

An aerial photograph of Sydney, Australia, featuring the Sydney Football Stadium in the foreground. The stadium has a distinctive white, ribbed, oval-shaped roof. The surrounding area includes a mix of urban development, green spaces, and a body of water. In the background, the Sydney city skyline is visible, including the Sydney Tower and the Sydney Harbour Bridge. The image is used as a background for a document cover.




SYDNEY FOOTBALL STADIUM

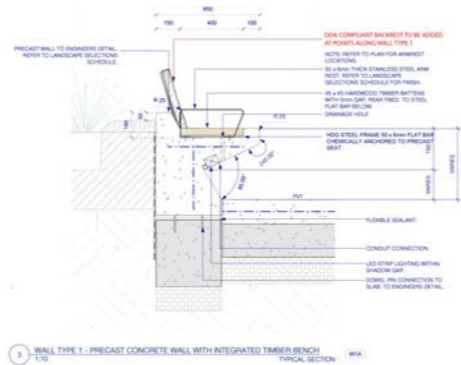
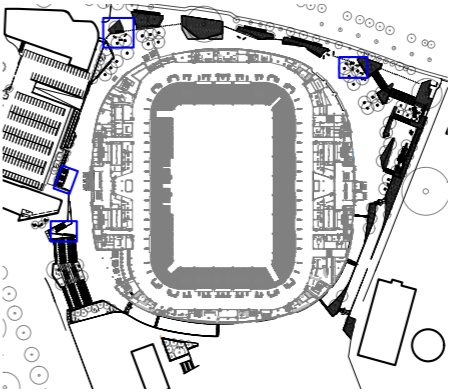
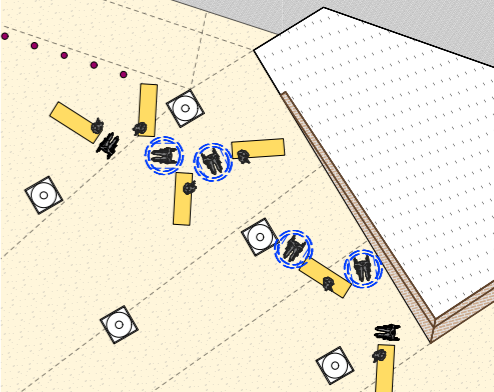
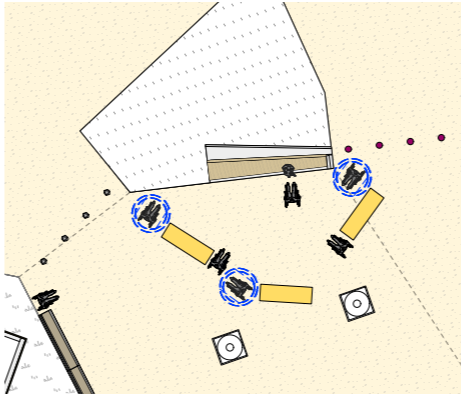
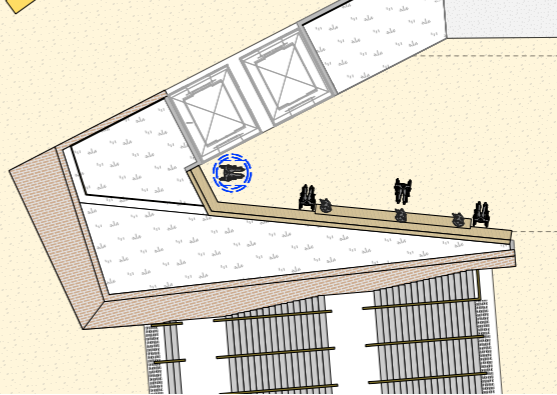
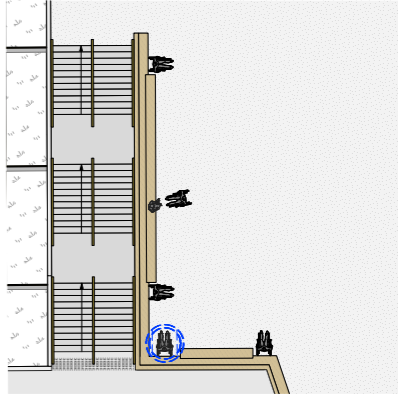
RESPONSE TO SUBMISSIONS

