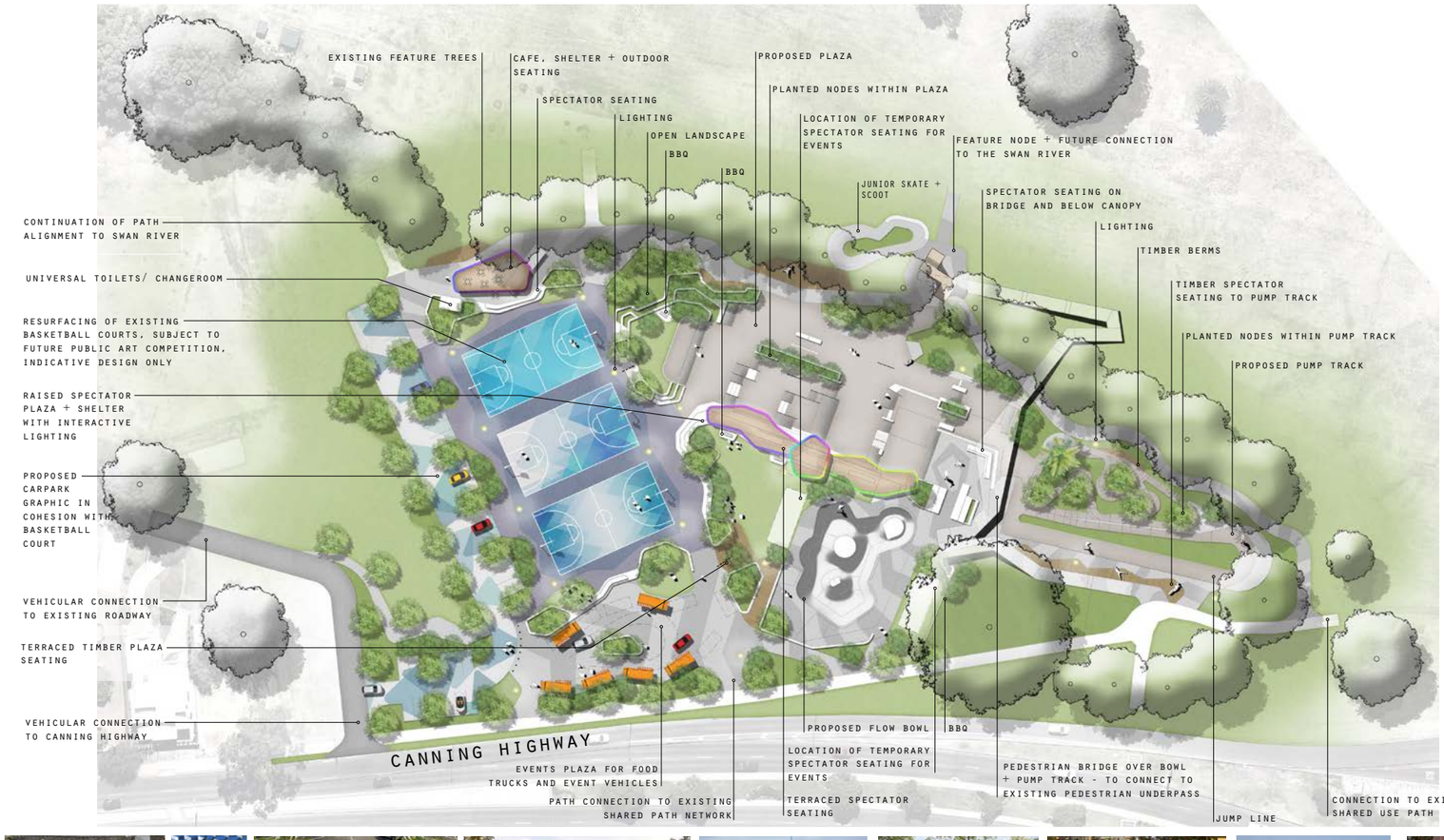
There was no shortage of participants commenting that if implemented based on these proposed plans, this will become the premier activity precinct in Western Australia.

6.0 CONCEPT PROGRESSION STAGE THREE

6.1 McCALLUM PARK ACTIVE AREA CONCEPT DESIGN (MASTERPLAN)

January through to March 2020 saw the review of design geometry within the concept plan, to increase multi-functionality of precinct zones and traversability across the ground plane for active recreation, pedestrian and vehicular maintenance.

Further to the wider geometry and flow between precincts, the consultant team reviewed the features of the active zones, with detailed analysis of the function of the spaces – with specific attention to the value created within the bowl, plaza and pump track / jump line areas, to maximise the experience for the users and spectators.



Skate Sculpture

WE'RE OPEN VIC PARK

McCALLUM PARK

SKATE CONCEPT - REMOVING THE BOWL

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6.0 CONCEPT PROGRESSION STAGE THREE

6.2 SKATE PLAZA

In response to community feedback, additional lower-level objects have been included into the elongated area of the skate plaza including a pier 7 manual pad, flat bar, turnaround bank, quarter-pipe and halfpipe. These items will complement the other obstacles to increase the appeal of the skate plaza for beginner/intermediate users, providing a casual 'street-inspired' riding experience.

The advanced section of the skate plaza has seen the addition of a larger euro gap to the one featured in the first concept. This change will improve lines and offer a more challenging component to the street terrain. Due to spatial constraints, the 8 stair now has two handrails with a central down ledge, as opposed to the original concept which featured two down ledges with a central rail. In the central island two of the rails have been replaced with ledges to balance the ratio between rails and ledges.

With mixed responses regarding the inclusion of garden areas and trees within the skate plaza, the design team opted to keep these landscaping elements within the design. This will provide more greenery into a large concrete space, increasing the integrated feel of the skate plaza.

The remainder of the concept has had minimal deviations from the original design, showcasing a vision for one of WA's largest skate plazas, capable of hosting skills development workshops for beginners, right through to international competitions and demonstrations for professionals.

6.3 COMPETITION FLOW BOWL

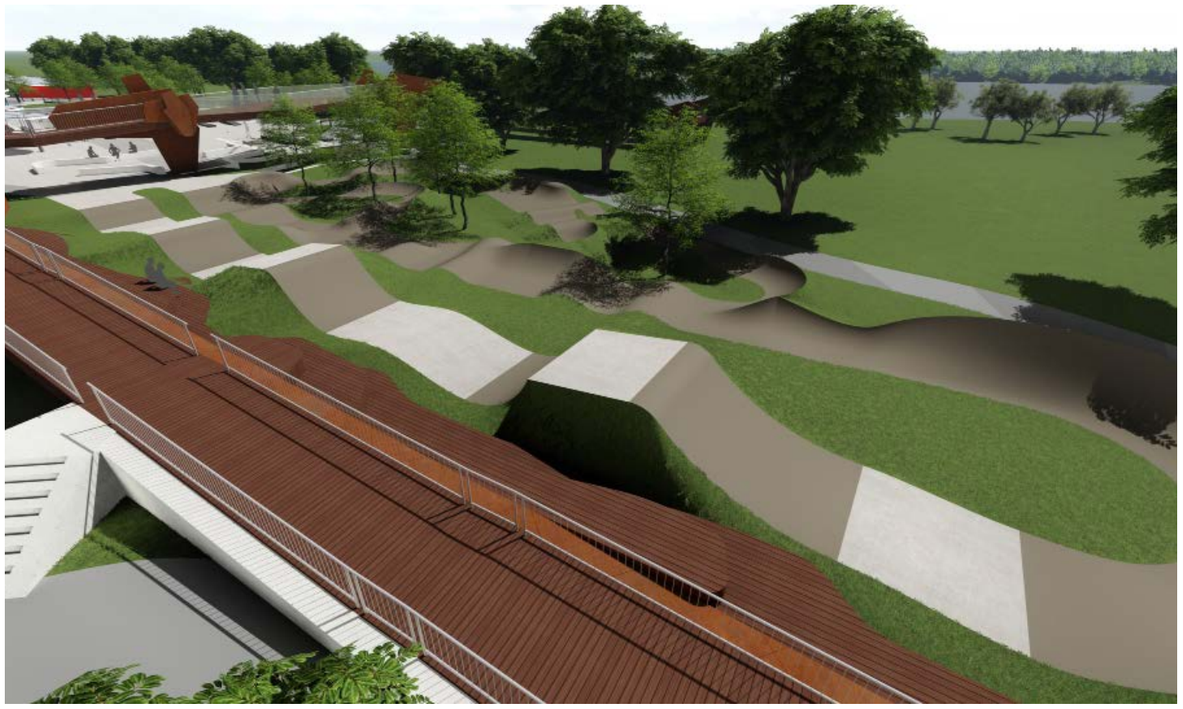
The competition flow bowl is inspired by the frequently requested Vans Park Series style of bowl which proved popular throughout both stages of community engagement. The design incorporates a variety of features including extensions, pockets, hips, waterfalls and a central island for aerial manoeuvres. To cater to intermediate to advanced riders, the bowl has varying heights from 5 to 10 foot.

Draft versions of this bowl design included a circular pocket with pool coping and a 'death box' to pay homage to the pre-existing McCallum Park Bowl. External consultants including sponsored bowl riders expressed concern that this area was detrimental to the overall functionality of the bowl. For that reason, the revised design prioritises functionality over sentimentality.

With the addition of the footbridge and need for congregational space, there was not enough room to accommodate a junior bowl. As an alternative, a mini ramp section has been included within the skate plaza section which was a frequently requested element throughout the second stage consultation.

6.0 CONCEPT PROGRESSION STAGE THREE

6.4 PUMP TRACK / JUMP LINE



The pump track has been designed to appeal to beginner to intermediate users of all ages with a mix of low-level berms and rollers. This will be a family fun zone where participants will engage their upper and lower body strength to pump for speed and burn calories in the process.

Designed in collaboration with several established West Australian BMX riders, the jump line details are specified to ideal dimensions and spacings for peak performance for the advanced rider. At the request of the BMX design consultants, there is now a roller between the second and third jump to control speed. As it is proposed to be built with concrete, the jump line will also appeal to the scooter and skateboarding community.

6.5 LANDSCAPE / BASKETBALL

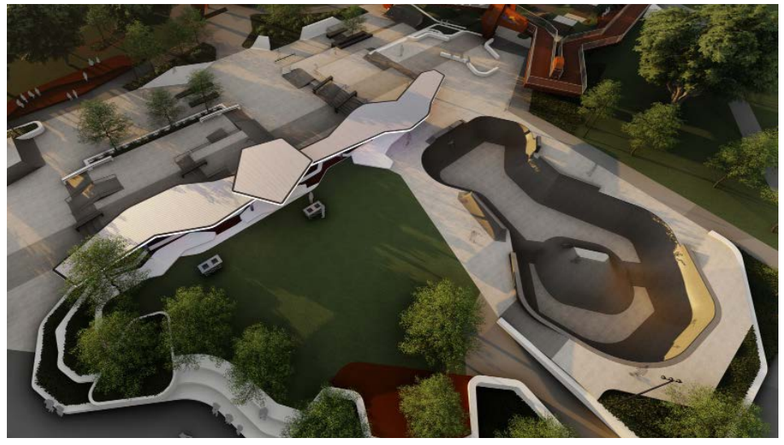
The modification of geometry allowed for a more relaxed transition between the basketball courts and spectator seating areas, as well as the opportunity to bleed the proposed artistic graphic across the court surface and into the wider passive space network. By doing this, the movement and experience felt through this precinct will allow pedestrians otherwise not involved in the active recreation on the courts to slow down, pause for a while and spectate.

This review period also addressed the need to modify the café / amenity seating so as there was opportunity for café patrons to be separate to spectators, or open the wider area up to cater for larger groups and events. This process was also applied to the end of the skate plaza with the addition of BBQ's for informal gatherings, BYO food preparation and picnic break out spaces to cater for those patrons to the park – either in active or passive recreation opportunities.

Also reviewed during this time was the location of the pedestrian access bridge over the precinct. Development was made within the form and geometry of the bridge, potentials for overhead viewing / spectator locations, dually functioning as a mass shade area for active recreation participants between the bowl, plaza and pump track. Through this phase, the team were able to model the bridge to and overlay over the precinct so as to understand the mass, size and shade opportunities it would create. It was also reviewed in terms of height clearances to the adjacent active areas, ensuring that adequate void heights were met. This continued as a fluid design process, and was further enhanced through modelling of the shelter structures, showing potentials for night lighting and user access opportunities to maintain precinct uses after sundown.

7.0 COMMUNITY DESIGN WORKSHOP STAGE THREE

7.1 DRAFT CONCEPT CONSULTATION | SUMMARY



Collation and review of the commentary was overwhelmingly supporting and positive to the creation, renewal and advancement of the recreational features within McCallum Park. It was clear from the feedback that the active recreation community were excited by the value this concept created through its form, function and multi-traversable path networks.

Commentary that specifically related to the landscape value of the precinct was to consider additional all weather shelter to the flow, plaza and basketball areas for spectator purposes, and to decrease the hard stand area within the events plaza.

The team intently reviewed this feedback and have thus created opportunities for additional shelter, be that all weather and additional shade trees. The team also reduced the amount of hardstand area within the events plaza with the incorporation of additional garden beds and shade trees.

Whilst not within the controls of the landscape scope of works, there was community commentary made that questioned the extension of Garland Street and connection to Canning Highway, the amount of car parking proposed, and the through traffic / loitering this may create. The consultant team at this point in time advise the Town of Victoria Park to consider this and provide direction for future detail and development of this area of the site.

Of the few comments that expressed concerns related to the skate, scooter and BMX areas, most were controdictionary to the initial community consultation results or were not possible to implement based on spatial constraints. This included:

Requests to have the entire area flow instead of being divided into three key areas.
Wanting the skate plaza to be larger.
Increasing the size of the mini ramp.
Including a roll in section on the competition flow bowl.
Building the pump track out of dirt.

As a result of the multiple development stages, the bowl, plaza and pump/jump line were met with manyv positive comments including:

“I love this in every way! You guys have knocked it out the PARK with this one. Don’t mind the pun. I wish I could be a kid all over again. I can’t. So I’m going to have kids so they can use this park for years to come. Well done Vic park and everyone involved with this design”

“This is a great opportunity for WA to showcase what it can achieve to the world and attract international skate company teams and events to our shores!”

“This facility would be a valuable community asset in Town of Victoria Park and will create increased growth and opportunity for local business, tourism, real estate etc”

“ I think that the draft is excellent. The development of McCallum Park should have considerable benefit for the local community. It is refreshing to see various opportunities for people to get exercise in the open air, with tremendous advantages for their health and well-being”

“This plan will make the park WA’s premier skate location, congrats on an awesome layout. Hopefully it will go ahead without too many changes”

“Gives people around the area lots of great opportunities to get out and be active! Also a skate park like this would give people around Perth the chance to develop to world-class skateboarding levels and bring people from around the state or further to skate it”

8.0 FINAL CONCEPT DESIGN

8.1 McCALLUM PARK ACTIVE AREA FINAL CONCEPT DESIGN (MASTERPLAN)

Upon review of community feedback collected within the public advertising period, additional shade and cooling elements have been incorporated into the overall landscape design, inclusive of shade trees, shelters and garden beds. These have been placed in key locations to provide additional shade opportunities for basketball spectators / players, reduce the open hardstand area within the food truck / plaza precinct by incorporating an additional garden bed and shade trees and key bespoke shelters to the end of the skate plaza and bowl. Furthermore, additional shade trees have been located to the pump track and plaza active areas.

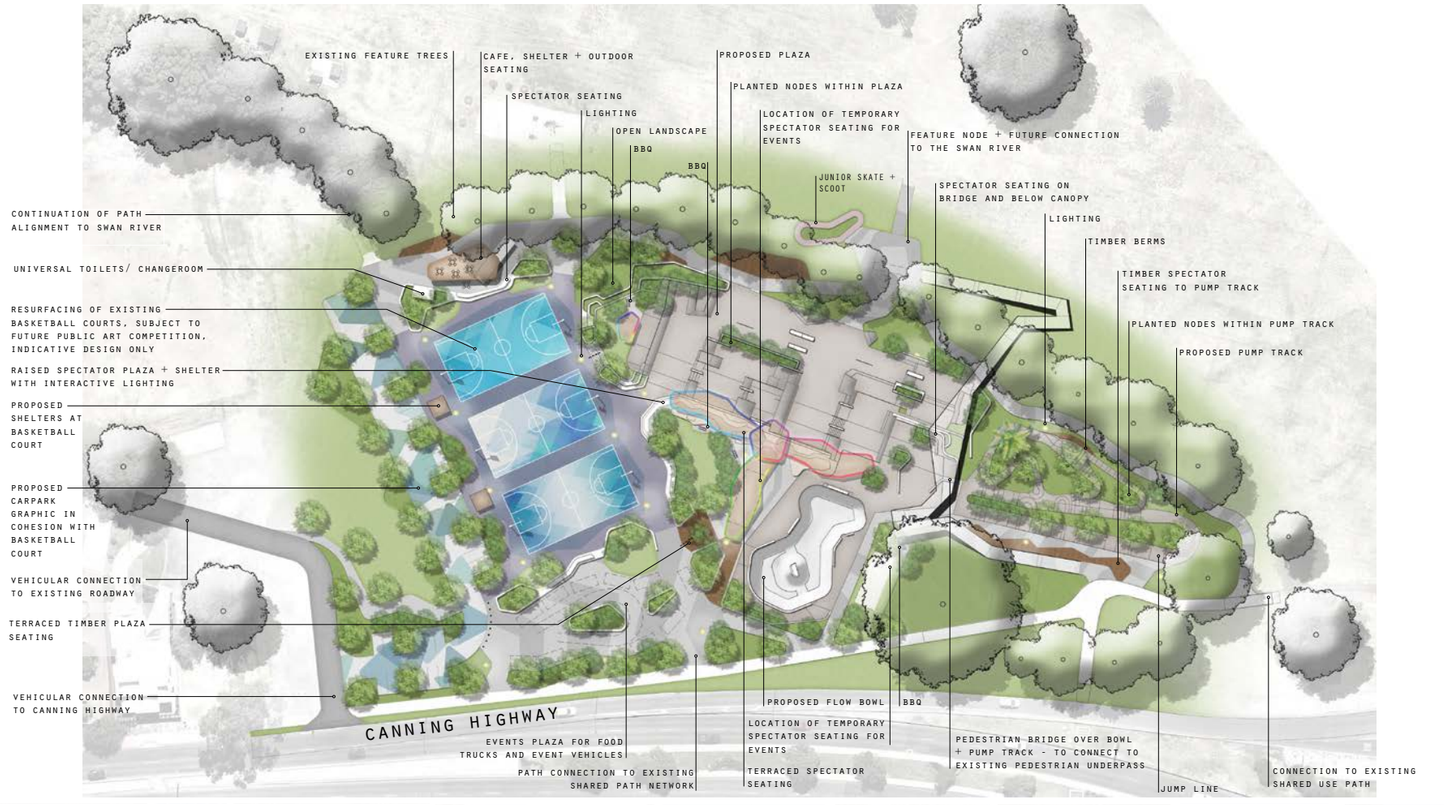
Within the concept design modification phase of January-April 2020, the landscape amenity surrounding the basketball court was revised in order to soften the visual transition between the courts, plaza and skate precincts. Through this process, additional seating was included, softer pedestrian access lines were created and additional soft planting opportunities and shade trees were implemented. Connectivity between the courts and proposed café / amenity precinct was also revised to provide separation between café patrons and basketball spectator seating.

Through the previous stages of design development and public critique, the skate plaza and pump track/ jump line did not require any additions or amendments to the obstacles in these areas. During the final stage of design development, the heights, angles and spacings between all objects were closely refined for optimal usability. The competition flow bowl went through another design review with a team of external consultants, resulting in finely calculated amendments to the angles, radiuses, blends and interfacing features to ensure the bowl would meet community expectations through its ability to host international competitions and demonstrations.

As an overall summary of the final developed concept plan for the precinct, the value of the amenity, connectivity and connection to the wider parkland has been justly considered, and therefore the value of this renewed precinct will bring a new and vibrant experience to the community and visitors of McCallum Park and the wider Victoria Park surrounds.

The final proposed design will provide for both active recreation and passive pedestrian engagement both from within the project site and connection to the future playground and Swan River beach access.

Selection of the final botanical species, landscape materiality, furniture suites, colour palettes and artist briefing (separate scope of works) shall be discussed and presented to the Town of Victoria Park through the Detail Design phase of the project.



Skate Sculpture

WE'RE OPEN VIC PARK

McCALLUM PARK
ACTIVE AREA FINAL CONCEPT MASTERPLAN

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8.0 FINAL CONCEPT DESIGN

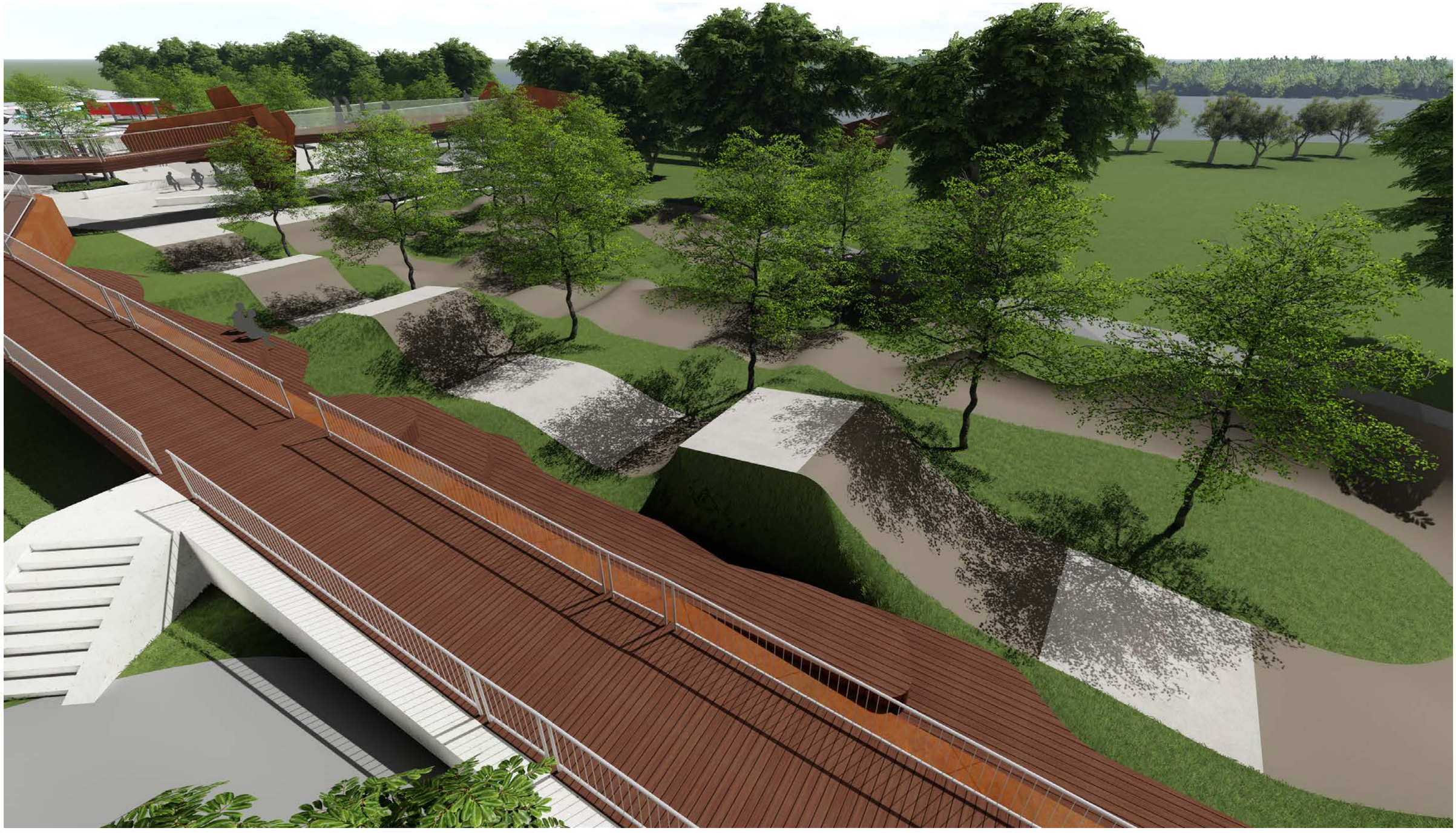
8.2 FINAL SKATE PLAZA VISUALISATIONS

8.0 FINAL CONCEPT DESIGN

8.3 FINAL COMPETITION FLOW BOWL VISUALISATIONS

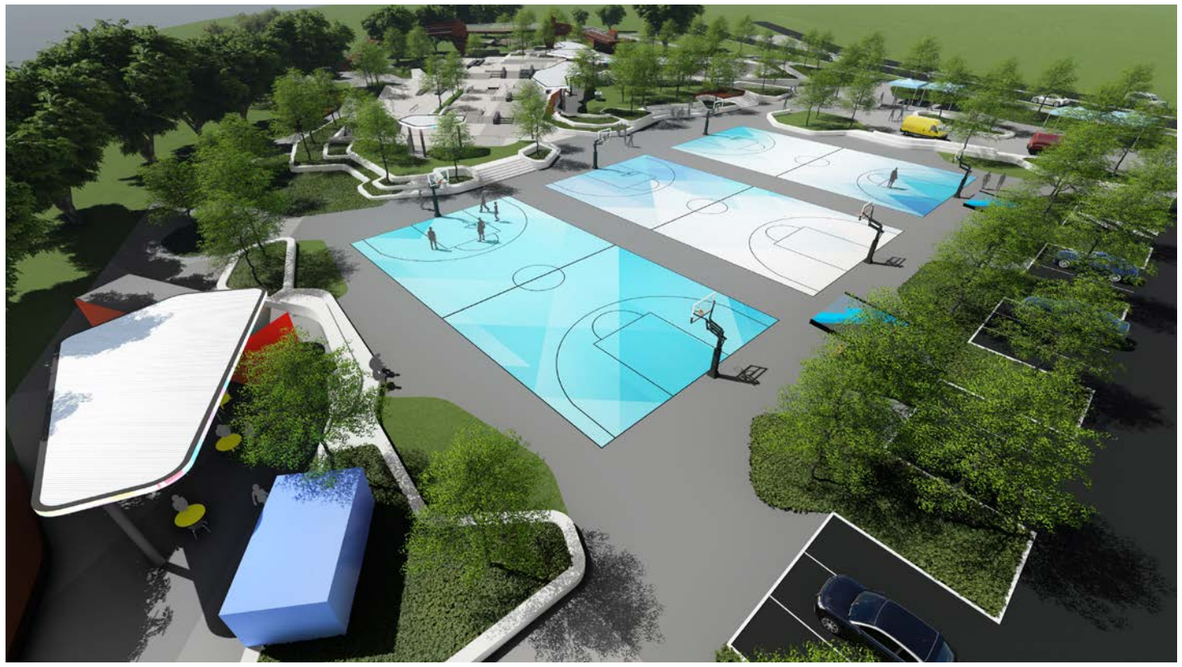
8.0 FINAL CONCEPT DESIGN

8.4 FINAL PUMP TRACK / JUMP LINE VISUALISATIONS



8.0 FINAL CONCEPT DESIGN

8.5 FINAL LANDSCAPE / BASKETBALL VISUALISATIONS



TAYLOR MCCALLUM RESERVE

VICTORIA PARK WA

ACTIVE AREA

LANDSCAPE CONTRACT: TOVP02

LANDSCAPE & IRRIGATION WORKS

CLIENT:TOWN OF VICTORIA PARK

ISSUE FOR: 85% ***CLIENT REVIEW***

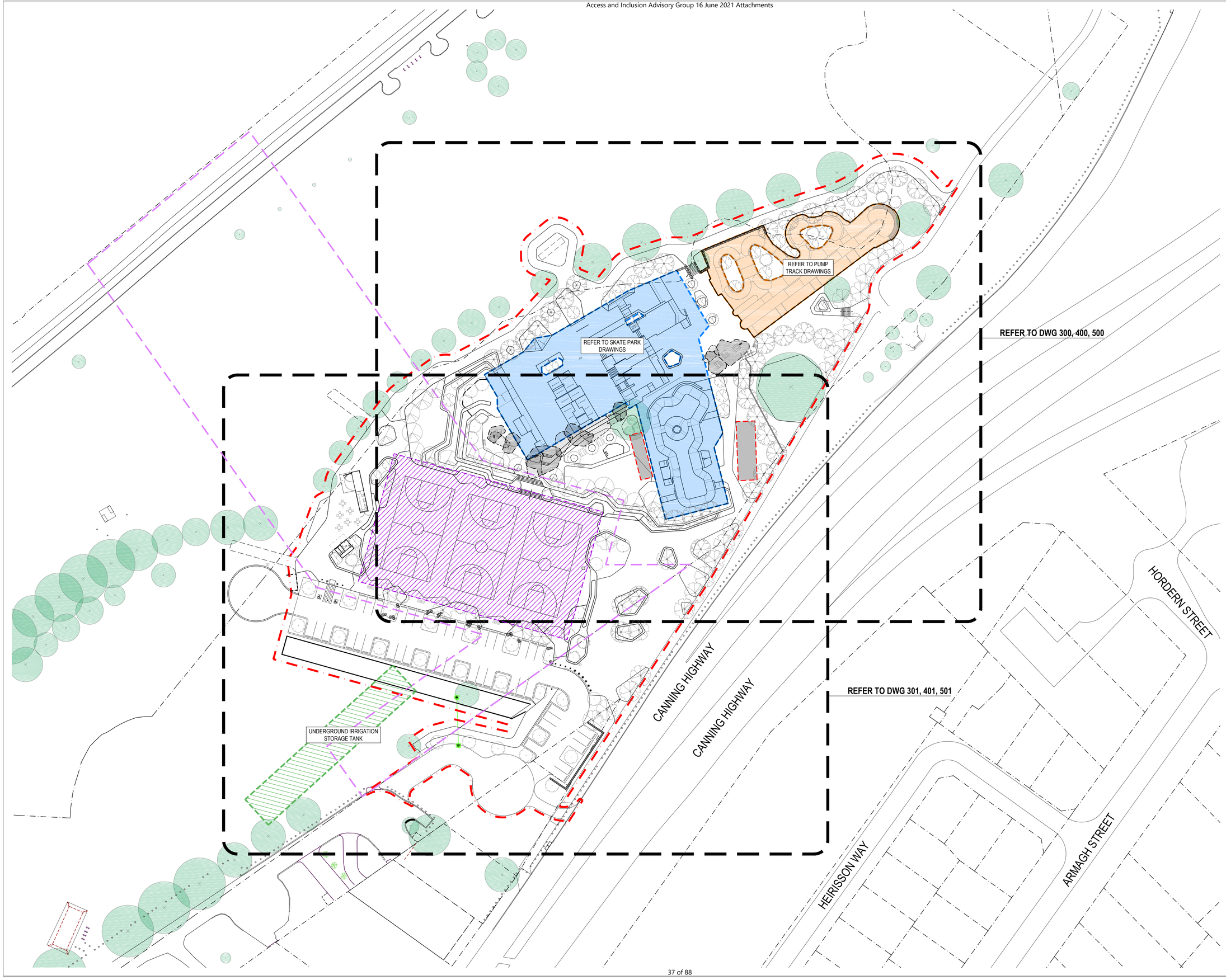
DATE: **MAY 2021**

DRAWING LIST

SHEET	REV	SHEET TITLE
TOVP-02-000	B	COVER PAGE
TOVP-02-100	B	OVERALL PLAN
TOVP-02-200	B	DEMOLITION PLAN
TOVP-02-300	B	GRADING PLAN
TOVP-02-301	B	GRADING PLAN
TOVP-02-400	B	HARDSCAPE PLAN
TOVP-02-401	B	HARDSCAPE PLAN
TOVP-02-500	B	PLANTING PLAN
TOVP-02-501	B	PLANTING PLAN
TOVP-02-600	B	SECTIONS
TOVP-02-601	B	SECTIONS
TOVP-02-602	B	SECTIONS
TOVP-02-900	A	HARDSCAPE DETAILS
TOVP-02-910	B	WALL DETAILS
TOVP-02-920	B	CUSTOM SHELTER DETAILS
TOVP-02-930	B	CUSTOM SHELTER DETAILS
TOVP-02-950	B	FURNITURE DETAILS
TOVP-02-970	B	SOFTWORKS DETAILS
TOVP-02-980	B	NOTES

TOWN OF VICTORIA PARK

emerge ASSOCIATES
Integrated Science & Design



LEGEND

- EXTENT OF WORKS
- SKATEPARK EXTENTS. REFER TO SKATEPARK DRAWINGS
- PUMP TRACK EXTENTS. REFER TO PUMP TRACK DRAWINGS
- WATERCORP EASEMENT
- UNDERGROUND WATERCORP EMERGENCY SEWERAGE TANK
- UNDERGROUND IRRIGATION STORAGE TANK
- PROPERTY BOUNDARY
- EXISTING TREE TO BE RETAINED AND PROTECTED

STANDARD NOTES

1. **SET OUT & DIMENSIONS.** THE CONTRACTOR SHALL SET OUT ALL PATHS, WALLS, HARD SURFACES AND ELEMENTS EITHER ON OR OFFSITE PRIOR TO CONSTRUCTION AND SHALL OBTAIN THE SUPERINTENDENTS SET OUT APPROVAL PRIOR TO WORKS COMMENCING. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. CHECK ALL DRAWING SCALES IN CONJUNCTION WITH DRAWING SIZE.
2. **SERVICES & SITE ASSETS.** THE CONTRACTOR SHALL INVESTIGATE THE NATURE AND LOCATION OF ALL EXISTING SERVICES AND RETAINED SITE ASSETS AFFECTED BY THEIR WORKS. FAILURE TO TAKE DUE CARE SHALL NOT LIMIT THE CONTRACTORS LIABILITIES.
3. **REFERENCE.** THE CONTRACTOR SHALL REFER TO ALL CONTRACT DOCUMENTS, THE SPECIFICATION AND DRAWINGS PRIOR TO AND DURING THE WORKS.
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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA

STAGE OR PHASE
ACTIVE AREA

DRAWING TITLE
OVERALL PLAN

CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		

SCALE 1: 500 @ A1 METRES
0 5 10 15 20 25

DRAWING NUMBER TOVP-02-100
REV B

REF: F:\WORK\EMERGE\MCCALLUM PARK\TOVP02_TAYLOR MCCALLUM RESERVE_DES.DWG

LEGEND

- EXTENT OF WORKS
- EXISTING SITE ELEMENTS TO BE REMOVED
- EXISTING TURF TO BE REMOVED
- EXISTING SITE INFRASTRUCTURE TO BE RETAINED AND PROTECTED
- EXISTING COURTS TO BE RETAINED AND RE-SURFACED
- PROPERTY BOUNDARY
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE RETAINED AND PROTECTED
- EXISTING TREES ON SITE TO BE REMOVED AND STORED ON SITE FOR RE-USE ON WORKS

STANDARD NOTES

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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA
DRAWING TITLE
DEMOLITION PLAN
CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		

SCALE 1: 500 @ A1 METRES (0 5 10 15 20 25)

DRAWING NUMBER TOVP-02-200 REV B

REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVP02_TAYLOR MCCALLUM RESERVE_DES.DWG

REFER TO PUMP TRACK DRAWINGS

REFER TO SKATE PARK DRAWINGS

CANNING HIGHWAY

CANNING HIGHWAY

CANNING HIGHWAY

SWAN RIVER

1 LOCATION PLAN
300 PLAN

SCALE 1:2500

LEGEND

- EXTENT OF WORKS
- 0.00 EXISTING CONTOURS
- 0.00 PROPOSED CONTOURS
- RL 8.00 SPOT LEVELS
- PL 8.00 PLATFORM / PATH LEVELS
- TD 1.53 TOP OF DRAIN LEVEL
- TW 8.00 BW 7.50 WALL SPOT HEIGHTS
- TS 3.50 LEVEL AT TOP OF STAIR
- BS 3.50 LEVEL AT BOTTOM OF STAIR
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE RETAINED AND PROTECTED

STANDARD NOTES

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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA

STAGE OR PHASE
ACTIVE AREA

DRAWING TITLE
GRADING PLAN

CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		

SCALE 1: 250 @ A1 METRES
0 2.5 5 7.5 10 12.5

DRAWING NUMBER TOVP-02-300
REV B

REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVP02_TAYLOR MCCALLUM RESERVE_DES.DWG

REFER TO SKATE PARK DRAWINGS

UNDERGROUND IRRIGATION STORAGE TANK

CANNING HIGHWAY

CANNING HIGHWAY

LEGEND

- EXTENT OF WORKS
- 0.00 EXISTING CONTOURS
- 0.00 PROPOSED CONTOURS
- RL 8.00 SPOT LEVELS
- PL 8.00 PLATFORM / PATH LEVELS
- TD 1.53 TOP OF DRAIN LEVEL
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- TS 3.50 LEVEL AT TOP OF STAIR
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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA

STAGE OR PHASE
ACTIVE AREA

DRAWING TITLE
GRADING PLAN

CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		

SCALE 1: 250 @ A1 METRES
0 2.5 5 7.5 10 12.5

DRAWING NUMBER
TOVP-02-301

REV
B

REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVPEC_TAYLOR MCCALLUM RESERVE_DES.DWG

SWAN RIVER

CANNING HIGHWAY

1 / 301 LOCATION PLAN
PLAN

SCALE 1:2500

LEGEND

- EXTENT OF WORKS
- EXISTING FOOTPATH
- CONCRETE PATH 1 900
- EXPOSED AGGREGATE CONCRETE HOLCIM COLOURS: MAGNOLIA & JARRAH 1 900
- REINFORCED CONCRETE HARDSTAND TYPE 1 - CCS CANVAS 2 900
- REINFORCED CONCRETE HARDSTAND TYPE 2 - CCS ECHIDNA 2 900
- TIMBER DECKING 7 910
- NEW PLEXIPAVE SURFACE TO COURTS 6 900
- RECONSTITUTED LIMESTONE WALL 1 910
- CONCRETE WALL 3 910
- MK SE CONCRETE MOW KERB / STEEL EDGE 3 900 8 900
- BALUSTRADE & HANDRAIL / BIKE TRAIL 12 910 11 950
- PROPOSED PLANTING / PROPOSED PLANTING WITH GRAVEL MULCH BASE 188 970
- MULCH ONLY
- TURF 4 970
- BOULDERS 9 900
- BENCH SEAT 8 950; BBQ 10 950
- POWER ME BENCH 6 950; BIKE RACK 4 950
- PICNIC SETTING 7 950; TACTILES 11 900
- DRINK FOUNTAIN / BIN 2 950 3 950
- PROPOSED TREES. REFER TO STREET TREE PLAN 6-7 970
- EXISTING TREE TO BE RETAINED AND PROTECTED

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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA
DRAWING TITLE
HARDSCAPE PLAN
CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		

SCALE 1: 250 @ A1 METRES
0 2.5 5 7.5 10 12.5

DRAWING NUMBER TOVP-02-400
REV B

REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVPC_TAYLOR MCCALLUM RESERVE_DES.DWG

EXPOSED AGGREGATE CONCRETE 1/900
CAFE STRUCTURE
CAFE
TIMBER LOUNGING AREA STRUCTURE 9/910
FUTURE SEATING BY CAFE TENANT
TOILET BLOCK STRUCTURE 9/950
TOILETS
BIN 3/950
ALLOWANCE FOR BIN COMPOUND
REFER TO SKATE PARK DRAWINGS
13/950 DJ BOOTH
11/900 TACTILES
E 602
B 601
TIMBER DECKED SEATING TO SEATING WALL 9/910
D 601
CUSTOM FEATURE SHELTER 02 920
C 601
BIKE RAIL 11/950
FORMED CONCRETE STAIRS WITH RAILING 5/910
TIMBER DECKED SEATING TO SEATING WALL 3/910
6/950 POWER ME BENCH SEAT
F 600
8/950 BENCH SEAT
14/950 BACK STOP CHAIN MESH FENCING - TYP. 3m HIGH
SWALE PLANTING 5/970
TURF EDGING TO MATCH EXISTING TURF 4/970
UNDERGROUND IRRIGATION STORAGE TANK
9/900 BOULDERS
2/950 DRINK FOUNTAIN
02/900 REINFORCED CONCRETE HARDSTAND TYPE 02
02/900 REINFORCED CONCRETE HARDSTAND TYPE 01
3/950 BIN
1/950 REMOVEABLE BOLLARD
900 RECONSTITUTED LIMESTONE BLOCK WALL
CANNING HIGHWAY
CANNING HIGHWAY
RB
BENCH

LEGEND

- EXTENT OF WORKS
- EXISTING FOOTPATH
- CONCRETE PATH 1/900
- EXPOSED AGGREGATE CONCRETE HOLCIM COLOURS: MAGNOLIA & JARRAH 1/900
- REINFORCED CONCRETE HARDSTAND TYPE 1 - CCS CANVAS 2/900
- REINFORCED CONCRETE HARDSTAND TYPE 2 - CCS ECHIDNA 2/900
- TIMBER DECKING 7/910
- NEW PLEXIPAVE SURFACE TO COURTS 6/900
- RECONSTITUTED LIMESTONE WALL 1/910
- CONCRETE WALL 3/910
- CONCRETE MOW KERB / STEEL EDGE (MK / SE) 3/900, 8/900
- BALUSTRADE & HANDRAIL / BIKE TRAIL 12/910, 11/950
- PROPOSED PLANTING / PROPOSED PLANTING WITH GRAVEL MULCH BASE 188/970
- MULCH ONLY
- TURF 4/970
- BOULDERS 9/900
- BENCH SEAT 8/950
- BBQ 10/950
- POWER ME BENCH 6/950
- BIKE RACK 4/950
- PICNIC SETTING 7/950
- TACTILES 11/900
- DRINK FOUNTAIN / BIN (F / B) 2/950, 3/950
- PROPOSED TREES. REFER TO STREET TREE PLAN 6-7/970
- EXISTING TREE TO BE RETAINED AND PROTECTED

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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA
DRAWING TITLE
HARDSCAPE PLAN
CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		

SCALE 1: 250 @ A1 METRES
0 2.5 5 7.5 10 12.5

DRAWING NUMBER TOVP-02-401
REV B

REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVPDC_TAYLOR MCCALLUM RESERVE_DES.DWG

TREE SCHEDULE

Sym.	Key	Botanic Name	Common Name	Pot	Qty.
	AGFL	Agonis flexuosa	WA Peppermint	200L	13
	BAGR	Banksia grandis	Coastal Blackbutt	100L	13
	CAKI	Callistemon 'kings park special'	Coral Gum	200L	28
	EUGO	Eucalyptus gomphocephala	Marri	200L	38
	EURU	Eucalyptus rudis	Flooded Gum	200L	27
	MEQU	Melaleuca quinquenervia		100L	23
	ULPA	Ulmus parvifolia		500L	21

PLANT AND TREE NUMBERS IN SCHEDULE ARE TO BE USED AS GUIDE ONLY. TENDERERS TO REFER LABELS ON PLANS FOR NUMBERS. PLANT NUMBERS AND SPECIES ARE SUBJECT TO AVAILABILITY.

