| | Planning, Industry & Environment |
|---|---|
| ı | Issued under the Environmental Planning and Assessment Act 1979 |
| | Approved Application No. SSD - 97794 |
| | Granted on the 8 May 2020 |
| | Signed |
| | Sheet No of |

Sydney Opera House Lower Concourse Improvements

Project No:2466

Lower Concourse, Sydney Opera House, Bennelong Point, Sydney Sydney Opera House Trust **Development Application**

General Notes & Abbreviations

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Coordination Where applicable refer to and coordinate information contained in the architectural drawings, and the documentation of other consultants. Notify discrepancies between architectural and/or other consultant's documentation for direction prior to proceeding with the affected part of the

Specifications and Schedules Where applicable refer to and coordinate with relevant Specifications and Schedules. Written specifications and schedules take precedence to the extent of any discrepancy. Notify discrepancies between documents for direction prior to proceeding with the affected

part of the works.

Authorities.

Detail Drawings Unless noted otherwise, refer to detail drawings for set-out information. Drawings at the manufacturer, supplier, installer, larger scales take precedence over drawings name, brand name, catalogue or refer

at smaller scales to the extent of any discrepancy. Notify discrepancies for direction prior to proceeding with the affected part of the works.

Execution of the works (Standards) Execute the works in compliance with the current edition of the Building Code of Australia (as amended), current editions of relevant Australian and other applicable published Standards and the relevant requirements of Local and Statutory

Units of measurement Unless noted otherwise: - Dimensions are shown in millimetres; and

Levels are shown in meters

provided by the Architect.

To detail Where a notation refers to an item as "...to detail" the applicable item is to be in accordance with the relevant detail to be

Materials handling and storage Unless noted otherwise material, fixtures and fittings are to be handled, stored and installed, commisioned and maintained as applicable in accordance with the Manufacturer's current written instructions.

Foundations, footings, reinforced concrete, slabs, retaining walls, framing, bracing, tiedown and other structural elements are to be designed and constructed in accordance with the Structural Engineer's details and specifications.

| J | ions | |
|---|--|--|
| | Hydraulics Stormwater drainage, waste water drainage, | D?.## |
| | fresh water, gas supply and other hydraulic | Dr |
| | services are to be designed and constructed in accordance with the Local Authority, | DA |
| | Statutory Authority, Hydraulic and/or Civil Works Consultant's requirements. | Demo Det(s Dia |
| | Services (existing & proposed) | Dim |
| | Confirm location of existing under and above- ground services and coordinate with the relevant service authority to ensure that services are handled in accordance with the relevant authorities instructions prior to commencement of demolition, excavation and/or construction works. | Doc(s DP DPC Drw(s Dwg(s EA EG |
| | Levels Levels shown are consistent with the datum and benchmarks shown on the associated detail survey. In most instances the surveyed levels will be indicated relative to Australian Height Datum. However the existing site levels and datum are to be confirmed on site with reference to the site survey documents. | Elec Elev Eng('s Eq Est Ex |
| | Falls Finish surfaces typically to fall as required to facilitate effective drainage. | Ext FCL FE FF## |
| | Interpretation "Provide" means to supply and install. | FFL FG |

Cnr

Col

Cor

COS

CP

Crs

Con('s)

Cont('s)

| "Required" documents Authorities "Proprietar the manufa | neans to supply and install. means required by the contract or by the Local or Statutory | FFL FG FGL FH FIX FJ Fla FIr FR FT## | Finished floor level Fixed glazing Finished ground lev Fire hydrant Fire Hose Reel Fixing / fixings Floor joist Flashing Floor Fire rated Frame / framing Floor type (## refer |
|---|---|---|--|
| Stand | ard Abbreviations | Fur | Furring (channel) Fixed |
| AAP Acst Adj AFFL Agmt Amd(t) AP Aprv(d/I) Aprx Arc Arch AS Avg | Acoustic access panel Acoustic Adjustable / adjacent Above finished floor level Arrangement Amend(ed) / Amendment Access Panel Approved / Approval Approximate Architrave Architect Australian Standard Average | Fxd GA GD Gla## Gnd Hd HdI Hor HR Ht Hyd IAW | General Arrangeme Grid Grated Drain Glass / Glazing type (## refer to schedul Ground Head Handle Horizontal Hand Rail Height Hydraulic In accordance with |
| AWC Awn Bal Bat(s) BCA | Accessible water closet Awning Balustrade Batten(s) Building Code of Australia | Incl Ind Ins Inst Int | Include / included / Indicator Insulation / Inside / Instruction(s) Internal |

| tion | FFL | Finished floor level | |
|-------------------------------------|---------|-----------------------------------|--------------|
| neans to supply and install. | FG | Fixed glazing | Schd(s) |
| means required by the contract | FGL | Finished ground level | SDr |
| s or by the Local or Statutory | FH | Fire hydrant | Sect |
| i. | FHR | Fire Hose Reel | Sel |
| y" means identifiable by naming | Fix | Fixing / fixings | |
| acturer, supplier, installer, trade | FJ | Floor joist | |
| nd name, catalogue or reference | Fla | Flashing | Serv(s) |
| na name, catalogue el reference | Flr | Floor | SFL |
| | FR | Fire rated | SHS |
| | Frm | Frame / framing | Sk |
| | FT## | Floor type (## refer to schedule) | Skt |
| ard Abbraviations | Fur | Furring (channel) | SI |
| ard Abbreviations | Fxd | Fixed | SL |
| Acoustic access panel | GA | General Arrangement | Sld |
| Acoustic | Gd | Grid | Smk |
| Adjustable / adjacent | GD | Grated Drain | SN |
| Above finished floor level | Gla## | | |
| Arrangement | Gla## | Glass / Glazing type reference | Sof |
| Amend(ed) / Amendment | Cond | (## refer to schedule) | Spec(s) |
| Access Panel | Gnd | Ground | SR |
| Approved / Approval | Hd | Head | SSD |
| Approximate | Hdl | Handle | SSL |
| Architrave | Hor | Horizontal | Std |
| Architect | HR | Hand Rail | Struct |
| Australian Standard | Ht | Height | SWP |
| Average | Hyd | Hydraulic | TBA |
| Accessible water closet | IAW | In accordance with | |
| Awning | Incl | Include / included / inclusive | TBC |
| Balustrade | Ind | Indicator | T 00! |
| Batten(s) | Ins | Insulation / Inside / Inside of | TGSI |
| Building Code of Australia | Inst | Instruction(s) | Tmb |
| (Property) Boundary | Int | Internal | TO |
| Box Gutter to detail | Ю | Inspection opening | TOG |
| Bulkhead | Lev | Level | TOK |
| Building | Lvr | Louvre / louvred | Tol |
| Bottom of ramp | Man('s) | Manufacturer('s) | TOR |
| Bottom of stair | Max | Maximum | TOS |
| Construction certificate | Mech | Mechanical | TOW |
| Ceiling | Min | Minimum | Tr _ |
| Change /changed | MR | Mirror rev / moisture resistant | Тур |
| Check | Mtr | Mitre / Mitred | UA |
| Channel | NA | Not applicable | UB |
| Control joint / Construction joint | NCC | National Construction Code | UC |
| to aprvd detail / Ceiling joist | Nom | Nominal | UG |
| Centre line | NTS | Not to scale | UNO |
| Clear / Clearance / closer | OA | Overall | US |
| Corner | Obs | Obscure | VB |
| Colour / Column | OH | Over head | Vert |
| Consultant('s) | Orig | Original (building fabric) | W |
| Contractor('s) | OS | Outside / Outside of / On site | W?.## |
| Corrugated / Cornice | Own | Owner / Proprietor / Principal | |
| Check / confirm on site | PA | Project Administrator | |
| Cover plate | Pav | Paving | Win |
| Centres | PCA | Principal certifying authority | WF## |
| Countersink | PF | Selected paint finish | WO |
| Ceiling type reference (## refer | PFC | Parallel flange channel | WP |
| to applicable schedule) | Plt | Plate | WPM |
| Centre / contour | PM | Project Manager | WT## |
| JUILLO / WILLOUI | Drolim | Droliminary | |