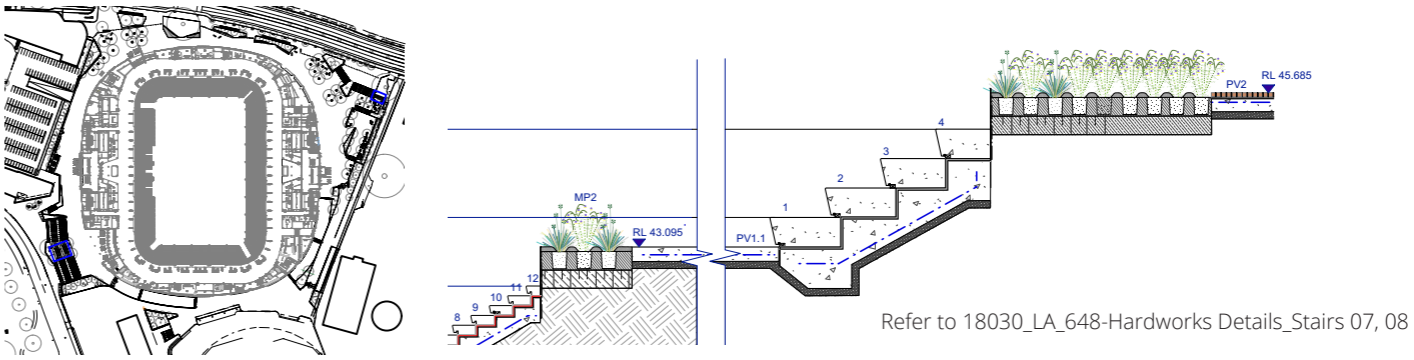
LANDSCAPE AND PUBLIC DOMAIN

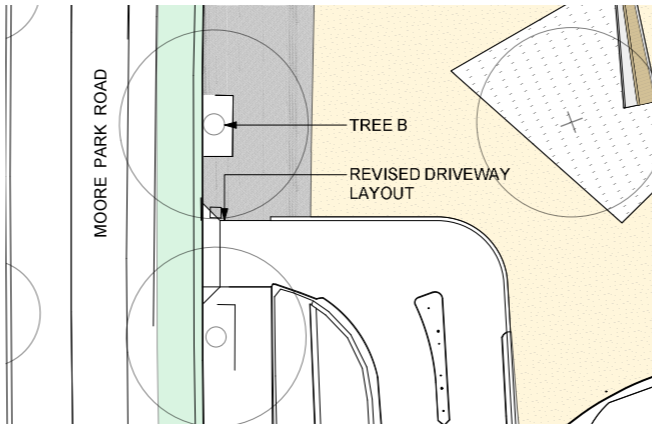
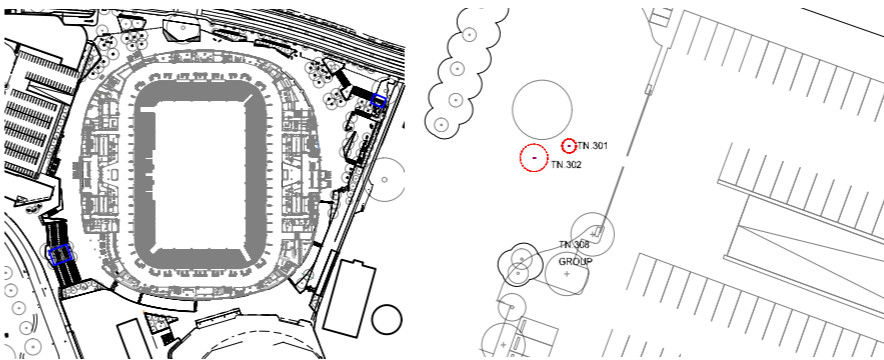
REV. 2