PM SWALE

Key	Botanic Name	Common Name	Pot	Qty.
BAJU	Baumea juncea	Bare Twig Rush	Tube	272
CAIN	Carex inversa	Knob Sedge	Tube	272
JUKR	Juncus krausii	Sea Rush	Tube	272
SARE	Samolus repens	Creeping Brookweed	Tube	272

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LEGEND

- EXTENT OF WORKS
- PROPOSED PLANTING (1 970)
- PROPOSED PLANTING WITH GRAVEL MULCH BASE (8 970)
- TURF (4 970)
- SWALE PLANTING (5 970)
- PROPOSED TREES (6-7 970)
- EXISTING TREE TO BE RETAINED AND PROTECTED

NOTE: REFER DRAWING TOVP-02-500 FOR PLANT SCHEDULES

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MIX A

Key	Botanic Name	Common Name	Pot	Qty.
BOER	Bossiaea eriocarpa	Common Brown Pea	140mm	569
COJU	Conostylis juncea		140mm	569
GOTO	Gompholobium tomentosum	Hairy Yellow Pea	140mm	569
KEPR	Kennedia prostrata	Running Postman	140mm	569

MIX B

Key	Botanic Name	Common Name	Pot	Qty.
ADCU	Adenanthos cuneatus	Jug Flower	140mm	4866
GROB	Grevillea obtusifolia	Ging Gin Gem	140mm	4866
MYPA	Myoporum parvifolium	Creeping Boobialla	140mm	4866

MIX C

Key	Botanic Name	Common Name	Pot	Qty.
DIRE	Dianella revoluta	Blueberry Lily	140mm	1148
LEGL	Lepidosperma gladiatum	Coastal Sword-Sedge	140mm	1148
LOLO	Lomandra longifolia	Spiny-head Mat-rush	140mm	1148

MIX D

Key	Botanic Name	Common Name	Pot	Qty.
AGFN	Agonis flexuosa 'Nana'	Willow Peppermint	140mm	1773
MESE	Melaleuca seriata		140mm	1773
WEFR	Westringia fruticosa	Coastal Rosemary	140mm	1773

MIX E

Key	Botanic Name	Common Name	Pot	Qty.
BESQ	Beaufortia squarrosa	Sand Bottlebrush	140mm	1038
CAQU	Calothamnus quadrifidus	One-sided Bottlebrush	140mm	1038
OLAX	Olearia axillaris	Costal Daisybush	140mm	1038

MIX F

Key	Botanic Name	Common Name	Pot	Qty.
ACGM	Acacia 'Green Mulch'		140mm	161
DIRE	Dianella revoluta	Blueberry Lily	140mm	161
HISC	Hibbertia scandens	Snake Vine	140mm	161

MIX G

Key	Botanic Name	Common Name	Pot	Qty.
CAGL	Casuarina glauca 'Cousin It'	Cousin It	140mm	51

MIX H

Key	Botanic Name	Common Name	Pot	Qty.
ACCO	Acacia cognata	Limelight	140mm	67

MIX I

Key	Botanic Name	Common Name	Pot	Qty.
LEBR	Leucophyta brownii	Cushion Bush	140mm	88

MIX J

Key	Botanic Name	Common Name	Pot	Qty.
MAFU	Macropidia fuliginosa	Black Kangaroo Paw	140mm	35

PLANT AND TREE NUMBERS IN SCHEDULE ARE TO BE USED AS GUIDE ONLY. TENDERERS TO REFER LABELS ON PLANS FOR NUMBERS. PLANT NUMBERS AND SPECIES ARE SUBJECT TO AVAILABILITY.

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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA
DRAWING TITLE
PLANTING PLAN
CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
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SCALE 1: 250 @ A1 METRES
0 2.5 5 7.5 10 12.5

DRAWING NUMBER TOVP-02-500
REV B

REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVPC_MCCALLUM RESERVE_2263.DWG

LEGEND

- EXTENT OF WORKS
- PROPOSED PLANTING — 1 970
- PROPOSED PLANTING WITH GRAVEL MULCH BASE — 8 970
- TURF — 4 970
- SWALE PLANTING — 5 970
- PROPOSED TREES — 6-7 970
- EXISTING TREE TO BE RETAINED AND PROTECTED

NOTE: REFER DRAWING TOVP-02-500 FOR PLANT SCHEDULES

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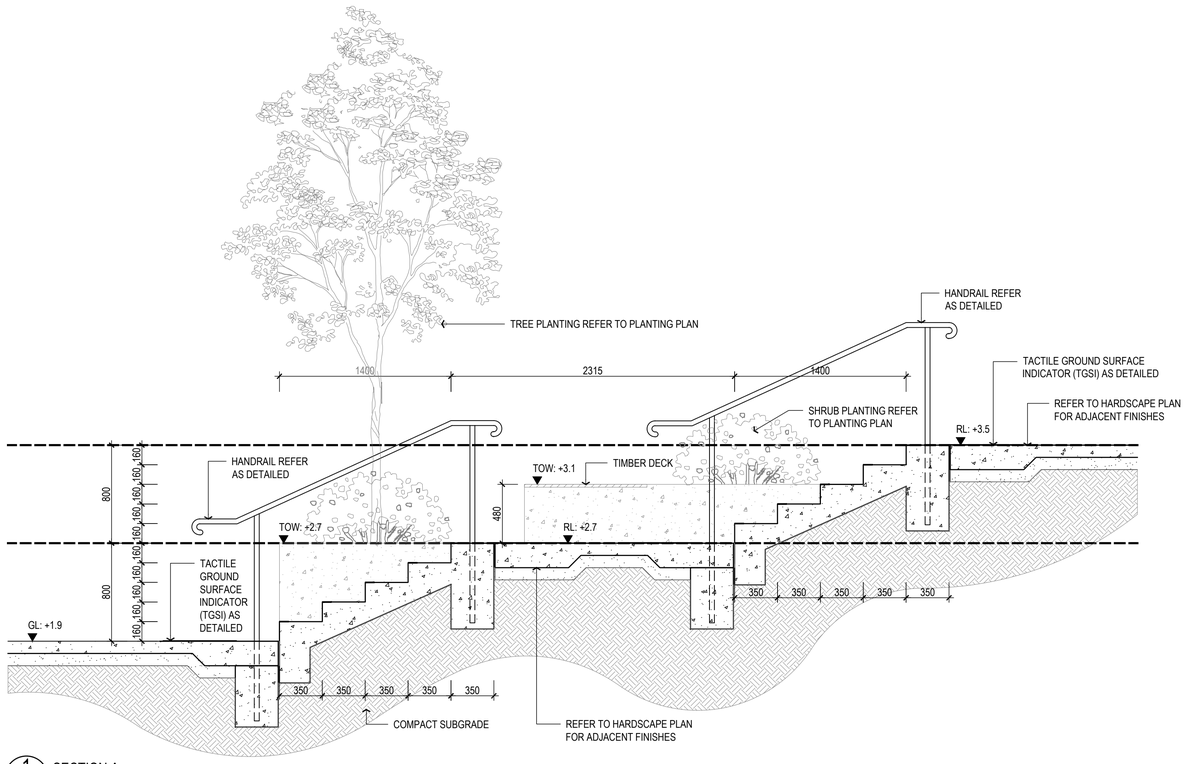

1/600 SECTION A
SECTION

SCALE 1:25

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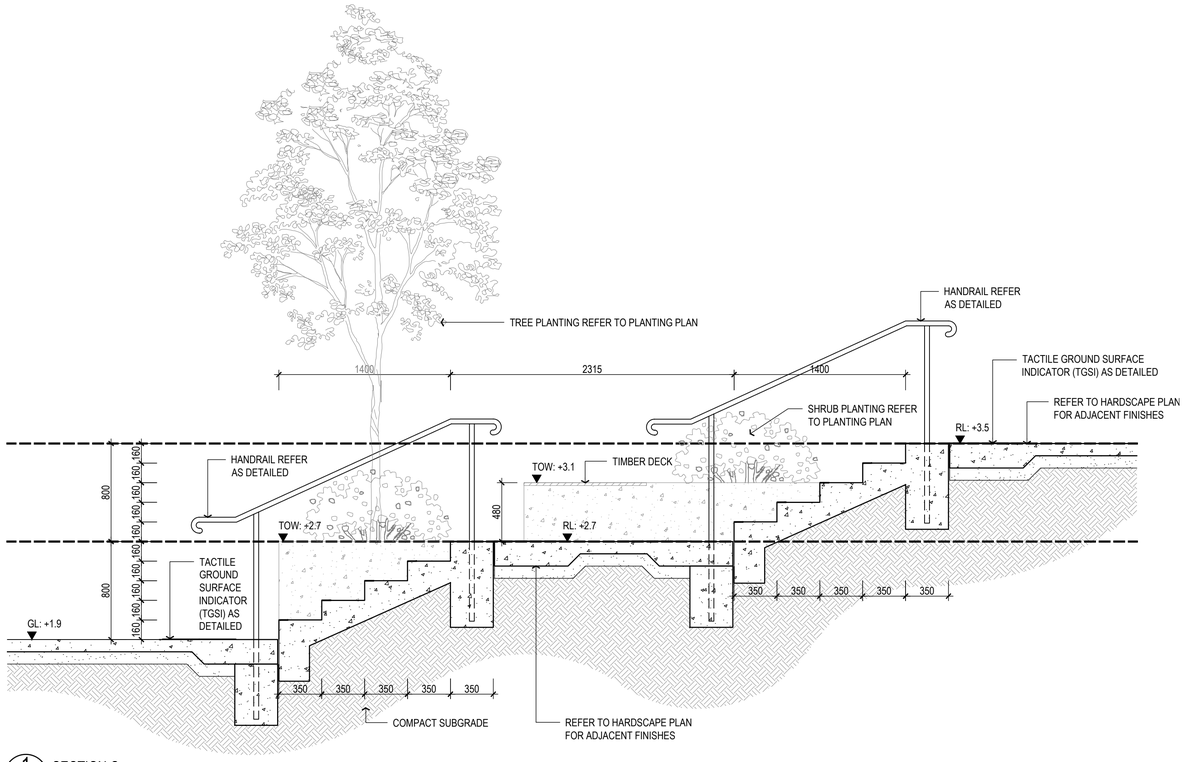
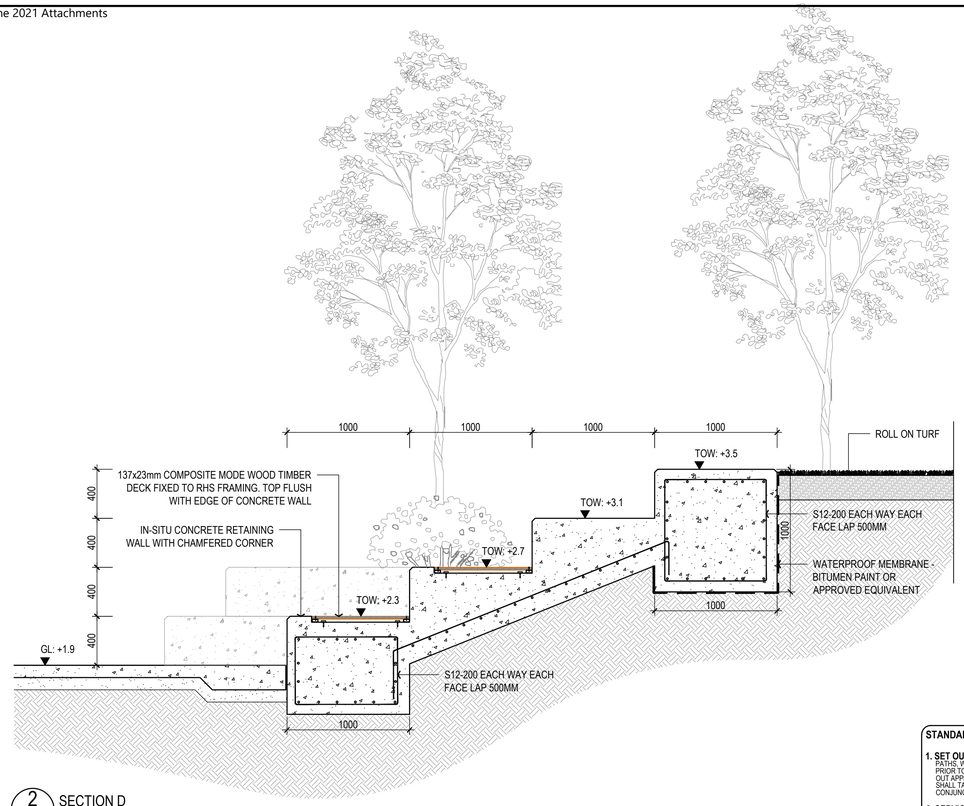


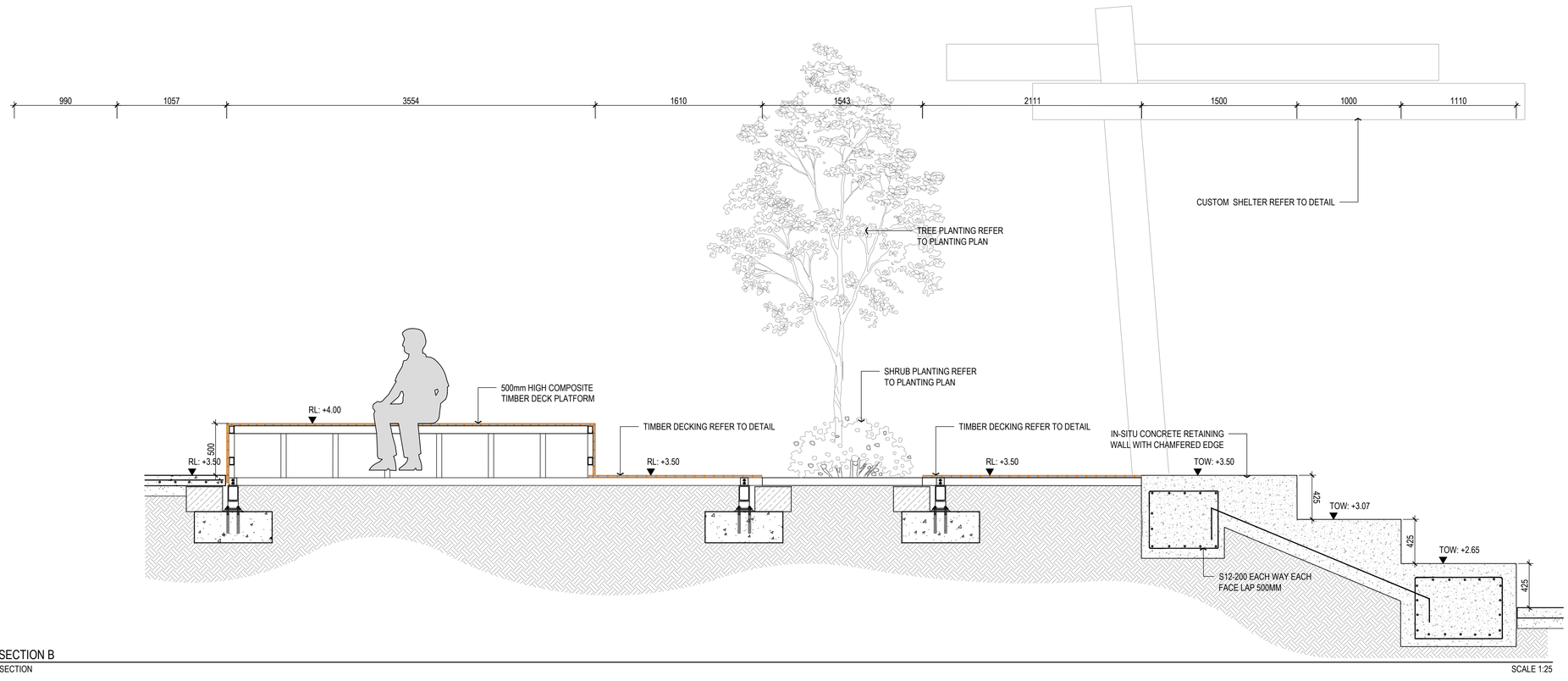
1 / 601 SECTION C
SECTION

SCALE 1:25



2 / 601 SECTION D
SECTION

SCALE 1:25



3 / 601 SECTION B
SECTION

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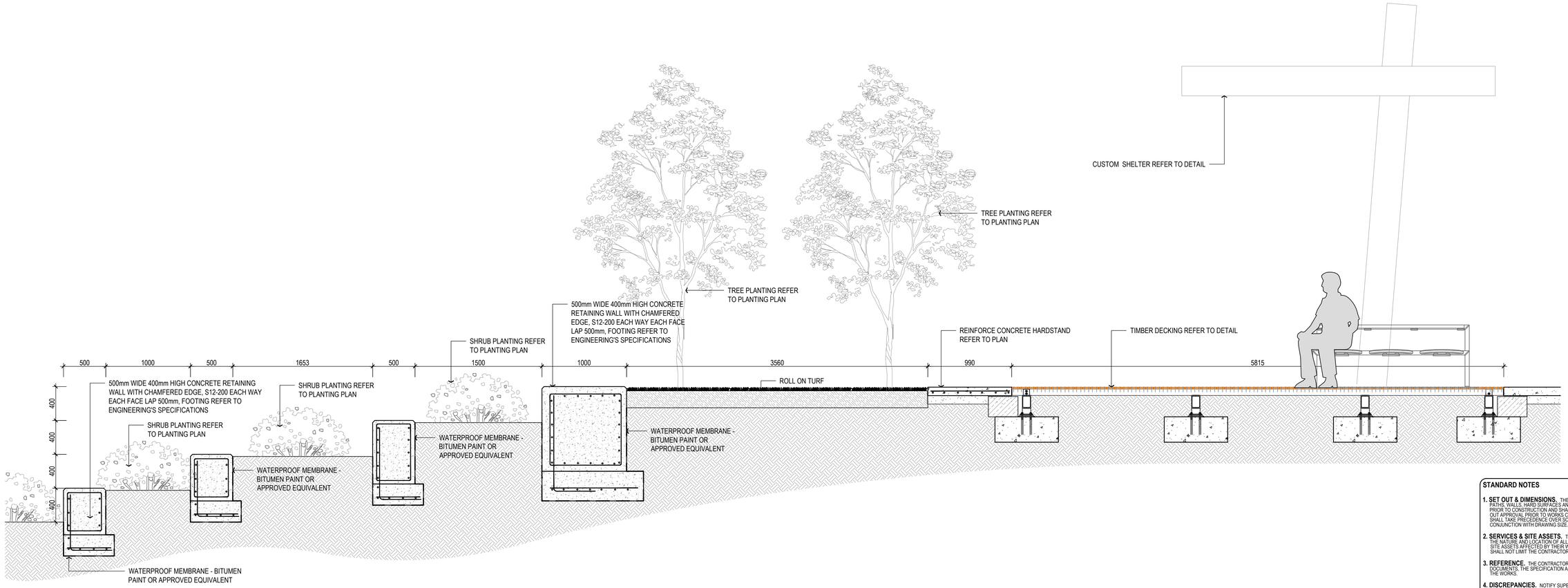

1 / 602 SECTION E
SECTION

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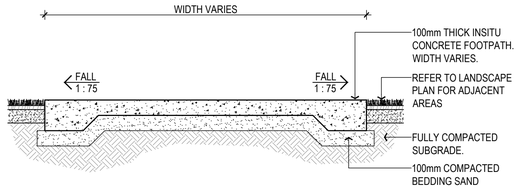
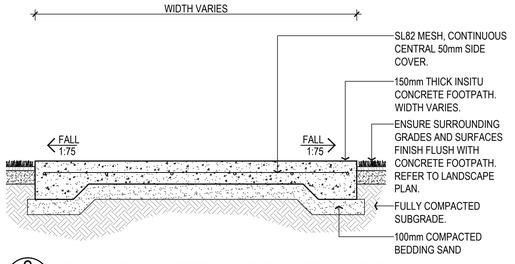


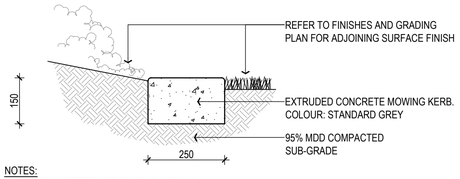
NOTES

1. FOUNDATION TO BE COMPACTED TO 95% MDD.
2. ALL CONCRETE FOOTPATH CONSTRUCTION TO BE A MIN 25MPa, 20mm AGGREGATE AND MAX SLUMP OF 80-100mm.
3. BEDDING - SAND (100mm MINIMUM).
4. EXPANSION JOINT EVERY 5.0M. SEE DETAIL 4/900
5. CONTRACTION JOINT EVERY 2.5M. SEE DETAIL 5/900
6. SURFACE TO BE BROOM FINISH, NON-SLIP, WITH SMOOTH EDGE APPROX 75mm WIDE AT EDGES AND JOINTS.
7. LONGITUDINAL GRADE SHOULD NOT EXCEED 1 IN 20.
8. WHERE LONGITUDINAL GRADE IS GREATER THAN 1 IN 14, LANDINGS WILL BE PROVIDED EVERY 6m.
9. VERTICAL CLEARANCES ALONG PATHS SHOULD BE A MINIMUM OF 2m.
10. WHERE STREET FURNITURE (POLES, BENCHES, RUBBISH BINS, POSTS, ETC) ARE LOCATED IN PATH, A MIN UNOBSTRUCTED WIDTH OF 1.2m MUST BE MAINTAINED.

1 / 900 INSITU CONCRETE FOOTPATH - TYPICAL
SECTION — SCALE 1:20

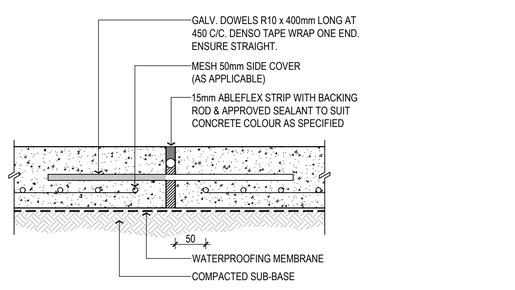


2 / 900 REINFORCED CONCRETE PATH FOR MAINTENANCE VEHICLE ACCESS
SECTION — SCALE 1:20

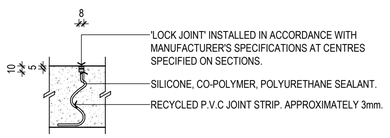


NOTES:
1. ALL CONCRETE TO BE 32MPa @ 28 DAYS
2. CONTRACTION JOINTS: RULED / STAMPED AT 2.0M INTERVALS
3. EXPANSION JOINTS: 6.0M INTERVALS TO LINE UP WITH FOOTPATH JOINTS.

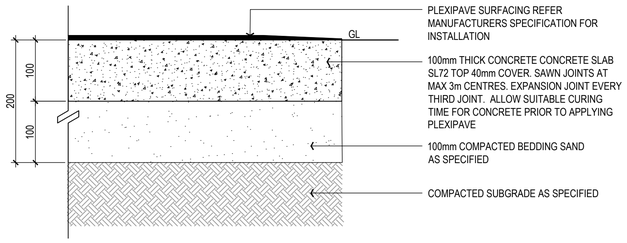
3 / 900 MOWING KERB
SECTION — SCALE 1:10



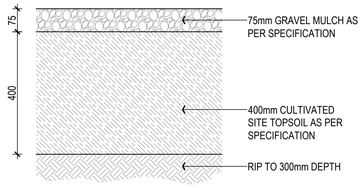
4 / 900 TYPICAL EDGE DETAIL (NON-TRAFFICABLE)
SECTION — SCALE 1:5



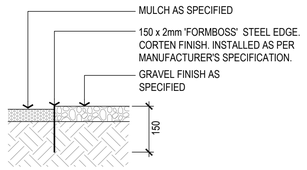
5 / 900 TYPICAL CONTRACTION JOINT
SECTION — SCALE 1:5



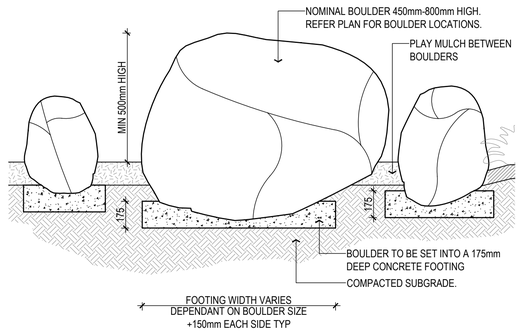
6 / 900 PLEXIPAVE MULTI SPORTS SURFACE
SECTION — SCALE 1:5



7 / 900 GRAVEL MULCH
SECTION — SCALE 1:10



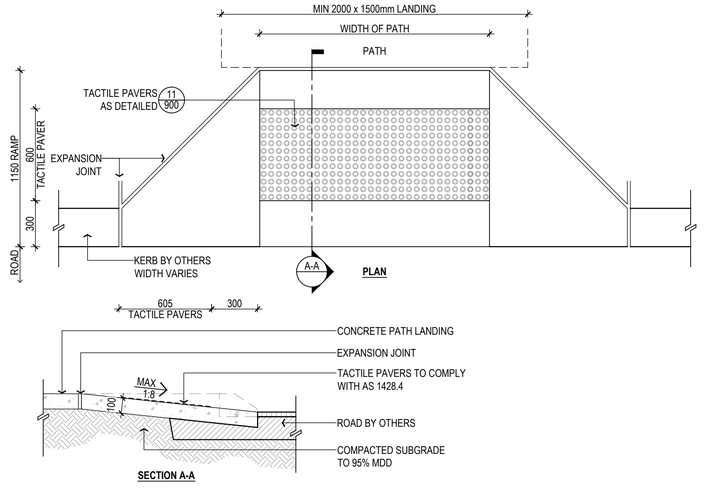
8 / 900 STEEL EDGE RESTRAINT
SECTION — SCALE 1:10



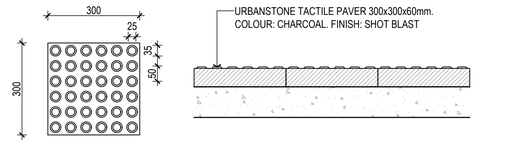
NOTES

LIMESTONE BOULDERS TO BE SOURCED AND INSTALLED. MIN HEIGHT SIZE 450mm - MAX SIZE 800mm. GENERALLY BOULDERS TO BE BURIED APPROX. 1/3 OF EXPOSED HEIGHT AND INSTALLED WITH A MORTAR BED

9 / 900 FEATURE BOULDERS @ MULCH
SECTION — SCALE 1:20



10 / 900 CONCRETE PRAM RAMP
PLAN & SECTION — SCALE 1:20



11 / 900 URBANSTONE TACTILE TILE
PLAN SECTION — SCALE 1:10

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Integrated Science & Design
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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA
DRAWING TITLE
HARDSCAPE DETAILS
CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		
SCALE	AS SHOWN		
DRAWING NUMBER	TOVP-02-900	REV	A

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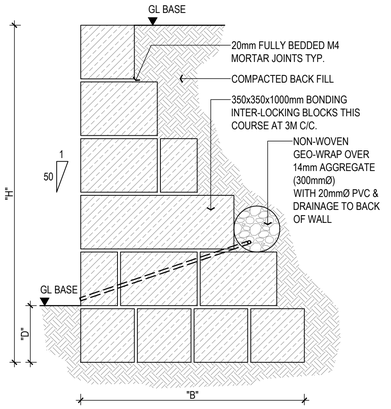
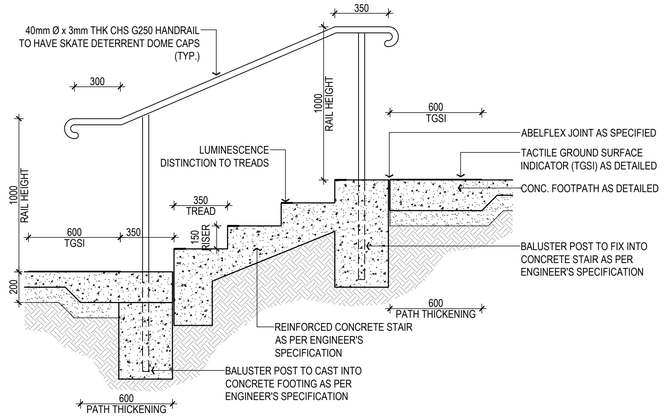
MINIMUM REQUIREMENTS:		
'H'	'B'	'D'
0 - 370	250	100
350 - 700	500	200
700 - 1050	700	250
1050 - 1400	1050	300
1400 - 1750	1050	300
1750 - 2000	1400	400
2000 - 2800	1750	500

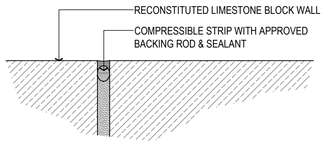
NOTES:
1. COMPACT GROUND UNDER FOOTING TO RESIST 7 BLOWS PER 300mm OF A STANDARD 16mmØ PENETROMETER OVER A DEPTH OF 600mm.
2. PROVIDE CONTROL JOINTS TO ALL RETAINING WALLS AT 10mm CTS MAX. REFER TO DETAIL 00/00.
3. NO BACKFILLING UNTIL 7 DAYS AFTER WALLS HAVE BEEN BUILT.
4. THESE WALLS ARE APPLICABLE FOR SANDY SOIL CONDITIONS ONLY.
5. CLAYEY SOILS TO BE REFERRED TO ENGINEER.
6. HORIZONTAL BACKFILL ONLY.
7. TO REAR OF WALL USE RANDOM COURSED BONDED STONE IN 1 : CEMENT, 2 : LIME, 9, : SAND MORTAR. NO RUBBLE FILL PERMITTED.
8. 'D' TO CONSIST OF COMPACTED SUBGRADE NOT PLAY SAND OR MULCH / ETC.



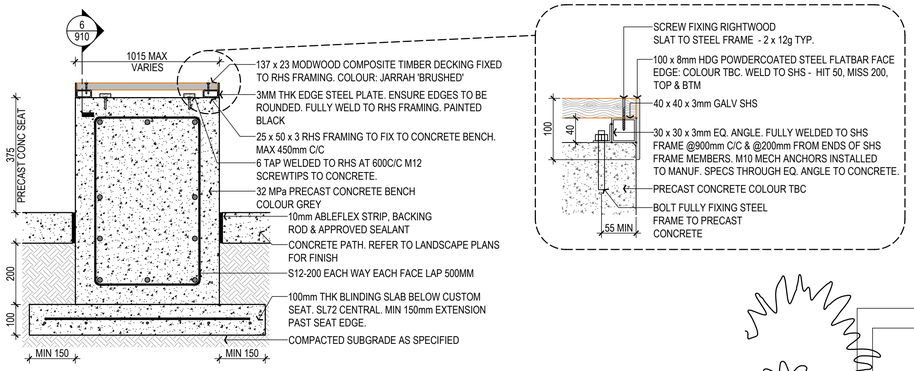
1 910 LIMESTONE RETAINING WALL - TYPICAL
SECTION SCALE 1:20



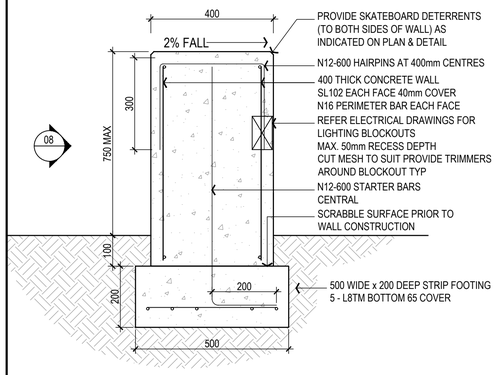
5 910 TYPICAL CONCRETE STAIR
SECTION SCALE 1:20



2 910 LIMESTONE RETAINING WALL CONTROL JOINT
SECTION SCALE 1:5

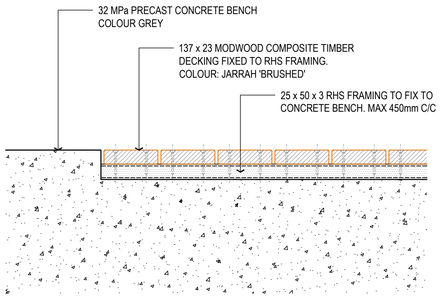


3 910 CUSTOM SEAT
SECTION SCALE 1:10

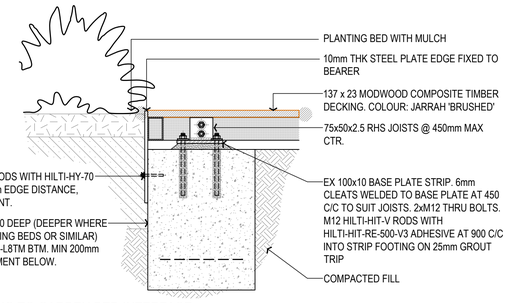


4 910 400mm WIDE CONCRETE SEAT WALL
SECTION SCALE 1:10

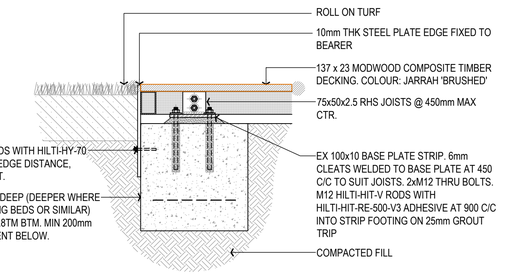
CONCRETE WALL NOTES:
1. PROVIDE CONTROL JOINTS IN ALL WALLS AT 8m CTS
2. WALLS & TOP SLAB TO N32 CONCRETE WITH OFF-WHITE CEMENT
3. OFF-FORM FINISH TO ALL EXPOSED FACES OF WALLS & SLABS TO BE CLASS 2
4. 10 x 10mm CHAMFER TO ALL EXPOSED EDGES
5. ENSURE ALL WALLS PROPPED DURING BACKFILLING & COMPACTION. USE ONLY LIGHT WEIGHT COMPACTION EQUIPMENT



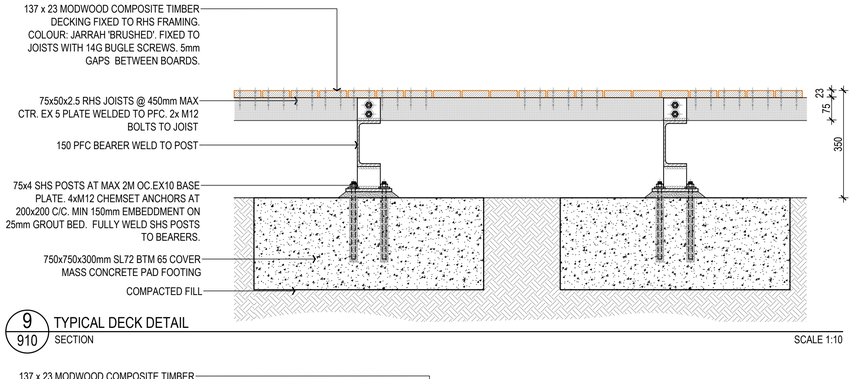
6 910 CUSTOM RECESSED TIMBER SEAT
SECTION SCALE 1:5



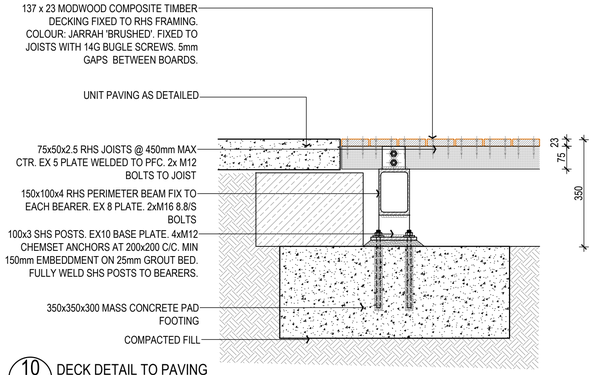
7 910 DECKING TO GARDEN BED INTERFACE
SECTION SCALE 1:10



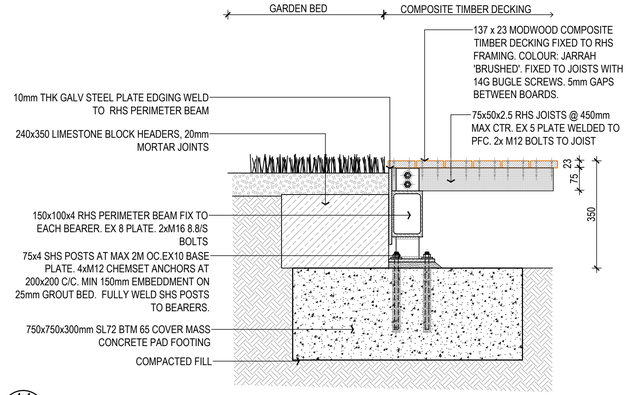
8 910 DECKING TO TURF INTERFACE
SECTION SCALE 1:10



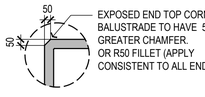
9 910 TYPICAL DECK DETAIL
SECTION SCALE 1:10



10 910 DECK DETAIL TO PAVING
SECTION SCALE 1:10



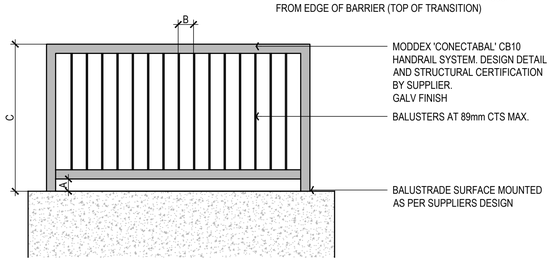
11 910 DECK DETAIL TO GARDEN BED
SECTION SCALE 1:10