Preliminary

Door (?: Level | ##: Number

Delayed action (door closer)

Documentation, documents

Expansion joint to aprvd detail

From / out of... or existing when

referring to building elements

Fire escape / Fire extinguisher

Demolish and remove from site

Prop

Rev

Proposed

Quantity

Radius

Part / Partition

Reflected Ceiling Plan(s)

into the works as req

Reference, refer (to...)

Remove, take care to avoid

damage to substrate materials

and structure, and dispose of

Replace, UNO to match exst

protect, store and prepare for

reuse within the works as req

Rectangular hollow section

Reduced / relative level (to

Rough in (cap and/or terminate as reg for future connection)

Roof type (## refer to schedule)

Section 96 Application to amend

Selected... typically referring to

a finish to be selected by the archiect, client, PA or PM

Recover without damage for the

Required / Requirement(s)

Recover without damage,

Owner to remove

Rain Water Outlet

Schedule(s)

Services

Sketch

Skirting

Sliding

Smoke

Soffit

Stair nosing

Specification(s)

Service(s) riser

Standard

Timber

Top of...

Top of gutter

Top of kerb

Tolerance

Top of stair

Top of wall

Unequal angle

Under ground

Underside

Vertical

Window

Without

Water proof

Vapor barrier

Universal beam

Universal column / under cut

Window, Glazing and/or Shop

Front element (?: Level | ##:

Wall finish (## refer to schedule)

Wall type (## refer to schedule)

Number refer to schedule)

Water proof membrane

Unless noted otherwise

Tree

Typical

Top of ramp

Sub-surface drainage

Structure / Structural

To be advised (UNO generally

by the PA, Arch and/or Owner)

To be confirmed (UNO generally

Tactile ground surface indicators

Storm water pit

by the Contractor)

Structural slab level

Seal / sealant

Surface drainage

Structural floor level

Square hollow section

Surface level / Shadow-line

a Development Consent

Reinforced / reinforcement

Demolish, stockpile and recycle

refer to schedule)

Detail(s)

Diameter

Dimension

Down pipe

Equal angle

Eaves Gutter

Electrical

Elevation

Egual

Engineer('s)

External / exterior

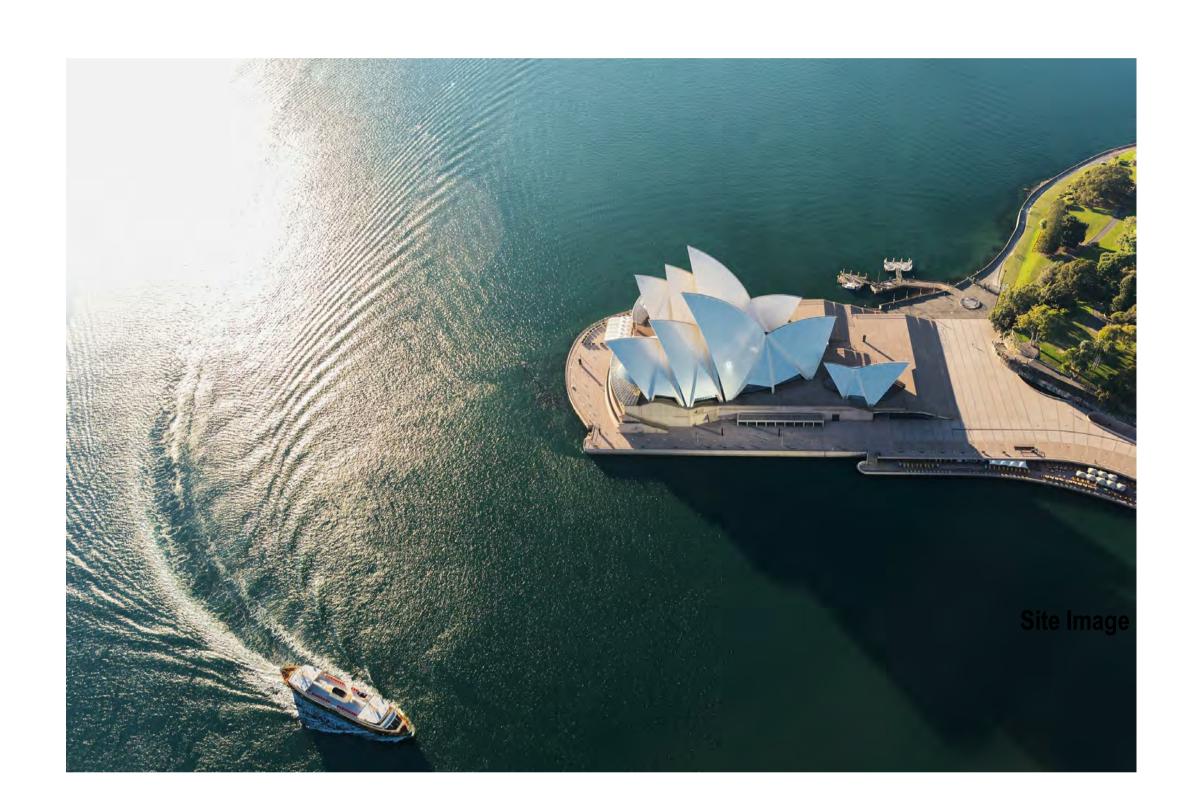
Finished ceiling level

Floor finish (## refer to

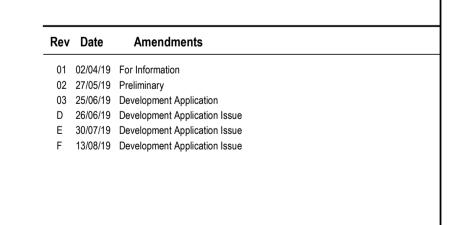
applicable schedule)