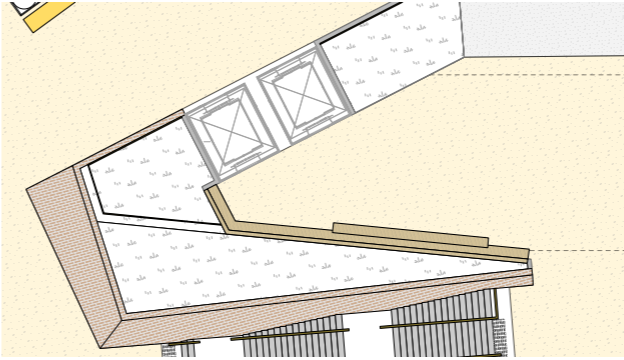
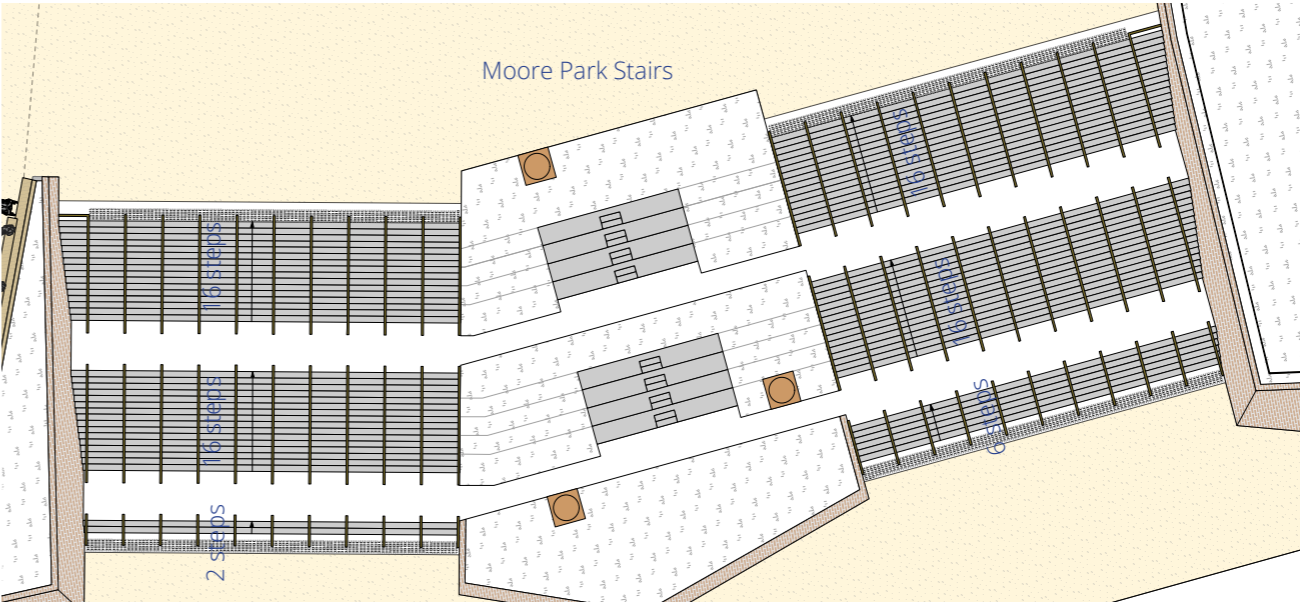
DATE: AUGUST 26, 2019