DIMENSION SCHEDULE AS PER AS 14974:2021

A: MAX BOTTOM GAP: 60mm
B: HORIZONTAL GAP: 89mm ±2mm
C: MIN HEIGHT 1200mm

NOTE MAX HEIGHT MUST BE ATTAINED AT LEAST 300mm FROM EDGE OF BARRIER (TOP OF TRANSITION)



12 910 TYPICAL BALUSTRADE
SECTION SCALE 1:25

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PROJECT
TAYLOR MCCALLUM RESERVE VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA
DRAWING TITLE
WALL DETAILS
CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
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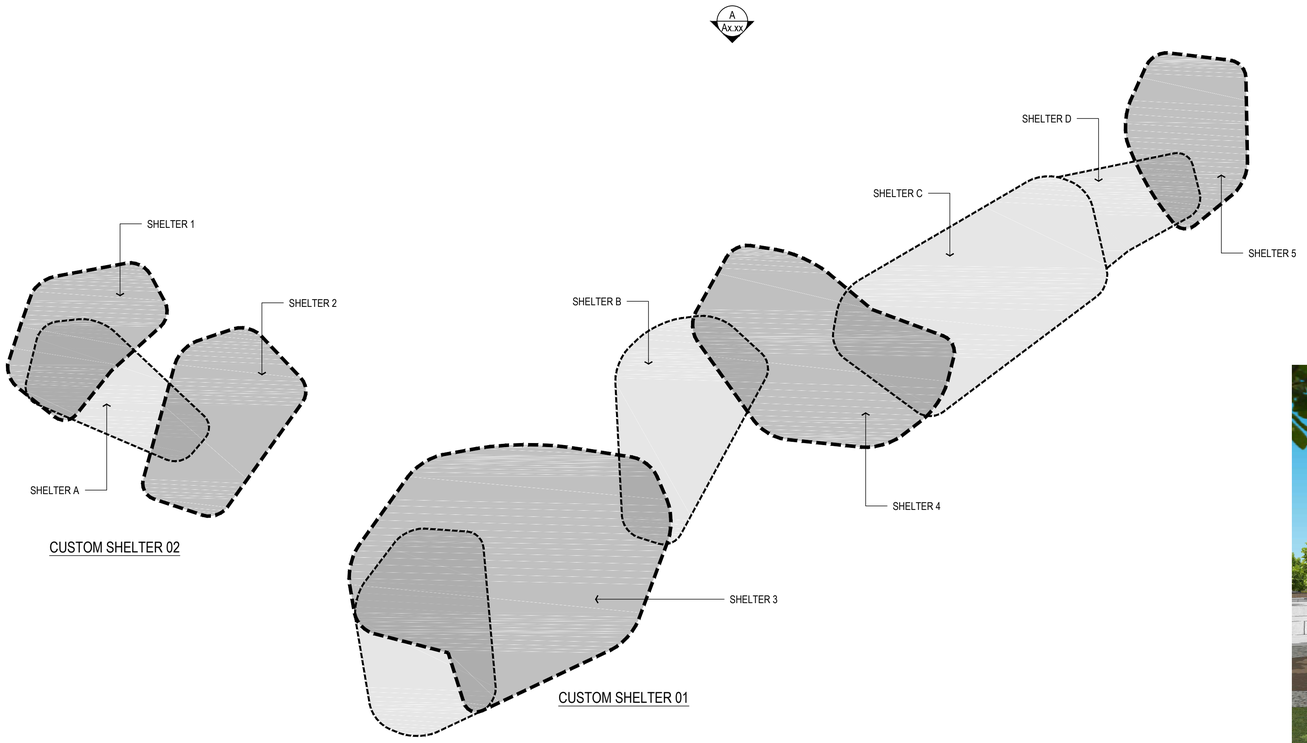
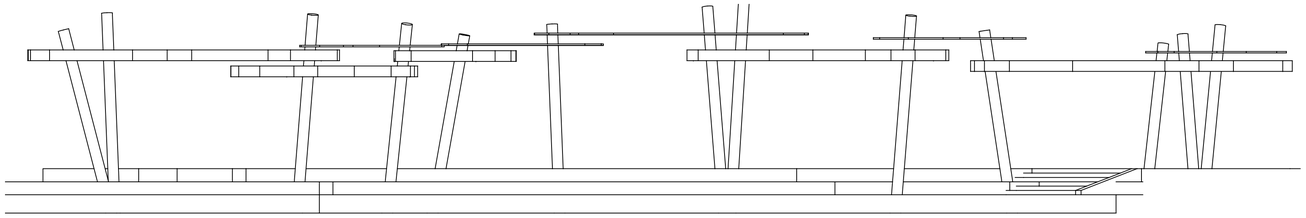


1 / 920 CUSTOM SHELTER 01 & 02
PLAN
SCALE 1:100



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SECTION
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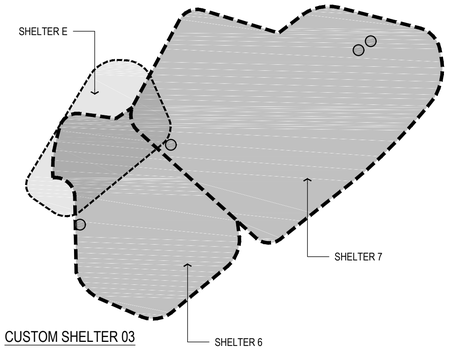
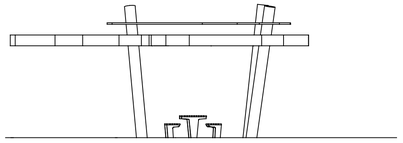
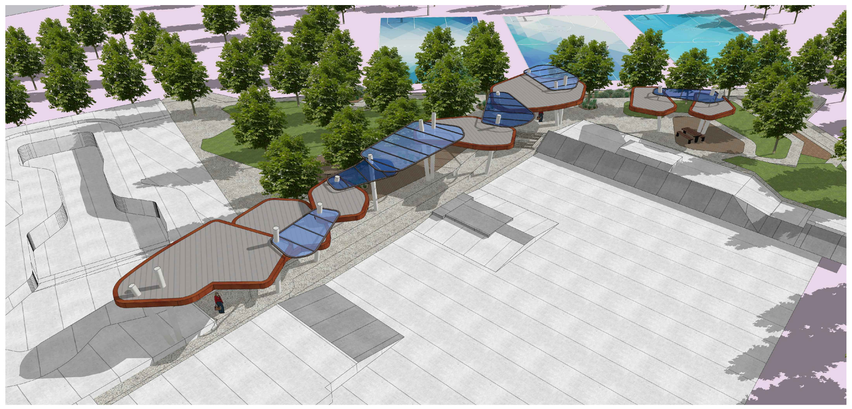
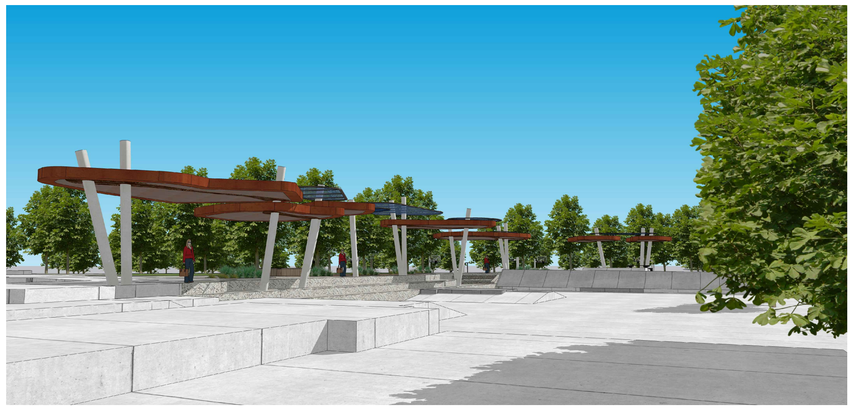


2 / 920 CUSTOM SHELTER 03
PLAN
SCALE 1:100



4 / 920 CUSTOM SHELTER 03
SECTION
SCALE 1:100





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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA
.
DRAWING TITLE
CUSTOM SHELTER DETAILS
CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
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CUSTOM SHELTER DETAILS

CLIENT
TOWN OF VICTORIA PARK

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DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
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REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVP02_TAYLOR MCCALLUM RESERVE_DET.DWG

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PRODUCT NAME	UURANIA BOLLARD
PRODUCT SUPPLIER	COMMERCIAL SYSTEMS AUSTRALIA
PRODUCT CODE	SB2101
PRODUCT FINISH	POWDERCOATED | GALVANISED | SATIN POLISHED
PRODUCT COLOUR	TBC BY LA
PRODUCT FIXING	PER MANUFACTURER'S SPEC

1 950 FEATURE BOLLARD
IMAGE NTS

PRODUCT NAME	LISBOA DRINKING FOUNTAIN
PRODUCT SUPPLIER	COMMERCIAL SYSTEMS AUSTRALIA
PRODUCT CODE	DF5200
PRODUCT FINISH	BODY: POWDERCOAT MS | FULL 304 SS
PRODUCT COLOUR	TBC BY LA
PRODUCT FIXING	PER MANUFACTURER'S SPEC

2 950 DRINKING FOUNTAIN DETAIL
IMAGE NTS

PRODUCT NAME	ALFRESCO BIN ENCLOSURE
PRODUCT SUPPLIER	COMMERCIAL SYSTEMS AUSTRALIA
PRODUCT CODE	LR6554
PRODUCT FINISH	POWDERCOAT; BATTENS: QUANTUM OIL
PRODUCT COLOUR	TBC BY LA
PRODUCT FIXING	PER MANUFACTURER'S SPEC

3 950 BIN ENCLOSURE
IMAGE NTS

PRODUCT NAME	BIKE LEANING RAIL
PRODUCT SUPPLIER	COMMERCIAL SYSTEMS AUSTRALIA
PRODUCT CODE	BR7010
PRODUCT FINISH	316 STAINLESS STEEL
PRODUCT COLOUR	SATIN POLISHED
PRODUCT FIXING	PER MANUFACTURER'S SPEC

4 950 BIKE RACK
IMAGE NTS

PRODUCT NAME	LEDA BIKE REPAIR STATION
PRODUCT SUPPLIER	LEDA
PRODUCT CODE	BBRS01
PRODUCT FINISH	HDG
PRODUCT COLOUR	STAINLESS STEEL
PRODUCT FIXING	PER MANUFACTURER'S SPEC

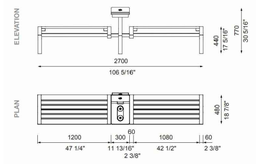
5 950 BIKE REPAIR STATION
IMAGE NTS

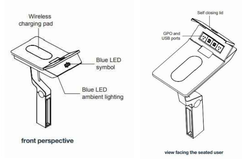
PRODUCT NAME	'ARIA' DDA TRABLE
PRODUCT SUPPLIER	STREET FURNITURE AUSTRALIA
PRODUCT CODE	CMA6-DDA
PRODUCT FINISH	ALUMINIUM FRAME + ALUMINIUM POWDERCOAT BATTEN
PRODUCT COLOUR	MID GREY
PRODUCT FIXING	FIXED TO GROUND

7 950 SFA DDA TABLE
IMAGE REFERENCE NTS

PRODUCT NAME	'ARIA' BENCH SEAT
PRODUCT SUPPLIER	STREET FURNITURES AUSTRALIA
PRODUCT CODE	CMA1
PRODUCT FINISH	ALUMINIUM FRAME + ALUMINIUM POWDERCOAT BATTEN
PRODUCT COLOUR	MID GREY
PRODUCT FIXING	FIXED TO GROUND

8 950 COX URBAN BENCH SEAT
IMAGE NTS



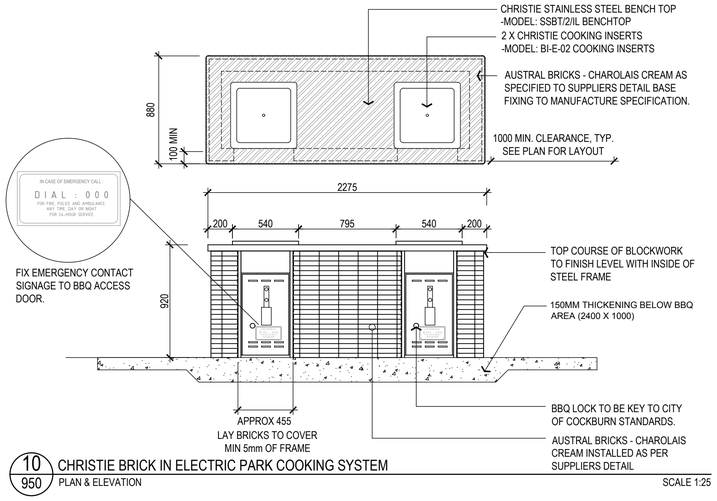


PRODUCT NAME	ARIA BENCH WITH POWERME TABLE (SPLAYED LEGS)
PRODUCT SUPPLIER	SFA
PRODUCT CODE	2B-OM-2B
PRODUCT FINISH	SABLE BASS FRAME, ECO-CERT JARRAH BATTENS
PRODUCT COLOUR	SABLE BASS FRAME, ECO-CERT JARRAH BATTENS
PRODUCT FIXING	SURFACE FIXED

6 950 ARIA BENCH WITH POWERME TABLE
PLAN, SECTION & IMAGE SCALE 1:50

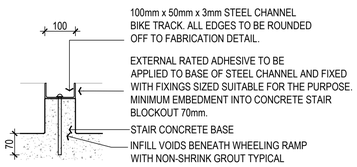
PRODUCT NAME	TOLIET BLOCK LANDMARK
PRODUCT SUPPLIER	LANDMARK
PRODUCT CODE	K9555
PRODUCT FINISH	AS PROVIDED
PRODUCT COLOUR	AS PROVIDED
PRODUCT FIXING	REFER TO MANUFACTURER'S SPECIFICATIONS

9 950 TOILET BLOCK
IMAGE REFERENCE NTS



10 950 CHRISTIE BRICK IN ELECTRIC PARK COOKING SYSTEM
PLAN & ELEVATION SCALE 1:25

11 950 BIKE TRACK
SECTION SCALE 1:10



12 950 BIKE TRACK
SECTION SCALE 1:10

PRODUCT NAME	YALP FONO DJ BOOTH
PRODUCT SUPPLIER	LAPPSET
PRODUCT CODE	YA3702GA
PRODUCT FINISH	AS PROVIDED
PRODUCT COLOUR	AS PROVIDED
PRODUCT FIXING	REFER TO MANUFACTURER'S SPECIFICATIONS

13 950 SFA DDA TABLE
IMAGE REFERENCE NTS

PRODUCT NAME	CHAIN MESH FENCE
PRODUCT SUPPLIER	-
PRODUCT CODE	-
PRODUCT FINISH	-
PRODUCT COLOUR	-
PRODUCT FIXING	REFER TO MANUFACTURER'S SPECIFICATIONS

14 950 CHAIN MESH FENCE
IMAGE REFERENCE NTS

STANDARD NOTES

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REV	DATE	BY	ISSUE OR AMENDMENT
B	28.05.21	ZF	85% DESIGN DOCUMENTATION
A	12.03.21	IA	50% DESIGN DOCUMENTATION

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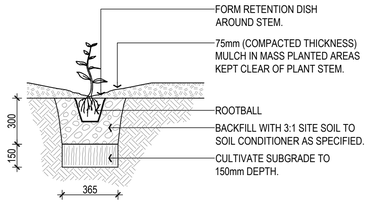
PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA
DRAWING TITLE
FURNITURE DETAILS
CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		

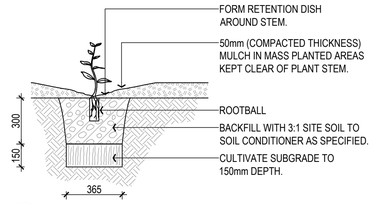
SCALE: AS SHOWN

DRAWING NUMBER: TOVP-02-950
REV: B

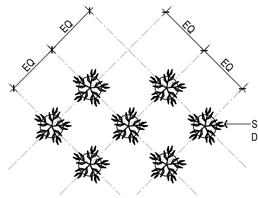
REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVP02 - TAYLOR MCCALLUM RESERVE.DET.DWG



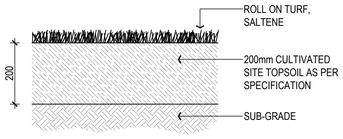
1 970 140mm - 200mm POT PLANTING
SECTION SCALE 1:20



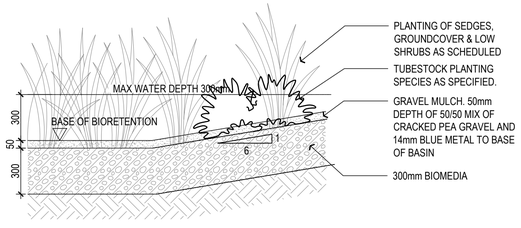
2 970 TYPICAL TUBESTOCK PLANTING
SECTION SCALE 1:20



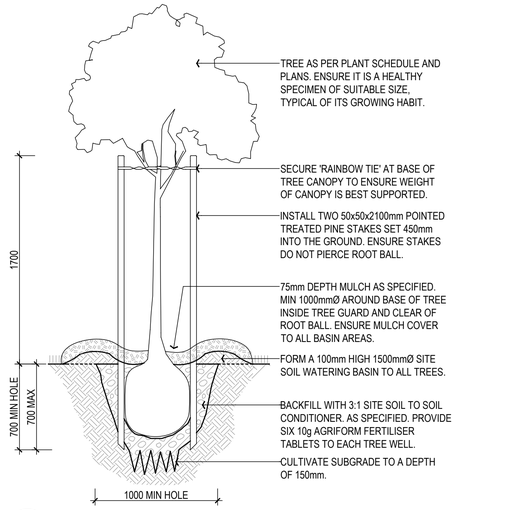
3 970 TYPICAL STAGGERED PLANTING PATTERN
PLAN SCALE 1:20



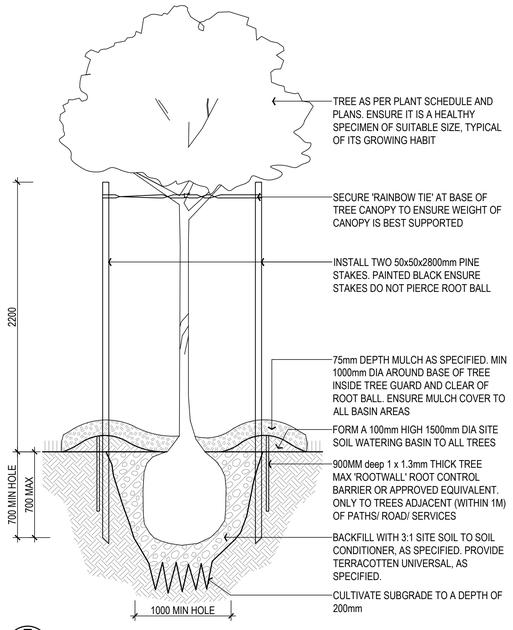
4 970 ROLL-ON TURF AREAS
SECTION SCALE 1:10



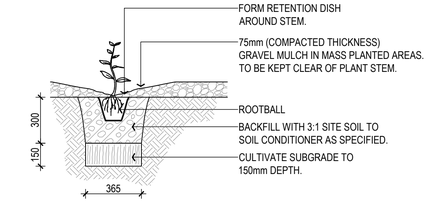
5 970 SWALE PLANTING
SECTION SCALE 1:20



6 970 TYPICAL 100 & 200 LITRE TREE PLANTING
SECTION SCALE 1:25



7 970 TYPICAL 400 & 500 LITRE TREE PLANTING
SECTION SCALE 1:25



8 970 140mm - 200mm POT PLANTING IN GRAVEL
SECTION SCALE 1:20

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PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA
STAGE OR PHASE
ACTIVE AREA
DRAWING TITLE
SOFTWORKS DETAILS
CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		
SCALE	AS SHOWN		
DRAWING NUMBER	TOVP-02-970	REV	B

REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVP02_TAYLOR MCCALLUM RESERVE_DET.DWG

PRELIMINARY
NOT FOR CONSTRUCTION
INFORMATION ONLY

GENERAL NOTES

1. These drawings are to be read in conjunction with all architectural and other consultants' drawings and specifications and with such other written instructions as may be issued. Any discrepancies shall be referred to the superintendent for clarification before proceeding with work.
2. All dimensions are in millimetres and those relevant to setting out (excludes finishes) and offsite work shall be verified by the contractor before construction and fabrication are commenced. The engineer's drawings shall not be scaled.
3. All levels and grid co-ordinates are in metres.
4. During construction the contractor shall be responsible for maintaining the structure in a stable condition and no part shall be over stressed under construction activities.
5. Workmanship and materials shall be in accordance with the current edition of the relevant SAA codes and the by-laws and ordinances of the relevant building authority, except where varied by the contract documents.

DESIGN CRITERIA

1. Dead, live, wind and earthquake loads to AS1170.
2. Design Wind Speed
   Region A
   Terrain Category 2.5
   Regional Gust Wind Speed = 45m/sec (ULTIMATE LIMIT STATE)
   Regional Gust Wind Speed = 37m/sec (SERVICE LIMIT STATE)
3. Earthquake
   kp = 1.0
   Hazard Factor Z = 0.09 (Perth)
4. Foundations
   Site classification as per provided Golder Geotechnical Report 147643038-001-R-RevA with site earth works and site preparation undertaken as per Section 9.2.1.8 or Geotechnical Report. Maximum Allowable bearing pressure of 150kPa.
5. Live Loads

Elevated walkways and play equipment:	4 kPa
Roof construction load:	0.25kPa
Balustrading:	1.5kPa infill (C1/C2 loading as per AS1170.1)

BUILDER NOTE - COMPLIANCE INSPECTIONS

1. As part of the building licence for this project, the builder may be required to have the structural engineer certify the completed structure has been built in accordance with the approved drawings & /or with any subsequent written instructions.
2. If WA Structural Consulting are to provide this certification, the builder must arrange for WA Structural Consulting to inspect each of the structural items at appropriate stages. These items and stages include, but are not limited to the following:,
   2.1. Concrete reinforcement, prior to pouring of concrete in:
      2.1.1. Footing Excavations
      2.1.2. Slabs on ground
      2.1.3. Suspended slabs and beams
      2.1.4. Concrete columns and walls
      2.1.5. Retaining walls
   2.2. Structural steelwork prior to any cladding being fixed.
   2.3. Concrete wall panel connections.
3. The builder must provide appropriate evidence that the specified concrete has been supplied for each concrete element.
4. The builder must provide evidence that the required levels of foundation compaction have been achieved.
5. Where a geotechnical engineer has made specific recommendations, evidence that these have been achieved must be provided.
6. Unless fees for our inspections and certifications have been previously negotiated with WA Structural Consulting by others, these fees will be the builder's responsibility. It is required that the builder negotiate these fees with the engineer at a tender stage.
7. If the builder requires the fabrication drawings to be checked & certified by the project engineer, the costs associated with this will be the builder's responsibility, unless these fees have been previously negotiated with WA Structural Consulting by others. This must be confirmed by the builder.

CONCRETE AND REINFORCEMENT

1. All concrete works shall be in accordance with AS3600.
   Concrete specification shall be U.N.O.:

Location	F'C (MPA)	MAX.AGG SIZE (mm)	SLUMP (mm)
Footings	25	20	65
Pre-cast	32	20	80
Slab on Ground	25	20	65
In Situ Retaining Walls	32	20	60

2. Cover to Reinforcement shall be:

Location	Bottom (mm)	Top (mm)	Sides (mm)
Footing	70	50	50
Pre-cast	50	50	50
Slab on Ground	50	40	50
In Situ Retaining Walls	32	20	60

3. Reinforcement shall be supported on approved plastic or plastic tipped wire chairs and hold rigidly in position as follows:
   a. Bars up to N12 and fabric - 800mm centres
   b. Bars N16 and larger - 1200mm centres
      * Welding reinforcement is not permitted unless approved by engineer.
4. Construction joints shall be scabbled, cleaned and coated with a cement/water slurry immediately prior to placing concrete.
5. Concrete shall be compacted using mechanical vibrators.
6. Concrete shall be cured for a minimum of 7 days by flooding, keeping continuously moist, the application of an approved curing compound or by other means approved by the engineer.
7. No holes or chases other than those shown on the drawings shall be made unless approved by engineer. Pipework passing through footing beams shall be to the approval of the engineer and shall be wrapped with a compressible material of minimum 6mm thickness.
8. Formwork and stripping times shall comply with AS3610. Remove formwork only when concrete has attained its design (f'c) strength unless otherwise instructed by the structural engineer.
9. Control, expansion and contraction joints shall be constructed as detailed. Saw cut joints shall be made within 12 hours of concrete placement.
10. All mesh to conform with AS1304.
11. Reinforcement shall be in accordance with the following standards:

R	Indicates plain reinforcing bar R250N to AS/NZS4671
L	Indicates plain or deformed wire R500L or D500L to AS/NZS4671
RL	Indicates deformed rectangular mesh D500L to AS/NZS4671
SL	Indicates deformed square mesh D500L to AS/NZS4671
N	Indicates deformed bars D500N to AS/NZS4671
S	Indicates deformed bars D250N to AS/NZS4671
TM	Suffix indicates trench mesh using deformed bars D500L to AS/NZS4671

12. All galvanized items which are cast into concrete are to be passivated in a 0.2% sodium dichromate solution or equivalent.
13. All formwork shall be rigidly constructed of approved material. Formwork and supports shall be designed to withstand all possible load combinations during construction.

BAR DIAMETER (LARGEST)	LAP
12	450
16	800
20	1100
24	1500
28	1750
32	2400

NOTE: To be used U.N.O

14. Chemset Anchors U.N.O to be M16 HCR 8.8 rods with HILTI-HIT-HY-200 Adheisive minimum 150mm embeddment. Installed in accordance with Manufacturers Specification and Installation Procedure.

FOUNDATIONS

1. Design is based on an allowable bearing pressure of 150kPa. It is the builder's responsibility to confirm the foundation type prior to commencing construction. Should the foundation type or bearing capacity not satisfy the above criteria the builder shall immediately contact engineer prior to construction proceeding.
2. Builder to grub out and remove all organic material and debris from the building platform.
3. Any soft areas shall be dug out and replaced with approved non-plastic fill.
4. All site preparation works shall be in accordance with Golder Geotechnical Report number 147643038-001-R-RevA Section 9.2.1.8 - Site Preparation with regards to the relevant site.
5. All site compaction works shall comply with Section 9.2.2 of the above noted Geotechnical Report.
6. Ensure a minimum of 8 blows per 300mm is achieved with a calibrated Perth Sand Penetrometer in accordance with AS1289.6.3.3
7. The building platform is to be shaped to ensure it drains to its perimeter and that such drainage is taken away from the platform area.
8. Footings at the lowest level must be the first footings constructed.
9. Located plumbing lines over top of footings and step footings.

MASONRY

1. All blockwork and brickwork shall be in accordance with AS3700
2. Concrete blocks shall be in accordance with AS2733
3. Reinforcement and concrete core filling shall comply with the notes on "concrete and reinforcement".
4. Mortar shall be classification M3 or M4 In accordance with AS3700 2.2
5. Masonry units shall have a minimum compressive strength of 15MPa.
6. As follows:
   a. Bond beam reinforcement shall be continuous at intersecting walls and bars anchored and lapped to develop full tensile stress.
   b. Support reinforced brick lintels for 14 days minimum.
7. Cleanout blocks shall be provided at the base of all cores to be concrete filled. Alternatively the builder shall open such cores for cleaning by an approved method.
8. All cores to be concrete filled shall be cleaned out by hosing prior to final setting or mortar at all lifts or by rodding prior to concrete filling.
9. Retaining walls shall be fully core filled. Backfill to retaining walls shall not be carried out until 14 days after core filling.
10. Provide 10mm stack bonded control joints where shown. Control joint to consist of flexible masonry anchors every 3rd course. Brunswick type MFA 3/3. Apply flexible sealant over backing rod.
11. Cross walls shall be fully bonded for the full height of intersecting wall.
12. Horizontal chasing is not permitted without written approval from the engineer.
13. Lap wires 500mm at splices and around corners and COG 500mm into intersecting walls. 20mm cover to all wires.
14. All wires in external face of external leaf to be galvanised to AS/NZS4680.
15. Masonry ties are to be provided at no more than 600mm spacing in each direction, and max 300mm from top of wall, side of control joint or perimeter of opening.
16. Ties to be grade 316 stainless steel.
17. Masonry abutting concrete footings to typically be isolated with 10mm Ableflex expansion foam or similar approved product UNO.

STRUCTURAL STEEL

1. All steelwork shall be in accordance with:
   AS4100 steel structures
   AS4600 cold formed steel structures
2. Fabricator to check all dimensions before cutting materials or manufacturing. fabrication to AS4100 UON. These drawing are to be read in conjunction with the project architectural and other consultants' drawings.
3. Unless noted otherwise all steel shall be:
   a. AS3678 grade 250 hot rolled plates
   b. AS3679.1 grade 300 hot rolled UB, PFC, TFC, TFB, EA, UA and FLATS
   c. AS3679.2 grade 300 WB and WC
   d. AS1163 grade 250 for circular hollow sections Ø165mm and less
   e. AS1163 grade 350 for circular hollow sections larger than Ø165mm and rectangular hollow sections.
   f. AS1397 500MPa for 1.2mm thick purlins and girts
   g. 450MPa for 1.6mm thick purlins and girts
   h. 450MPa for 1.0 thick CF Channels
   i. 450MPa for 1.6mm thick CF Channels
4. Galvanising shall be hot dipped to AS/NZS 4680
5. Bolts shall be galvanised and of sufficient length to exclude the thread from the shear plane. A suitable washer shall be used under all nuts, when tensioning is specified high strength bolts shall be fully tensioned with load indicating washers to the requirements of AS4100.
6. Bolt legend 4.6/S commercial grade 4.6 bolts snug tightened 8.8/S high strength grade 8.8 bolts snug tightened. 8.8/TB high strength grade 8.8 bolts tensioned bearing connection. 8.8/TF high strength grade 8.8 bolts tensioned friction connection.
7. Unless otherwise specified the following shall apply -
   a. Cleats, brackets, stiffeners etc. to be 10mm thick, ex-standard square edge flats U.N.O.
   b. Welding to be carried out in accordance with AS/NZS 1554. 1:1995 welding consumables to be E48XX or W50X U.N.O. all welds to be 6MM CFW SP category U.N.O CPBW to be SP category U.N.O.
   c. Inspection to be carried to AS/NZS 1554.1:1995. All GP/SP welds to be 100% visually scanned. SP welds allow for 25% visual examination U.N.O.
   d. 6mm end plates to all hollow sections (seal weld).
   e. Bolts to be G 8.8/S
   f. Bolt hole clearance 2mm
   g. Hold down bolt clearance 4mm
   h. Grout - a space for 40mm of 2:1 sand: cement mortar of damp earth consistency under all base plates.
   i. Connections - minimum of 2-M16 8.8/S bolts
   j. Bracing intersects on centrelines and centre of gravity for angles.
8. Fabricator shall allow for all cleats and other fixings required by the supervisor.
9. All column base plates shall be set on 20mm min. of 1:2 cement and sand grout.
10. Seal all open ends of pipes or RHS members. Grind off all visible welds and brand marks to neat appearance where specified.
11. See below:
   a. The contractor shall remain responsible at all times for providing all necessary temporary bracing and other supports during erection, to stabilise the partially constructed building.
   b. Particular attention must be paid to the buckling stability of beams and columns prior to the connection of purlins, girts, fly braces and other bracing elements.
   c. It is the responsibility of the builder to obtain proper technical advice wherever necessary to ensure the partially completed structure is safe from collapse.
12. Treatment:
   All steel connection plate and bolts to be hot dip galvanize (600 g/sqm)
   Holding down bolts - hot dip galvanize (600 g/sqm)
13. Bitumen paint all steelwork for 50mm above ground level / top of footing and 100mm into footing depth with Taubmans Interzone or equivalent

STRUCTURAL TIMBER

1. Structural timber shall comply with AS1720 timber structure code.
2. All timber to be seasoned F14, class 2, strength group SD5, joint group JD2 and treated to suit note 9 below.
3. All timber work to be in accordance with :
   - AS1684 - SAA timber framing code.
   - AS1720 - SAA timber structures code.
4. All timber and steel connections to be in accordance with AS1720.
5. Ensure no knots or gum veins in timber used.
6. Coat all timber in contact with ground with bitumen paint or similar approved.
7. All structural details to be confirmed, checked and site measured by builder prior toconstruction. Report any discrepancies to structural engineer.
8. Treatment :
   - H1 - Interior use, above ground.
   - H2 - Interior use, above ground, subject to termites.
   - H3 - Exterior use, above ground, subject to periodic wetting.
   - H4 - Exterior use, in ground, subject to severe wetting.
   - H5 - Exterior use, in ground, with or in fresh water.
   - H6 - Exposed to marine water.
9. Required bending stress:
   - MGP10 fb = 16 MPa
   - MGP12 fb = 28 MPa
   - GL17 fb = 42 MPa
   - LVL14 fb = 60 MPa
   - LVL15 fb = 42 MPa
   - LVL18 fb = 99 MPa
10. All bolted timber connections to be re-tightened at end of project prior to completion, ensure no splitting of timber occurs.
11. All proprietary systems (floor/wall/roofing) to be installed in strict accordance with
12. manufacturer's specifications and details.
13. Bush Poles :
   - All timber to AS1720.
   - Minimum F11 grade CCA / H4 treated seasoned softwood. S6 strength group.
   - Free from decay, shakes & fractures,resin pockets and surface damage.
   - Heartwood not to exceed 50% of the diameter at each end or be within 35mm from the surface.
14. Bitumen paint all steelwork for 50mm above ground level / top of footing and 100mm into footing depth with Taubmans Interzone or equivalent

HDPE DECKING AND BOARDS

All HDPE battens and other HDPE members to be supplied and installed in strict accordance with manufacturers specification.

PRECAST CONCRETE

All precast units shown are for service conditions only. The contractor is responsible for all casting, lifting, transportation and propping requirements and must satisfy himself that they have been constructed to meet the design criteria noted. Any queries regarding precast concrete units shall be flagged during the tender process. If in doubt, ask.

ROPES AND ROPE CARGO NETS:

All ropes and rope cargo nets to be supplied by specialist rope supplier and be designed to support design loads noted. Supplier to provide proposed connection detail of all ropes and rope cargo elements to supporting structures for review and approval. If provided reactions/connections exceed original design intent, some supporting members may be adjusted to suit.

STANDARD NOTES

1. **SET OUT & DIMENSIONS.** THE CONTRACTOR SHALL SET OUT ALL PATHS, WALLS, HARD SURFACES AND ELEMENTS EITHER ON OR OFFSITE PRIOR TO CONSTRUCTION AND SHALL OBTAIN THE SUPERINTENDENTS SET OUT APPROVAL PRIOR TO WORKS COMMENCING. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. CHECK ALL DRAWING SCALES IN CONJUNCTION WITH DRAWING SIZE.
2. **SERVICES & SITE ASSETS.** THE CONTRACTOR SHALL INVESTIGATE THE NATURE AND LOCATION OF ALL EXISTING SERVICES AND RETAINED SITE ASSETS AFFECTED BY THEIR WORKS. FAILURE TO TAKE DUE CARE SHALL NOT LIMIT THE CONTRACTORS LIABILITIES.
3. **REFERENCE.** THE CONTRACTOR SHALL REFER TO ALL CONTRACT DOCUMENTS, THE SPECIFICATION AND DRAWINGS PRIOR TO AND DURING THE WORKS.
4. **DISCREPANCIES.** NOTIFY SUPERINTENDENT OF ANY SUSPECTED OR KNOWN DISCREPANCIES OR ERRORS PRIOR TO THE ORDERING OF AFFECTED MATERIALS AND OR CONSTRUCTION OF AFFECTED WORKS.
5. **RELEVANT STANDARDS.** THE CONTRACTOR SHALL UNDERTAKE ALL PRICING AND WORKS IN ACCORDANCE WITH CURRENT INDUSTRY BEST PRACTICE AND ALL RELEVANT AUSTRALIAN STANDARDS.
6. **SERVICE LOCATOR.** THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG PROCESS PRIOR TO COMMENCING WORKS ON SITE. THE CONTRACTOR SHALL ENGAGE A SERVICE LOCATOR TO MAP THE SPECIFIC LOCATIONS AND DEPTH OF ALL SERVICES AND ADVISE ALL RELEVANT STAFF AND SUBCONTRACTORS IN WRITING PRIOR TO COMMENCING WORKS ON SITE.

REV	DATE	BY	ISSUE OR AMENDMENT
B	28.05.21	ZF	85% DESIGN DOCUMENTATION
A	12.03.21	IA	50% DESIGN DOCUMENTATION

THIS IS AN UNCONTROLLED DOCUMENT ISSUED FOR INFORMATION ONLY UNLESS SIGNED BELOW AT EACH RELEVANT STAGE.

INTERNAL DESIGN REVIEW
THIS DESIGN IS NOT AUTHORISED WITHOUT BEING INTERNALLY REVIEWED AND IS SIGNED HERE — EMERGE DIRECTOR — DATE

INTERNAL PRETENDER REVIEW
THIS DRAWING IS NOT AUTHORISED FOR TENDER WITHOUT BEING INTERNALLY REVIEWED AND IS SIGNED HERE — EMERGE DIRECTOR — DATE

AUTHORISED FOR CONSTRUCTION
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emerge ASSOCIATES
Integrated Science & Design
PERTH (08) 9380 4988 • MARGARET RIVER (08) 9758 8159

PROJECT
TAYLOR MCCALLUM RESERVE
VICTORIA PARK WA

STAGE OR PHASE
ACTIVE AREA

DRAWING TITLE
NOTES

CLIENT
TOWN OF VICTORIA PARK

DESIGNED BY	ZF	PRELIM DESIGN REVIEWED BY	ZF
DRAWN BY	BM	PRELIM DWG REVIEWED BY	ZF
DATE INITIALLY DRAWN	MAR 2021		
SCALE	AS SHOWN		
DRAWING NUMBER	TOVP-02-980	REV	B

REF: E:\WORK\EMERGE\MCCALLUM PARK\TOVP02_TAYLOR MCCALLUM RESERVE_DET.DWG

PRELIMINARY
NOT FOR CONSTRUCTION
INFORMATION ONLY

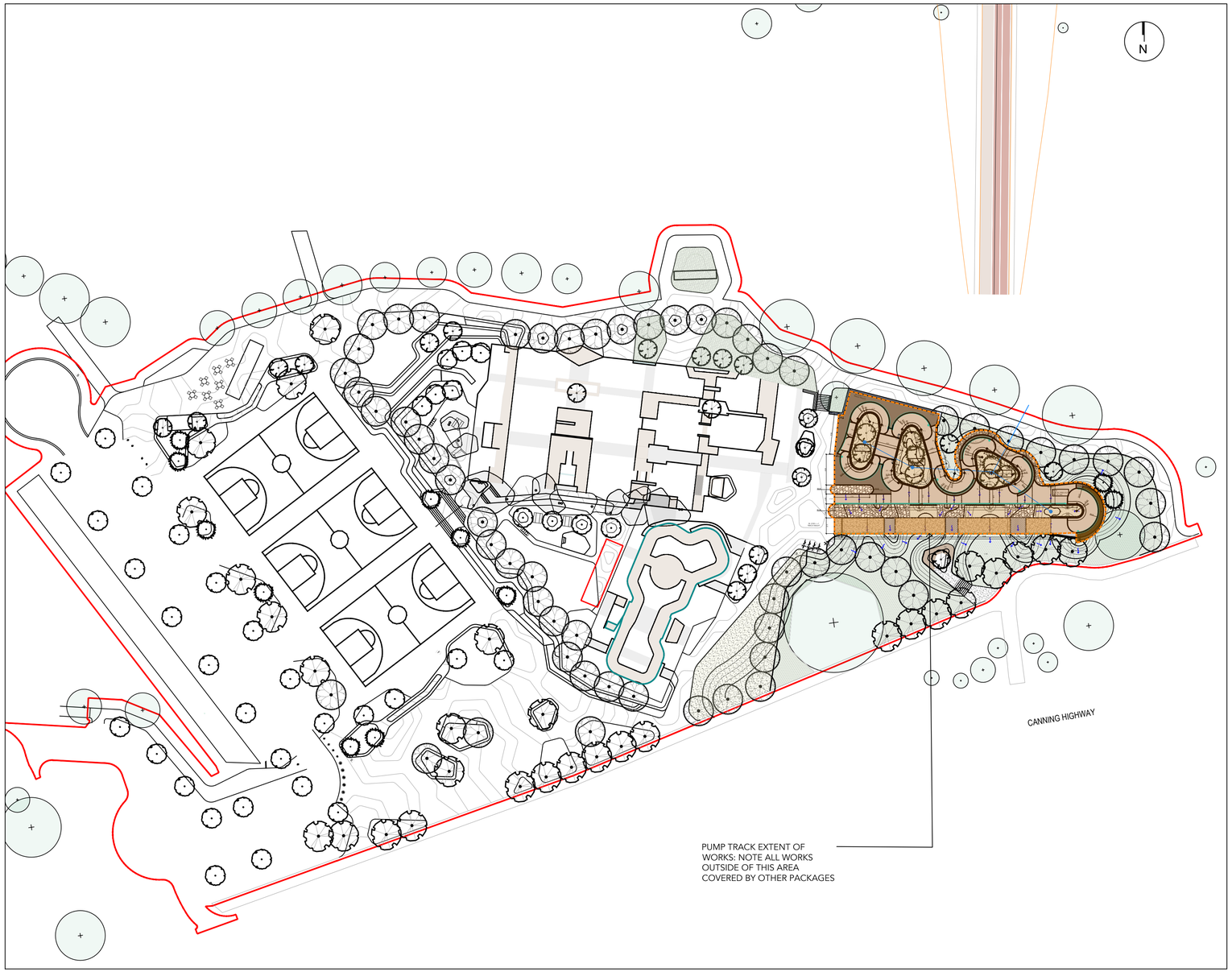
McCallum Park Active Area

PERTH, WA

PUMP TRACK & JUMP LINE WORKS

CLIENT: TOWN OF VICTORIA PARK
ISSUE: 85% FOR REVIEW
REVISION: B

DATE: MAY 2021



COMMON GROUND

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GENERAL NOTES

GENERAL:
1. Drawings to be read in conjunction with the project Landscape Architect and Civil Engineers documentation

SITE:
1. Contractor to verify location of and isolate all existing services prior to commencement of works (locations shown on plans are approximate). All existing services to be retained and protected throughout construction unless noted otherwise

2. Height datum and site set out to be located on site by licensed surveyor. New works to be setout from local grid and locations double checked for discrepancies from known fixed points on site

3. Site scrape/excavate only as shown on the drawings. Any additional excavation to be approved by superintendent prior to being undertaken

4. Contractor to check all dimensions as shown. Any discrepancies or lack of clarity shall be indicated by contractor to designer (Common Ground Trails) for clarification in writing prior to works commencing/continuing

5. Contractor to ensure all existing trees and existing site features are retained and protected throughout construction unless noted otherwise

CLEARING:
1. Refer to Civil drawings for earthworks and clearing

TOPSOIL:
1. Site topsoil to be stripped and stockpiled by others prior to pump track contractor taking possession of the site. Topsoil shall only be re-spread if suitable for such use. Often, this is not suitable in areas with highly plastic soils and high natural groundwater levels. It is also not suitable in areas of medium to high-risk acid sulphate soils.