Damp proof course

Drawing / drawings



| Drawing List - Development Application | | | | | |
|--|--|----------|---------------|--|--|
| Sheet Number | Sheet Name | Revision | Revision Date | | |
| 49HE001-0001 | Title Sheet and Drawing List | F | 13/08/19 | | |
| 49HE001-0502 | Site Plan | E | 30/07/19 | | |
| 49HE001-1100 | General Arrangement Plan - Lower Concourse - Existing & Demo | E | 13/08/19 | | |
| 49HE001-1101 | General Arrangement Plan - Lower Concourse - Proposed | F | 13/08/19 | | |
| 49HE001-1102 | General Arrangement Plan - Upper Concourse - Existing | D | 26/06/19 | | |
| 49HE001-1103 | General Arrangement Plan - Upper Concourse - Proposed | E | 30/07/19 | | |
| 49HE001-3100 | General Arrangement Elevation | E | 30/07/19 | | |
| 49HE001-3200 | Detail Plan - Opera Bar Glazing Line - Existing & Demo | D | 26/06/19 | | |
| 49HE001-3202 | Detail Plan - Opera Bar Glazing Line - Proposed | D | 26/06/19 | | |
| 49HE001-3205 | Detail Elevation - Opera Bar Glazing | D | 26/06/19 | | |
| 49HE001-3220 | Detail Plan - Shade Structure | E | 30/07/19 | | |
| 49HE001-3221 | Shade Structure - Reflected Ceiling Plan | E | 30/07/19 | | |
| 49HE001-3225 | Detail Section - Shade Structure | D | 26/06/19 | | |
| 49HE001-3230 | Detail Elevation - Shade Structure | С | 26/06/19 | | |
| 49HE001-3231 | Detail Section - Shade Structure Services | С | 26/06/19 | | |





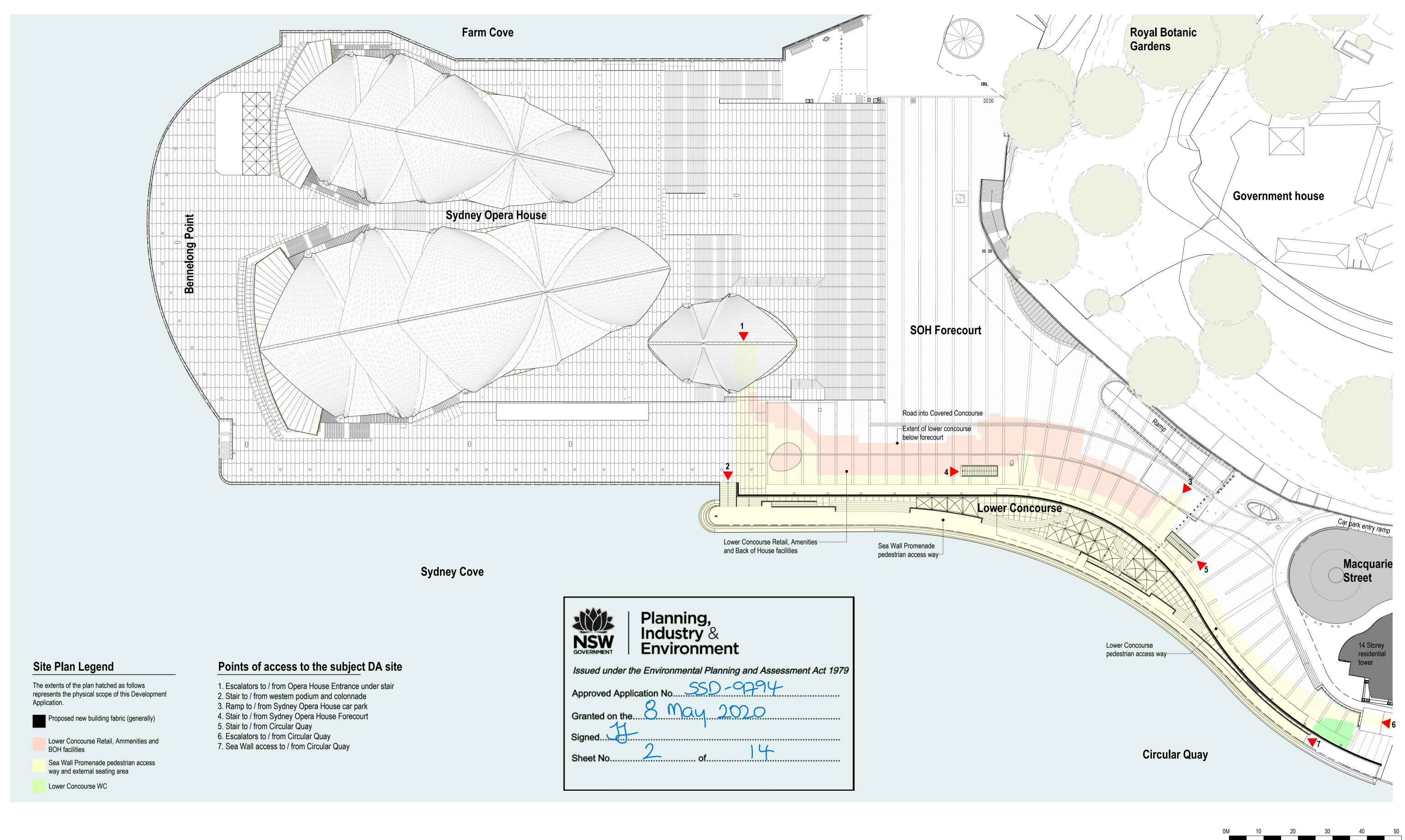
Suite 35 Level 2 94 Oxford Street Darlinghurst NSW 2010 Australia +61 2 9357 2288 hello@h-e.com.au www.h-e.com.au PO Box 490 Darlinghurst NSW 1300

Humphrey & Edwards Pty Ltd | ABN 89056638227

Nominated Architect: Glenn Cunnington #6415

| Developn | nent Appl | ication |
|----------|-----------|---------|

| Scale @ A1 Scale @ A3 | | Drawn by | Checked by GC | |
|-----------------------|-------|----------|------------------|------------|
| | | | | |
| Project Issue Date | 16/03 | /2015 | Sheet Issue Date | 13/08/19 |
| Project No. | 100 | Zone | | Discipline |

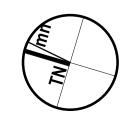


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Rev Date Amendments

A 14/08/19 Development Application

Rev Date Amendments



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Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse Improvements