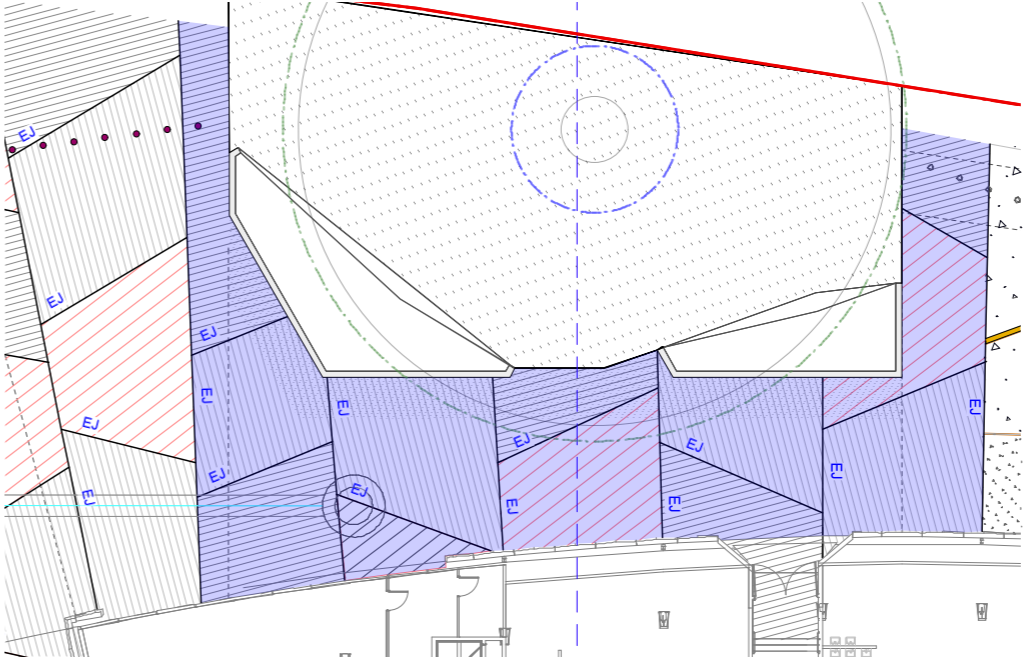
Item	Objection	Response	Public Domain Reference
1.1.1 Moore Park Steps	<p>The provision and reliance on 2 lifts adjacent to Driver Avenue for step free access is unacceptable and does not provide the optimal access outcome for a continuous accessible path of travel.</p> <p>An alternative design that includes an access ramp or series of ramps into the Driver Avenue entry must be investigated to ensure that equitable access is provided for everyone.</p>	<p>A ramp to mitigate 6140mm level change between Driver Avenue and the concourse would need to be a minimum length of 98.5m. It was the design teams' conclusion that expecting wheel chair users to travel this distance would be inequitable and incorporating this into one ramp would not meet BCA requirements.</p>	
1.1.2 Public Domain Materials	<p>The small brick pavers on such a large scale can be problematic and can lead to uneven surfaces, which are uncomfortable for people with injuries and can be difficult for people with wheelchairs and limited mobility.</p>	<p>The selection of brick pavers was informed by the CoS streets code, the site context of Paddington and to bring a human scale to the expansive concourse.</p> <p>In ASPECT's experience brick pavers are only problematic when laid on a sand substrate, with brick pavers migrating over time. For the Sydney Football Stadium, brick pavers have been specified laid on a concrete slab with mortar joints. We are confident that this application will result in consistent and even surface.</p> <p>A number of projects within The City of Sydney including, ATP, Kensington Street and Newcombe Street successfully use brick and are comparable publicly accessible spaces. All encounter a similar level of access by people with limited mobility and posed no significant hindrance to affected members of the public.</p> <p>The mitigation measures have been updated to reinforce this commitment. (An appropriately worded condition requiring the detailing of specified materials would be acceptable to Infrastructure NSW).</p>	<div><p>Australian Technology Park, Sydney</p><p>Kensington Street , Chippendale</p><p>Newcombe Street, Paddington</p></div>

Item	Objection	Response	Public Domain Reference
1.1.2 Public Domain Materials	<p>Ensure that some integrated seating include back and arm rests to make seating more inclusive for the elderly.,</p> <p>Provide regularly recessed areas in integrated seating to enable wheelchair users and families with prams to sit together;</p>	<p>ASPECT Studios have reviewed the Draft policy and guidelines for inclusive and accessible public spaces and events and note that in principle the public domain design adheres to these guidelines and requirements and has been designed in accordance with Australian Standards, The BCA and Green Guide. The SFS Public Domain works are entirely located within the project site boundary but are inherently connected back to the CoS public spaces of Moore Park Road and Driver Ave. Providing clear and accessible connections between the site and adjoining public domain have been a key focus of this project.</p> <p>The public domain design has focused specifically on creating a public concourse that is entirely accessible – achieved via max 1:20 walkways. In some areas 1:14 ramps have been utilised; however these are located away from zones with consistently large pedestrian volumes.</p> <p>To achieve an accessible concourse with flush entries into the stadium, the concourse has been raised to the Moore Park Road Level affording predominantly flush connections in to the site for the majority of the northern boundary (which is currently inaccessible). Stair access has been introduced at the Driver Ave connection at the pinch point between the existing NRL building and cricket practice wickets. Two public lifts are located in this area to provide access to the concourse (a ramp in this location would exceed the BCA requirements for ramp rise).</p> <p>While considered in the current landscape works, further detailed design of furniture, kick rails, shorelines, artwork integration and signage will be refined in future stages of the project and will be designed to comply with these policies and guidelines.</p> <p>Specifically, ASPECT Studios will update Wall Type 1 to include backrests to provide additional integrated seating. Note, Armrest are already provided.</p> <p>Spaces have been designed to be inclusive and to consider wheelchair users and families with prams. See examples provided.</p> <p>It is anticipated that a final Landscape Plan, prepared prior to construction commencing, will detail the furniture design.</p>	 <p>Wall Type 1 Detail - Refer to Appendix 1.</p>     