2. When earthworks have been completed, the topsoil should be re-spread to a compacted depth as specified over all areas of earthworks to match approved finished surface levels.

SUBGRADE:
1. The sub-grade shall be boxed out (where required) and compacted to provide even compaction to a depth of 150mm. Compaction shall not be less than 90 per cent of maximum dry density (standard compaction) when measured in accordance with AS 1289: Methods of Testing Soils for Engineering Purposes

2. The formation shall be excavated in conformity with profiles, dimensions, camber and depths shown on the approved drawings. Tolerance for sub-grade width shall be ±100mm. The finished levels of sub-grade shall be within ±30mm of design levels.

BASECOURSE & FILL:
1. Basecourse and imported fill material to be in alignment with the IPWEA/WALGA (Institute of Public Works Engineering Australasia and WA Local Government Association) Specifications.

2. Granular basecourse to be laid in accordance with the design levels. Minimum thickness of Basecourse shall be 200mm and minimum thickness and width shall extend 300mm beyond the edge of the asphalt wearing course.

3. Basecourse and fill material shall be placed so that sub-grade material is not disturbed or broken up and an even thickness as specified is obtained.

4. Basecourse and fill material shall be spread to the required compacted thickness by means of an approved machine or lifting in continuous stacks deposited on the sub-base to achieve density requirements

5. Base course and fill material shall be watered, compacted and cut to shapes as specified in the approved drawings.

6. The base course shall be compacted to not less than 90 per cent of the maximum dry density (standard compaction) when tested in accordance with AS 1289:Method of Testing Soils for Engineering Purposes.

7. Thickness of the base course after compaction shall be as specified on the approved drawings with a tolerance of ±50mm.

8. Smooth transitions are of high importance in asphalt pump truck construction. Contractor is to ensure sharp changes in the surface are reworked prior to sealing.

9. All new and disturbed finished earth areas to be neat, clean, presentable and evenly graded to tie into natural ground levels. Earth surface shall be graded away from hardscape to ensure no pooling of water occurs against hardscape edges

DRAINAGE
1. Refer to Civil drawings for drainage coordination

2. Refer to Civil drawings for drainage pit and shared trench details.

3. Site datum: Project RL 0.0m = 14.5m AHD

4. All levels are Relative Levels (RL) unless otherwise noted (AHD). All dimensions in millimetres (mm) unless noted otherwise (m)

5. All stormwater pits to be minimum 1070x900mm concrete stormwater pits with 1300x150mm concrete well cover with cycle safe grate raised 50mm

6. All covers and grates to be cycle-safe wave-grates or similar to minimum as 3996 Class B

7. All grated lids to be bolted shut.

8. Top of grates (TOG) to be below surrounding finished ground level

9. Location of pits shown is indicative only. Final setout locations to be verified on site considering retained vegetation. Contractor is to ensure that pits are located so that runoff contained within low points is captured.

10. All pipes to be minimum 150mm UPVC class SN2 to AS/NZS 1254 with minimum 400 mm cover and minimum fall of 1%

11. All drainage to be installed by a competent contractor with appropriate experience.

12. Sags are to be constructed with a 3%-5% crossfall to ensure storm-water drains to nominated low points.

13. Contractor to identify and protect all underground services throughout construction.

PRIMER:
1. The surface of the base course shall be primer-sealed in accordance with Bituminous Surfacing Volume 1, Sprayed Works (Austroads, 1989) prior to application of the wearing course.

2. The surface of the base course shall be swept free from loose stones, dust, dirt and foreign matter so as not to damage the finished surface of the base course prior to application of the binder.

3. Sweeping shall be completed immediately before the application of the primer. All sweepings shall be completely removed from the track and disposed of in an appropriate manner.

ASPHALT:
1. Surface preparation, which includes sweeping, chipping and burning off rich fat areas, shall be carried out immediately before applying the tack coat. No asphalt shall be placed upon any area which contains an excess of binder in such quantity that there is any possibility of the binder coming to the surface of the new work

2. The tack coat shall be laid in accordance with AS 2734: Asphalt (Hot-mixed) Paving – Guide to Good Practice. The bituminous emulsion shall comply with requirements of AS 1160:Bituminous Emulsions for Construction and Maintenance of Pavements

3. No asphalt shall be laid on the tack coat until the emulsion has broken and the water has substantially evaporated.

4. Asphalt shall be laid upon a base which is clean and dry and in dry weather conditions with the atmospheric temperature above 10°C.

5. Prior to the delivery of asphalt to the construction site, the prepared base shall be cleaned of all loose or foreign material. The mixture shall be delivered on site in accordance with requirements of AS 2150 – Hot Mix Asphalt and AS 2734 – Asphalt (Hot-mixed) Paving – Guide to Good Practice, unless otherwise approved. Asphalt mix to be AC5 - AC7

6. The mixture shall be spread to such line, level and camber detailed in the approved drawings in a single layer and compacted to give the average compacted thickness specified.

7. Thickness tolerance shall be ±10mm.

8. Mixing and placing asphalt will not be permitted when the surface of the track is wet, or cold winds chill the mix to the extent that spreading and compaction are adversely affected. The surface on which the asphalt is to be laid shall be free from ponding water.

9. The temperature of the mix when it is spread shall not be less than 135°C. Spreading shall proceed without undue delay and initial rolling of the mix shall commence at a temperature of not less than 120°C.

10. Uniform compaction to the required density shall be achieved before the temperature of the mix falls to 80°C.

11. The contractor shall ensure that the complete operation from mixing to final compaction is maintained within the specified temperature ranges.

12. Asphalt shall be spread in such a manner as to minimise the number of joints in the surface.

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CLIENT
TOWN OF VICTORIA PARK

SCALE
1:100 @ A1

DRAWN
MA

PROJECT NUMBER
2010

DATE
11.03.2021

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PROJECT NORTH

REV	ISSUE	DATE
A	PRELIM ISSUE FOR INFORMATION	17/02/21
B	ISSUE FOR REVIEW	29/05/21

PROJECT
McCALLUM PARK ACTIVE AREA
PERTH WA

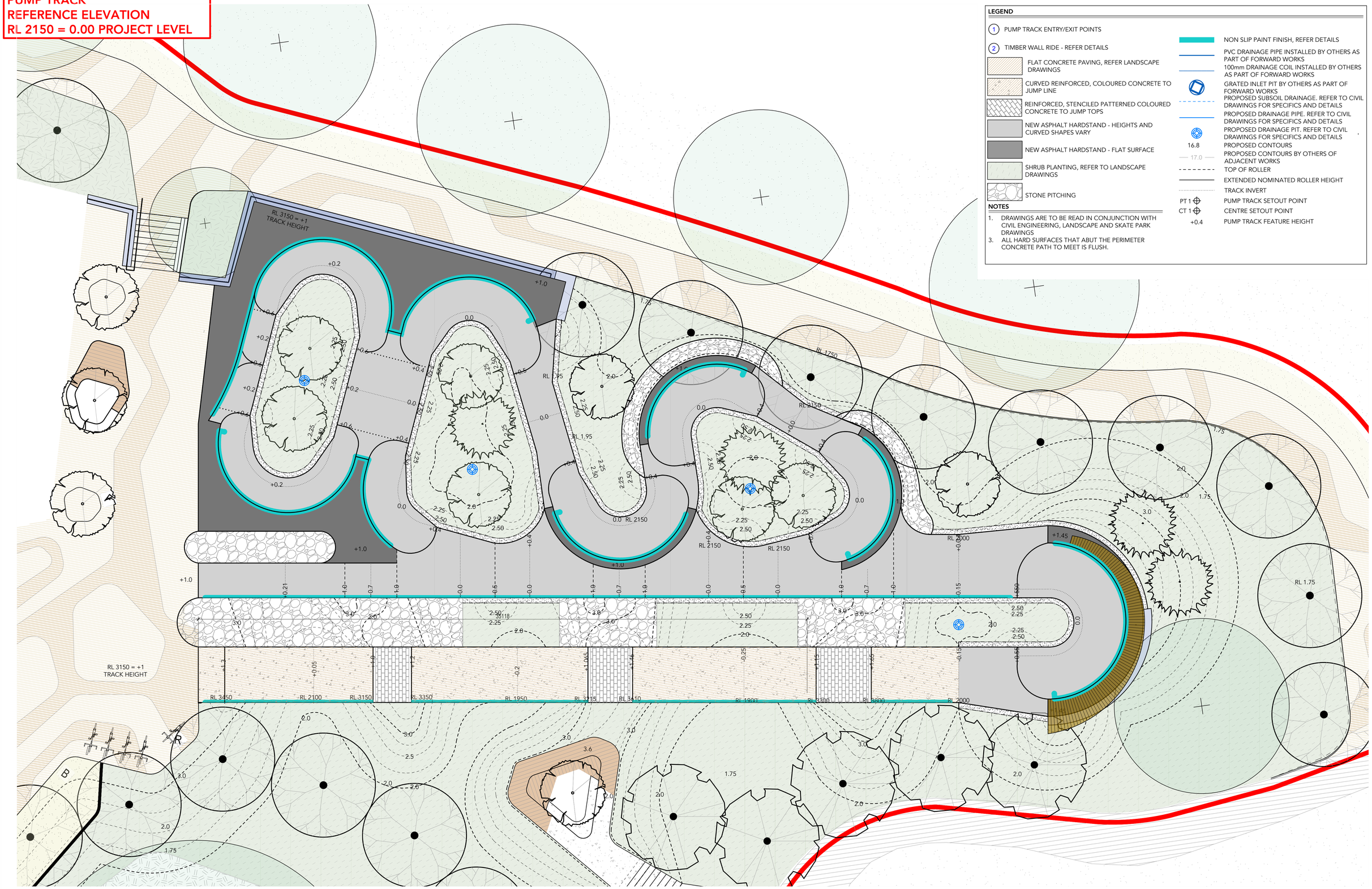
DRAWING TITLE
GENERAL NOTES

DRAWING NUMBER
2010-TBC

REVISION
B

ISSUE
85% ISSUE FOR REVIEW

PUMP TRACK
REFERENCE ELEVATION
RL 2150 = 0.00 PROJECT LEVEL



LEGEND

1. PUMP TRACK ENTRY/EXIT POINTS
2. TIMBER WALL RIDE - REFER DETAILS

- FLAT CONCRETE PAVING, REFER LANDSCAPE DRAWINGS
- CURVED REINFORCED, COLOURED CONCRETE TO JUMP LINE
- REINFORCED, STENCILED PATTERNED COLOURED CONCRETE TO JUMP TOPS
- NEW ASPHALT HARDSTAND - HEIGHTS AND CURVED SHAPES VARY
- NEW ASPHALT HARDSTAND - FLAT SURFACE
- SHRUB PLANTING, REFER TO LANDSCAPE DRAWINGS
- STONE PITCHING

- NON SLIP PAINT FINISH, REFER DETAILS
- PVC DRAINAGE PIPE INSTALLED BY OTHERS AS PART OF FORWARD WORKS
- 100mm DRAINAGE COIL INSTALLED BY OTHERS AS PART OF FORWARD WORKS
- GRATED INLET PIT BY OTHERS AS PART OF FORWARD WORKS
- PROPOSED SUBSOIL DRAINAGE. REFER TO CIVIL DRAWINGS FOR SPECIFICS AND DETAILS
- PROPOSED DRAINAGE PIPE. REFER TO CIVIL DRAWINGS FOR SPECIFICS AND DETAILS
- PROPOSED DRAINAGE PIT. REFER TO CIVIL DRAWINGS FOR SPECIFICS AND DETAILS
- 16.8 PROPOSED CONTOURS
- 17.0 PROPOSED CONTOURS BY OTHERS OF ADJACENT WORKS
- TOP OF ROLLER
- EXTENDED NOMINATED ROLLER HEIGHT
- TRACK INVERT
- PT 1 PUMP TRACK SETOUT POINT
- CT 1 CENTRE SETOUT POINT
- +0.4 PUMP TRACK FEATURE HEIGHT

NOTES

1. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH CIVIL ENGINEERING, LANDSCAPE AND SKATE PARK DRAWINGS
3. ALL HARD SURFACES THAT ABUT THE PERIMETER CONCRETE PATH TO MEET IS FLUSH.

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PROJECT NUMBER
2010

PROJECT NORTH

REV	ISSUE	DATE
A	PRELIM ISSUE FOR INFORMATION	17/02/21
B	ISSUE FOR REVIEW	29/05/21

PROJECT
McCALLUM PARK ACTIVE AREA
PERTH WA

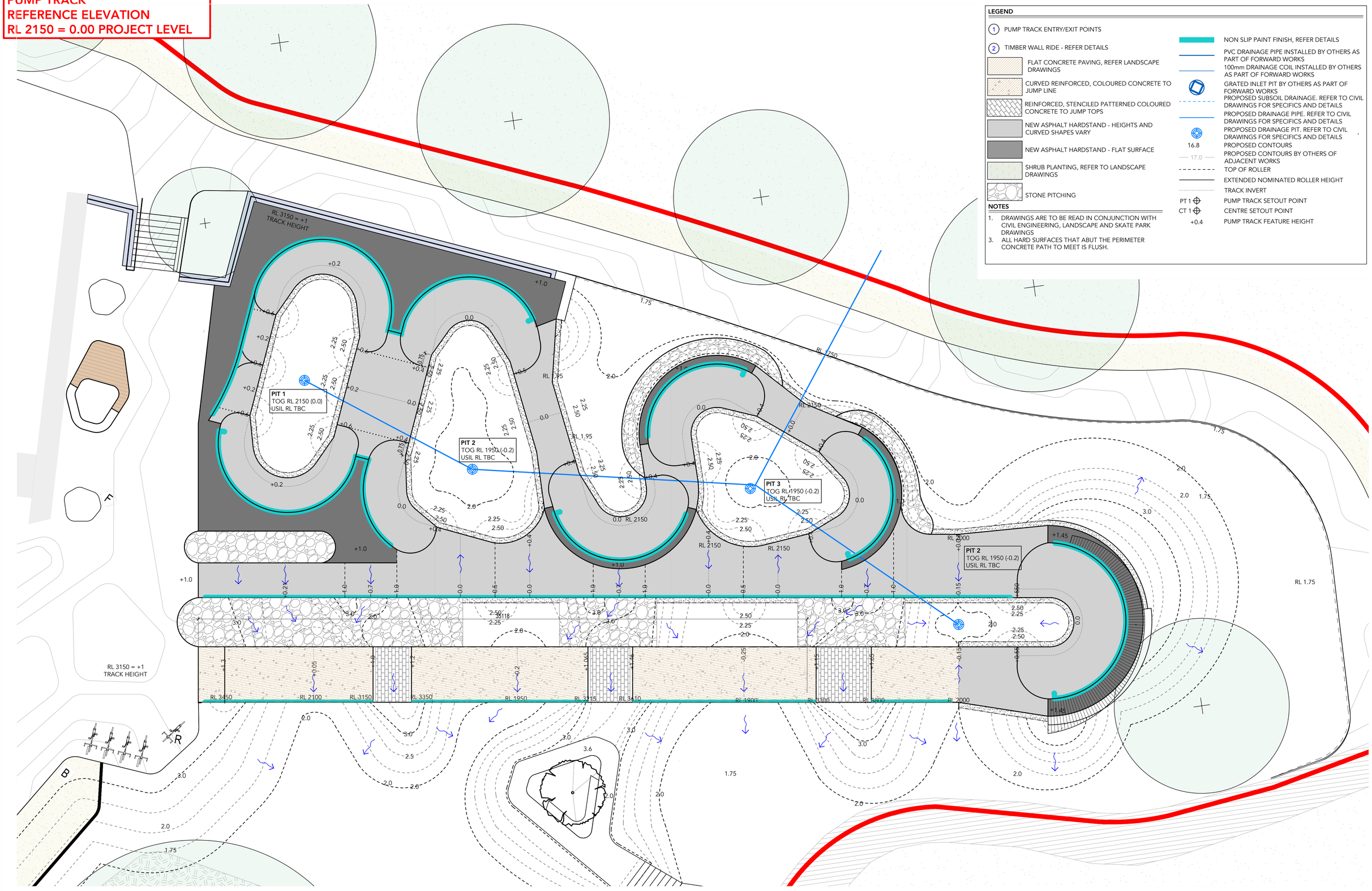
DRAWING TITLE
PUMP TRACK SITE PLAN

DRAWING NUMBER
2010-TBC

REVISION
B

ISSUE
85% ISSUE FOR REVIEW

PUMP TRACK
REFERENCE ELEVATION
RL 2150 = 0.00 PROJECT LEVEL



LEGEND

- (1) PUMP TRACK ENTRY/EXIT POINTS
- (2) TIMBER WALL RIDE - REFER DETAILS
- FLAT CONCRETE PAVING, REFER LANDSCAPE DRAWINGS
- CURVED REINFORCED, COLOURED CONCRETE TO JUMP LINE
- REINFORCED, STENCILED PATTERNED COLOURED CONCRETE TO JUMP TOPS
- NEW ASPHALT HARDSTAND - HEIGHTS AND CURVED SHAPES VARY
- NEW ASPHALT HARDSTAND - FLAT SURFACE
- SHRUB PLANTING, REFER TO LANDSCAPE DRAWINGS
- STONE PITCHING

- NON SLIP PAINT FINISH, REFER DETAILS
- PVC DRAINAGE PIPE INSTALLED BY OTHERS AS PART OF FORWARD WORKS
- 100mm DRAINAGE COIL INSTALLED BY OTHERS AS PART OF FORWARD WORKS
- GRATED INLET PIT BY OTHERS AS PART OF FORWARD WORKS
- PROPOSED SUBSOIL DRAINAGE. REFER TO CIVIL DRAWINGS FOR SPECIFICS AND DETAILS
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- 16.8 PROPOSED CONTOURS
- 17.0 PROPOSED CONTOURS BY OTHERS OF ADJACENT WORKS
- TOP OF ROLLER
- EXTENDED NOMINATED ROLLER HEIGHT
- TRACK INVERT
- PT 1 PUMP TRACK SETOUT POINT
- CT 1 CENTRE SETOUT POINT
- +0.4 PUMP TRACK FEATURE HEIGHT

NOTES

1. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH CIVIL ENGINEERING, LANDSCAPE AND SKATE PARK DRAWINGS
3. ALL HARD SURFACES THAT ABUT THE PERIMETER CONCRETE PATH TO MEET IS FLUSH.

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CLIENT
TOWN OF VICTORIA PARK

SCALE
1:100 @ A1

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PROJECT NUMBER
2010

PROJECT NORTH

REV	ISSUE	DATE
A	PRELIM ISSUE FOR INFORMATION	17/02/21
B	ISSUE FOR REVIEW	29/05/21

PROJECT
McCALLUM PARK ACTIVE AREA
PERTH WA

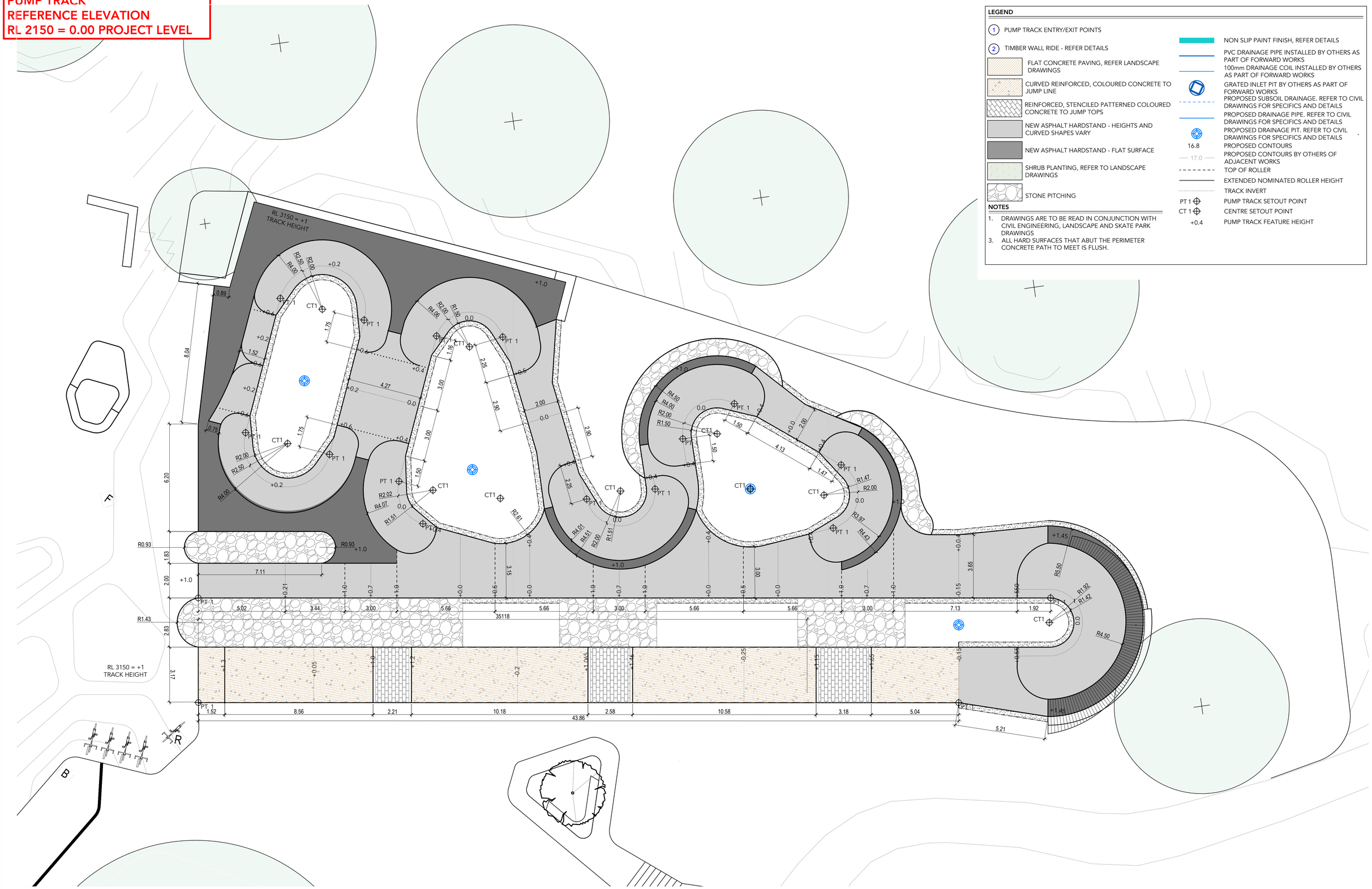
DRAWING TITLE
PUMP TRACK DRAINAGE PLAN

DRAWING NUMBER
2010-TBC

REVISION
B

ISSUE
FOR INFORMATION

PUMP TRACK
REFERENCE ELEVATION
RL 2150 = 0.00 PROJECT LEVEL



LEGEND

- (1) PUMP TRACK ENTRY/EXIT POINTS
- (2) TIMBER WALL RIDE - REFER DETAILS
- FLAT CONCRETE PAVING, REFER LANDSCAPE DRAWINGS
- CURVED REINFORCED, COLOURED CONCRETE TO JUMP LINE
- REINFORCED, STENCILED PATTERNED COLOURED CONCRETE TO JUMP TOPS
- NEW ASPHALT HARDSTAND - HEIGHTS AND CURVED SHAPES VARY
- NEW ASPHALT HARDSTAND - FLAT SURFACE
- SHRUB PLANTING, REFER TO LANDSCAPE DRAWINGS
- STONE PITCHING

- NON SLIP PAINT FINISH, REFER DETAILS
- PVC DRAINAGE PIPE INSTALLED BY OTHERS AS PART OF FORWARD WORKS
- 100mm DRAINAGE COIL INSTALLED BY OTHERS AS PART OF FORWARD WORKS
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- PROPOSED SUBSOIL DRAINAGE. REFER TO CIVIL DRAWINGS FOR SPECIFICS AND DETAILS
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- +0.4 PUMP TRACK FEATURE HEIGHT

NOTES

1. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH CIVIL ENGINEERING, LANDSCAPE AND SKATE PARK DRAWINGS
3. ALL HARD SURFACES THAT ABUT THE PERIMETER CONCRETE PATH TO MEET IS FLUSH.

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TOWN OF VICTORIA PARK

SCALE
1:100 @ A1

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PROJECT NUMBER
2010

PROJECT NORTH

REV	ISSUE	DATE
A	PRELIM ISSUE FOR INFORMATION	17/02/21
B	ISSUE FOR REVIEW	29/05/21

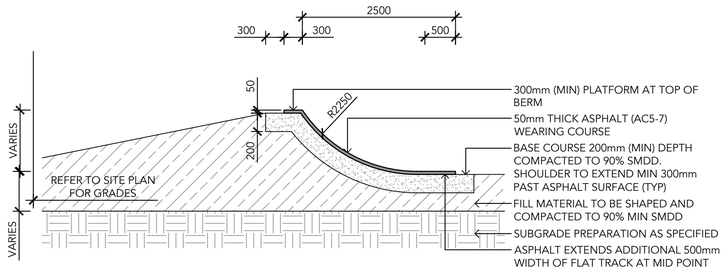
PROJECT
McCALLUM PARK ACTIVE AREA
PERTH WA

DRAWING TITLE
PUMP TRACK SET OUT PLAN

DRAWING NUMBER
2010-TBC

REVISION
B

ISSUE
FOR INFORMATION



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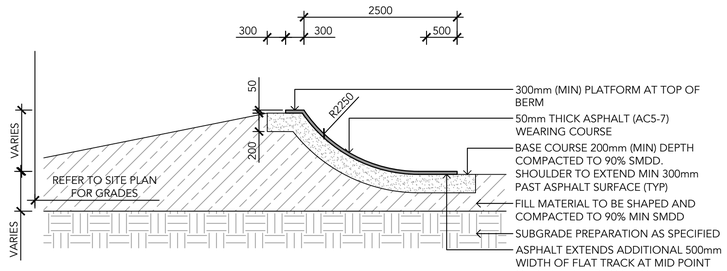
1:50 @ A1



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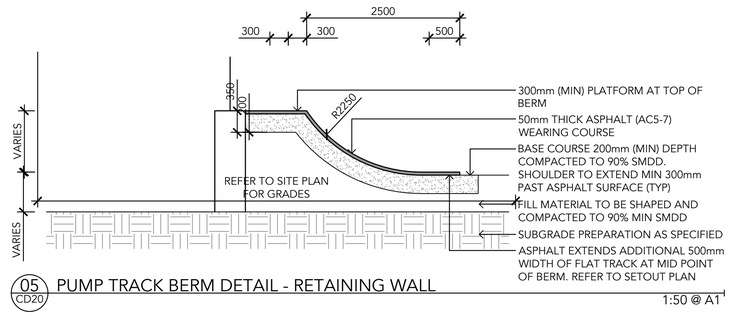

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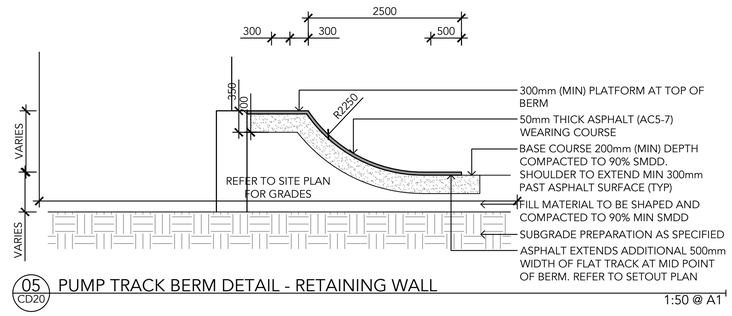
1:50 @ A1



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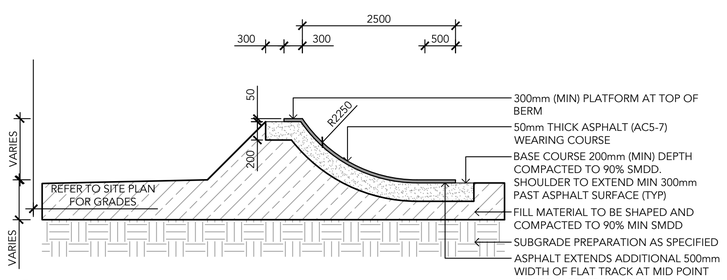

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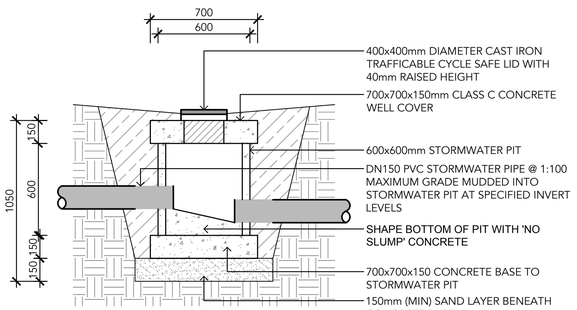
1:50 @ A1



09 CD30 STORMWATER PIT DETAIL

1:20 @ A1

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CLIENT
TOWN OF VICTORIA PARK

SCALE
AS SHOWN @ A1

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DATE
11.03.2021

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PROJECT NUMBER
2010

PROJECT NORTH

REV	ISSUE	DATE
A	PRELIM ISSUE FOR INFORMATION	17/02/21
B	ISSUE FOR REVIEW	29/05/21

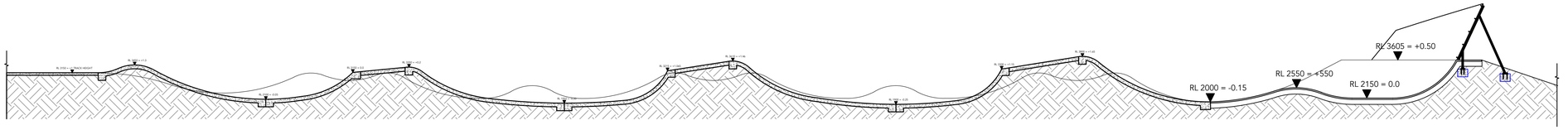
PROJECT
McCALLUM PARK ACTIVE AREA
PERTH WA

DRAWING TITLE
PUMP TRACK TYPICAL DETAILS

DRAWING NUMBER
2010-TBC

REVISION
B

ISSUE
85% ISSUE FOR REVIEW



05 CD20 JUMP LINE LONG SECTION
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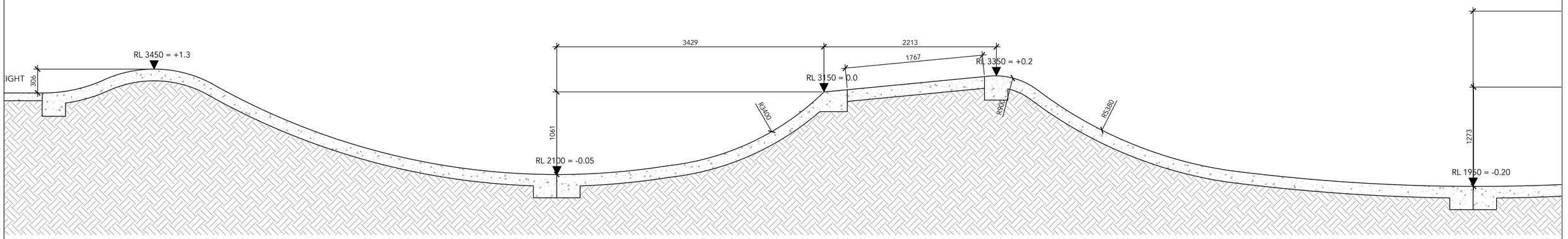

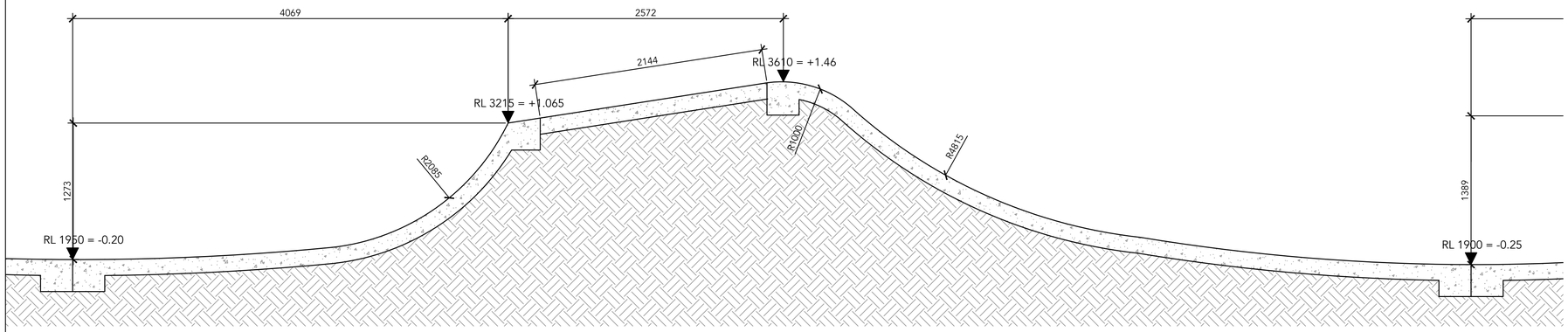

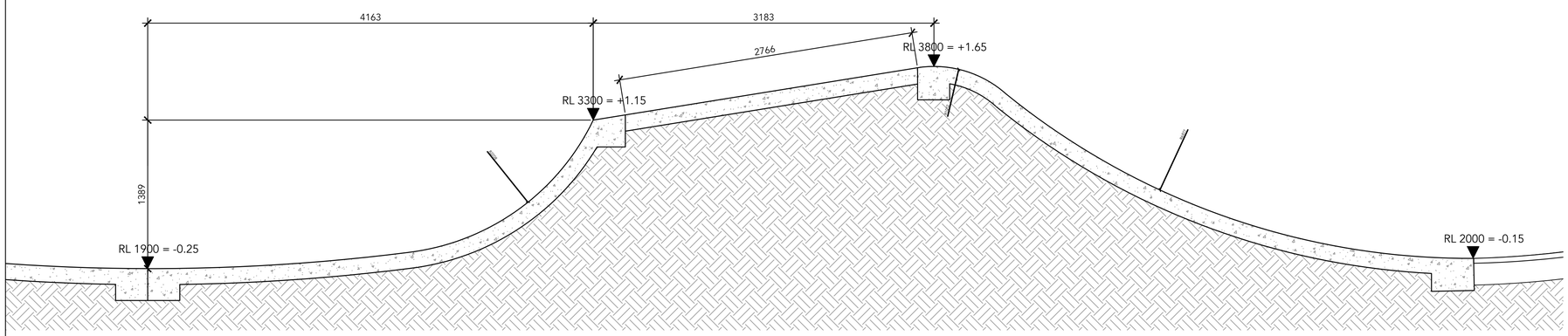

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PROJECT NORTH

REV	ISSUE	DATE
A	PRELIM ISSUE FOR INFORMATION	17/02/21
B	ISSUE FOR REVIEW	29/05/21

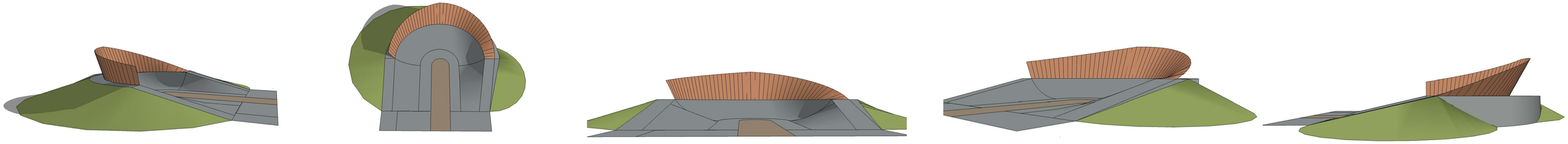
PROJECT
McCALLUM PARK ACTIVE AREA
PERTH WA

DRAWING TITLE
JUMP LINE DETAILS

DRAWING NUMBER
2010-TBC

REVISION
B

ISSUE
85% ISSUE FOR REVIEW

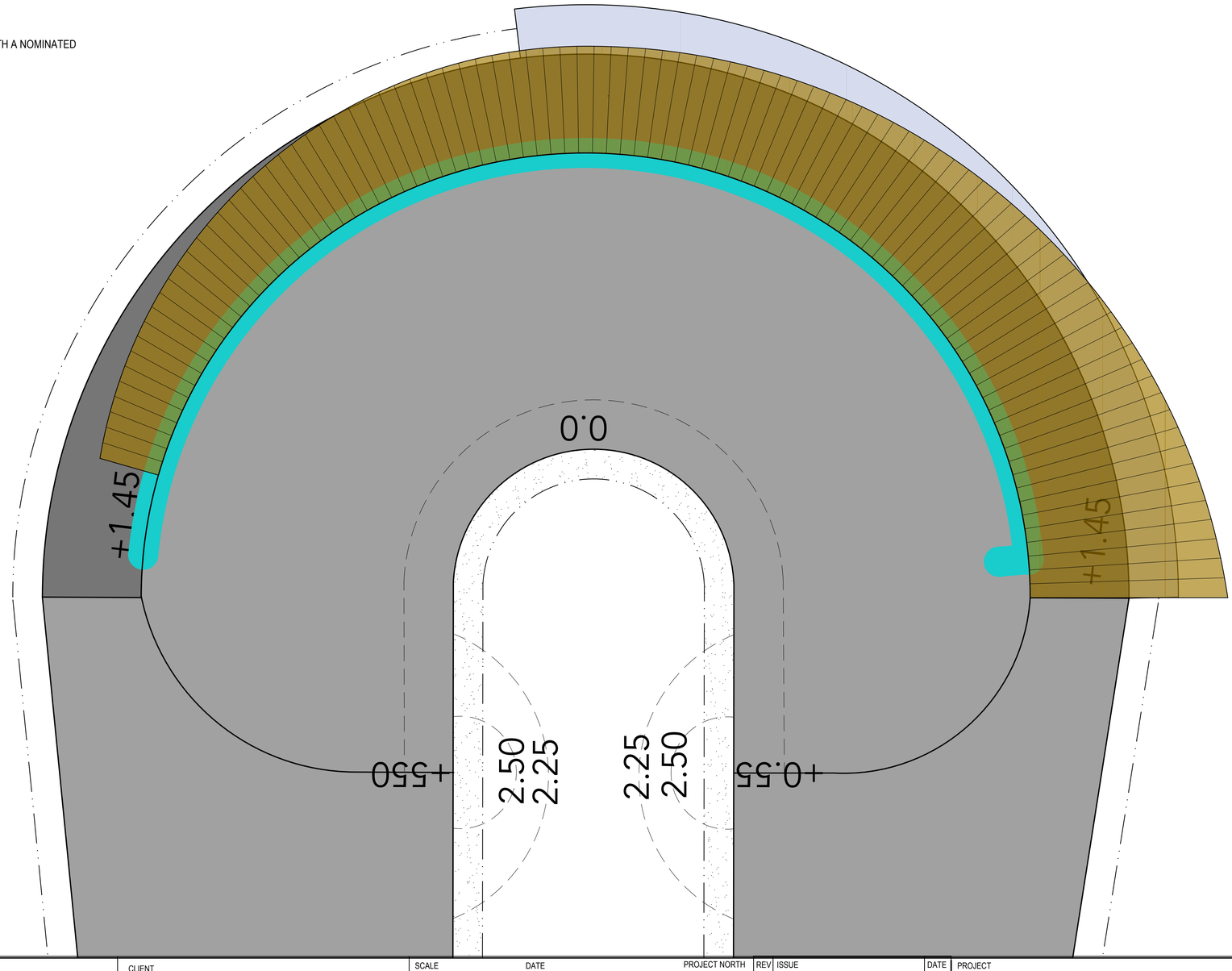


UNDER DEVELOPMENT

TIMBER AND STEEL WALL RIDE. COMPLEX GEOMETRY UNIQUE FEATURE NOT PREVIOUSLY INCLUDED IN A PUMP TRACK.