Sydney Opera House Trust

Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

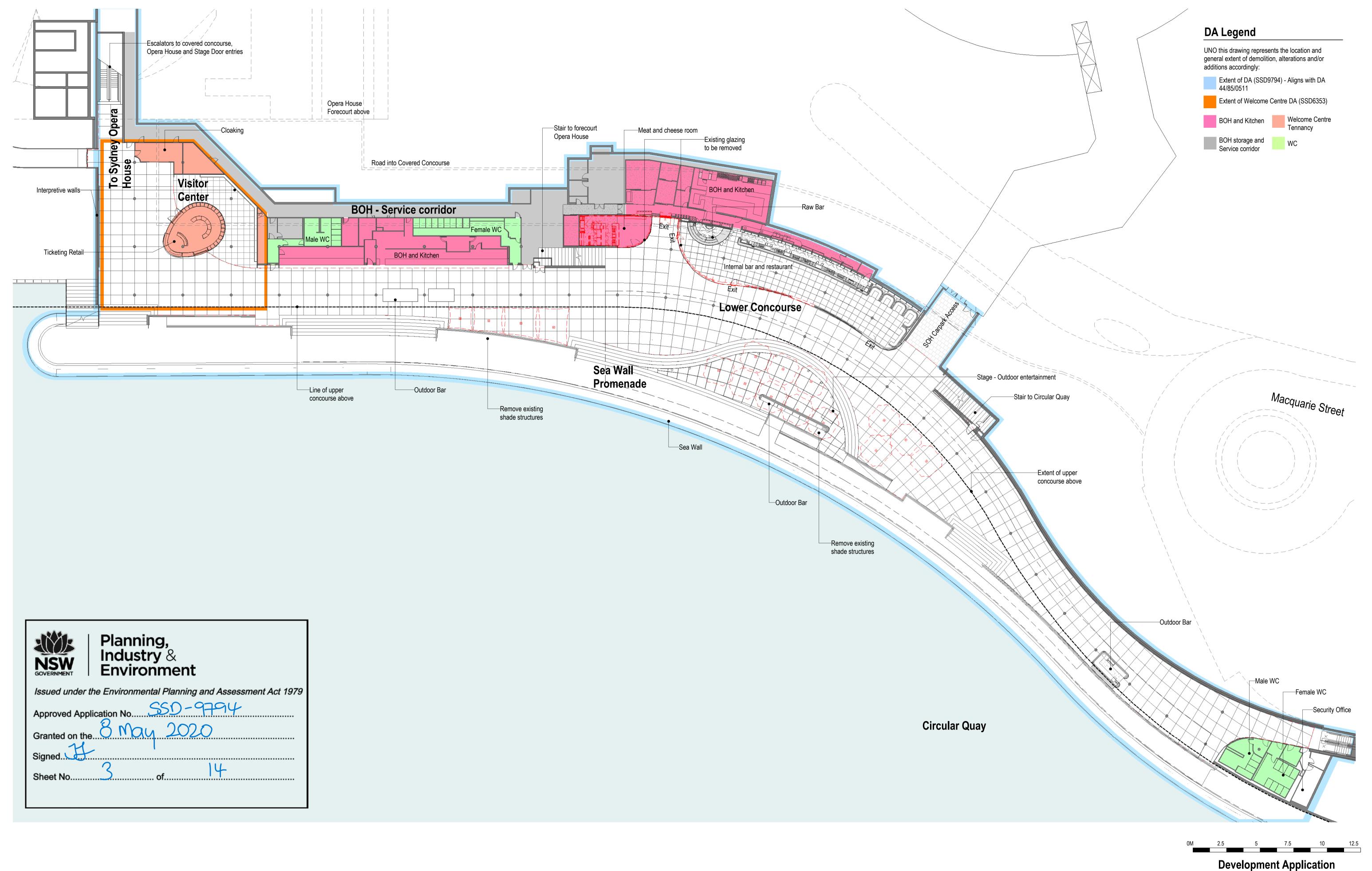
Site Plan - Proposed

Development Application

1:500 Drawn by Checked by Scale @ A1 1:1000 KR Scale @ A3 **16/03/2015** Sheet Issue Date 14/08/19 Project Issue Date

Drawing No. 49HE001-0503

14/08/2019 3:56:23 PM



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Rev Date Amendments

01 02/04/19 For Information

02 27/05/19 Preliminary

03 25/06/19 Development Application D 26/06/19 Development Application Issue E 13/08/19 Development Application Issue Rev Date Amendments



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Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse Improvements