Item	Objection	Response	Public Domain Reference
1.1.2 Public Domain Material	<p>Ensure Tactile Ground Surface Indicators (TGSIs) are provided only at the top and bottom of the stair component to avoid people who are blind or have low vision confusing the seating terraces for stairs;</p> <p>Instead of TGSIs at the top of seating terraces, consider the placement of planting or other elements to warn people who are blind or have low vision to travel another way.</p>	<p>TGSI will only be provided at the top and bottom of stairs. In the revised design, all seating terraces are proposed to have planting at the top.</p> <p>The mitigation measures have been revised to reflect this commitment. A condition of consent could be recommended to reinforce this commitment if considered appropriate by the DPTE.</p>	
1.2. Safety and Security	<p>The proposal inadequately demonstrates the measures to implement and carry out safety and security management of the stadium.</p>	<p>The public domain design has considered and implemented advice from the project security consultant. This is subject to further review and development.</p> <p>A peer review of the exhibited CPTED has also been completed and is appended to the Response to Submissions Report.</p>	
2.2.2 Public domain connection between Moore Park Road to Driver Avenue	<p>The new public domain connection on the west side of the stadium, linking Moore Park Road to Driver Avenue, has a contorted, sub-optimal alignment, with poor sight lines and a major change in level to the monumental stair on Driver Avenue.</p>	<p>The opportunity to provide a new public domain connection has been informed by and responds to the existing context (such as the existing Rugby League building) and the proposed location of the new stadium. The fixed location of the Stadium and the retention of the Rugby League building defines this connection route.</p> <p>As spectators and members of the public come around the stadium through the generous concourse, the proposed trees within the stair will direct sight-lines to Moore Park and beyond.</p> <p>We acknowledge the significant grade difference along driver avenue, informed by design requirements for the stadium. The proposed stairs have been oriented towards key desire lines and towards key features within Moore Park, such as Kippax Lake and the mature fig trees. The tree planting within the stair and amenity with seating terraces aims to bring the park character of Moore park up into the stadium site.</p>	
2.3.7 Bicycle facilities	<p>The proposed bicycle spaces are insufficient. Whilst the City's expectation is of a higher percentage of approximately 10% of bicycle users, the proposal provides bicycle parking counts for less than 0.2% of the proposed stadium capacity.</p> <p>This does not comply with the staff/employee bicycle parking requirements of Sydney DCP 2012. Additionally, no lockers, showers and bathrooms have not been provided as part of the end of journey facilities of the stadium.</p>		