MARQUEE ELEMENT TO SIT ON TOP OF JUMP LINE RETURN BERM.

CONSTRUCTION DOCUMENTATION MAY REQUIRE COLLABORATION WITH A NOMINATED FABRICATOR TO ENSURE DESIRED RESULTS ACHIEVED ON BUDGET



COMMON GROUND

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info@trails.com.au

P.O. Box 122
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ABN 511 623 52776
ACN 162 352 776

CLIENT
TOWN OF VICTORIA PARK

SCALE
AS SHOWN @ A1

DRAWN
MA

PROJECT NUMBER
2010

DATE
11.03.2021

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JS

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PROJECT
McCALLUM PARK ACTIVE AREA
PERTH WA

DRAWING TITLE
WALL RIDE PLAN - 3DS

DRAWING NUMBER
2010-TBC

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B

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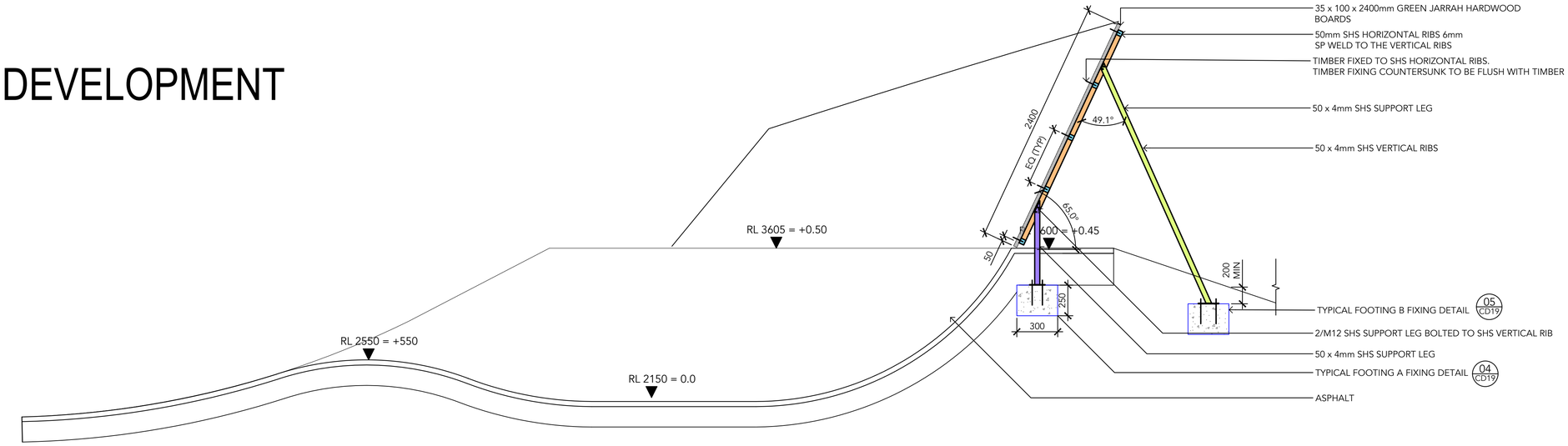
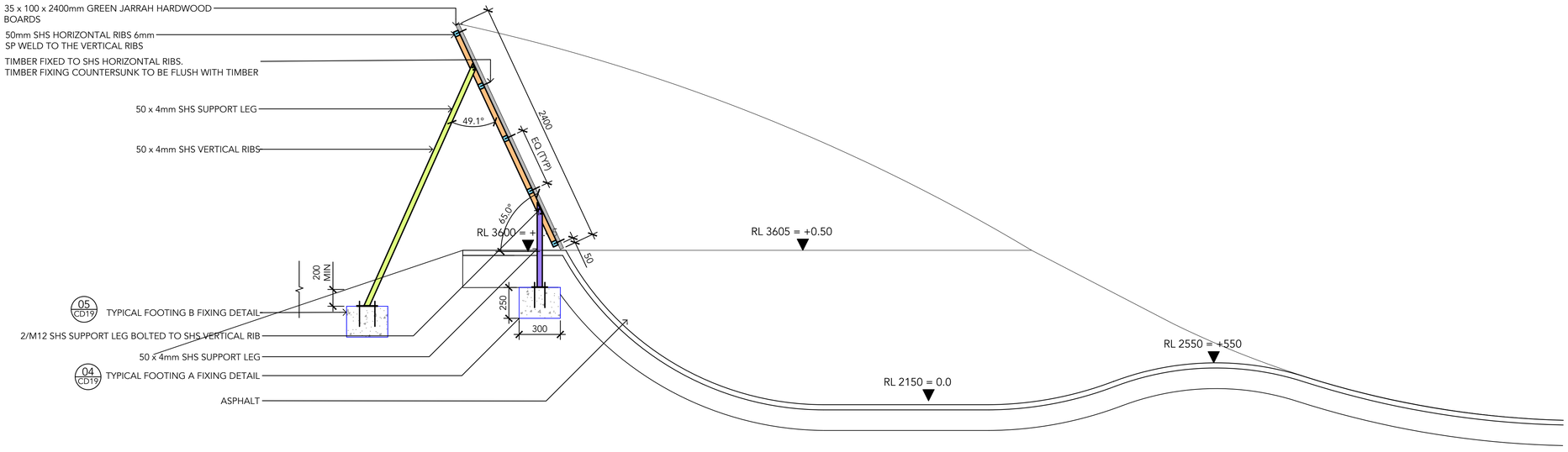
UNDER DEVELOPMENT



05 CD20 WALL RIDE - BERM

1:50 @ A1



05 CD20 WALL RIDE - BERM

1:50 @ A1

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PROJECT
McCALLUM PARK ACTIVE AREA
PERTH WA

DRAWING TITLE
WALL RIDE SECTIONS

DRAWING NUMBER
2010-TBC

REVISION
B

ISSUE
85% ISSUE FOR REVIEW

MCCALLUM PARK - SKATEPARK WORKS

ISSUE FOR: 85% REVIEW

CLIENT: TOWN OF VICTORIA PARK

LOCATION PLAN

NTS

DRAWING INDEX	
Sheet Number	Sheet Title
MP-SP-CVR	SKATEPARK COVER PAGE
MP-SP-L00	SITE CONTEXT PLAN
MP-SP-00N	GENERAL NOTES
MP-SP-L01A	SKATEPARK PLAN
MP-SP-L01B	SKATEPARK PLAN
MP-SP-P01A	DIMENSIONS PLAN
MP-SP-P01B	DIMENSIONS PLAN
MP-SP-P02A	ORDINATE PLAN
MP-SP-P02B	ORDINATE PLAN
MP-SP-P03A	GRADING PLAN
MP-SP-P03B	GRADING PLAN
MP-SP-P04A	STEEL EDGING PLAN
MP-SP-P04B	STEEL EDGING PLAN
MP-SP-P05A	CONCRETE SURFACES PLAN
MP-SP-P05B	CONCRETE SURFACES PLAN
MP-SP-D01	DETAILS SHEET 1
MP-SP-D02	DETAILS SHEET 2
MP-SP-D03	DETAILS SHEET 3
MP-SP-D04	DETAILS SHEET 4
MP-SP-D05	DETAILS SHEET 5
MP-SP-D06	DETAILS SHEET 6
MP-SP-TD01	TYPICAL DETAILS SHEET 1
MP-SP-TD02	TYPICAL DETAILS SHEET 2
MP-SP-TD03	TYPICAL DETAILS SHEET 3
MP-SP-TD04	TYPICAL DETAILS SHEET 4

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STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

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PROJECT
McCALLUM PARK SKATEPARK
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TOWN OF VICTORIA PARK

N

SCALE @ A1:
NA

SKATEPARK COVER PAGE

DRAWING NUMBER:
MP-SP-CVR

REV
B

BUILT UP END OF PLAZA (WITH RETAINING WALL AND BALUSTRADE TO EDGE OF SLAB

INTEGRATED TREE PLANTING / GARDEN BED. REFER TO LANDSCAPE PLANS

INTEGRATED TREE PLANTING / GARDEN BED. REFER TO LANDSCAPE PLANS

LOCATION OF NEW PUMP TRACK REFER TO PUMP TRACK DRAWINGS

Skate Park

TBM 9501
B/N in Path
RL = 2.22

Sig

SHARED HANGOUT SPACE WITH SEATING AND SHADE FOR SKATEPARK AND PUMP TRACK USE. REFER TO LANDSCAPE DRAWINGS

PRIMARY USER GATHERING AND HANGOUT ZONE

NEW COMPETITION SKATE PLAZA

NEW COMPETITION STYLE BOWL

PERFORATED DRAINAGE CATCHMENT BEHIND BOWL TRANSITION FACE

Sewer Overflow Tank

BUILT UP TURN-AROUND QUARTER PIPE SET TO END OF PLAZA

REFER TO LANDSCAPE PLANS FOR: SURROUNDING DESIGN AND CONTEXT

REFER TO LANDSCAPE DRAWINGS FOR DEMOLITION PLAN AND TREE PROTECTION PLAN

BUILT UP SPECTATOR SEATING TERRACING TO EDGE OF SKATEPARK. REFER TO LANDSCAPE DRAWINGS

SKATE PARK TERRACING TO BE MEET FLUSH TO LANDSCAPE SPECTATOR TERRACING

BOWL DRAINAGE SYSTEM. CONNECTION AS PER CIVIL ENGINEERS DESIGN

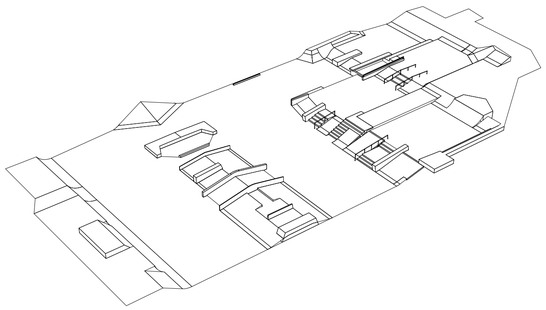
Sign 2 Poles

Drink Fountain

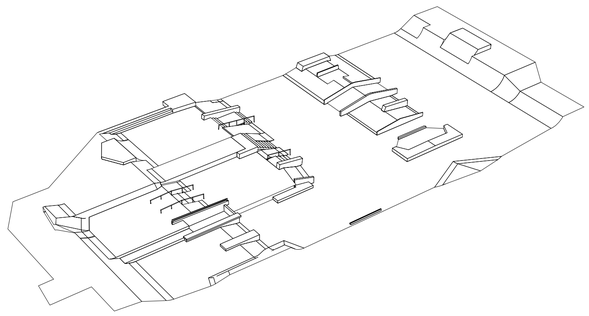
EXISTING BOWL DRAINAGE STRUCTURE. REFER TO CIVIL PLANS FOR DRAINAGE DESIGN

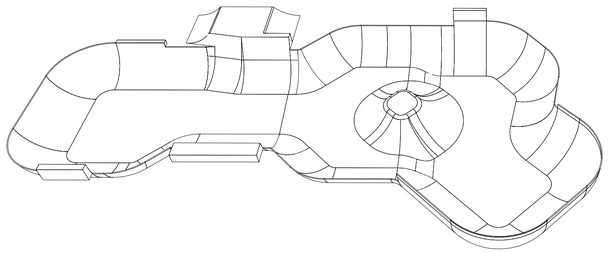
Basketball Courts

CANNING HIGHWAY



SKATE PLAZA ISOMETRIC VIEWS. NTS
NOTE: SHOWN FOR EXAMPLE OF GENERAL DESIGN INTENT ONLY.
PLAN AND DETAILS TO TAKE PRECEDENCE.
TYP FOR ALL.





SKATE BOWL ISOMETRIC VIEWS. NTS
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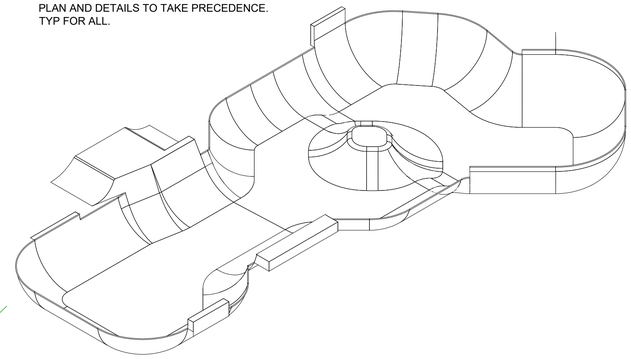
PLAN AND DETAILS TO TAKE PRECEDENCE.
TYP FOR ALL.



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PROJECT
McCALLUM PARK SKATEPARK
PROJECT NUMBER

CLIENT / LGA
TOWN OF VICTORIA PARK

N

SCALE @ A1:
1:250
0 2 4 6 8 10 m

SITE CONTEXT PLAN

DRAWING NUMBER: MP-SP-L00

REV B

STRUCTURAL NOTES:

GENERAL:
G1. DRAWINGS TO READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND ALL OTHER RELEVANT CONSULTANT'S DRAWINGS AND THE SPECIFICATION.
G2. THE BUILDER AND/OR CONTRACTORS AND THEIR SUB-CONTRACTORS SHALL ENSURE ALL WORK COMPLIES WITH THE LATEST B.LA. AND AS/NZS CODES (AND AMENDMENTS) AND B.LA. REQUIREMENTS.
G3. ALL CODES REFERRED TO IN THESE NOTES AND THESE DRAWINGS SHALL BE THE CURRENT PUBLICATIONS INCLUDING THEIR LATEST REVISIONS.
G4. DETAILS SHOWN SHALL BE TYPICAL ONLY.
G5. THE BUILDER IS TO ALLOW FOR COSTS OF ALL SITE INSPECTIONS BY THE STRUCTURAL ENGINEER REQUIRED THROUGH THE COURSE OF CONSTRUCTION. NOTIFY PROJECT LEAD CONSULTANT AT LEAST 2 WORKING DAYS PRIOR TO ANY REQUIRED INSPECTIONS. ANY CERTIFICATES REQUIRED TO SATISFY LOCAL AUTHORITY REQUIREMENTS WILL NOT BE ISSUED WITHOUT INSPECTIONS TAKING PLACE.
G6. ANY DISCREPANCIES BETWEEN THIS STRUCTURAL DOCUMENTATION AND ARCHITECTURAL DOCUMENTATION WITH STRUCTURAL IMPLICATIONS ARE TO BE CLARIFIED WITH PROJECT LEAD CONSULTANT PRIOR TO PRICING/DETAILING/CONSTRUCTION. ALL OTHER DISCREPANCIES TO BE CLARIFIED WITH ARCHITECT.
G7. DO NOT SCALE OFF DRAWINGS OR SKETCHES. ALL DIMENSIONS TO BE TAKEN DIRECTLY FROM THE CURRENT ARCHITECTURAL DRAWINGS.
G8. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFFSITE WORKS TO BE CONFIRMED WITH ARCHITECTURAL DRAWINGS BY BUILDER PRIOR TO COMMENCING CONSTRUCTION.ALL SITE LEVELS TO BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK. REFER TO PROJECT LEAD CONSULTANT'S ENGINEER FOR DIRECTION IF ANY DETAILS REQUIRE REVIEW.
G9. DIMENSIONS SHOWN ON ENGINEERING DRAWINGS ARE STRICTLY MINIMUM REQUIREMENTS AND ARE EXCLUSIVE OF ALL FALLS, RECESSES, GROOVES, TOPPINGS, SCREEDS, RENDERS, FINISHES, AND THE LIKE.
G10. MAKE DUE ALLOWANCES IN FINISHES FOR DIFFERENTIAL MOVEMENT OF ALL MATERIALS OF CONSTRUCTION AND WHERE DIFFERING CONSTRUCTION MATERIALS OF CONSTRUCTION ARE IN CONTACT.
G11. ALL TOPPINGS, SCREEDS, RENDERS, COVERINGS, COATINGS, MEMBRANES, CLADDINGS, FINISHES AND THE LIKE SHALL MAKE ALLOWANCE FOR MATERIAL CREEP, SHRINKAGE, THERMAL EXPANSION, DEFLECTION MOVEMENTS AND THE LIKE FOR THE LIFETIME OF THE STRUCTURE.
G12. ALL THIRD PARTY /PROPRIETARY PRODUCTS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH SUPPLIER'S/MANUFACTURER'S SPECIFICATIONS AND DETAILS.
G13. WHERE SPECIFIC PROPRIETARY PRODUCTS ARE NOMINATED, THE BUILDER MAY USE EQUIVALENT PRODUCTS ONLY WITH WRITTEN APPROVAL FROM PROJECT LEAD CONSULTANT. ALL SUBSTITUTED PROPRIETARY PRODUCTS TO BE OF EQUAL OR GREATER PERFORMANCE.

SITE & CONSTRUCTION SAFETY:

S1. SITE AND CONSTRUCTION SAFETY IS THE RESPONSIBILITY OF THE BUILDER.
S2. THE BUILDER SHALL IDENTIFY ANY HAZARDS RELATING TO THE CONSTRUCTION OF THE STRUCTURE AND PUT SUFFICIENT MEASURES IN PLACE TO CONTROL THESE RISKS, INCLUDING COMPLETING ALL NECESSARY JOB SAFETY ANALYSIS SAFETY SHEETS.
S3. THE BUILDER SHALL ENSURE ALL METHODS OF CONSTRUCTION MEET THE REQUIREMENTS OF WORKSAFE AND ALL RELEVANT OCCUPATIONAL HEALTH AND SAFETY REGULATIONS AND LEGISLATION THROUGH OUT ALL STAGES OF CONSTRUCTION.

DESIGN CRITERIA:

01. SOIL CLASSIFICATION : CLASS 'S' WITH: MIN 150KPa ALLOWABLE BEARING CAR BBR 12%

EARTHWORKS:

E1 ALL EARTHWORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFIC GEOTECHNICAL REPORT, RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE B.C.A. REQUIREMENTS.
E2. REMOVE ANY TREE STUMPS, RUBBISH, ETC AND REPLACE WITH CLEAN COMPACTED SAND FILL. ENSURE NO VEGETATION OR ORGANIC MATTER EXISTS IN THE SOIL STRATA FOR A DEPTH OF AT LEAST 1000mm BELOW FOOTINGS AND 2000mm WIDER THAN THE BUILDING FOOTPRINT.
E3. THE BUILDER IS TO STRICTLY FOLLOW ALL SITE PREPARATIONS REQUIREMENTS STATED IN THE GEOTECHNICAL ENGINEER'S REPORT. REFER PROJECT GEOTECHNICAL ENGINEER FOR CLARIFICATION
E4. ALL GRANULAR SOIL (SAND) COMPACTION TESTS TO BE CARRIED OUT USING A STANDARD FALLING WEIGHT (PERTH) PENETROMETER.
E5. ALL SAND UNDER THE STRUCTURE SHALL COMPACTED TO A MINIMUM OF NUMBER OF PENETROMETER BLOWS PER 300mm (TESTED TO SPECIFIED LEVEL BELOW BASE OF NEW FOOTING IN UNDISTURBED IN-SITU SOIL AND THE FULL DEPTH OF ALL FILL MATERIAL) AS FOLLOWS:
FOOTING TYPE BLOWS PER 300mm TESTING DEPTH
SLABS & STRIP FOOTINGS 8 BLOWS (PER 300mm), 750mm TESTING DEPTH OR AS PER THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEERING REPORT.
E6. THE BUILDER IS RESPONSIBLE FOR SELECTING AND PERFORMING AN APPROPRIATE COMPACTION METHOD TO ACHIEVE THE ABOVE STATED COMPACTION REQUIREMENTS. DO NOT USE COMPACTION METHODS THAT MAY CAUSE DAMAGE TO NEIGHBOURING STRUCTURES.
E7. RE-COMPACT ANY LOOSE SAND PLACED UNDER AREA OF GROUND SLAB DUE TO EXCAVATION OF FOOTINGS OR LEVELING OF SAND PAD.
E8. IT IS THE BUILDER'S RESPONSIBILITY TO ARRANGE FOR COMPACTION TESTING AND ARRANGE CERTIFICATION AS REQUIRED BY THE RELEVANT LOCAL BUILDING AUTHORITY.
E9. COMPACTION CERTIFICATES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE POURING OF ANY CONCRETE.
EI0. THE BUILDER IS TO ENSURE ALL STORM WATER AND SITE DRAINAGE IS LOCATED/INSTALLED IN A MANNER THAT WILL HAVE NO IMPACT ON ANY NEW OR EXISTING STRUCTURES DURING CONSTRUCTION/INSTALLATION/USAGE.
E11. THE BUILDER IS RESPONSIBLE FOR SELECTING APPROPRIATE SHEET PILING/SHORING METHODS ON ANY BOUNDARIES OR WITHIN THE WORKS. ALL PILING IS TO BE DESIGNED AND CERTIFIED BY SPECIALIST SUB-CONTRACTOR'S PRACTICING ENGINEER.
REFER TO SPECIFIC PILING NOTES (ON THIS PAGE - INCLUDED AS APPLICABLE).
E12. BUILDER IS TO ALLOW FOR SITE VISIT BY PROJECT LEAD CONSULTANT'S ENGINEER FOR DIRECTION AS REQUIRED TO DISCUSS SUITABILITY OF SELECTED SHORING/PILING METHOD PRIOR TO COMMENCING WORKS OR AS REQUIRED.

FOUNDATIONS AND GROUND SLABS:

F1. FOOTINGS/GROUND SLABS HAVE BEEN DESIGNED BY SKATE SCULPTURE'S APPOINTED STRUCTURAL ENGINEER TO SUIT A CLASS "S" SITE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S REPORT.
F2. ALL EARTHWORKS/SITE PREPARATION TO BE PERFORMED AS PER GEOTECHNICAL ENGINEER'S REPORT/RECOMMENDATIONS. PROVIDE FULLY COMPACTED SUB-BASE ON SUB-GRADE TO ARCH'L SPECIFICATIONS.
F3. LOCATE FOOTINGS CENTRALLY UNDER WALLS AND COLUMNS UNLESS INDICATED OTHERWISE ON TYPICAL SECTIONS.
F4. THE LEVEL DIFFERENCE BETWEEN ADJOINING FOOTINGS SHALL NOT EXCEED ONE HALF OF THE CLEAR DISTANCE BETWEEN THEM.
F5. THE BUILDER IS TO CONFIRM POSITION AND DEPTH OF ALL FOOTING STEPS (WHETHER SHOWN ON THESE DRAWINGS OR NOT) ON SITE TO COMPLY WITH FINISHED GROUND AND FLOOR LEVELS).
F6. PROVIDE AN APPROVED MOISTURE PROOF MEMBRANE UNDER ALL GROUND SLABS OR AS SHOWN ON THESE DRAWINGS.
F7. ALL TRENCH MESH AND GROUND SLAB MESH TOP BE LAPPED FOR A MINIMUM LENGTH OF 2 BARS + 25mm. EG: SL62 MESH LAPPED 225mm (MINIMUM).
F8. ALL CONSTRUCTION JOINTS IN GROUND SLABS TO BE IN THE LOCATIONS SHOWN IN THESE DRAWINGS OR AS APPROVED BY THE ENGINEER.

CONCRETE:

C1. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH ALL RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE B,LA. REQUIREMENTS.
C2. ALL CEMENT TO BE TYPE 'A' PORTLAND CEMENT (U.N.O.), PROVIDED BY AN APPROVED PREMIXING COMPANY.
C3. DO NOT USE BLENDED CEMENTS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM
PROJECT LEAD CONSULTANT.
C4. CONCRETE SHALL BE SUPPLIED BY AN APPROVED READY-MIX COMPANY AND CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS (UNLESS NOTED OTHERWISE):

COMPONENT	GRADE	SLUMP	MAX AGG. SIZE
FOOTINGS:	N32	80MM	30MM
GROUND SLABS	N32	80MM	20MM
WALLS / SKATE FEATURES	N32	80MM	10MM

C5. ALL CONCRETE TO BE PLACED WITH A MECHANICAL VIBRATOR.
C6. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) DAYS AFTER POURING BY PONDING OR OTHER APPROVED MEANS.
C7. ALL FORMWORK TO COMPLY WITH AS 1509.
C8. MINIMUM FORMWORK STRIPPING TIMES UNLESS NOTED OTHERWISE:
WALLS: 3 DAYS,
SLABS: 10 DAYS
C9. WHERE CONCRETE IS DAMAGED AND/OR HONEY COMBED, NOTIFY PROJECT LEAD CONSULTANT FOR REPAIR REQUIREMENTS OR REMOVAL.
Cl0. ALL EXPOSED CONCRETE EDGES WITHOUT CAST-IN SHS's ARE TO HAVE A 20mm CHAMFER EXCEPT UPPER EDGES WHICH ARE TO HAVE A 10mm BULLNOSE RADIUS.

REINFORCEMENT:

R1. ALL REINFORCEMENT IS TO BE SUPPLIED AND PLACED ACCORDANCE WITH ALL RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE B,LA, REQUIREMENTS,
R2, BUILDER IS TO NOTIFY PROJECT LEAD CONSULTANT 2 DAYS IN ADVANCE OF POURING CONCRETE IF STEEL REINFORCING INSPECTION IS REQUIRED TO MEET LOCAL BUILDING AUTHORITY REQUIREMENTS, NO CERTIFICATION WILL BE ISSUED WITHOUT INSPECTION,
R3, ALL REINFORCEMENT BARS TO BE FREE OF SCALE, RUST AND OTHER MATTER,
R4, BAR NOTATIONS ON DRAWINGS DENOTE THE FOLLOWING:
N - DENOTES GRADE D5OON HOT ROLLED RIBBED REBARS
S - DENOTES GRADE D250N HOT ROLLED RIBBED REBARS
R - DENOTES GRADE R250N HOT ROLLED PLAIN ROUND BARS
W - DENOTES GRADE R5OOL COLD DRAWN ROUND WIRE
DW - DENOTES GRADE D5OOL COLD ROLLED RIBBED WIRE
SL - DENOTES SQUARE MESH
RL - DENOTES RECTANGULAR
TM - DENOTES TRENCH MESH
R5, PROVIDE 1-N16 REINFORCING BAR x 1500 LONG TOP & BOTTOM OF SLAB AT ALL RE-ENTRANT CORNERS (UNLESS NOTED OTHERWISE) WHETHER SHOWN ON PLAN OR NOT,
R6, SUPPORT AND TIE ALL REINFORCEMENT TO MAINTAIN SPECIFIED COVER ON APPROVED PLASTIC OR PLASTIC TIPPED STEEL CHAIRS AT 1000mm MAXIMUM CENTERS,
R7, ALL BAR SPLICE LENGTHS OF DEFORMED BARS TO BE 40 x BAR DIAMETERS AND SHEETS OF MESH TO OVERLAP BY A MINIMUM OF TWO WIRES + 25mm (UNLESS NOTED OTHERWISE),
R8, SLOPES OF CRANKED BARS SHALL NOT EXCEED ONE IN SIX,
R9, MINIMUM CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS (UNLESS NOTED OTHERWISE):

COMPONENT	INTERNAL COVER	EXTERNAL COVER (EXPOSED)
GROUND SLABS:	-	40MM
WALLS:	-	40MM
FOOTINGS:	75MM	75MM

R10, THE BUILDER IS TO ENSURE THAT ALL BARS SHALL AT ALL TIMES BE PLACED IN THE EXTREME CORNERS OF LIGATURES TO BEAMS AND COLUMNS,

STEELWORK:

S1. ALL STEELWORK TO BE SUPPLIED/FABRICATED/WELDED/TRANSPORTED/ERECTED CORROSION PROTECTED IN ACCORDANCE WITH ALL RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE B.LA. REQUIREMENTS.
S2. ALL COLD FORMED STEEL MEMBERS, CONNECTIONS, BRACING, ETC, SHALL CONFORM WITH ALL RELEVANT 'STANDARDS AUSTRALIA' CODES AND THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
S3. MINIMUM WELDED REQUIREMENTS ARE 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE ON THESE DRAWINGS. WELDS TO DEVELOP FULL STRENGTH OF THE MEMBERS TO BE JOINED.
S4. VERIFY ALL SETOUT DIMENSIONS WITH ARCHITECTURAL DRAWINGS. DO NOT SCALE FROM STRUCTURAL DRAWINGS.
S5. PROVIDE ALL CLEATS, BRACKETS, WELDING AND HOLING, ETC NECESSARY FOR THE COMPLETION OF THE BUILDING AND AS SHOWN AND REQUIRED TO SUIT ARCHITECTURAL DETAILS. SHOP DETAILER TO PROVIDE HOLES TO STEEL MEMBERS TO ALLOW FOR FIXING OF NON STRUCTURAL COMPONENTS IN ACCORDANCE WITH ARCHITECTURAL DETAILS.
S6. FULLY SEAL ALL HOLLOW SECTIONS USING 5mm PLATES UNLESS NOTED OTHERWISE.
S7. ALL STEELWORK TO BE FREE FROM DISTORTIONS WITH ALL NATURAL CAMBERS IN STEELWORK TO BE UPWARDS.
S8. MEMBERS SHALL BE IN ONE LENGTH, UNLESS OTHERWISE APPROVED.
S9. ALL BOLTS, NUTS AND WASHERS TO BE CADMIUM PLATED. ALL EXTERNAL BOLTING AND HOLDING DOWN BOLTS, NUTS AND WASHERS TO BE HOT DIPPED GALVANIZED UNLESS NOTED OTHERWISE.
S10. MINIMUM STEELWORK FINISHES SHALL BE:
i) ALL SUPPLIED CHS/SHS SECTIONS TO BE DURAGAL.
ii) SITE TREAT ANY DAMAGED CORROSION PROTECTION (DUE TO WELDING/CUTTING/ GRINDING, ETC) WITH 'GALMET' SILVER PAINT (APPLICATION TO BE NEAT & CONSISTENT).
iii) TREAT STEELWORK BELOW GROUND LEVEL WITH 2 COATS OF TAUBMANS INTERZONE 954 EPOXY (TO ACHIEVE A MINIMUM OF 150 MICRONS COVER) OR APPROVED EQUIVALENT.

CAST-IN SHS/CHS STEEL SECTIONS:

S1. ALL SHS/CHS CAST-IN STEEL SECTIONS TO BE SUPPLIED GALVANIZED (DURAGAL).
S2. CAST-IN SECTIONS TO BE CUT & WELDED ONSITE (INCLUDING WELDED LUGS) AS PER BUILDER'S PREFERENCE. PROVIDE 6mm THICK END CAPS TO ALL CHS/SHS EXPOSED ENDS, WELDED & THEN GRIND EXPOSED CORNERS & EDGES GROUND TO A ROUNDED FINISH - NO SHARP EDGES. PROVIDE ADDITIONAL GALV. TREATMENT TO ALL CUT/WELDED/SITE DAMAGED STEELWORK & LUGS IN ACCORDANCE WITH GENERAL STEELWORK NOTES (ABOVE). ALTERNATIVLEY; SHOP MITRE/WELD SECTIONS & SHOP WELD LUGS/CLOSING PLATES. HOT DIP GALVANIZE WITH BREATHER HOLES (BE SEALED WITH SIKAFLEX OR EQUIVALENT).
S3. ALL CAST-IN CHS SECTIONS TO BE SET OUT 8mm FROM EXPOSED CONCRETE EDGES, REFER TO ARCHITECTURAL/CONCEPT DRAWINGS.
S4. ENSURE ALL LUGS AND REINFORCEMENT CONNECTIONS TO CAST IN STEEL CHS/SHS SECTIONS ARE LOCATED SO AS TO ALLOW A MINIMUM 40mm COVERAGE BELOW CONCRETE SURFACE.

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McCALLUM PARK SKATEPARK
PROJECT NUMBER
CLIENT / LGA
TOWN OF VICTORIA PARK

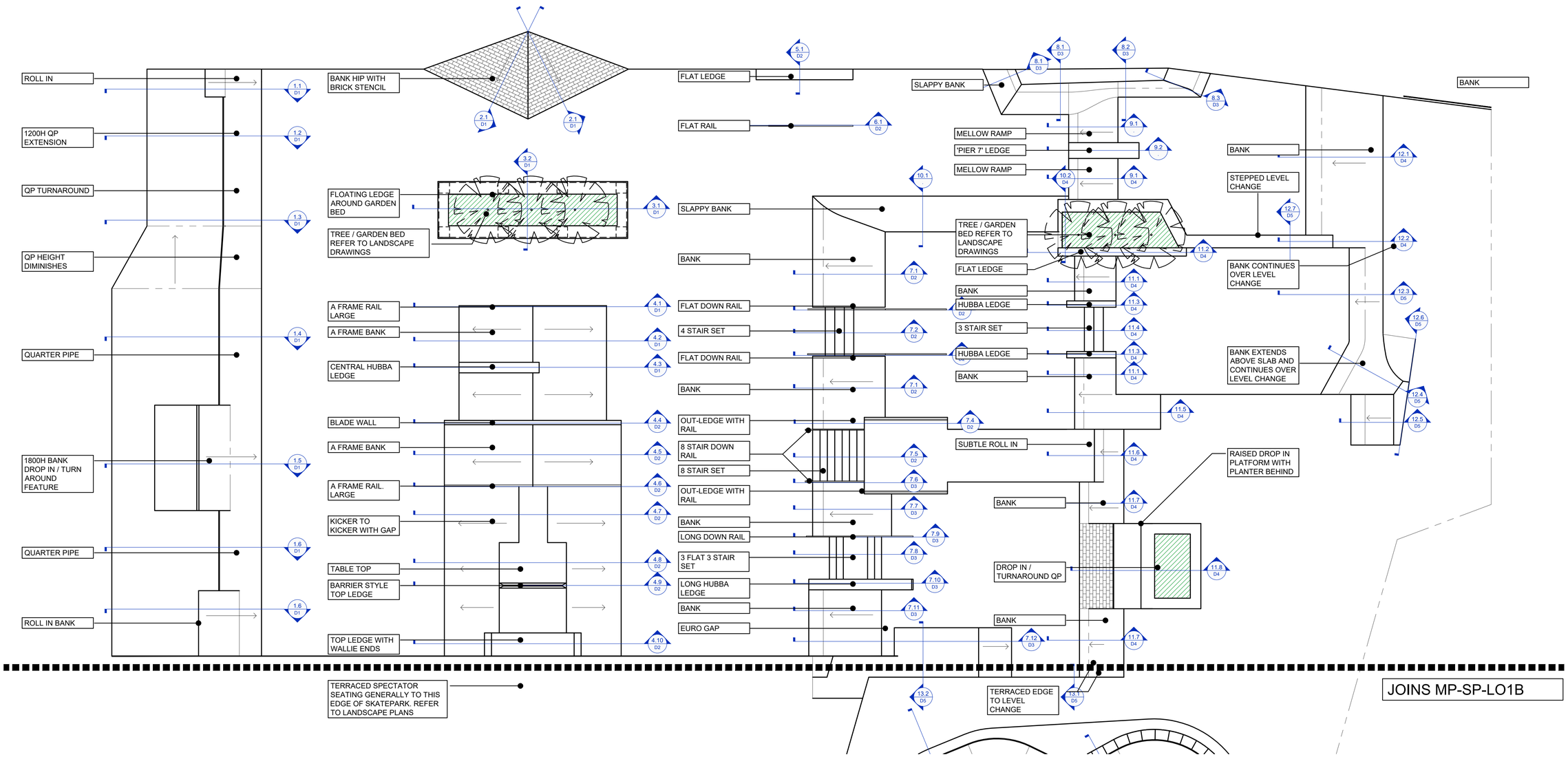
N

SCALE @ A1:
NA

GENERAL NOTES

DRAWING NUMBER:
MP-SP-00N

REV
B



DESIGN BY (SKATEPARK)
SKATE SCULPTURE
0450405510
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timyuen@skatesculpture.com.au

STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

ISSUED FOR:

A	11.03.2021	PRELIMINARY REVIEW
B	28.05.2021	85% REVIEW SET

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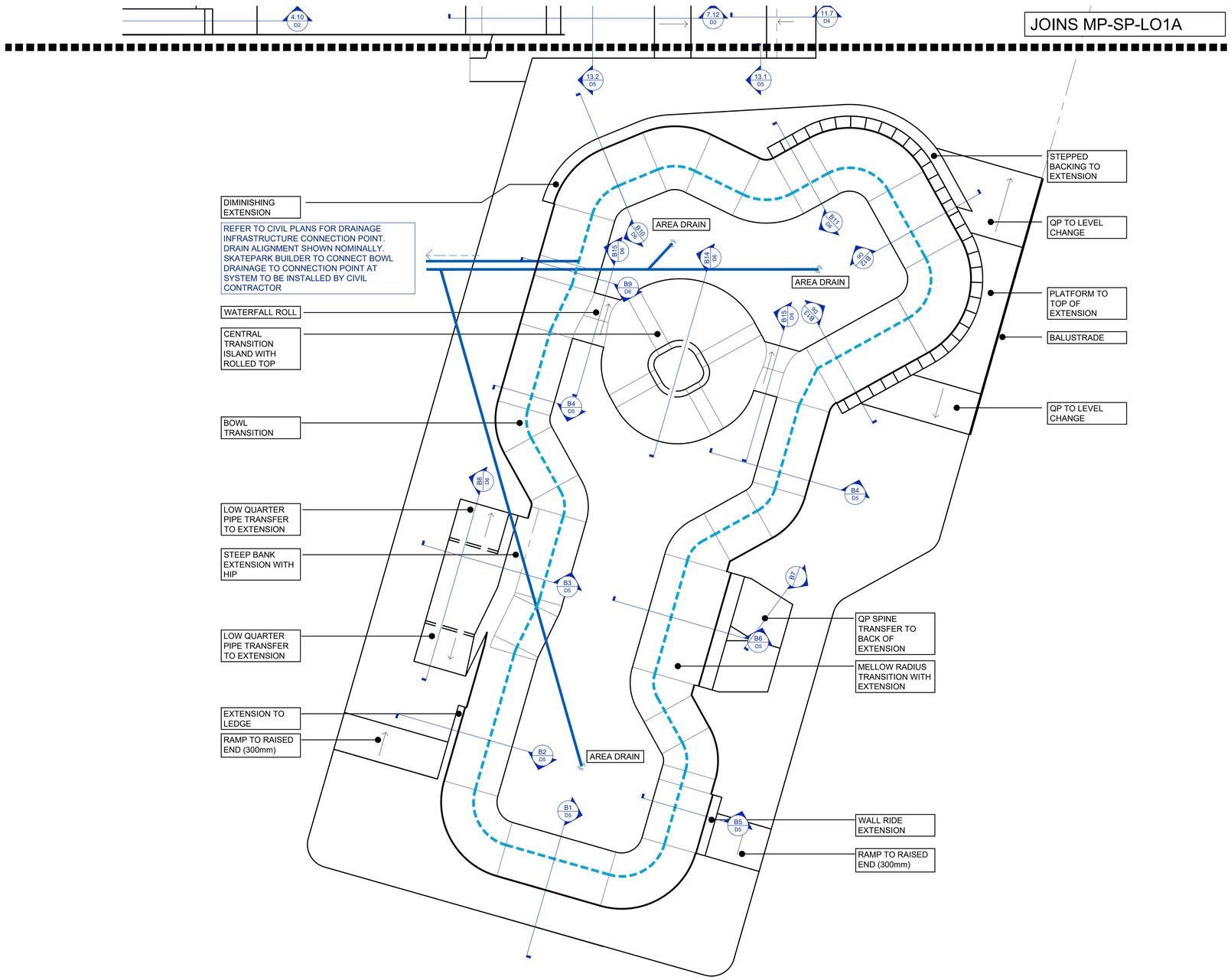
SCALE @ A1:
1:100
0 1 2 3 4 5 m

SKATEPARK PLAN

DRAWING NUMBER:
MP-SP-L01A

REV
B



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SCALE @ A1:
1:100
0 1 2 3 4 5 m

SKATEPARK PLAN

DRAWING NUMBER:
MP-SP-L01B

REV
B

CONSTRUCTION NOTE A: CONTINUAL COMBINATION FEATURE WILL REQUIRE SPECIAL ATTENTION TO DETAIL AND CONSIDERATION OF SLAB FALLS WHEN SETTING OUT SO AS TO ENSURE CONTINUAL / SEAMLESS TRANSITION AND BANK PROFILES.