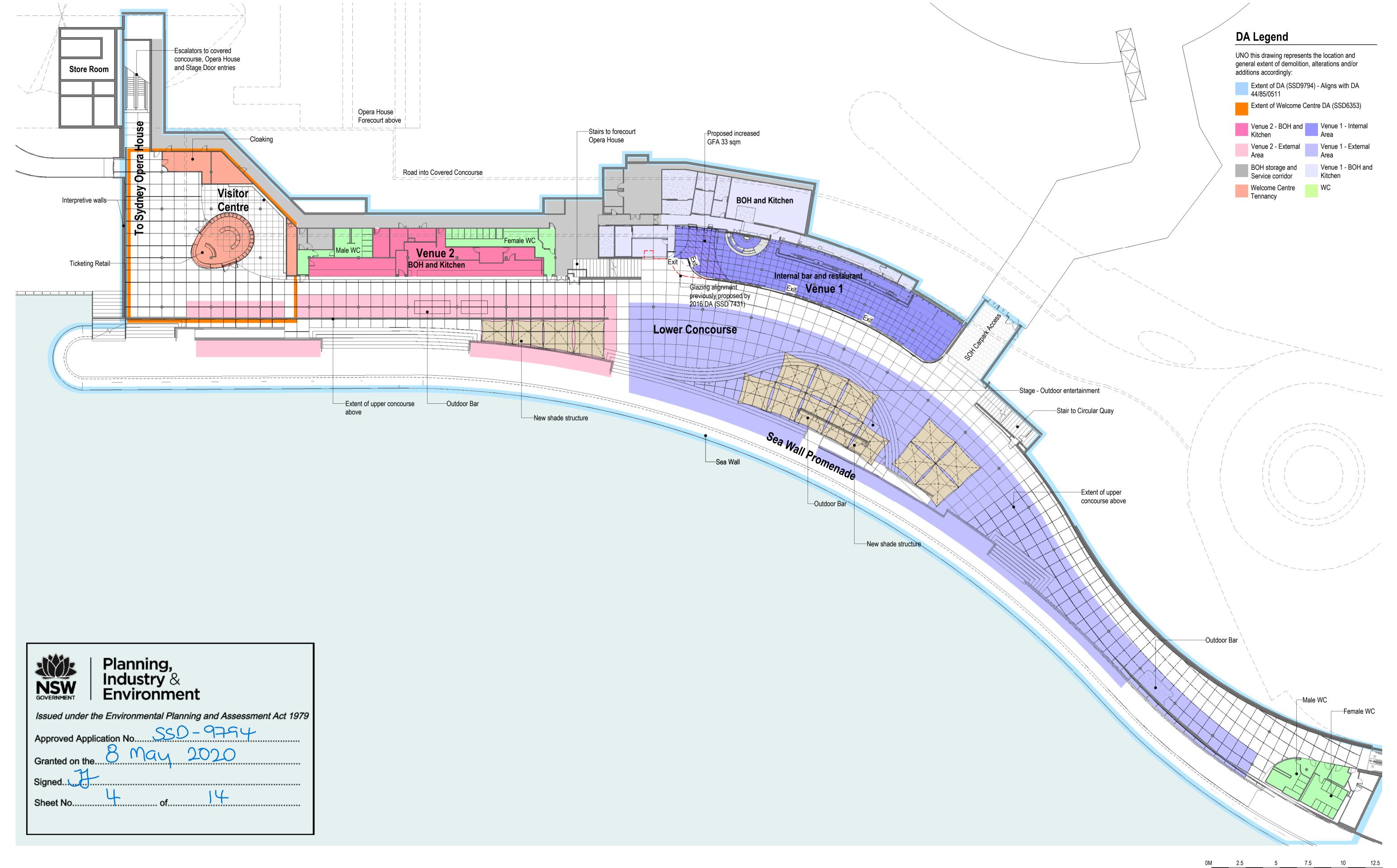
Sydney Opera House Trust

Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

General Arrangement Plan - Lower Concourse -**Existing & Demo**

1:250 Drawn by Checked by Scale @ A1

1:500 KR Scale @ A3 **16/03/2015** Sheet Issue Date 13/08/19 Project Issue Date

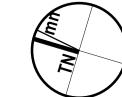




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01 02/04/19 For Information

02 27/05/19 Preliminary

03 25/06/19 Development Application D 26/06/19 Development Application Issue

E 30/07/19 Development Application Issue F 13/08/19 Development Application Issue

G 05/05/20 Development Application Issue: Plan amended do indicate Venue areas

Rev Date Amendments



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PO Box 490 Darlinghurst NSW 1300 Humphrey & Edwards Pty Ltd | ABN 89056638227

Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse **Improvements**

Sydney Opera House Trust

Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

General Arrangement Plan - Lower Concourse -Proposed

Development Application

1:250 Drawn by Checked by

Scale @ A1 1:500 KR Scale @ A3 **3/16/2015** Sheet Issue Date 05/05/20 Project Issue Date Project No. **2466** Zone

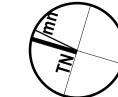


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01 02/04/19 For Information 02 27/05/19 Preliminary

03 25/06/19 Development Application D 26/06/19 Development Application Issue

E 30/07/19 Development Application Issue

Rev Date Amendments



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Humphrey & Edwards Pty Ltd | ABN 89056638227 Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse **Improvements**

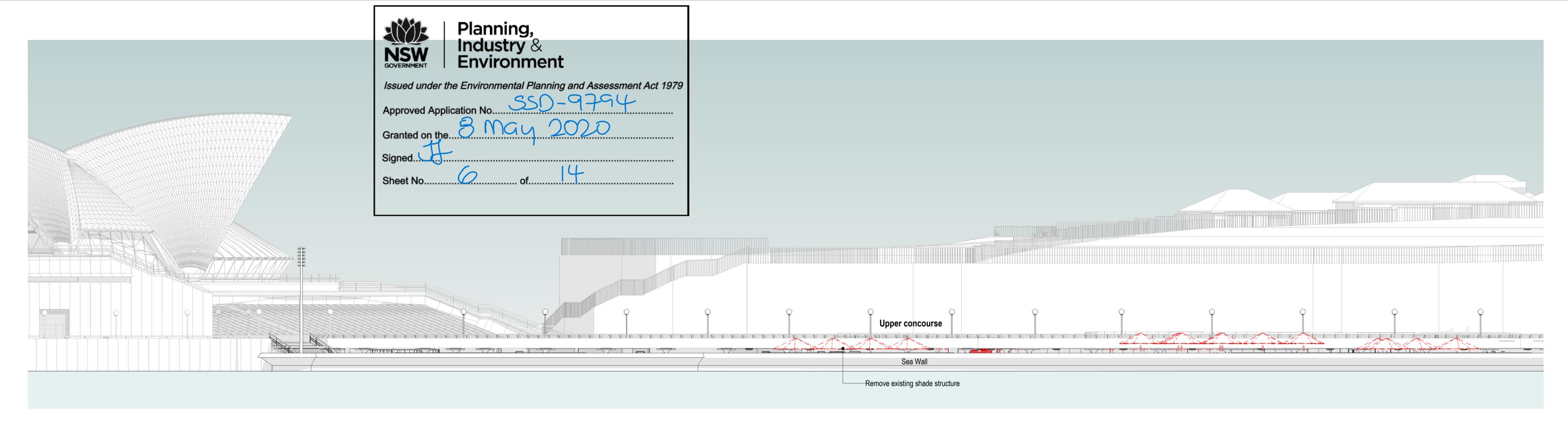
Sydney Opera House Trust

Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

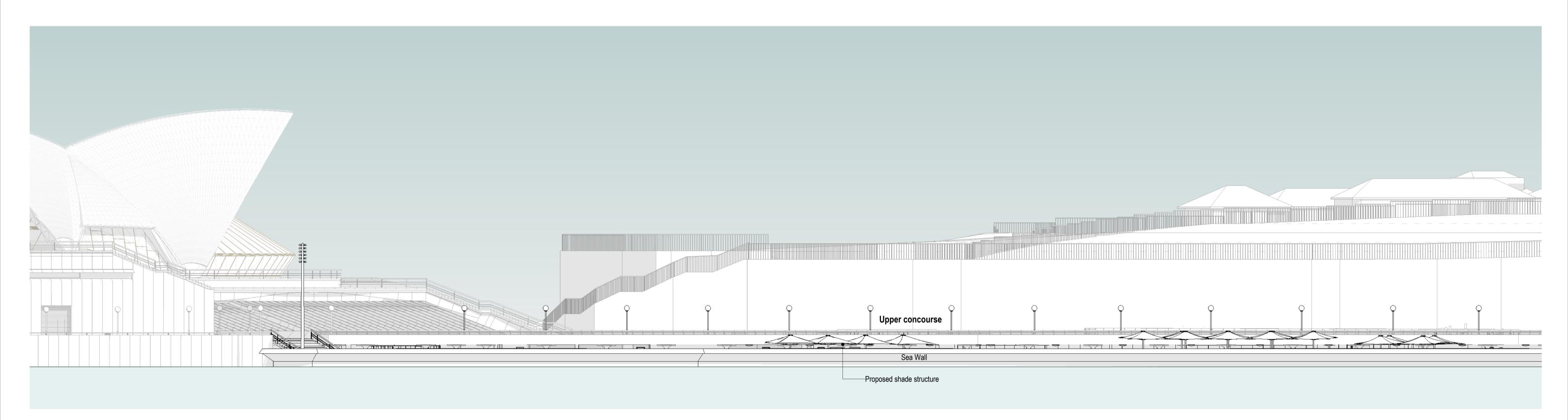
General Arrangement Plan - Upper Concourse -Proposed

1:250 Drawn by Checked by Scale @ A1

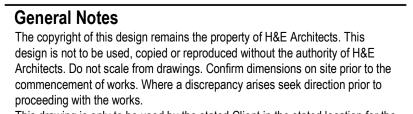
1:500 KR Scale @ A3 **16/03/2015** Sheet Issue Date 30/07/19 Project Issue Date



2 Western Elevation (From Circular Quay) - Existing and Demo



1 Western Elevation (From Circular Quay) - Proposed



commencement of works. Where a discrepancy arises seek direction prior to proceeding with the works.