Item	Objection	Response	Public Domain Reference																																																																													
2.5 Tree Removal	The proposed removal of Tree B is not supported and it is recommended that the tree be retained and protected with other street trees surrounding the site.	The driveway to The Rugby AU building has be revised to maintain the existing configuration and retain Tree B.																																																																														
2.6 Replacement Tree Planting	There were no plans submitted with the detailed proposal relating to the replacement of tree planting. Compensatory advanced tree planting for trees removed during the Stage 1 works should be integral to the Stage 2 works. Details of trees to be replaced as well as species and size of trees must be provided.	<p>There are 117 new trees proposed within the public domain. Proposed trees are primarily native Australian species many of which are endemic to the Eastern Suburbs Banksia Scrub family. The project team are committed to mature tree planting and as such the tree selection (adjacent) has been revised to incorporate additional mature species. Refer to the detailed planting plans for replacement detail.</p> <p>26 Trees were proposed for removal as part of the Stage 1 Concept DA, 7 Trees (8 Trees but Tree B is now being retained) were proposed for removal as part of the Stage 2 DA. 2 additional trees need to be removed for the revised layout of MP1 East (see adjacent). These combined equate to a total of 35 trees. This amounts to a replacement ratio of 1:3.3.</p>	<table><tr><th colspan="7">Plant Schedule: Trees Ground Level</th></tr><tr><th>ID</th><th>Botanical Name</th><th>Common Name</th><th>Mature Height</th><th>Mature Spread</th><th>Pot Size</th><th>Quantity</th></tr><tr><td colspan="7">Trees</td></tr><tr><td>Afj</td><td>Acer freemanii "JeffersRed"</td><td>JeffersRed</td><td>13m</td><td>10m</td><td>400L</td><td>10</td></tr><tr><td>Bi</td><td>Banksia integrifolia</td><td>Coast Banksia</td><td>3-15m</td><td>6m</td><td>200L</td><td>10</td></tr><tr><td>Can</td><td>Cupaniopsis anacardioides</td><td>Tuckeroo</td><td>30m</td><td>5m</td><td>200L</td><td>12</td></tr><tr><td>Cci</td><td>Corymbia citriodora</td><td>Lemon Scented Gum</td><td>8-15m</td><td>10m</td><td>400L</td><td>5</td></tr><tr><td>Cm</td><td>Corymbia maculata</td><td>Spotted gum</td><td>30m</td><td>10m</td><td>200L</td><td>17</td></tr><tr><td>Cm</td><td>Corymbia maculata</td><td>Spotted gum</td><td>30m</td><td>10m</td><td>400L</td><td>26</td></tr><tr><td>Fa</td><td>Flindersia australis</td><td>Crows ash</td><td></td><td>1-6m</td><td>200L</td><td>35</td></tr><tr><td>Fr</td><td>Ficus rugibinosa</td><td>Port Jackson fig</td><td>20m</td><td>15m</td><td>1000L</td><td>2</td></tr></table> 	Plant Schedule: Trees Ground Level							ID	Botanical Name	Common Name	Mature Height	Mature Spread	Pot Size	Quantity	Trees							Afj	Acer freemanii "JeffersRed"	JeffersRed	13m	10m	400L	10	Bi	Banksia integrifolia	Coast Banksia	3-15m	6m	200L	10	Can	Cupaniopsis anacardioides	Tuckeroo	30m	5m	200L	12	Cci	Corymbia citriodora	Lemon Scented Gum	8-15m	10m	400L	5	Cm	Corymbia maculata	Spotted gum	30m	10m	200L	17	Cm	Corymbia maculata	Spotted gum	30m	10m	400L	26	Fa	Flindersia australis	Crows ash		1-6m	200L	35	Fr	Ficus rugibinosa	Port Jackson fig	20m	15m	1000L	2
Plant Schedule: Trees Ground Level																																																																																
ID	Botanical Name	Common Name	Mature Height	Mature Spread	Pot Size	Quantity																																																																										
Trees																																																																																
Afj	Acer freemanii "JeffersRed"	JeffersRed	13m	10m	400L	10																																																																										
Bi	Banksia integrifolia	Coast Banksia	3-15m	6m	200L	10																																																																										
Can	Cupaniopsis anacardioides	Tuckeroo	30m	5m	200L	12																																																																										
Cci	Corymbia citriodora	Lemon Scented Gum	8-15m	10m	400L	5																																																																										
Cm	Corymbia maculata	Spotted gum	30m	10m	200L	17																																																																										
Cm	Corymbia maculata	Spotted gum	30m	10m	400L	26																																																																										
Fa	Flindersia australis	Crows ash		1-6m	200L	35																																																																										
Fr	Ficus rugibinosa	Port Jackson fig	20m	15m	1000L	2																																																																										

Item	Objection	Response	Public Domain Reference
3.0 Insufficient Information 3.6 Landscape	There are inconsistencies with the submitted landscape package and the architectural plans submitted with the application. Specifically, there is conflicting information relating to the details of the Driver Avenue entrance with respect to the number of lifts and the path of travel from the MP1 car park.	The Architectural and Landscape plans have been reconciled to address this comment. The revised drawings are provided in the Design Report that support the Response to Submissions.	
3.0 Insufficient Information 3.6 Landscape	There are discrepancies with the number and extent of flights of stairs at the Driver Avenue entrance to determine if the flight dimensions are acceptable.	<p>The Architectural and Landscape plans have been reconciled to address this comment. The revised drawings are provided in the Design Report that support the Response to Submissions.</p> <p>The Moore Park Stairs can be divided into the Western and Eastern stairs. The Western stairs are compliant to AU and BCA standards.</p> <p>The number of risers associated with the Eastern Moore Park Stairs do not conform with the BCA (38 risers in lieu of 36), this non compliance will be addressed by means of a performance solution meeting the relevant performance requirements through an expert human movement consultant.</p>	