NOTE COPING SITS 'LEVEL' WHILE SLAB FALLS AT TOE, RESULTING IN AN INCREASE TO HEIGHT OF FEATURES OVER LENGTH. SECTIONS PROVIDED AS A GUIDE FOR RADIUS AND APPROXIMATE HEIGHT.

CONTACT DESIGNERS FOR ADDITIONAL SUPPORT / 3D CAD INFORMATION AS REQUIRED FOR FEATURE SETOUT

CONSTRUCTION NOTE B: CONTINUAL COMBINATION FEATURE WILL REQUIRE SPECIAL ATTENTION TO DETAIL AND CONSIDERATION OF SLAB FALLS WHEN SETTING OUT SO AS TO ENSURE ALIGNMENT OF FEATURES IN THIS ZONE.

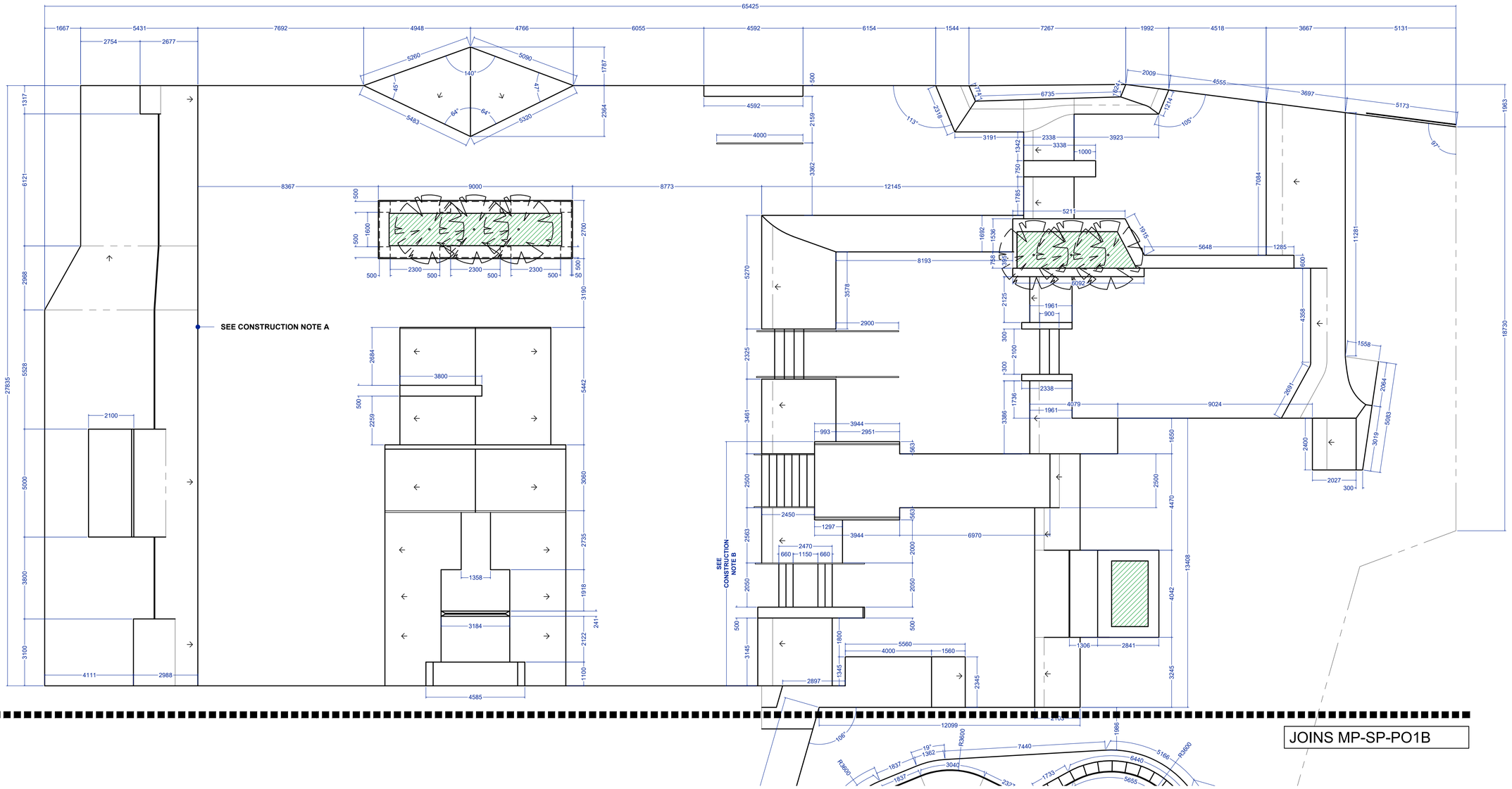
NOTE SLAB FALL AT BASE OF FEATURES IS AT DIFFERENT DIRECTION TO TOP OF FEATURES RESULTING AN FEATURES CHANGING SLIGHTLY IN HEIGHT OVER LENGTH. SECTIONS PROVIDED AS A GUIDE FOR BANK ANGLE, APPROXIMATE HEIGHT AND STAIR RISER HEIGHT.

CONTACT DESIGNERS FOR ADDITIONAL SUPPORT / 3D CAD INFORMATION AS REQUIRED FOR FEATURE SETOUT

ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED

CAD BASE AND ORDINATE STYLE SETOUT WILL BE AVAILABLE TO CONTRACTOR FOR DIGITAL SITE SETOUT PRIOR TO SITE STARTUP.

*DIMENSIONS CONNECTING TO EXISTING PARK FEATURES MAY REQUIRE TO BE ADJUSTED ON SITE TO ACCOUNT FOR DIFFERENCES BETWEEN SURVEY AND EXISTING.



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SCALE @ A1:
1:50
0 0.5 1 1.5 2 m

DIMENSIONS PLAN

DRAWING NUMBER:
MP-SP-P01A

REV
B

ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED

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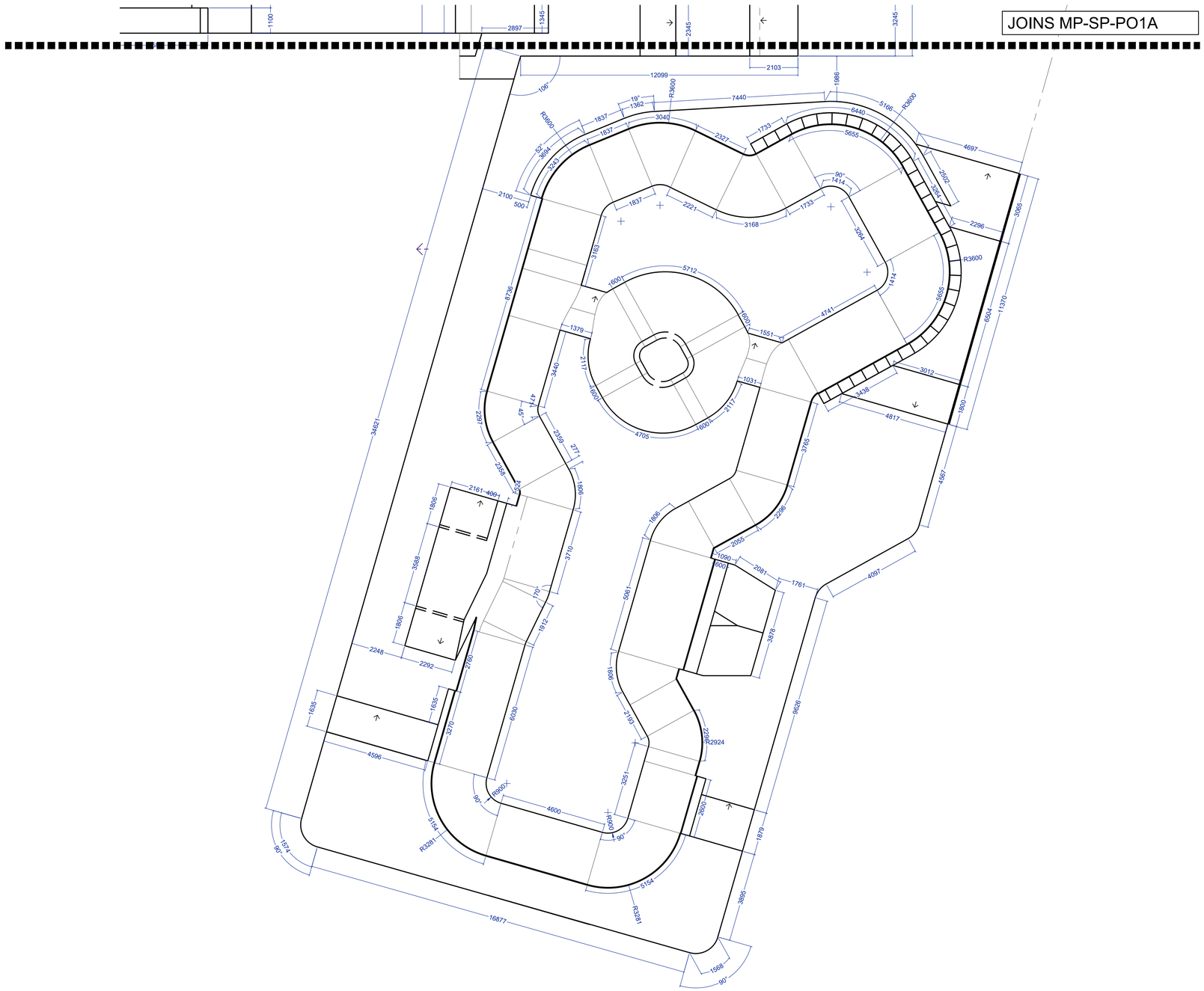

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SCALE @ A1:
1:50

0 0.5 1 1.5 2 m

DIMENSIONS PLAN

DRAWING NUMBER:
MP-SP-P01B

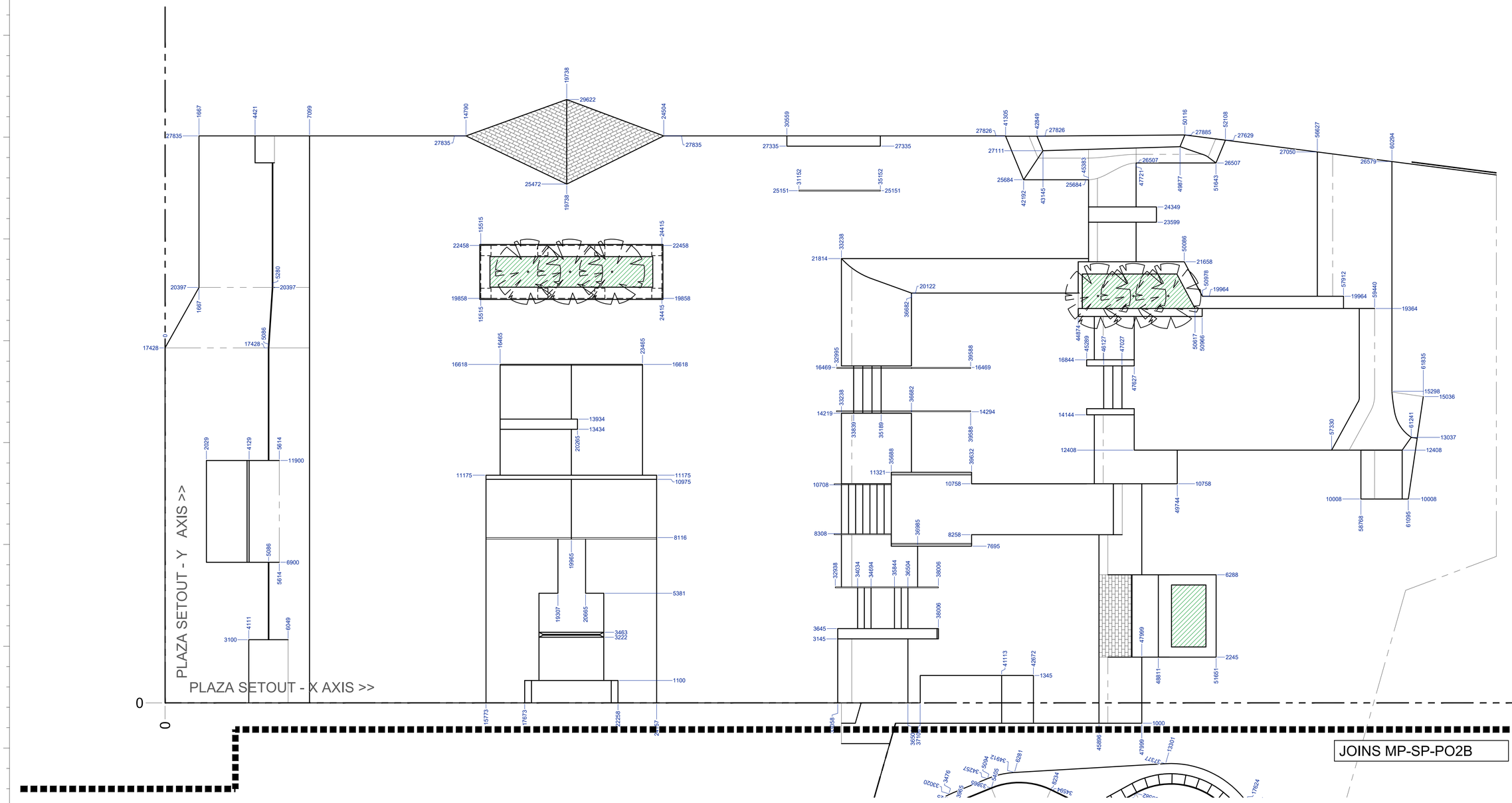
REV
B

LEGEND

0.21
0.25

ORDINATE SETOUT POINT IN X / Y DIRECTION RELATIVE TO SETOUT POINT #1
ALL DIMENSIONS IN METERS

ALL INFORMATION AVAILABLE IN CAD FORMAT INCLUDING 3D ELEVATION POINTS FOR DIGITAL SITE SETOUT (TOTAL STATION ETC)



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SCALE @ A1:
1:50

0 0.5 1 1.5 2 m

ORDINATE PLAN

DRAWING NUMBER:
MP-SP-P02A

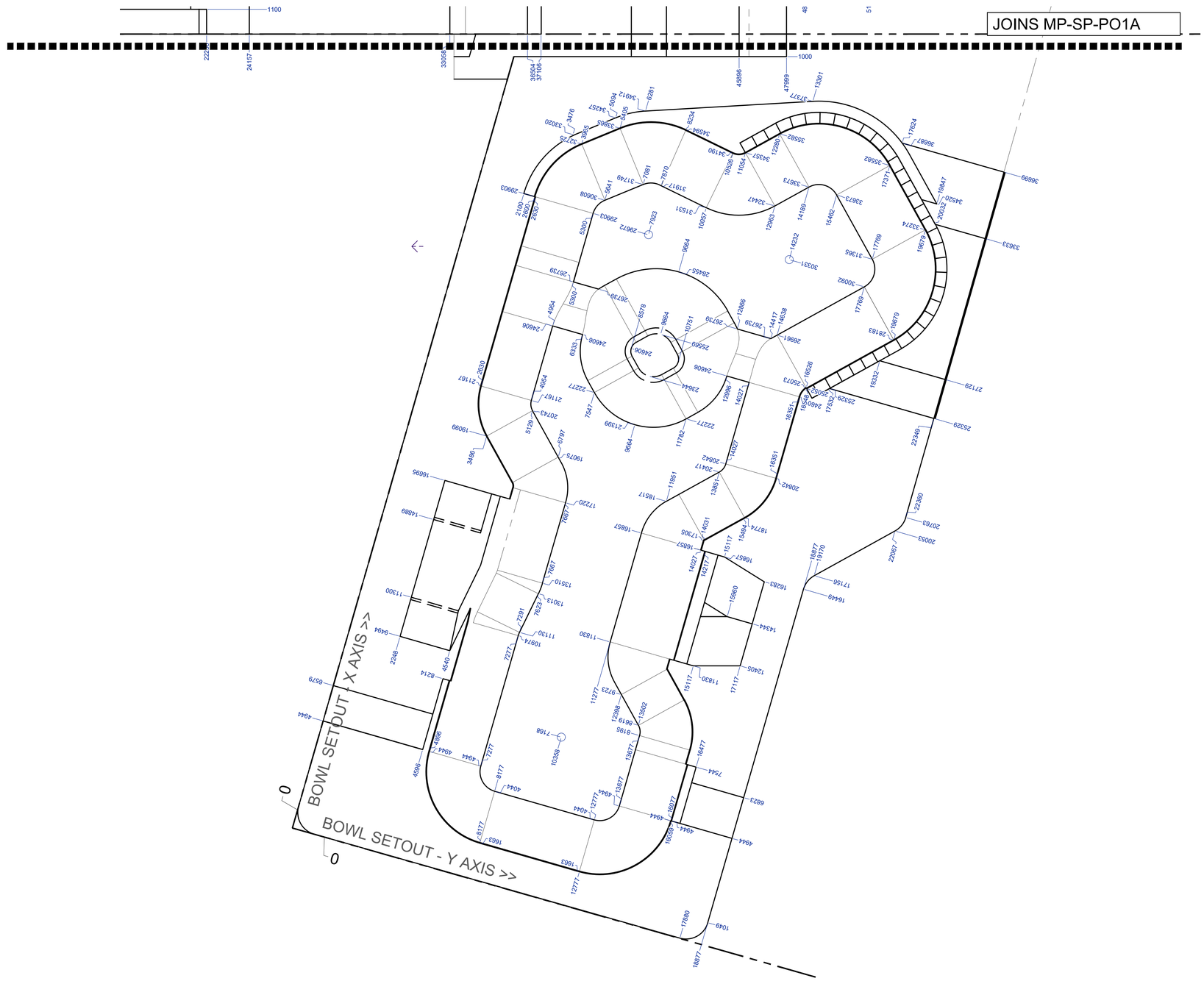
REV
B

LEGEND

0.21
0.22

ORDINATE SETOUT POINT IN X / Y DIRECTION RELATIVE TO SETOUT POINT #1
ALL DIMENSIONS IN METERS

ALL INFORMATION AVAILABLE IN CAD FORMAT INCLUDING 3D ELEVATION POINTS FOR DIGITAL SITE SETOUT (TOTAL STATION ETC)



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SCALE @ A1:
1:50
0 0.5 1 1.5 2 m

ORDINATE PLAN

DRAWING NUMBER:
MP-SP-P02B

REV
B

LEGEND

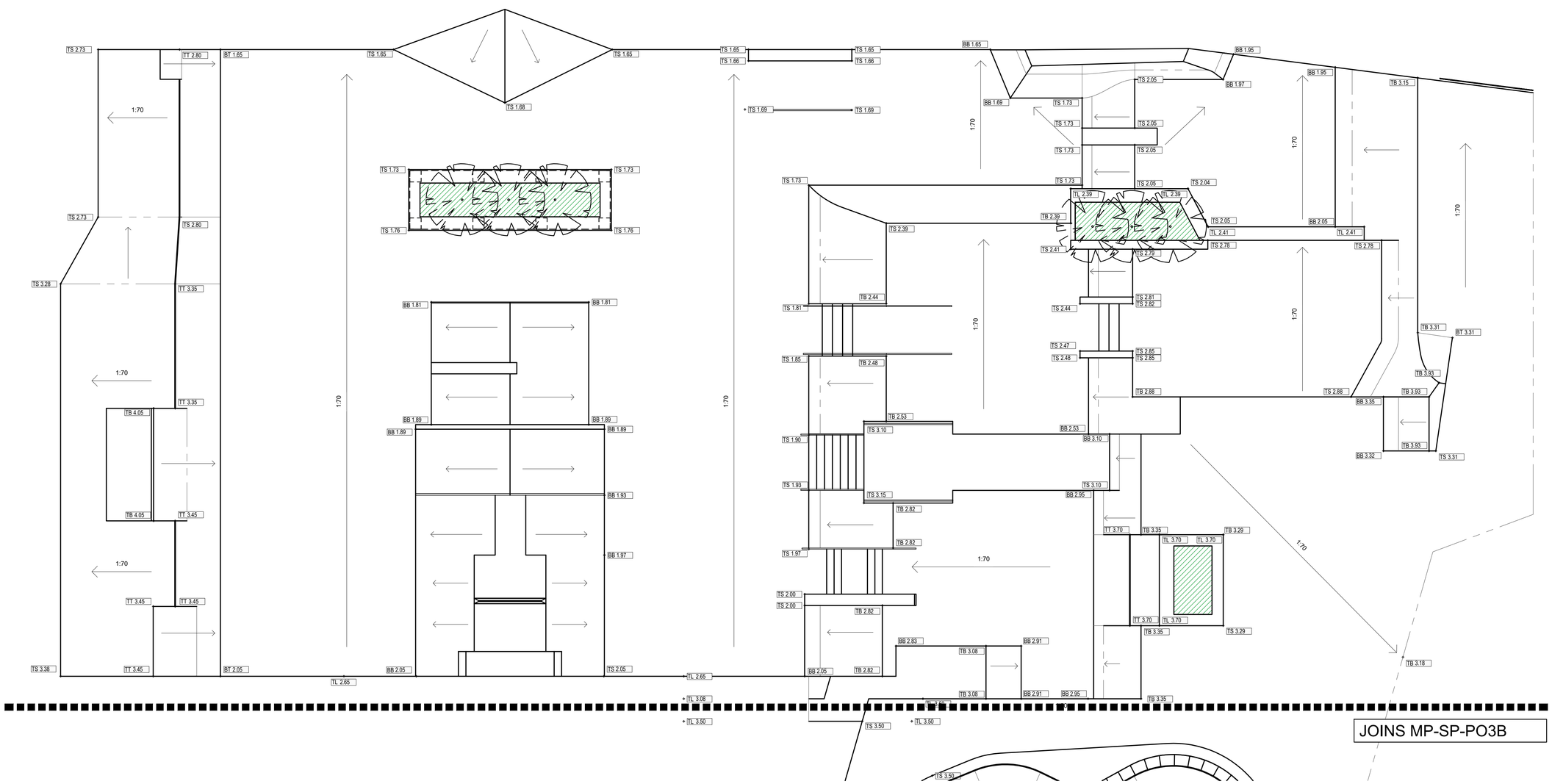
✦ TS 0.00	ELEVATION TAG RELATIVE TO GEODETIC HEIGHT AS PER SURVEY
TS	TOP OF FINISHED SLAB
TB	TOP OF BANK
BB	BOTTOM OF BANK
TT	TOP OF TRANSITION
BT	BOTTOM OF TRANSITION
TR	TOP OF RAMP (LOW ANGLE)
BR	BOTTOM OF RAMP
ST	TOP OF STEP
TL	TOP OF LEDGE
TW	TOP OF WALL
BW	BOTTOM OF WALL
RIM	RIM OF AREA DRAIN
INV	DRAIN SYSTEM INVERT

SKATEPARK SURFACE

150Ø PVC DRAIN PIPE @ 0.5%

100Ø PERF DRAIN PIPE IN GEOFABRIC TO SURROUND TOE OF BOWL AND BEHIND RETAINING WALLS. CONNECTIONS AS PER CIVIL DESIGN

Notes
1 Elevations relative to as shown on site survey / Landscape Plans.
2. Elevation to be confirmed on site during construction startup. 3. Refer to TYPICAL DETAILS for further piping information 4. Max slope on flat slab = 4%



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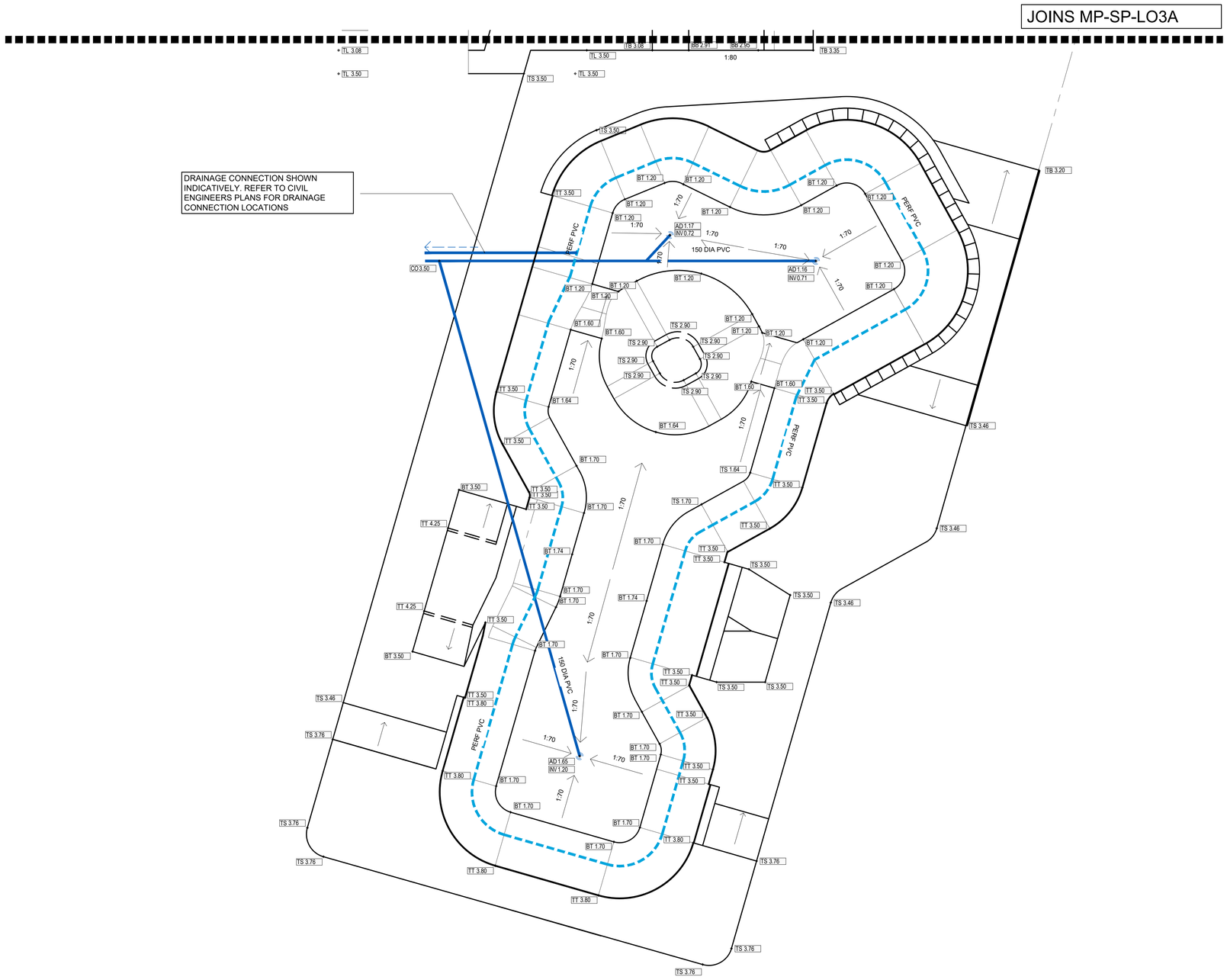
SCALE @ A1:
1:100
0 1 2 3 4 5 m

GRADING PLAN

DRAWING NUMBER:
MP-SP-P03A

REV
B



LEGEND

✦ TS 0.00	ELEVATION TAG RELATIVE TO GEODETIC HEIGHT AS PER SURVEY
TS	TOP OF FINISHED SLAB
TB	TOP OF BANK
BB	BOTTOM OF BANK
TT	TOP OF TRANSITION
BT	BOTTOM OF TRANSITION
TR	TOP OF RAMP (LOW ANGLE)
BR	BOTTOM OF RAMP
ST	TOP OF STEP
TL	TOP OF LEDGE
TW	TOP OF WALL
BW	BOTTOM OF WALL
RIM	RIM OF AREA DRAIN
INV	DRAIN SYSTEM INVERT

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SCALE @ A1:
1:100
0 1 2 3 4 5 m

GRADING PLAN

DRAWING NUMBER:
MP-SP-P03B
REV
B

STEEL COPING NOTES : REFER TO PROJECT SPECIFIC DETAILS TO CONFIRM HANDRAIL DIMENSIONS.
ALL STEEL GRINDING EDGES AND STEEL COPING SHALL BE: DURAGAL OR EQUAL APPROVED

ALL METAL WORK SHALL STRICTLY ADHERE TO THE SPECIFIED WALL THICKNESS. ALL METAL WORK SHALL BE GROUND IN SHOP AND JOINED PIECES HOT DIP GALVANIZED PRIOR TO DELIVERY TO SITE. NO MILL SCALE ON METAL SHALL BE TOLERATED. ALL SITE WELDING SHALL BE PRIMED, RETOUCHED AND PAINTED WITH A ZINC RICH SILVER GALVANIZING PAINT (U.N.O) PRIOR TO COMPLETION.

RSP: NB50 X 4.5 CHS. RM T003

CPX: CP: NB50 X 4.5 CHS. CPX T003

SST: 50mm x 50mm x 4mm SQUARE HSS SST T003

FB50: 50mm x 6mm FLAT STEEL BAR FSB T003

RHS: 150X50X5 RHS 'DURAGAL' TO PERIMETER OF FLOATING CONCRETE LEDGE RHS T003

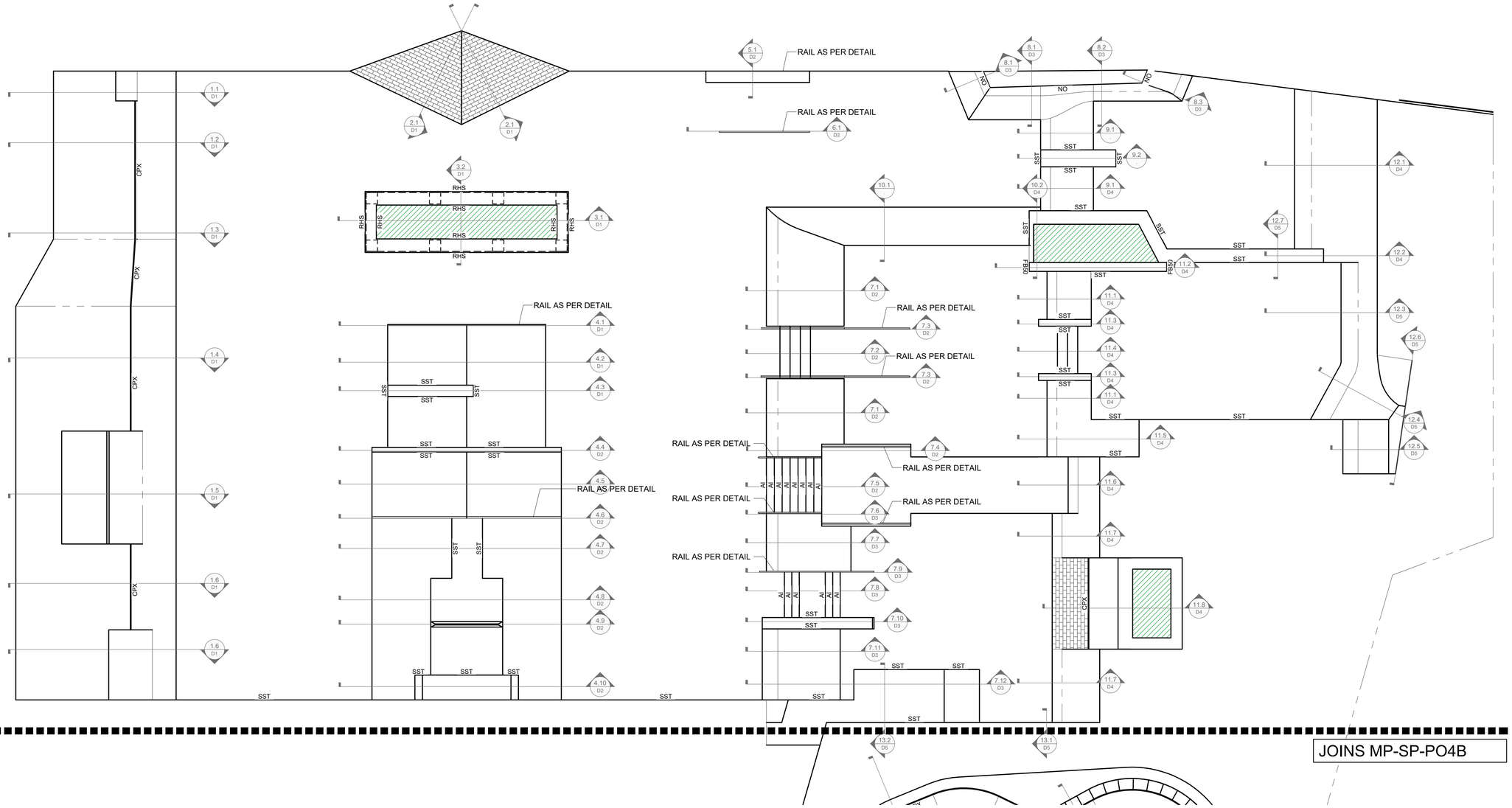
POOL: POOL BLOCK COPING TILE. SEE CONCRETE SURFACES PLAN PLAN

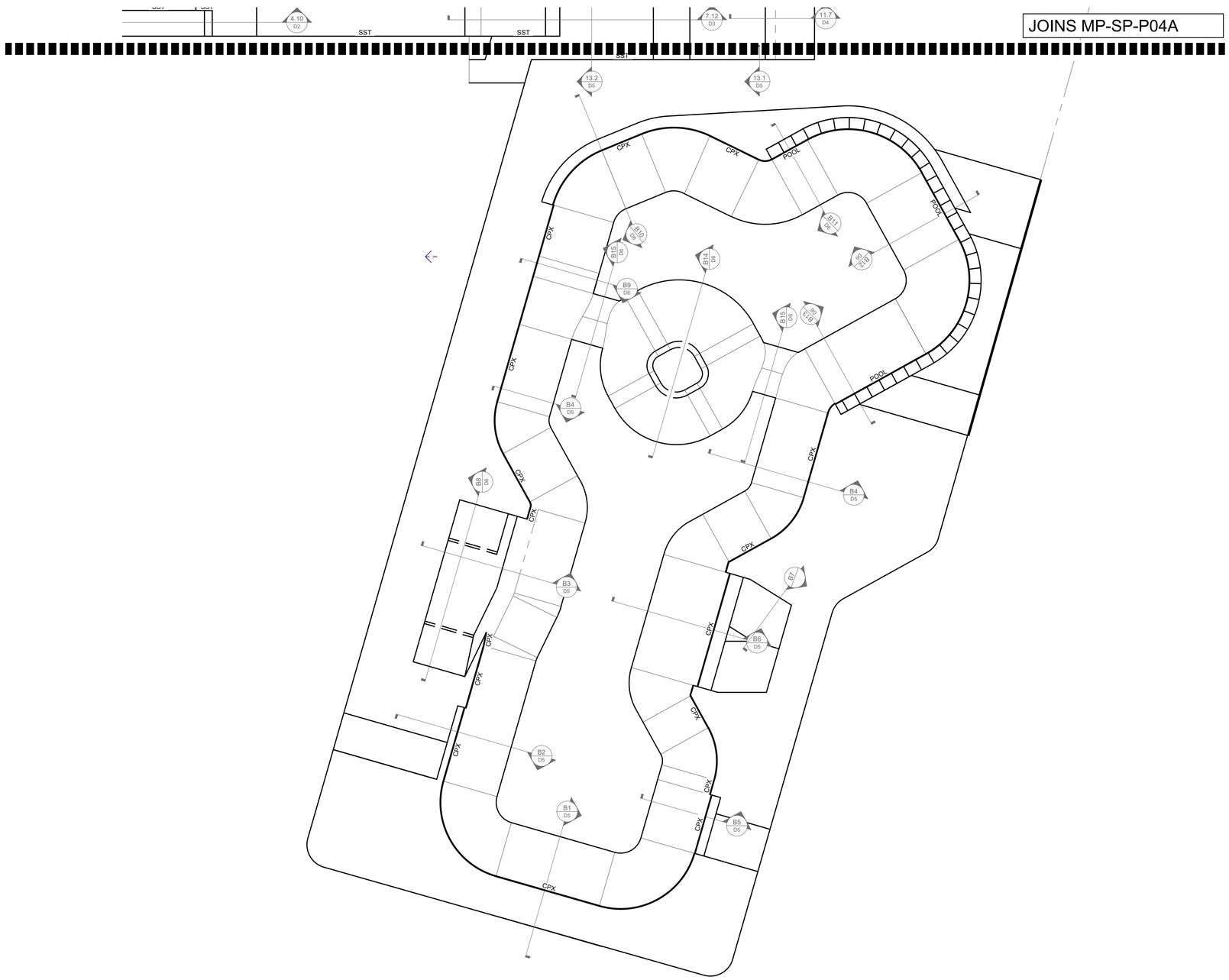
NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

PAINT / COLOUR SCHEDULE

A: RAL 5018 TURQUOISE BLUE

REFER TO DETAILS FOR DIMENSIONS WHERE STEEL ITEM IS NOT ALIGNED TO PLAN VIEW (TYP)





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NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

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A: RAL 5018 TURQUOISE BLUE

REFER TO DETAILS FOR DIMENSIONS WHERE STEEL ITEM IS NOT ALIGNED TO PLAN VIEW (TYP)

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TOWN OF VICTORIA PARK

SCALE @ A1:
1:50
0 0.5 1 1.5 2 m

STEEL EDGING PLAN

DRAWING NUMBER: MP-SP-P04B
REV B

LEGEND

SJ	SAW CUT	SJ TD02
EJV	EXPANSION JOINT	EJV TD02
CJ	COLD JOINT	CJ TD02
PJ	PROPOSED SLAB SECTION POUR / FORM LOCATION	

***PROVIDE SEPARABLE COSTS FOR ADDITION OF COLOUR INTEGRAL COLOUR TO SHOTCRETE AND LEDGES.**

ALL CONCRETE / SHOTCRETE TO BE FINISHED WITH 'ASHFORD FORMULA' HARDENER

CONCRETE AND SHOTCRETE FINISHING MUST BE COMPLETED BY QUALIFIED SKATE PARK BUILD CONTRACTOR WITH MINIMUM EXPERIENCE QUALIFICATIONS AS OUTLINED IN TENDER DOCUMENT

BLENDS

IN MANY INSTANCES THROUGHOUT THE SKATEPARK - ELEVATION, AND DEGREE OF SLOPE BETWEEN BANKS, TRANSITION SLOPES, AND VERTICAL ELEMENTS CAN VARY. WHERE INDICATED ON PLAN, PROVIDE CUSTOM CONCRETE BLENDING FOR SMOOTH TRANSITIONS. THESE AREAS TYPICALLY REQUIRE GREATER HAND WORK AND QUALITY CONTROL TO ENSURE THAT BLENDS DO NOT RESULT IN IRREGULAR CONCRETE SURFACE CONDITIONS.