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03 25/06/19 Development Application

D 26/06/19 Development Application Issue

E 30/07/19 Development Application Issue



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Nominated Architect: Glenn Cunnington #6415

Project
Sydney Opera House Lower Concourse
Improvements

Client
Sydney Opera House Trust

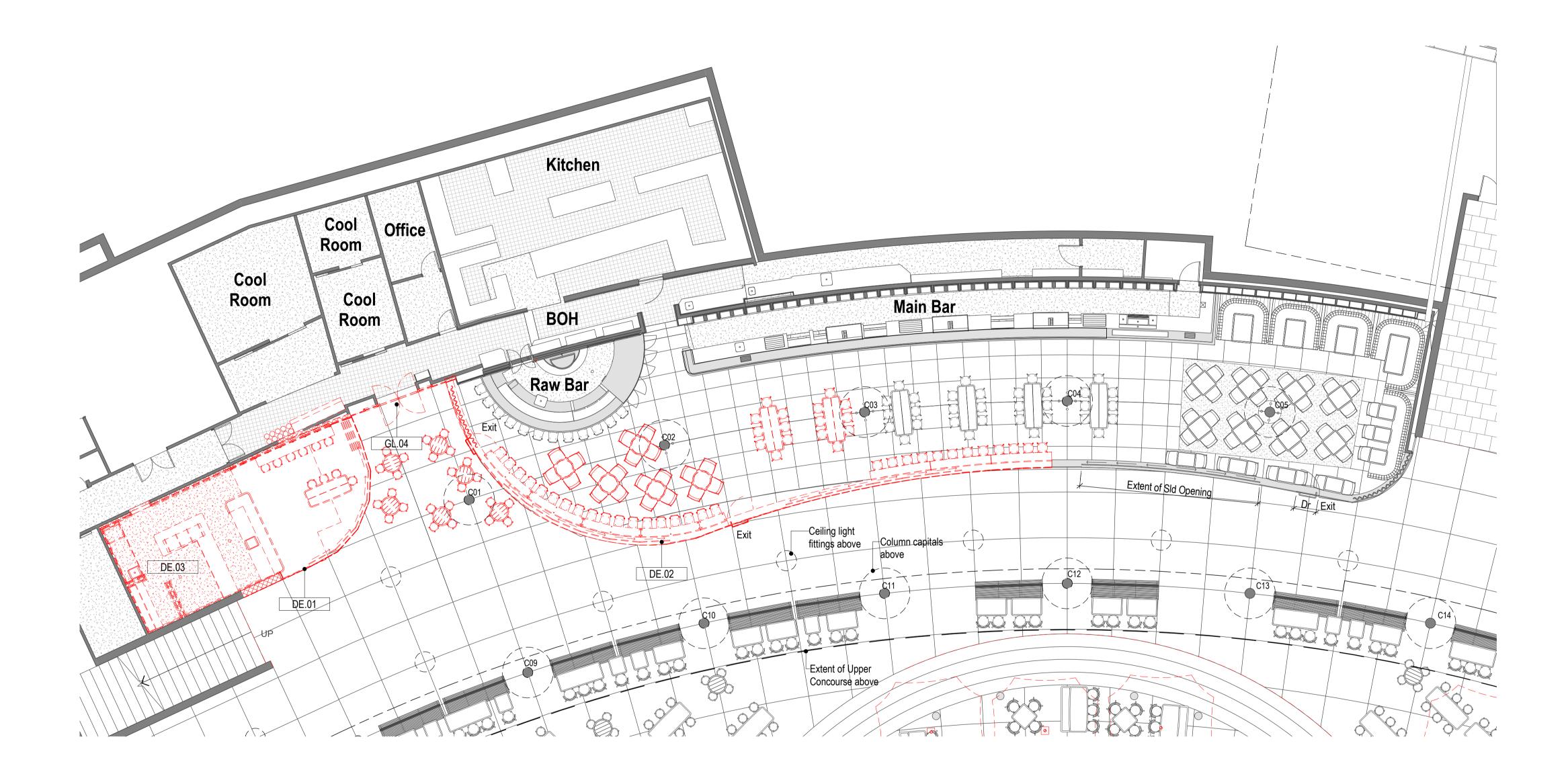
Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

Drawing

General Arrangement Elevation

30/07/2019 5:22:15 PM

| Planning, Industry & Environment |
|---|
| Issued under the Environmental Planning and Assessment Act 1979 |
| Approved Application No. SSD-9794 |
| Granted on the 8 May 2020 |
| Signed |
| Sheet No of |
| |



Note:

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

Specification Legend

Specification

DE.01 Demolish existing "Meat and Cheese Area" glazing line.
DE.02 Partially demolish part of the existing Main Bar area

DE.03 Demolish meat and cheese area fitout.

GL.04 Refurbish and modify existing bronze service door for new fire exit. Provide new matching frame to suit proposed configuration.

General Notes

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02 27/05/19 Preliminary
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Rev Date Amendments



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Humphrey & Edwards Pty Ltd | ABN 89056638227

Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse Improvements

Client
Sydney Opera House Trust

Location
Lower Concourse, Sydney Opera House,
Bennelong Point, Sydney

Drawing

Detail Plan - Opera Bar Glazing Line - Existing &



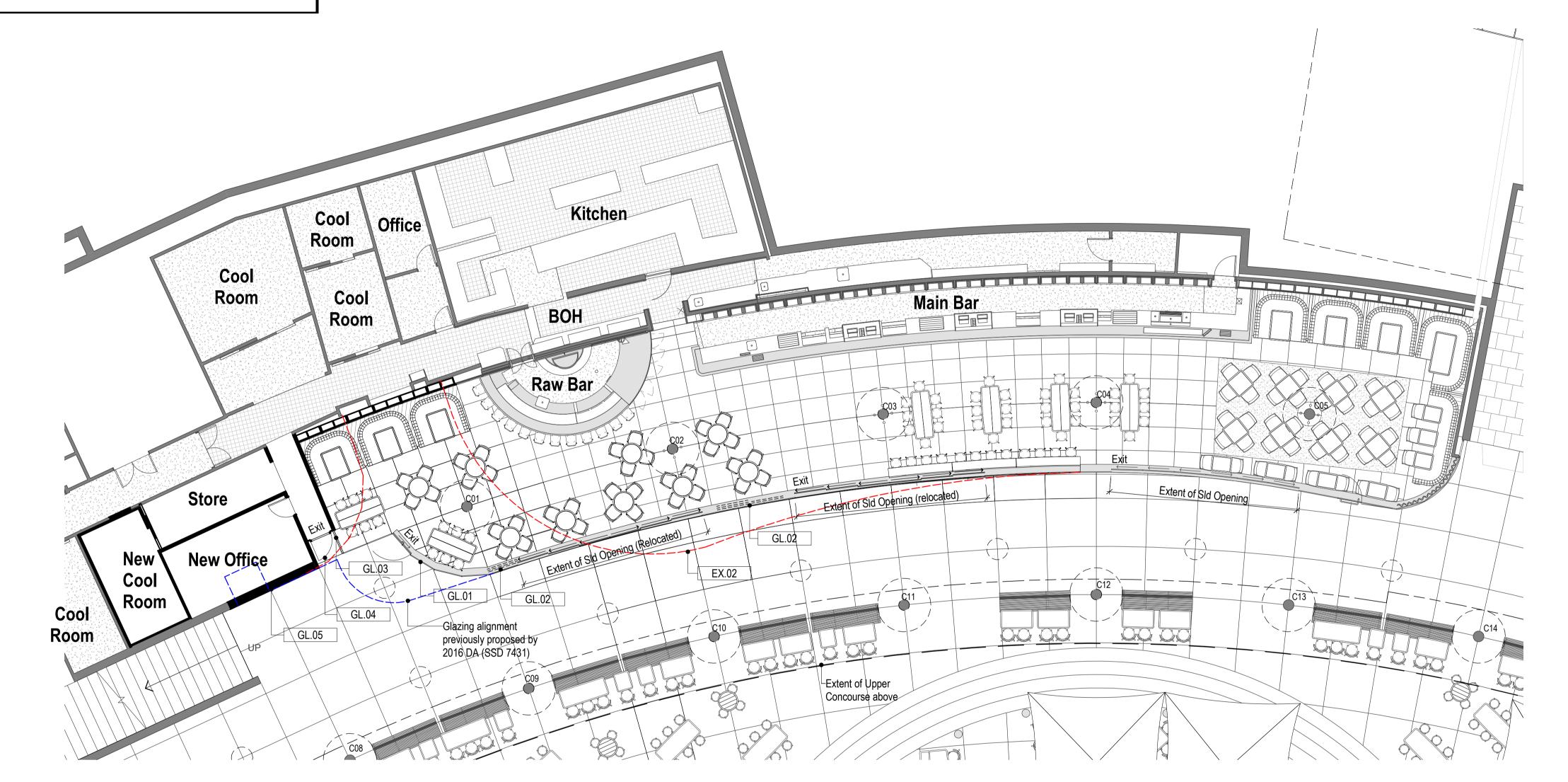
 Scale @ A1
 1:100
 Drawn by KR
 Checked by GC

 Scale @ A3
 1:200
 Sheet Issue Date
 26/06/19

 Project Issue Date
 26/06/19
 Discipline

Drawing No. 49HE001-3200 Revision

26/06/2019 7:02:34 PM



Note:

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

Specification Legend

Specification

EX.02 Existing glazing line

Ref

GL.01 Proposed glazing line

GL.02 Stacking location for sliding glass panels (similar to

GL.03 Extend full height glazing to match existing and return to solid brass door repositioned from existing fire exit

GL.04 Refurbish and modify existing bronze service door for new fire exit. Provide new matching frame to suit proposed configuration.

GL.05 Clad new wall in stone to match existing (full height) and

return into fire door

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Humphrey & Edwards Pty Ltd | ABN 89056638227

Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse Improvements

Sydney Opera House Trust

Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

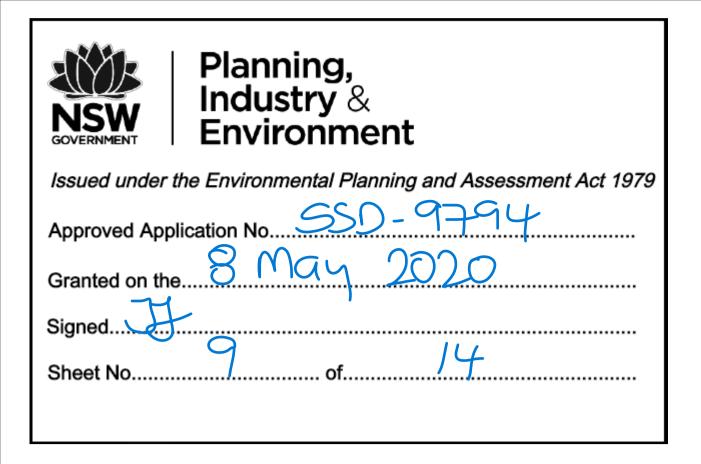
Detail Plan - Opera Bar Glazing Line - Proposed



1:100 Drawn by Checked by Scale @ A1

1:200 KR Scale @ A3 **16/03/2015** Sheet Issue Date 26/06/19 Project Issue Date

26/06/2019 7:02:46 PM



Note:

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

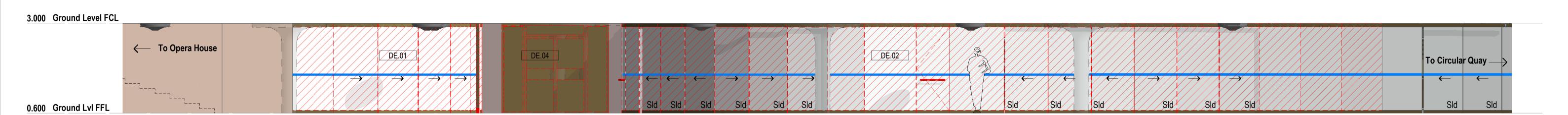
Specification Legend

Specification Ref DE.01 Demolish existing "Meat and Cheese Area" glazing line. DE.02 Partially demolish part of the existing Main Bar area glazing. DE.04 Remove, salvage and protect from damage existing bronze doors and vents. GL.04 Refurbish and modify existing bronze service door for new fire exit. Provide new matching frame to suit proposed

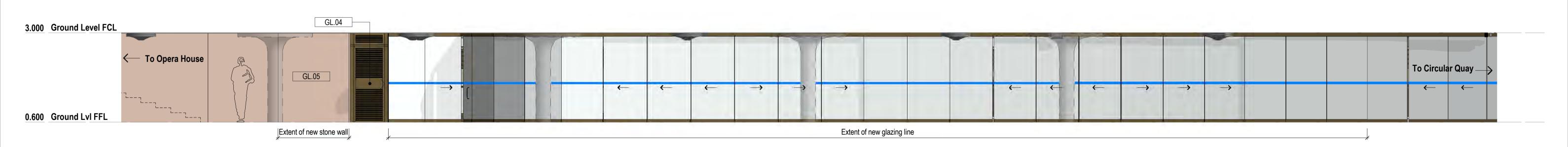
GL.05 Clad new wall in stone to match existing (full height) and

configuration.

return into fire door



Detail Elevation - Glazing Line - Existing and Demo



2 Detail Elevation - Glazing Line - Proposed



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Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse Improvements