Item	Objection	Response	Public Domain Reference
3.0 Insufficient Information 3.6 Landscape	There is a lack of consideration made to the impacts of new paving and infrastructure to the roots and health of existing trees. Particularly, the concrete pavement proposed over the tree roots of significant trees	<p>The landscape proposals now show flexible paving over existing tree root zones.</p> <p>Infrastructure NSW expects an appropriately worded condition of consent to be recommended requiring a final Landscape Plan that identifies final materials, and excludes methodology for protecting tree roots over significant trees.</p>	 <p>The diagram is a site plan showing various paved areas. A large central area is marked with a blue circle and a red line. Surrounding this are several smaller areas, some of which are shaded in blue and labeled 'EJ' or 'CE'. A legend at the bottom right indicates that the blue shading represents 'FLEXIBLE PAVING'.</p>
3.0 Insufficient Information 3.6 Landscape	Inadequate details were provided relating to soil depths, volume, drainage and irrigation of the proposed landscaping elements and trees proposed throughout the development. The landscape proposal fails to demonstrate the feasibility and maintenance of landscaping and longevity.	<p>Refer to Appendix 2 for a plan indicating site-wide soil depths. Strata cells has been specified for trees within the concourse hardscape, for detail refer to Planting Plans 18030_LA_401, 402, 403, 404 and Softworks Details 18030-LA-802.</p> <p>An allowance has been made for automatic irrigation systems to be installed in all planter beds. The water volumes of which will be tailored to the specific planting mixes and micro-climates in each location, with input from an irrigation designer, the detail of this will be refined in future stages.</p> <p>Proposed planting is predominantly (approximately 79%) native and endemic species. Where exotic species have been chosen hardy species have been selected. This forms hardy and robust planting palette which is truly suited to the SFS site and will require less maintenance.</p>	

Appendices

Appendix 1 - Wall Type 1 Detail

Appendix 2 - Ground Level - Soil Depths



WARNING

 **DIAL BEFORE YOU DIG**
www.1100.com.au

Services shown on this drawing are approximate only. The exact location is to be confirmed on site by contractor prior to commencement of work.

END PLATE FIXED TO STEEL FRAME WITH TAMPERPROOF BOLT. BOLT FINISH TO MATCH END PLATE.

R 25

10mm STEEL END PLATE. WALL APPLIED SECONDARY FINISH. REFER TO SPECIFICATION FOR DETAIL.

3 WALL TYPE 1 - PRECAST CONCRETE WALL WITH INTEGRATED TIMBER BENCH
1:10 TYPICAL SECTION W1A

4 WALL TYPE 1 - PRECAST CONCRETE WALL WITH INTEGRATED TIMBER BENCH
1:10 TYPICAL ELEVATION W1A



ASPECT Studios Pty Ltd
Level 1, 78-80 George Street
Redfern NSW 2016
Australia
T 02 9699 7182
www.aspect-studios.com
sydney@aspect-studios.com
ABN 11 120 219 561