COLOUR SCHEDULE

M-1	CONCRETE FLAT SLAB NATURAL GREY
M-2	BANK / TRANSITION/LEDGE COLOUR: CCS ECHIDNA
M-3	SHOTCRETE BANK / TRANSITION COLOUR: CCS ONYX WITH BRICK STENCIL
M-4	COLOUR TO BE AS PER LANDSCAPE SEATING TERRACE
M-5	CONCRETE FEATURE COLOUR WITH BRICK STENCIL PATTERNING CCS ECHIDNA
M-6	FEATURE COLOUR TO BLADE WALL OR KERB. PAINTED RAL 5018 TURQUOISE BLUE
M-7	FEATURE COLOUR TO FLAT SLAB AND BANKS / TRANSITIONS WHERE SHOWN. CCS ONYX

CONCRETE NOTES:
CONCRETE APPLICATION
All transition and bank elements to be poured via shotcrete application

CONCRETE FINISHING
All HORIZONTAL elements to have a power troweled shop floor finish.
All TRANSITIONAL elements and features to have a hand trowel shop floor finish.
All VERTICAL wall faces to be produced using paper-faced forms.

CONCRETE PROPERTIES AND REINFORCEMENT
For concrete properties; strength, thickness, reinforcement gauge and spacing, refer to specifications and details

CONCRETE COLOUR SELECTION
All concrete colours are selected from (REFER TO TENDER SPECIFICATIONS)

Contractor to use selected colours or approved alternative in areas noted on documents.
Contractor to follow manufacturer's specifications

BLEND AREAS:
In many instances throughout the skatepark - elevation, and degree of slope between banks, transition slopes, and vertical elements can vary. Where indicated on plan, provide custom concrete blending for smooth transitions. These areas typically require greater hand work and quality control to ensure that blends do not result in irregular concrete surface conditions.

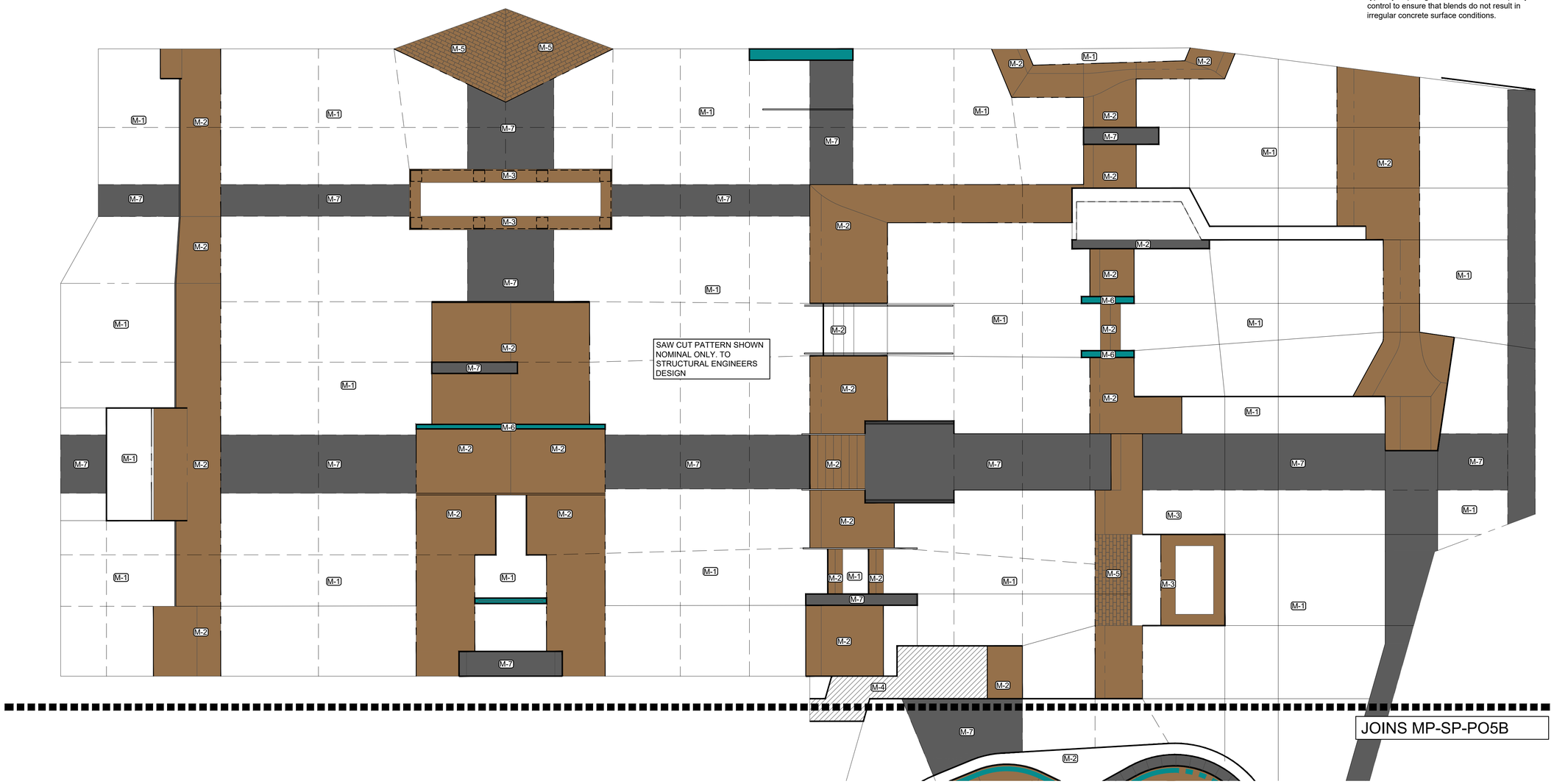
CONSTRUCTION SEQUENCE:
1. Construction of all concrete elements within the skatepark are best completed in the following order:
A. Footings and walls with footings
B. Bank slab sections, Steps and Transitions
C. Floor Slab
D. Wall, Ledges and Boxes built on slab.

2. Cast in place concrete slab sections shall be constructed in an alternating arrangement so that every other slab section is completed prior to the pouring of the infill slab section. This system provides edge forming for every alternate slab section and helps ensure quality control. **No slab sections shall exceed 4.0m (linear)** in size without control jointing. - see concrete specs.

3. Cold Joints are provided between each slab section. Place tie bars and dowels through all slab sections and floor slab.

4. Expansion Joints: Shall be placed at the base of all vertical concrete elements such as ledges, stairs and walls. Utilize joint compound no greater than 6.25mm in width to help eliminate tripping or irregularities in skating surface.

5. Saw cut pattern is shown to provide direction only. Contractor shall cut slab as needed to prevent cracking. Saw cuts must be made before any signs of thermal cracking. Thermal cracking as a result of insufficient crack control may result in un-skateable surfaces and may need to be replaced.



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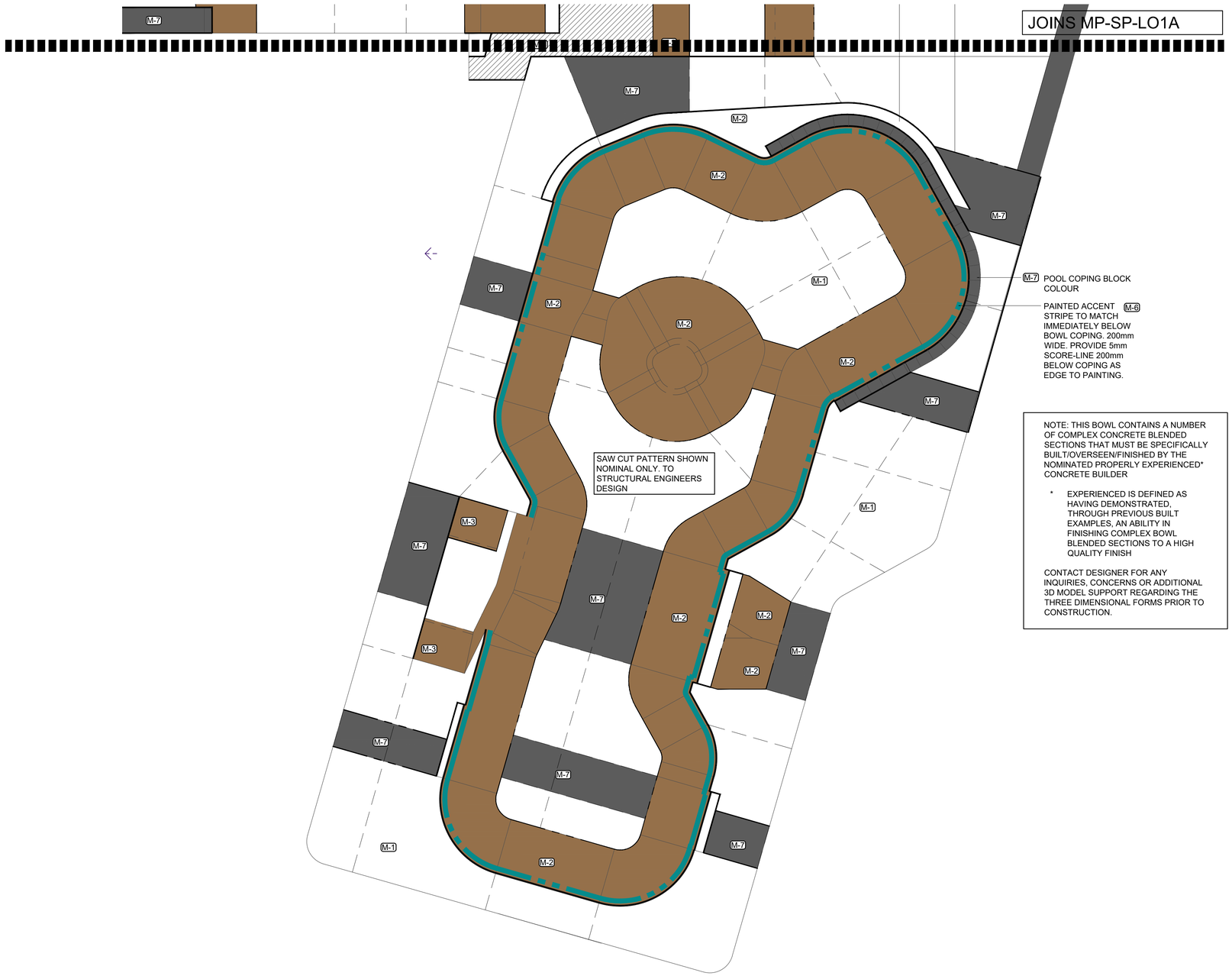
SCALE @ A1: 1:50
0 0.5 1 1.5 2 m

CONCRETE SURFACES PLAN

DRAWING NUMBER: MP-SP-P05A
REV: B



NOTE: THIS BOWL CONTAINS A NUMBER OF COMPLEX CONCRETE BLENDED SECTIONS THAT MUST BE SPECIFICALLY BUILT/OVERSEEN/FINISHED BY THE NOMINATED PROPERLY EXPERIENCED* CONCRETE BUILDER

* EXPERIENCED IS DEFINED AS HAVING DEMONSTRATED, THROUGH PREVIOUS BUILT EXAMPLES, AN ABILITY IN FINISHING COMPLEX BOWL BLENDED SECTIONS TO A HIGH QUALITY FINISH

CONTACT DESIGNER FOR ANY INQUIRIES, CONCERNS OR ADDITIONAL 3D MODEL SUPPORT REGARDING THE THREE DIMENSIONAL FORMS PRIOR TO CONSTRUCTION.

LEGEND

SJ — SAW CUT — SJ TD02

EJV — EXPANSION JOINT — EJV TD02

CJ — COLD JOINT — CJ TD02

PJ — PROPOSED SLAB SECTION POUR / FORM LOCATION

***PROVIDE SEPARABLE COSTS FOR ADDITION OF COLOUR INTEGRAL COLOUR TO SHOTCRETE AND LEDGES.**

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M-2 — BANK / TRANSITION/LEDGE COLOUR: CCS ECHIDNA

M-3 — SHOTCRETE BANK / TRANSITION COLOUR: CCS ONYX WITH BRICK STENCIL

M-4 — COLOUR TO BE AS PER LANDSCAPE SEATING TERRACE

M-5 — CONCRETE FEATURE COLOUR WITH BRICK STENCIL PATTERNING CCS ECHIDNA

M-6 — FEATURE COLOUR TO BLADE WALL OR KERB. PAINTED RAL 5018 TURQUOISE BLUE

M-7 — FEATURE COLOUR TO FLAT SLAB AND BANKS / TRANSITIONS WHERE SHOWN. CCS ONYX

CONCRETE NOTES:
CONCRETE APPLICATION
All transition and bank elements to be poured via shotcrete application

CONCRETE FINISHING
All HORIZONTAL elements to have a power troweled shop floor finish.
All TRANSITIONAL elements and features to have a hand trowel shop floor finish.
All VERTICAL wall faces to be produced using paper-faced forms.

CONCRETE PROPERTIES AND REINFORCEMENT
For concrete properties; strength, thickness, reinforcement gauge and spacing, refer to specifications and details

CONCRETE COLOUR SELECTION
All concrete colours are selected from (REFER TO TENDER SPECIFICATIONS)

Contractor to use selected colours or approved alternative in areas noted on documents.
Contractor to follow manufacturer's specifications

BLEND AREAS:
In many instances throughout the skatepark - elevation, and degree of slope between banks, transition slopes, and vertical elements can vary. Where indicated on plan, provide custom concrete blending for smooth transitions. These areas typically require greater hand work and quality control to ensure that blends do not result in irregular concrete surface conditions.

CONSTRUCTION SEQUENCE:
1. Construction of all concrete elements within the skatepark are best completed in the following order:
A. Footings and walls with footings
B. Bank slab sections, Steps and Transitions
C. Floor Slab
D. Wall, Ledges and Boxes built on slab.

2. Cast in place concrete slab sections shall be constructed in an alternating arrangement so that every other slab section is completed prior to the pouring of the infill slab section. This system provides edge forming for every alternate slab section and helps ensure quality control. **No slab sections shall exceed 4.0m (linear)** in size without control jointing. - see concrete specs.

3. Cold Joints are provided between each slab section. Place tie bars and dowels through all slab sections and floor slab.

4. Expansion Joints: Shall be placed at the base of all vertical concrete elements such as ledges, stairs and walls. Utilize joint compound no greater than 6.25mm in width to help eliminate tripping or irregularities in skating surface.

5. Saw cut pattern is shown to provide direction only. Contractor shall cut slab as needed to prevent cracking. Saw cuts must be made before any signs of thermal cracking. Thermal cracking as a result of insufficient crack control may result in un-skateable surfaces and may need to be replaced.

DESIGN BY (SKATEPARK)
SKATE SCULPTURE
0450405510
ABN. 82 309 521 292
timyuen@skatesculpture.com.au

STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

ISSUED FOR:

A	11.03.2021	PRELIMINARY REVIEW
B	28.05.2021	85% REVIEW SET

SIGNATURE OF AUTHORITY
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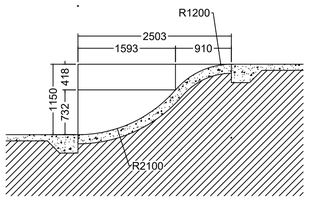
THIS DRAWING IS NOT AUTHORISED FOR CONSTRUCTION UNLESS SIGNED BY PRIMARY CONTACT HERE:

PROJECT
McCALLUM PARK SKATEPARK
PROJECT NUMBER
CLIENT / LGA
TOWN OF VICTORIA PARK

SCALE @ A1: 1:50
0 0.5 1 1.5 2 m

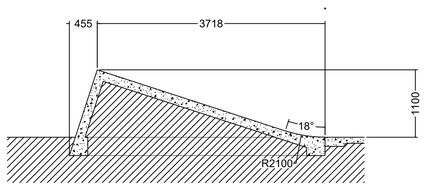
CONCRETE SURFACES PLAN

DRAWING NUMBER: MP-SP-P05B
REV B



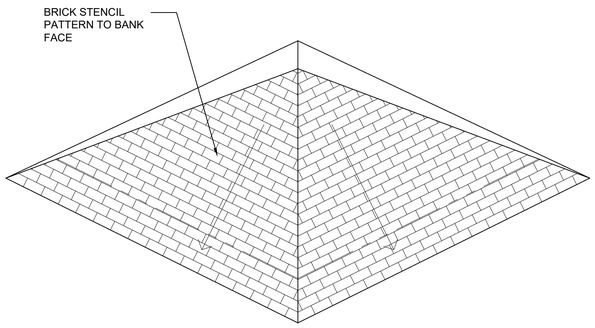
ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL — TT TD01, TRI TD01

1.1 ROLL IN
SCALE: 1:50



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL — TBH TD02

2.1 BANK HIP
SCALE: 1:50



STEEL COPING NOTES : REFER TO PROJECT SPECIFIC DETAILS TO CONFIRM HANDRAIL DIMENSIONS.
ALL STEEL GRINDING EDGES AND STEEL COPING SHALL BE: DURAGAL OR EQUAL APPROVED

ALL METAL WORK SHALL STRICTLY ADHERE TO THE SPECIFIED WALL THICKNESS. ALL METAL WORK SHALL BE GROUND IN SHOP AND JOINED PIECES HOT DIP GALVANIZED PRIOR TO DELIVERY TO SITE. NO MILL SCALE ON METAL SHALL BE TOLERATED. ALL SITE WELDING SHALL BE PRIMED, RETOUCHED AND PAINTED WITH A ZINC RICH SILVER GALVANIZING PAINT (U.N.O) PRIOR TO COMPLETION.

RSP: NB50 X 4.5 CHS. — RM TD03

CPX: CP: NB50 X 4.5 CHS. — CPX TD03

SST: 50mm x 50mm x 4mm SQUARE HSS — SST TD03

FB50: 50mm x 6mm FLAT STEEL BAR — FSB TD03

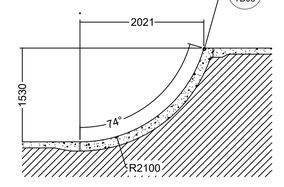
RHS: 150X50X5 RHS 'DURAGAL' TO PERIMETER OF FLOATING CONCRETE LEDGE — RHS TD03

POOL: POOL BLOCK COPING TILE. SEE CONCRETE SURFACES PLAN PLAN

NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

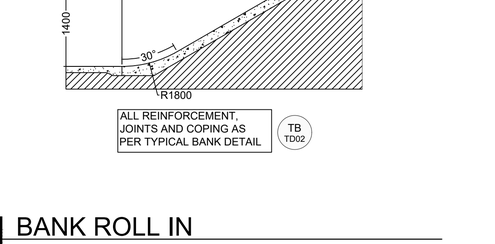
PAINT / COLOUR SCHEDULE

A: RAL 5018 TURQUOISE BLUE

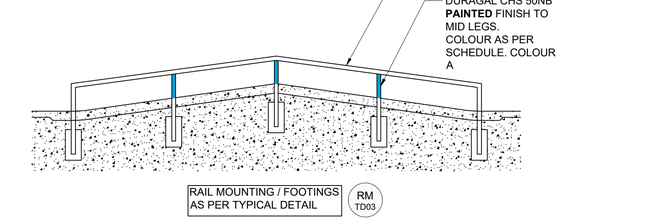


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL — TT TD01

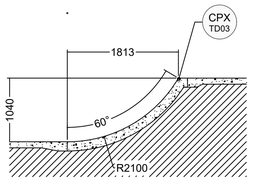
1.2 TRANSITION
SCALE: 1:50



1.5 BANK EXTENSION
SCALE: 1:50

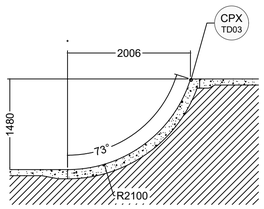


3.1 PLANTER LEDGE
SCALE: 1:50



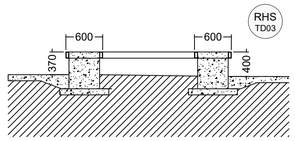
ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL — TT TD01

1.3 TRANSITION
SCALE: 1:50

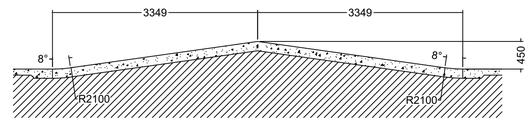


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL — TT TD01

1.6 BANK ROLL IN
SCALE: 1:50



3.2 PLANTER LEDGE
SCALE: 1:50



4.2 A FRAME BANK - SMALL
SCALE: 1:50

ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL — TT TD01

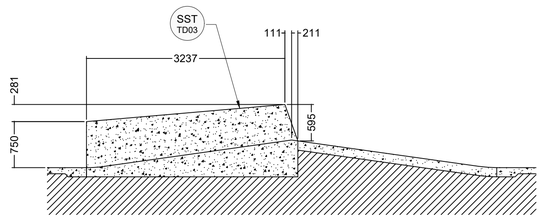
1.4 TRANSITION
SCALE: 1:50

ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL BANK DETAIL — TB TD02

1.7 BANK ROLL IN
SCALE: 1:50

RAIL MOUNTING / FOOTINGS AS PER TYPICAL DETAIL — RM TD03

4.1 A FRAME RAIL
SCALE: 1:50



4.3 HUBBA LEDGE
SCALE: 1:50

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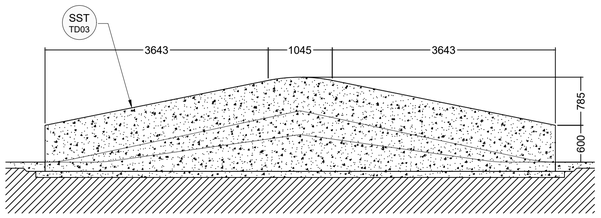
TOWN OF VICTORIA PARK

N

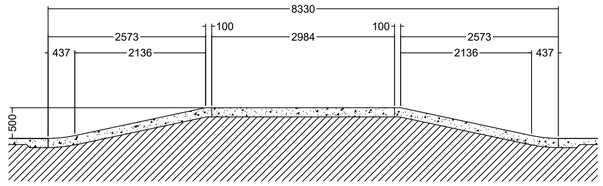
SCALE @ A1:
NA

DETAILS SHEET 1

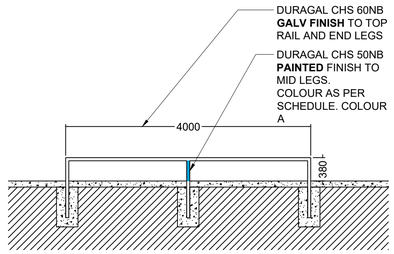
DRAWING NUMBER: MP-SP-D01
REV: B



4.4 BLADE WALL RAIL
SCALE: 1:50



4.8 TABLE TOP
SCALE: 1:50



6.1 RAIL
SCALE: 1:50

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RSP: NB50 X 4.5 CHS. (RM TD03)

CPX: CP: NB50 X 4.5 CHS. (CPX TD03)

SST: 50mm x 50mm x 4mm SQUARE HSS (SST TD03)

FB50: 50mm x 6mm FLAT STEEL BAR (FSB TD03)

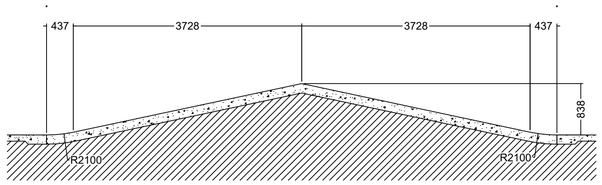
RHS: 150X50X5 RHS 'DURAGAL' TO PERIMETER OF FLOATING CONCRETE LEDGE (RHS TD03)

POOL: POOL BLOCK COPING TILE. SEE CONCRETE SURFACES PLAN PLAN

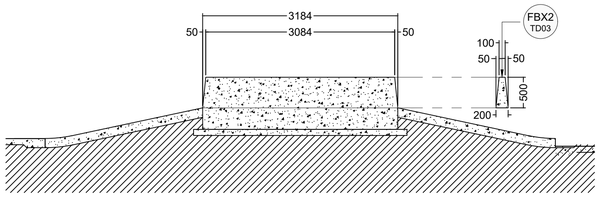
NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

PAINT / COLOUR SCHEDULE

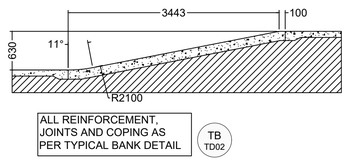
A: RAL 5018 TURQUOISE BLUE



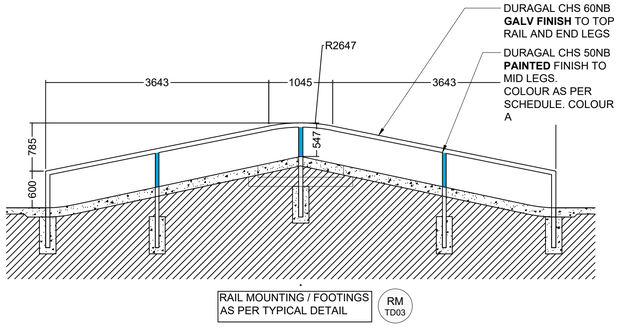
4.5 A FRAME BANK - LARGE
SCALE: 1:50



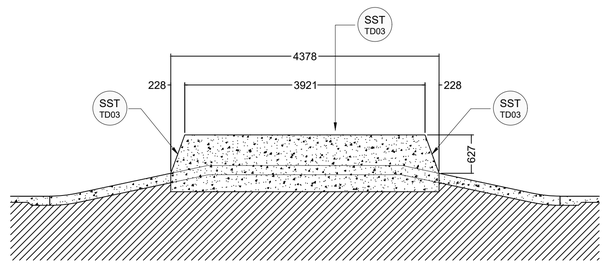
4.9 BARRIER LEDGE
SCALE: 1:50



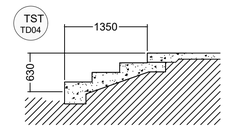
7.1 BANK
SCALE: 1:50



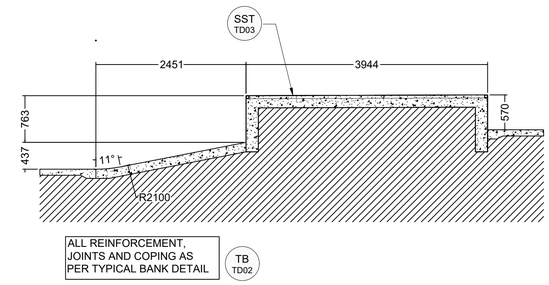
4.6 A FRAME RAIL
SCALE: 1:50



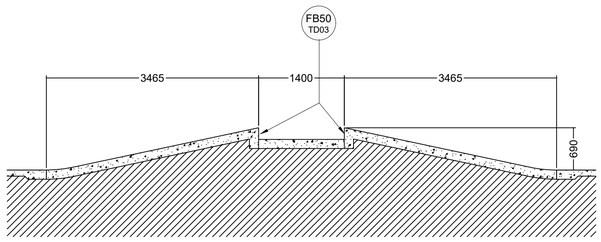
4.10 SLAPPY FACE LEDGE
SCALE: 1:50



7.2 4 STAIR SET
SCALE: 1:50

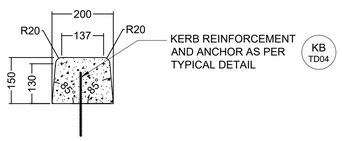


7.4 BANK TO LEDGE
SCALE: 1:50

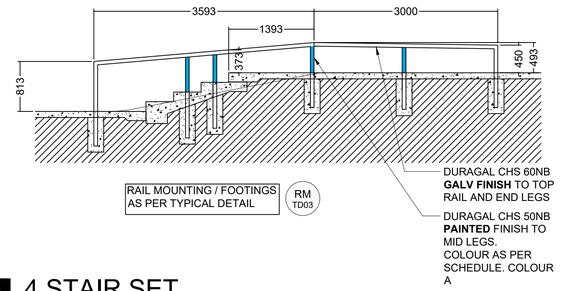


4.7 GAP
SCALE: 1:50

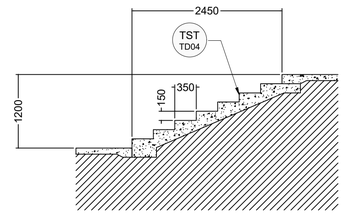
NOTES:
-APPLY ASHFORD FORMULA AND RETRO-PLATE HARDENER TO KERB FACES AND EDGES.
-PROGRAM CONSTRUCTION OF KERB EARLY TO ALLOW ADEQUATE TIME TO HARDEN / CURE BEFORE OPENING.
-SHAPE KERB WITH SHAPED KERB EDGING TOOL TO ENSURE CONSISTENT EDGE CONTINUITY.
-BUFF KERB TO POLISHED FINISH.



5.1 KERB
SCALE: 1:50



7.3 4 STAIR SET
SCALE: 1:50



7.5 STAIR SET
SCALE: 1:50

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STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

PROJECT
McCALLUM PARK SKATEPARK
PROJECT NUMBER
CLIENT / LGA
TOWN OF VICTORIA PARK

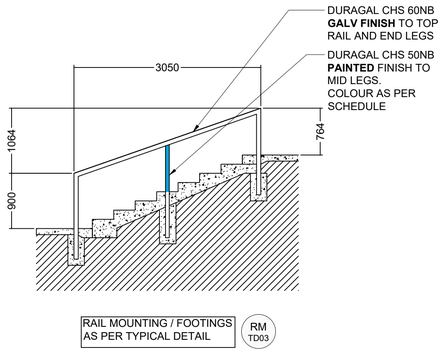
N

SCALE @ A1:
NA

DETAILS SHEET 2

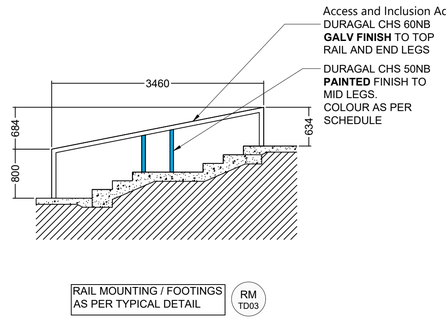
DRAWING NUMBER:
MP-SP-D02

REV
B



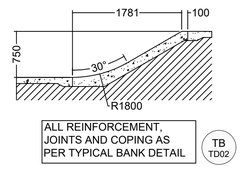
7.5A DOWN RAIL

SCALE: 1:50



7.9 DOWN RAIL

SCALE: 1:50



8.1 SLAPPY BANK (BOTTOM)

SCALE: 1:50

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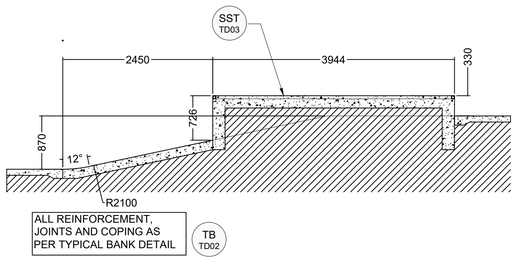
POOL: POOL BLOCK COPING TILE. SEE CONCRETE SURFACES PLAN PLAN

NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

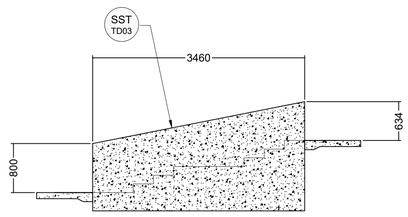
PAINT / COLOUR SCHEDULE

A: RAL 5018 TURQUOISE BLUE



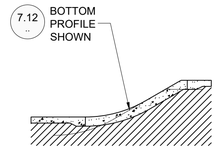
7.6 BANK TO LEDGE

SCALE: 1:50



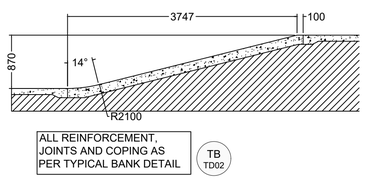
7.10 HUBBA LEDGE

SCALE: 1:50



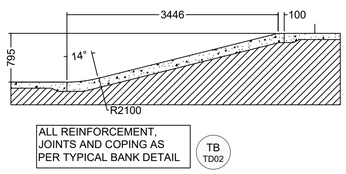
8.2 SLAPPY BANK (TOP)

SCALE: 1:50



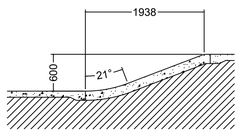
7.7 BANK TO LEDGE

SCALE: 1:50



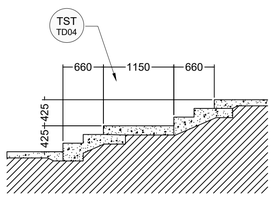
7.11 BANK

SCALE: 1:50



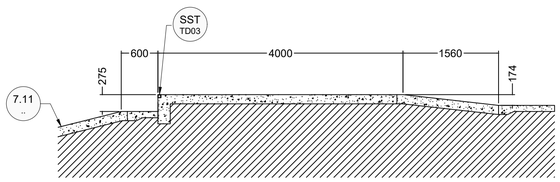
8.3 SLAPPY BANK (TOP END)

SCALE: 1:50



7.8 STAIR SET

SCALE: 1:50



7.12 EUROGAP TO MANUAL PAD

SCALE: 1:50

DESIGN BY (SKATEPARK)
SKATE SCULPTURE

0450405510
ABN. 87 309 521 292
timyuen@skatesculpture.com.au

STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

ISSUED FOR:

A	11.03.2021	PRELIMINARY REVIEW
B	28.05.2021	85% REVIEW SET

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PROJECT
McCALLUM PARK SKATEPARK
PROJECT NUMBER

CLIENT / LGA
TOWN OF VICTORIA PARK

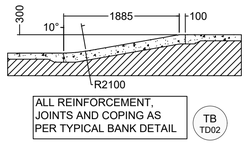
N

SCALE @ A1:
NA

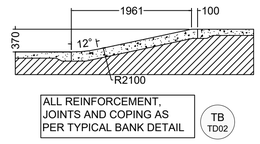
DETAILS SHEET 3

DRAWING NUMBER: MP-SP-D03

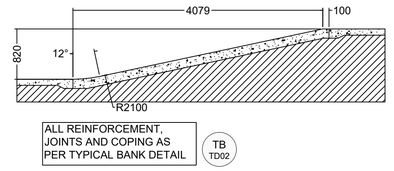
REV B



9.1 BANK
SCALE: 1:50



11.1 SLAPPY BANK (BOTTOM)
SCALE: 1:50



11.5 BANK
SCALE: 1:50

STEEL COPING NOTES : REFER TO PROJECT SPECIFIC DETAILS TO CONFIRM HANDRAIL DIMENSIONS.
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RSP: NB50 X 4.5 CHS. RM TD03

CPX: CP: NB50 X 4.5 CHS. CPX TD03

SST: 50mm x 50mm x 4mm SQUARE HSS SST TD03

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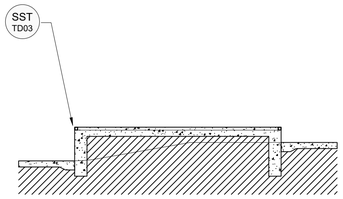
RHS: 150X50X5 RHS 'DURAGAL' TO PERIMETER OF FLOATING CONCRETE LEDGE RHS TD03

POOL: POOL BLOCK COPING TILE. SEE CONCRETE SURFACES PLAN PLAN

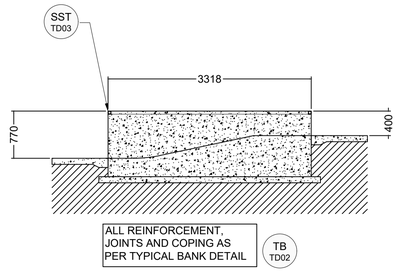
NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

PAINT / COLOUR SCHEDULE

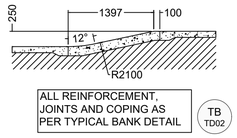
A: RAL 5018 TURQUOISE BLUE



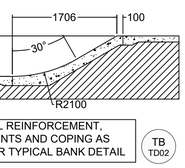
9.2 PIER 7 LEDGE
SCALE: 1:50



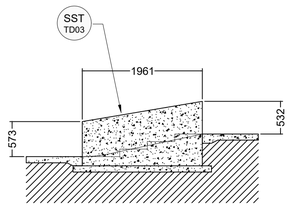
11.2 LEDGE WALL
SCALE: 1:50



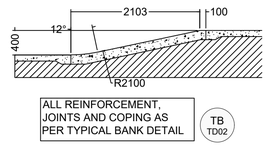
11.6 BANK
SCALE: 1:50



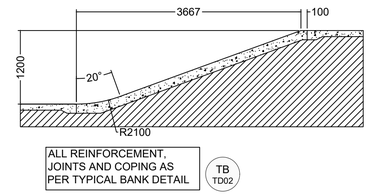
10.1 SLAPPY BANK
SCALE: 1:50



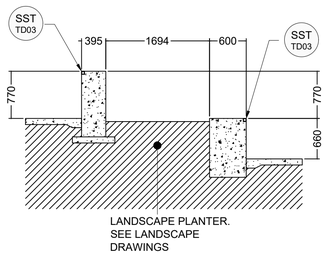
11.3 HUBBA LEDGE
SCALE: 1:50



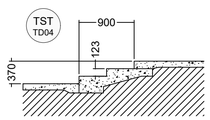
11.7 QUARTER PIPE
SCALE: 1:50



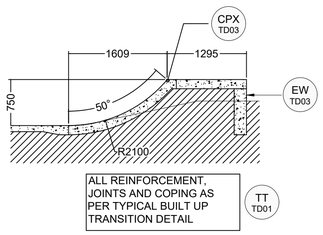
12.1 BANK
SCALE: 1:50



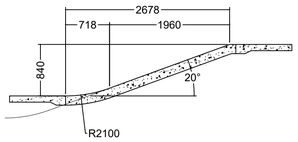
10.2 PLANTER
SCALE: 1:50



11.4 STEPS
SCALE: 1:50



11.8 QUARTER PIPE
SCALE: 1:50



12.2 BANK
SCALE: 1:50

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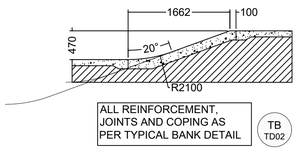
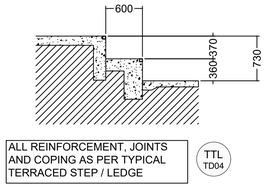
SCALE @ A1:
NA

DETAILS SHEET 4

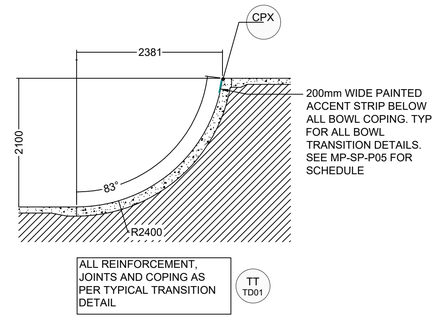
DRAWING NUMBER: MP-SP-D04
REV B



12.3 BANK
SCALE: 1:50



12.7 STEP UP LEDGE
SCALE: 1:50



B1 BOWL TRANSITION PROFILE
SCALE: 1:50

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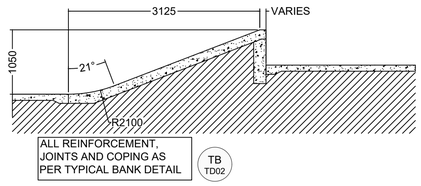
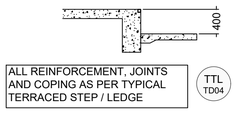
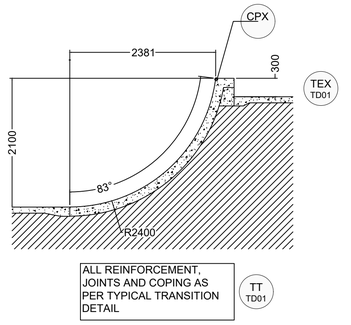