CLIENT **we are insw**
Infrastructure
New South Wales

PROJECT
SYDNEY FOOTBALL STADIUM
Moore Park, New South Wales

DRAWING

HARDWORKS DETAILS

Wall Type 1

DRAWN	CHECKED	SCALE A1 SCALE A3
JR DC	JH	

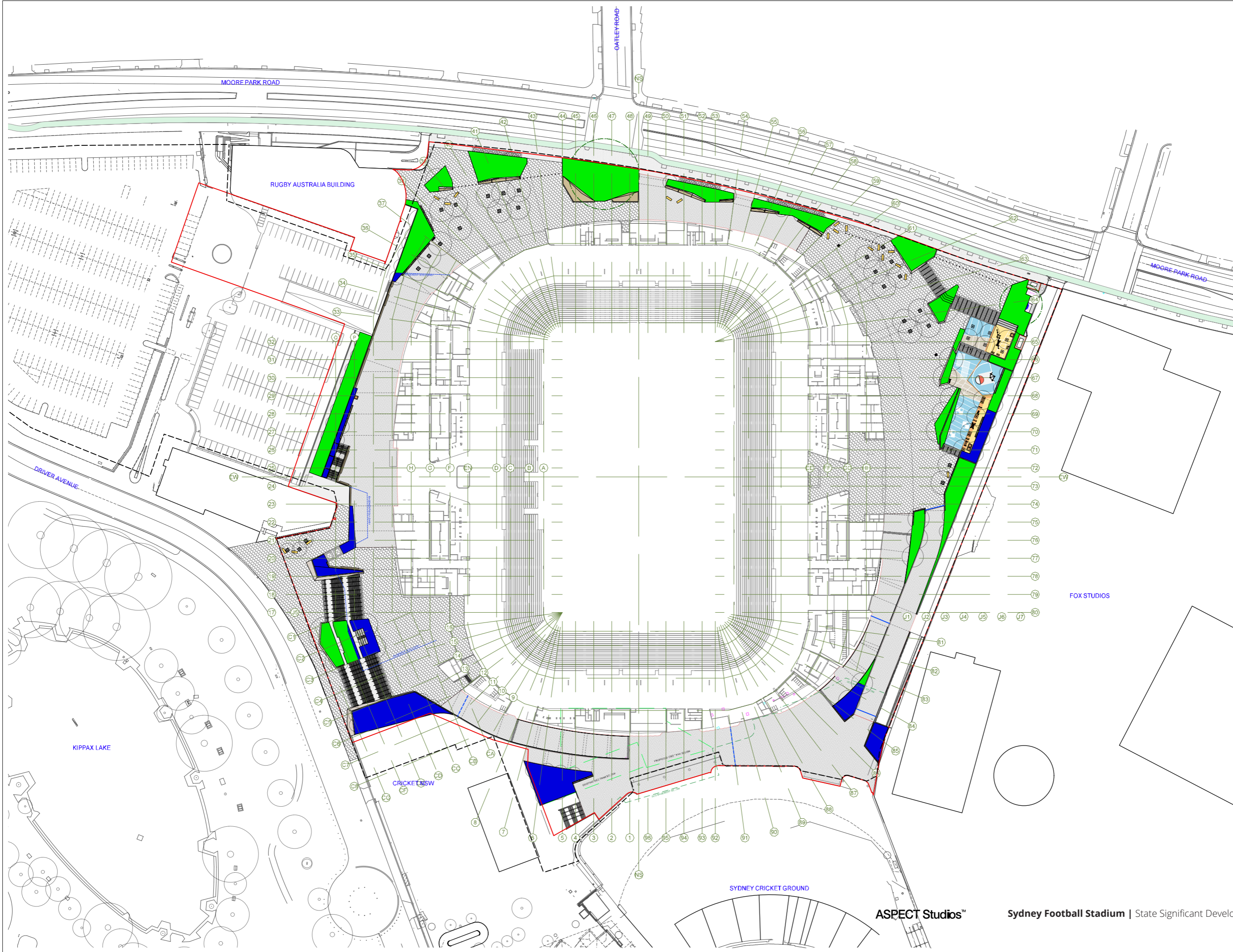
STATUS	NORTH
--------	-------

FOR INFORMATION

NOT FOR CONSTRUCTION

DRAWING NO.	REVISION
-------------	----------

LA-621 C



NOTES

These drawings are shown in colour and shall be read in digital format or print colour hardcopy.

These drawings shall be read in conjunction with all relevant information (not limited to legends, schedules, specifications).

These drawings shall be read in conjunction with any Engineers, Architects or other consultant information (not limited to drawings, legends, schedules, specifications).

Check all dimensions and site conditions prior to commencement of any work and the procurement of any services, materials, fittings, fabrication or equipment.

Do not scale drawings - refer to figured drawings only. Any discrepancies shall immediately be referred to the Landscape Architect for clarification.

All drawings shall not be reproduced or distributed without prior permission of the Landscape Architect.

WARNING

DIAL BEFORE YOU DIG
www.1100.com.au

Services shown on this drawing are approximate only. The exact location is to be confirmed on site by contractors prior to commencement of work.

DATE	REV	AMENDMENTS
2019	A	ISSUED FOR INFORMATION ONLY
2019	B	RFP RESPONSES REVIEWED
2019	C	RFP RESPONSES REVIEWED

LEGEND

DEEP SOIL AREAS

1.2m SOIL DEPTH AREAS

ASPECT Studios™

ASPECT Studios Pty Ltd
Level 1, 75-81 George Street
Sydney NSW 2000
Australia
T 02 9099 7182
www.aspectstudios.com
info@aspectstudios.com
ABN 11 120 219 591

CLIENT

we are insw
Infrastructure
New South Wales

PROJECT

SYDNEY FOOTBALL STADIUM
Moore Park, New South Wales

DRAWING

SOFTWORKS DETAILS
Ground Level Soil Depths

DRAWN DC **CHECKED** JH **SCALE A0** (SCALE A2) 1:500 1:1000 4000

STATUS NORTH

FOR INFORMATION **NOT FOR CONSTRUCTION**

DRAWING NO. LA-810 **REVISION** 10 **C**