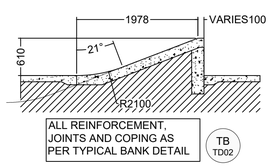
12.4 BANK
SCALE: 1:50



13.1 STEP UP LEDGE
SCALE: 1:50



B2 BOWL TRANSITION PROFILE
SCALE: 1:50



12.5 BANK
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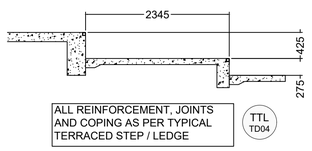
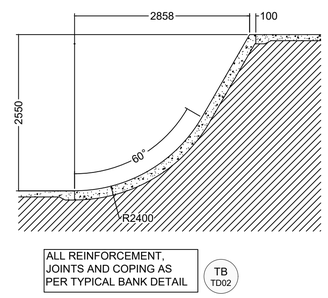
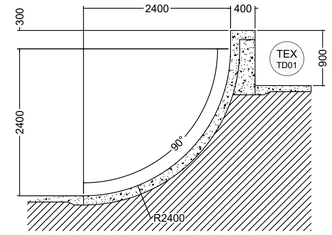


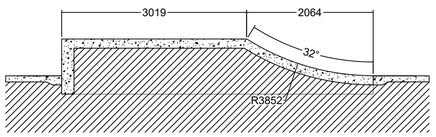
13.2 STEP UP LEDGE
SCALE: 1:50



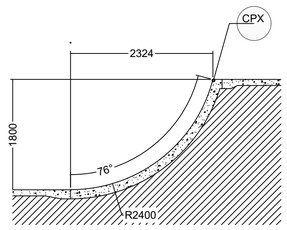
B3 BOWL TRANSITION PROFILE
SCALE: 1:50



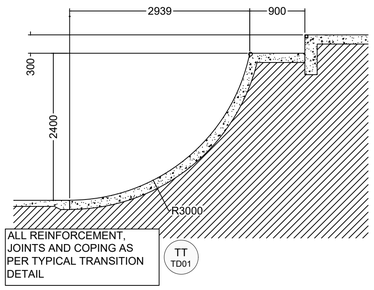
B5 BOWL TRANSITION PROFILE
SCALE: 1:50



12.6 BANK
SCALE: 1:50



B4 BOWL TRANSITION PROFILE
SCALE: 1:50



B6 BOWL TRANSITION PROFILE
SCALE: 1:50

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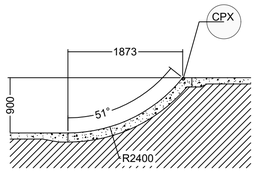
SCALE @ A1:
NA

DETAILS SHEET 5

DRAWING NUMBER: MP-SP-D05

REV B

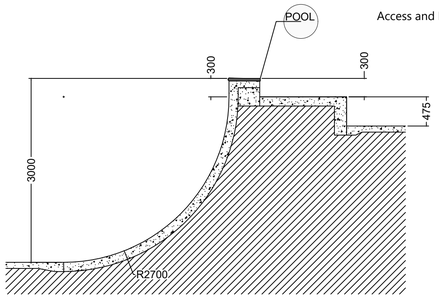


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL

TT TD01

B7 BOWL TRANSITION PROFILE

SCALE: 1:50



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL

TT TD01

B11 BOWL TRANSITION PROFILE

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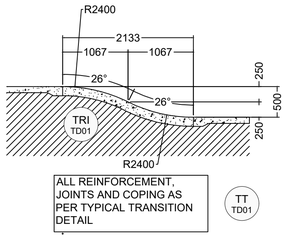
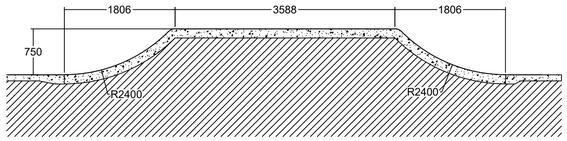


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL

TT TD01

B15 BOWL WATERFALL PROFILE

SCALE: 1:50

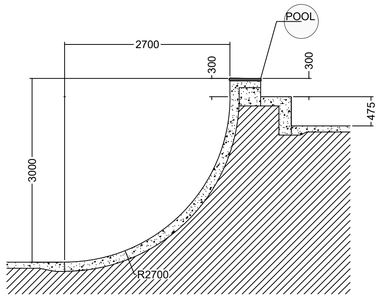


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL

TT TD01

B8 BOWL TRANSITION PROFILE

SCALE: 1:50



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL

TT TD01

B12 BOWL TRANSITION PROFILE

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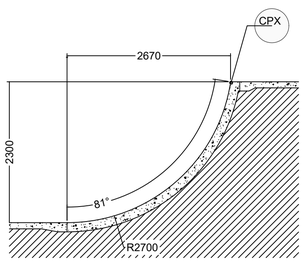
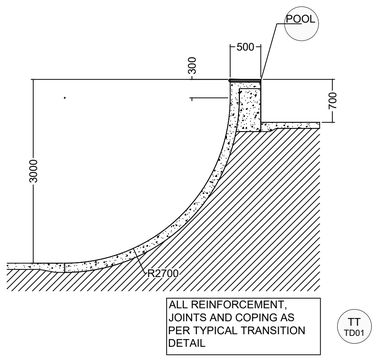


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL

TT TD01

B9 BOWL TRANSITION PROFILE

SCALE: 1:50

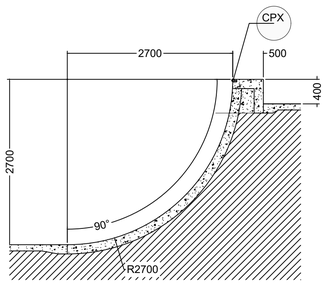


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL

TT TD01

B13 BOWL TRANSITION PROFILE

SCALE: 1:50

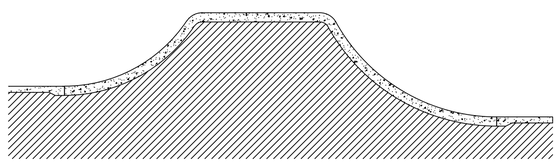


ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL

TT TD01

B10 BOWL TRANSITION PROFILE

SCALE: 1:50



ALL REINFORCEMENT, JOINTS AND COPING AS PER TYPICAL TRANSITION DETAIL

TT TD01

B14 BOWL TRANSITION PROFILE

SCALE: 1:50

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A: RAL 5018 TURQUOISE BLUE

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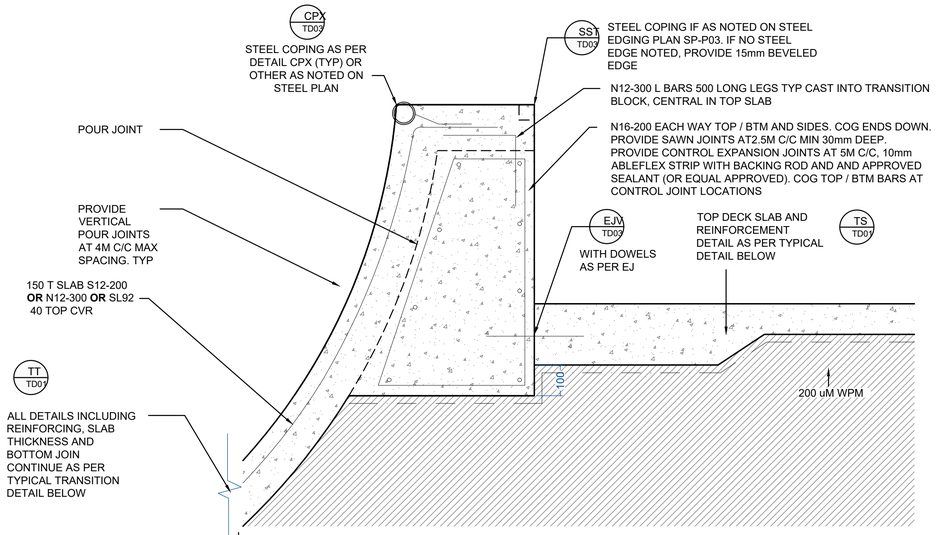
SCALE @ A1:
NA

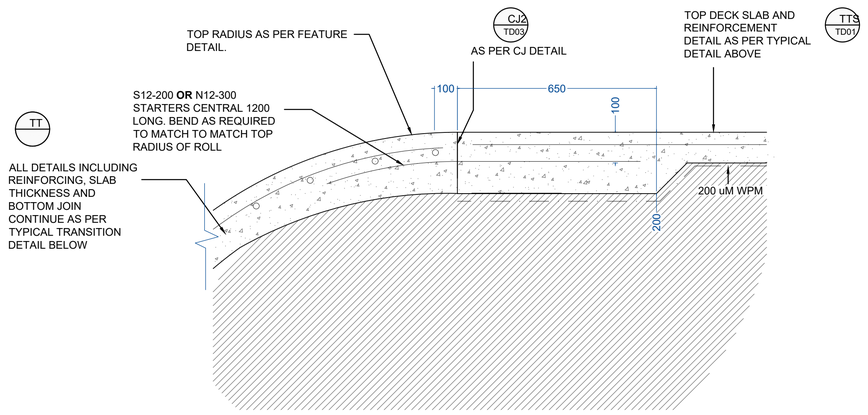
DETAILS SHEET 6

DRAWING NUMBER:
MP-SP-D06

REV
B



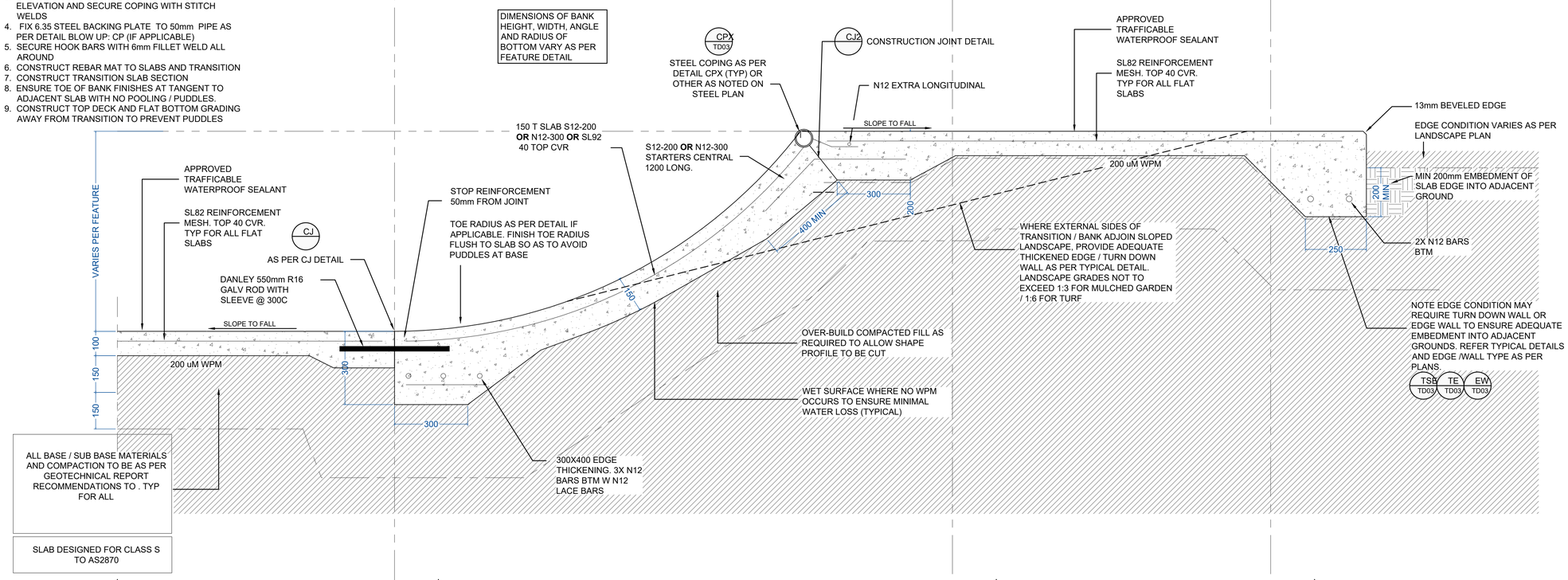
TEX **TYPICAL TRANSITION EXTENSION (VERTICAL)**
- 1:10



TRI **TYPICAL JOIN - TOP OF ROLL IN**
- 1:10

TYPICAL CONSTRUCTION SEQUENCE: TRANSITIONS

1. CONSTRUCT SLOPE STABILIZATION SLAB WITH EXPOSED REBAR BENDS PROTRUDING WILD
2. PREPARE SUB GRADE MATERIAL
3. CUT EXPOSED REBAR BENDS TO CORRECT ELEVATION AND SECURE COPING WITH STITCH WELDS
4. FIX 6.35 STEEL BACKING PLATE TO 50mm PIPE AS PER DETAIL BLOW UP: CP (IF APPLICABLE)
5. SECURE HOOK BARS WITH 6mm FILLET WELD ALL AROUND
6. CONSTRUCT REBAR MAT TO SLABS AND TRANSITION
7. CONSTRUCT TRANSITION SLAB SECTION
8. ENSURE TOE OF BANK FINISHES AT TANGENT TO ADJACENT SLAB WITH NO POOLING / PUDDLES.
9. CONSTRUCT TOP DECK AND FLAT BOTTOM GRADING AWAY FROM TRANSITION TO PREVENT PUDDLES



TS **TYPICAL FLAT SLAB DETAIL**
- 1:10

TT **TYPICAL TRANSITION DETAIL**
- 1:10

TTS **TYPICAL TOP DECK DETAIL**
- 1:10

TSE **TYPICAL SLAB EDGE DETAIL**
- 1:10

DESIGN BY (SKATEPARK)
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0450405510
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timyuen@skatesculpture.com.au

STRUCTURAL ENGINEER STAMP
WA STRUCTURAL

ISSUED FOR:

A	11.03.2021	PRELIMINARY REVIEW	
B	28.05.2021	85% REVIEW SET	

SIGNATURE OF AUTHORITY
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PROJECT
McCALLUM PARK SKATEPARK
PROJECT NUMBER
CLIENT / LGA
TOWN OF VICTORIA PARK

N

SCALE @ A1:
NA

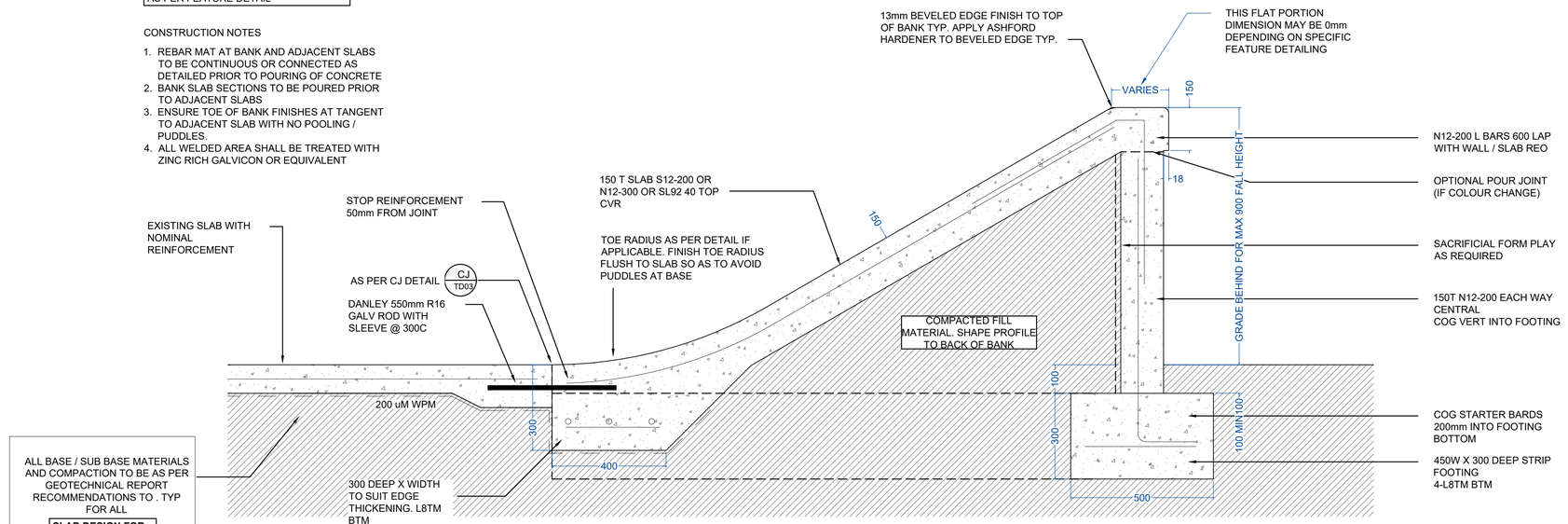
TYPICAL DETAILS SHEET 1

DRAWING NUMBER: MP-SP-TD01
REV B

DIMENSIONS OF BANK HEIGHT, WIDTH, ANGLE AND RADIUS OF BOTTOM VARY AS PER FEATURE DETAIL

CONSTRUCTION NOTES

1. REBAR MAT AT BANK AND ADJACENT SLABS TO BE CONTINUOUS OR CONNECTED AS DETAILED PRIOR TO POURING OF CONCRETE
2. BANK SLAB SECTIONS TO BE POURED PRIOR TO ADJACENT SLABS
3. ENSURE TOE OF BANK FINISHES AT TANGENT TO ADJACENT SLAB WITH NO POOLING / PUDDLES.
4. ALL WELDED AREA SHALL BE TREATED WITH ZINC RICH GALVICON OR EQUIVALENT

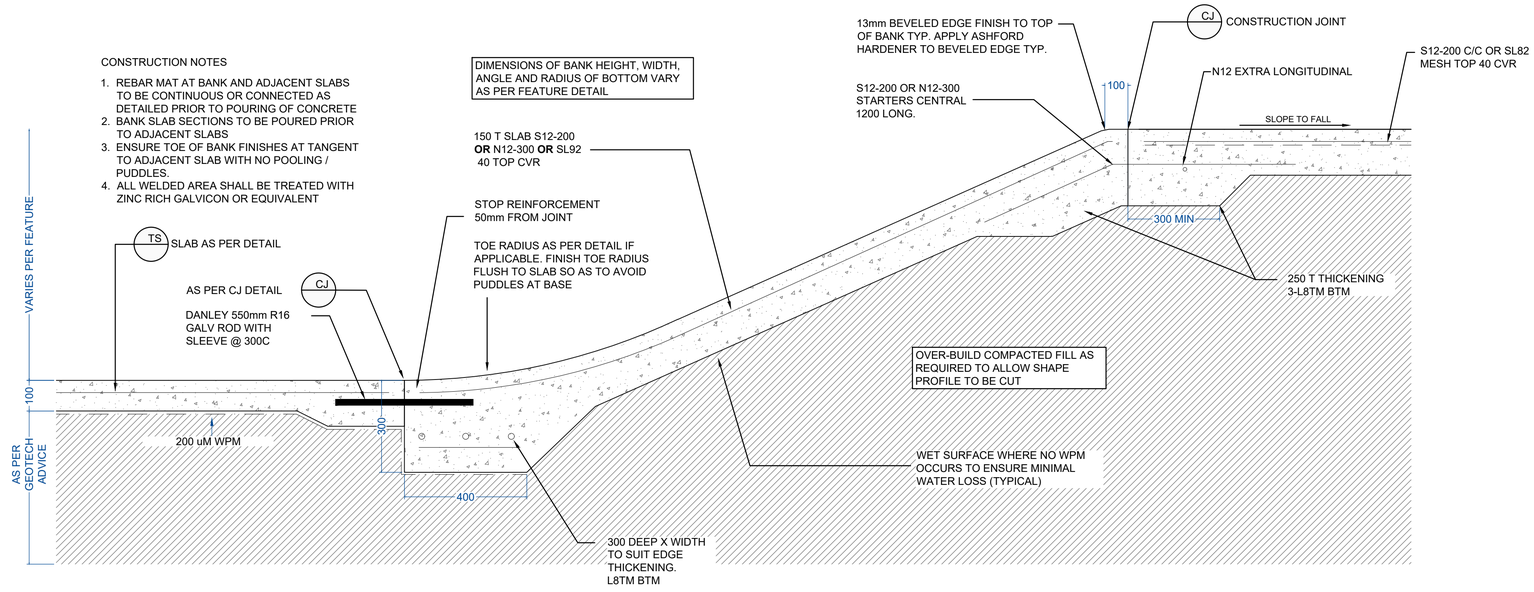


TBH | **TYPICAL BUILT UP BANK / HIP DETAIL**
- | 1:10

CONSTRUCTION NOTES

1. REBAR MAT AT BANK AND ADJACENT SLABS TO BE CONTINUOUS OR CONNECTED AS DETAILED PRIOR TO POURING OF CONCRETE
2. BANK SLAB SECTIONS TO BE POURED PRIOR TO ADJACENT SLABS
3. ENSURE TOE OF BANK FINISHES AT TANGENT TO ADJACENT SLAB WITH NO POOLING / PUDDLES.
4. ALL WELDED AREA SHALL BE TREATED WITH ZINC RICH GALVICON OR EQUIVALENT

DIMENSIONS OF BANK HEIGHT, WIDTH, ANGLE AND RADIUS OF BOTTOM VARY AS PER FEATURE DETAIL



TB | **TYPICAL BANK DETAIL**
- | 1:10

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SCALE @ A1:
NA

TYPICAL DETAILS SHEET 2

DRAWING NUMBER: MP-SP-TD02
REV B

NOTES:

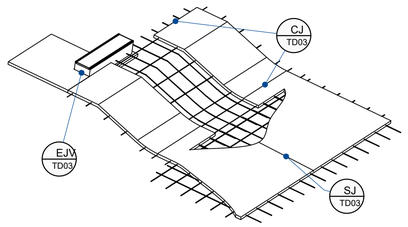
1. CONSTRUCTION OF ALL CONCRETE ELEMENTS WITHIN THE SKATEPARK ARE BEST COMPLETED IN THE FOLLOWING ORDER:
   A. FOOTINGS AND WALLS WITH FOOTINGS
   B. BANK SLAB SECTIONS, STEPS AND TRANSITIONS
   C. FLOOR SLAB
   D. WALL, LEDGES AND BOXES BUILT ON SLAB.

2. CAST IN PLACE CONCRETE SLAB SECTIONS SHALL BE CONSTRUCTED IN AN ALTERNATING ARRANGEMENT SO THAT EVERY OTHER SLAB SECTION IS COMPLETED PRIOR TO THE POURING OF THE INFILL SLAB SECTION. THIS SYSTEM PROVIDES EDGE FORMING FOR EVERY ALTERNATE SLAB SECTION AND HELPS ENSURE QUALITY CONTROL. NO SLAB SECTIONS SHALL EXCEED 4.0M (LINEAR) IN SIZE WITHOUT CONTROL JOINTING. -SEE CONCRETE SPECS.

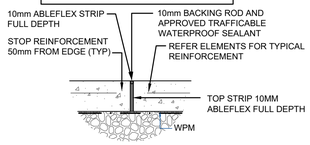
3. COLD JOINTS ARE PROVIDED BETWEEN EACH SLAB SECTION. PLACE TIE BARS AND DOWELS OR CONTINUOUS REBAR (ROUND DEFORMED REINFORCING STEEL) THROUGH ALL SLAB SECTIONS AND FLOOR SLAB.

4. EXPANSION JOINTS: SHALL BE PLACED AT THE BASE OF ALL VERTICAL CONCRETE ELEMENTS SUCH AS LEDGES, STAIRS AND WALLS. UTILIZE JOINT COMPOUND NO GREATER THAN 6.25MM IN WIDTH TO HELP ELIMINATE TRIPPING OR IRREGULARITIES IN SKATING SURFACE.

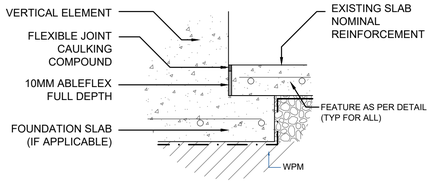
5. SAW CUT PATTERN IS SHOWN TO PROVIDE DIRECTION. CONTRACTOR SHALL CUT SLAB AS NEEDED TO PREVENT CRACKING. SAW CUTS MUST BE MADE BEFORE ANY SIGNS OF THERMAL CRACKING. THERMAL CRACKING AS A RESULT OF INSUFFICIENT CRACK CONTROL MAY RESULT IN UN-SKATEABLE SURFACES AND MAY NEED TO BE REPLACED.



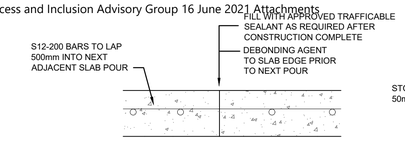
EJ DETAIL NOT TO BE PLACED SO AS TO CROSS DIRECTION OF SKATEPARK FLOW



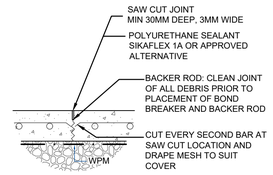
EJ TYPICAL EXPANSION JOINT DETAIL
1:10



EJV TYPICAL EXPANSION JOINT AT VERTICAL
1 : 10

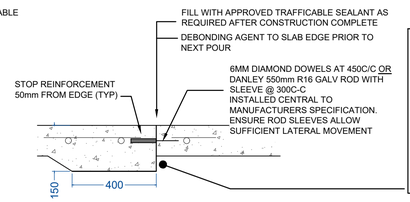


PJ CHANGE IN POUR
1 : 10



NOTE:
SAW CUT WITHIN 24 HOURS OF SLAB POUR

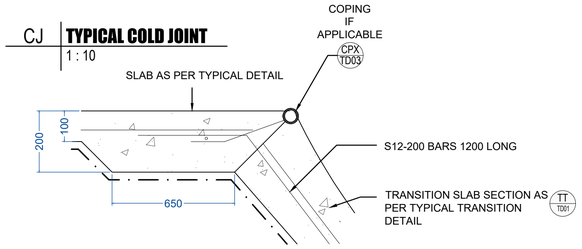
SJ TYPICAL SAW CUT
1 : 10



TYPICAL COLD JOINT AS SHOWN TO BE LOCATED IN THE FOLLOWING INSTANCES:
-BANK TOE TO FLAT SLAB
-BANK TOP TO FLAT SLAB
-TRANSITION TOE TO FLAT SLAB
-TRANSITION TOP TO FLAT SLAB WHERE NO STEEL COPING INCLUDED
-FLAT SLAB TO FLAT SLAB

THICKENED SLAB IS NOT REQUIRED BETWEEN ALTERNATING SLAB SECTION POURS FOR BANKS AND TRANSITIONS AS OUTLINED IN **CONSTRUCTION SEQUENCE NOTES ON CONCRETE AND JOINT PLAN**

CJ TYPICAL COLD JOINT
1 : 10



CJ2 TYPICAL COLD JOINT (TOP OF TRANSITION)
1 : 10

STEEL COPING NOTES : REFER TO PROJECT SPECIFIC DETAILS TO CONFIRM HANDRAIL DIMENSIONS.
ALL STEEL GRINDING EDGES AND STEEL COPING SHALL BE: DURAGAL OR EQUAL APPROVED

ALL METAL WORK SHALL STRICTLY ADHERE TO THE SPECIFIED WALL THICKNESS. ALL METAL WORK SHALL BE GROUND IN SHOP AND JOINED PIECES HOT DIP GALVANIZED PRIOR TO DELIVERY TO SITE. NO MILL SCALE ON METAL SHALL BE TOLERATED. ALL SITE WELDING SHALL BE PRIMED, RETOUCHED AND PAINTED WITH A ZINC RICH SILVER GALVANIZING PAINT (U.N.O) PRIOR TO COMPLETION.

RSP: NB50 X 4.5 CHS. RM TD03

CPX: CP: NB50 X 4.5 CHS. CPX TD03

SST: 50mm x 50mm x 4mm SQUARE HSS SST TD03

FB50: 50mm x 6mm FLAT STEEL BAR FSB TD03

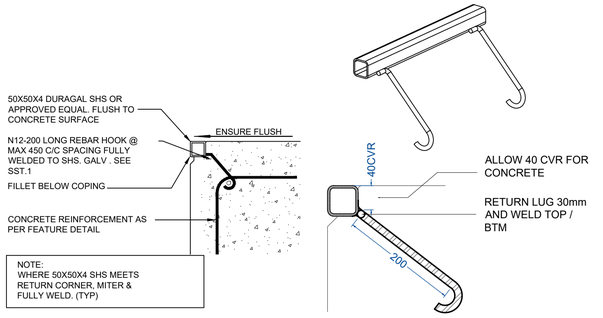
RHS: 150X50X5 RHS 'DURAGAL' TO PERIMETER OF FLOATING CONCRETE LEDGE RHS TD03

POOL: POOL BLOCK COPING TILE. SEE CONCRETE SURFACES PLAN PLAN

NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

PAINT / COLOUR SCHEDULE

A: RAL 5018 TURQUOISE BLUE



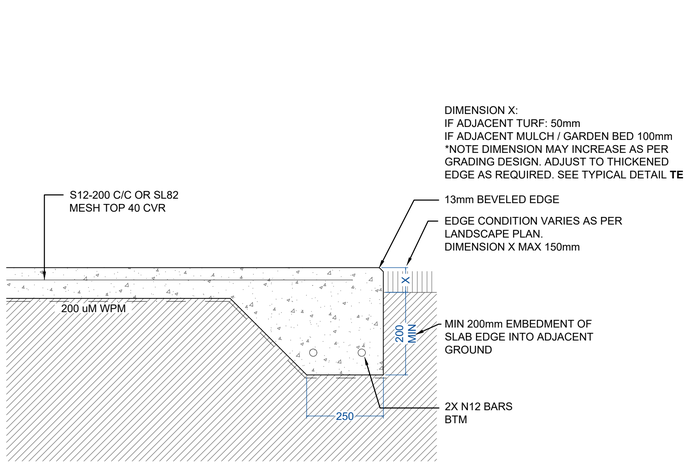
SST SQUARE STEEL TUBE COPING
SCALE: 1:10

FSB FLAT STEEL BAR COPING
SCALE: 1:10

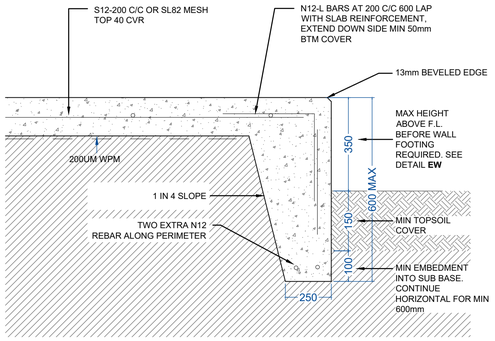
RM TYPICAL RAIL MOUNTING DETAIL
SCALE: 1:10

* NOTE: CPX COPING OFFSET IS A CRITICAL DIMENSION FOR FUNCTION OF SKATEPARK. 6-9mm IS TO BE TARGETED WHEN FINISHING CONCRETE. MEASURE AND NOTIFY SUPERINTENDENT FOLLOWING COMPLETION FOR REVIEW. (AS14974:2019), REQUIRES THIS DIMENSION TO COMPLY WITHIN A RANGE OF 5mm-20mm. DEVIATION OF OFFSET OF COPING OUTSIDE OF TOLERANCE DIMENSIONS WILL REMOVAL AND RE-BUILD AT CONTRACTORS EXPENSE.

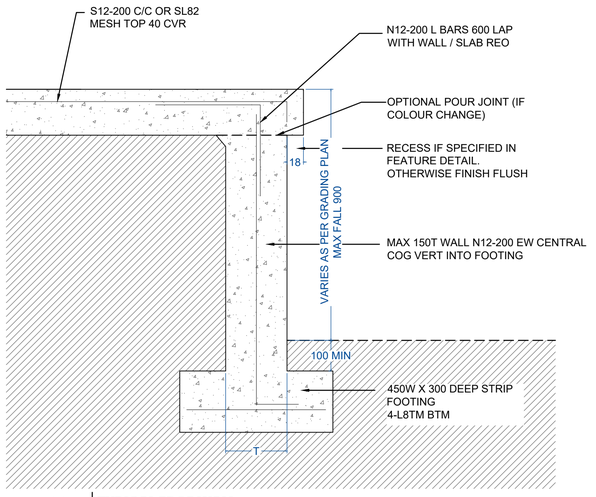
CPX CHS COPING
SCALE: 1:10



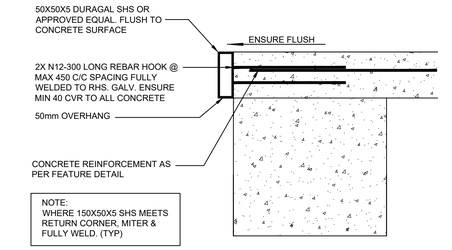
TSE TYPICAL EDGE OF SLAB
1:10



TE TYPICAL THICKENED EDGE
1:10



EW TYPICAL EDGE WALL
1:10



RHS RHS COPING
SCALE: 1:10

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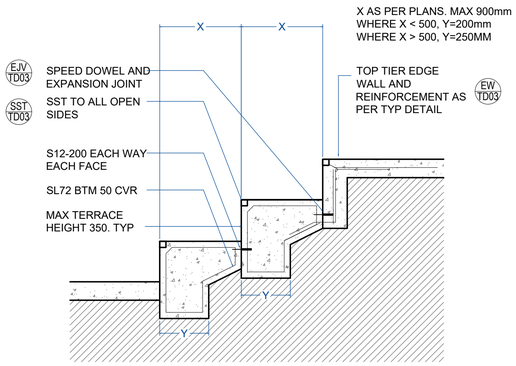
N

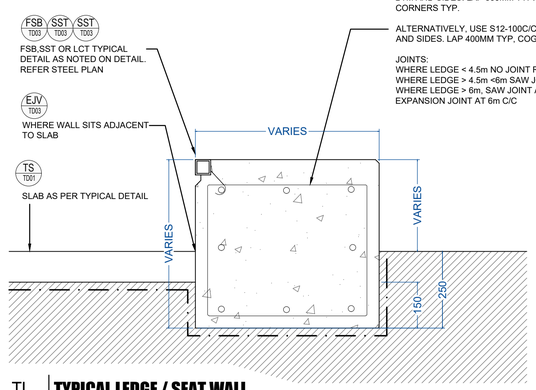
SCALE @ A1:
NA

TYPICAL DETAILS SHEET 3

DRAWING NUMBER: MP-SP-TD03
REV B

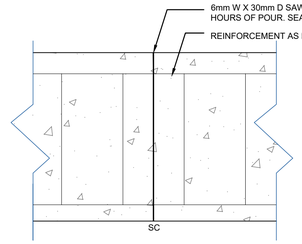


TTL | **TERRACED STEP / LEDGE**
- | 1:10

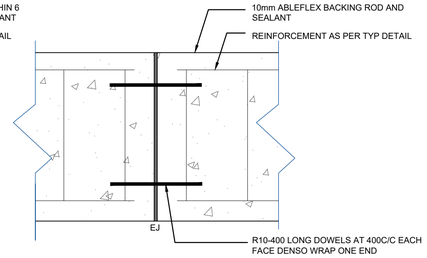


TL | **TYPICAL LEDGE / SEAT WALL**
- | 1:10

NOTE: EXPANSION JOINT IN LEDGE IS NOT TO BE USED IN 'SKATEABLE' LEDGES THAT CONTAIN EDGE COPING AND IS INCLUDED ONLY FOR NON-SKATE WALLS OR CONCRETE LEDGES / WALLS WITH NO STEEL COPING. NOTIFY SUPERINTENDENT OR DESIGN REPRESENTATIVE FOR CONFIRMATION BEFORE PREPARING ANY EXPANSION JOINTS TO SKATEPARK LEDGE FEATURES THAT INCLUDE STEEL COPING



TL-SC | **TYPICAL LEDGE / WALL SAW CUT**
- | 1:10



TL-EJ | **TYPICAL LEDGE / WALL EXPANSION JOINT**
- | 1:10

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RHS: 150X50X5 RHS 'DURAGAL' TO PERIMETER OF FLOATING CONCRETE LEDGE RHS TD03

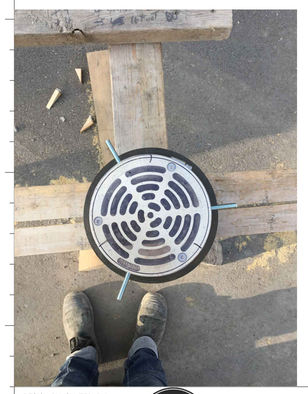
POOL: POOL BLOCK COPING TILE. SEE CONCRETE SURFACES PLAN PLAN

NO: "NOPING" CONCRETE EDGE ONLY. R60 ROUND FILLET

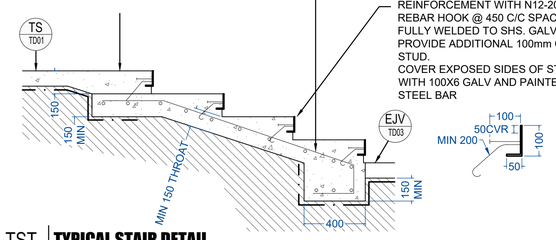
PAINT / COLOUR SCHEDULE

A: RAL 5018 TURQUOISE BLUE

EXAMPLE OF MODIFIED AREA DRAIN SURROUND SO AS TO PREVENT SINKING BELOW FLUSH

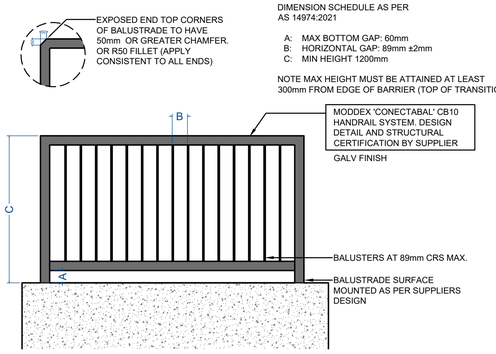


INCREASE EDGE THICKENING TO SUIT SHOWN DIMENSIONS AT STAIR LOCATION.

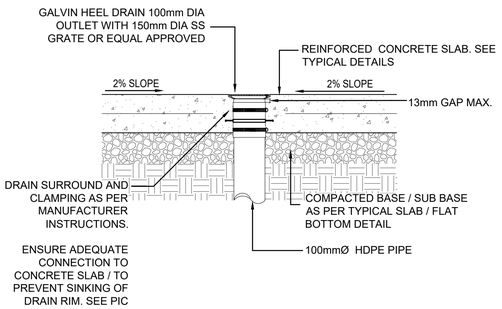


TST | **TYPICAL STAIR DETAIL**
- | 1:20

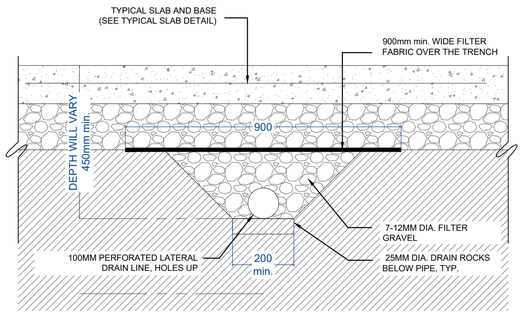
TMP | **TYPICAL MANUAL PAD**
- | 1:10



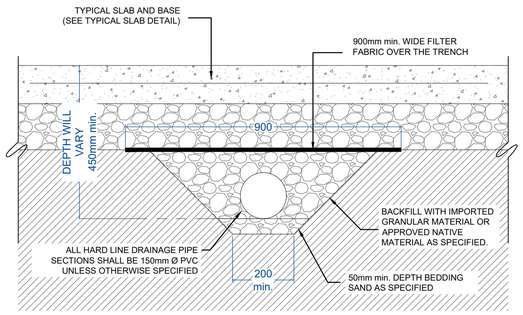
F1 | **TYPICAL BALUSTRADE DETAIL**
- | 1:25



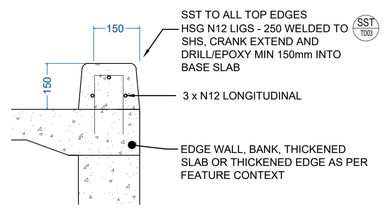
FD | **TYPICAL FLOOR DRAIN**
- | 1:10



PDP | **PERFORATE DRAINAGE PIPE**
- | 1:10



HLDP | **HARD LINE DRAINAGE PIPE**
- | 1:10



KB | **TYPICAL KERB DETAIL**
- | 1:10

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SCALE @ A1:
NA

TYPICAL DETAILS SHEET 4

DRAWING NUMBER:
MP-SP-TD04

REV
B