Sydney Opera House Trust

Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

Detail Elevation - Opera Bar Glazing

1:50 Drawn by Checked by Scale @ A1 1:100 KR Scale @ A3 **16/03/2015** Sheet Issue Date Project Issue Date

26/06/19

26/06/2019 7:02:53 PM

Specification Legend Structure and sub-frame layout to be concentric and in alignment with **Specification** the geometric set out of the existing granite pavers below. All structure to SS.04 Tensile fabric equal to Serge Ferrari Soltis, colour closest approved match to Dulux Coconut Husk, to be designed and installed to approved details. be in accordance with structural engineer's design and specification, in SS.07 Tensile fabric, Serge Ferrari 402, Translucent infill between umbrella elements as accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers. SS.20 Free standing Pull-up Shade Screen, Design to future detail in consultation with the DAP The state of the s SS.20 SS.04/ Extent of existing New shade structure umbrellas to be removed New shade structure 2 49NE001-3225 SS.04 Planning, Industry & Environment NSW GOVERNMENT Issued under the Environmental Planning and Assessment Act 1979

General Notes

designated.

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01 02/04/19 For Information

02 27/05/19 Preliminary

03 25/06/19 Development Application D 26/06/19 Development Application Issue E 30/07/19 Development Application Issue Rev Date Amendments



ARCHITECTS

Sheet No.

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Humphrey & Edwards Pty Ltd | ABN 89056638227

Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse Improvements

Sydney Opera House Trust

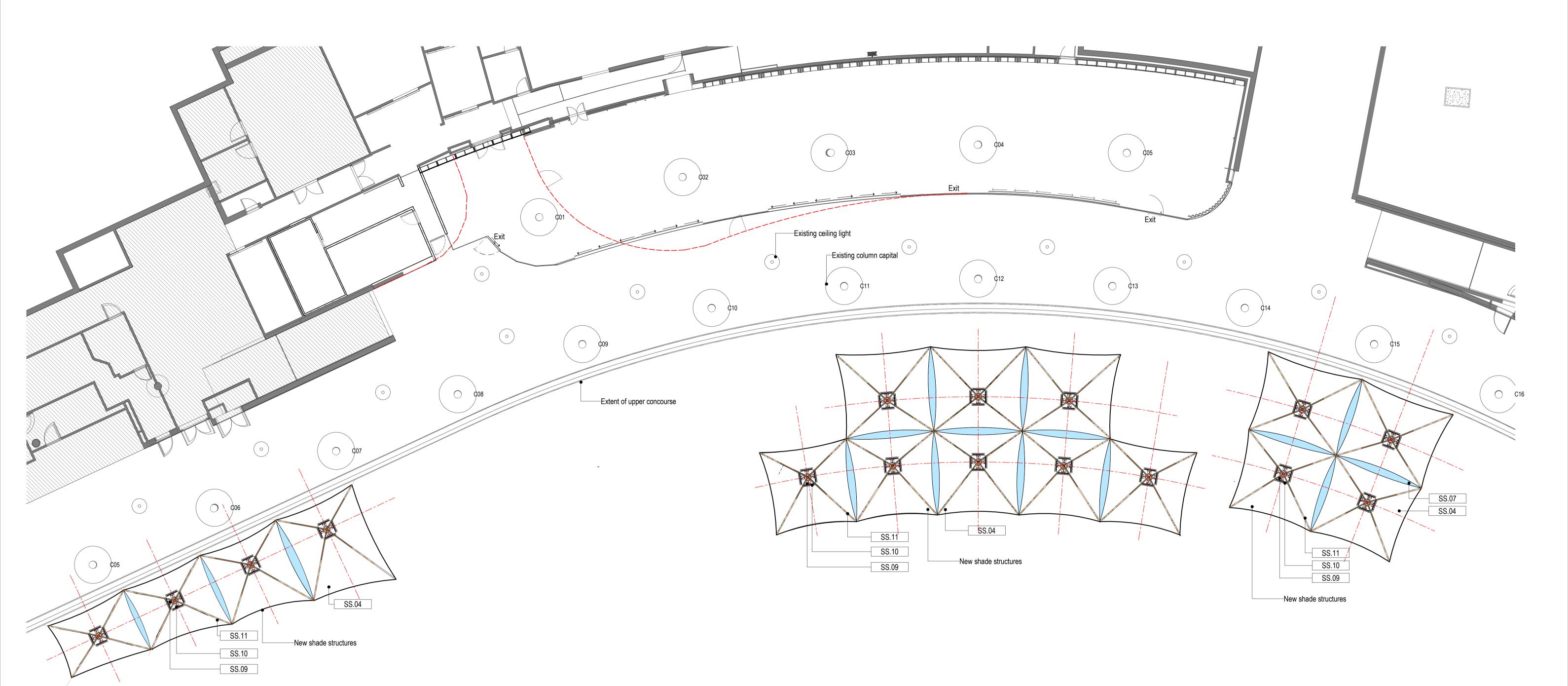
Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

Detail Plan - Shade Structure

Development Application 1:100 Drawn by Checked by Scale @ A1

1:200 KR Scale @ A3 **16/03/2015** Sheet Issue Date Project Issue Date

30/07/2019 5:33:40 PM



Specification Legend

Ref Specification

- SS.04 Tensile fabric equal to Serge Ferrari Soltis, colour closest approved match to Dulux Coconut Husk, to be designed and installed to approved details.
- Tensile fabric, Serge Ferrari 402, Translucent infill between umbrella elements as indicated on plan.
- SS.09 Indicative speaker locations. Speaker similar to void indigo 6 pro with colour matched finish (to dulux "coconut husk" with adjustable mounting brackets. Location, specification and configuration TBC with acoustic and audio-visual consultants. Speakers are to generally be directed away from residential apartments to the south and downwards from their mounting position towards patrons.
- SS.10 Infra-red electric radiant heating with variable control and zoned wiring. Specifications and configuration TBC, with
- S.11 Strip led up-lighting to the underside of the shade structure fabric fabricated from proprietary suitably weather-proof strip led fitted within proprietary aluminum housing with integrated acrylic diffusers to effect even distribution of light over the underside of the canopy. Fit led strip in 2 or 3 independently controlled sections to facilitated graduated illumination of the underside of the fabric to compensate for the variable proximity of the strip light to the fabric.

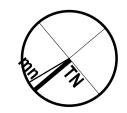
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Rev Date Amendments

01 02/04/19 For Information 02 27/05/19 Preliminary

03 25/06/19 Development Application
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Rev Date Amendments



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Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse Improvements

Sheet No.

NSW GOVERNMENT Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Client
Sydney Opera House Trust

| Location | Scale @ A^ |
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| Lower Concourse, Sydney Opera House, | Soolo @ A1 |

Drawing
Shade Structure - Reflected Ceiling Plan

Bennelong Point, Sydney

| Development Application | D | evelop | ment | : A p | plic | atic | n |
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 Project Issue Date
 16/03/2015
 Sheet Issue Date
 30/07/19

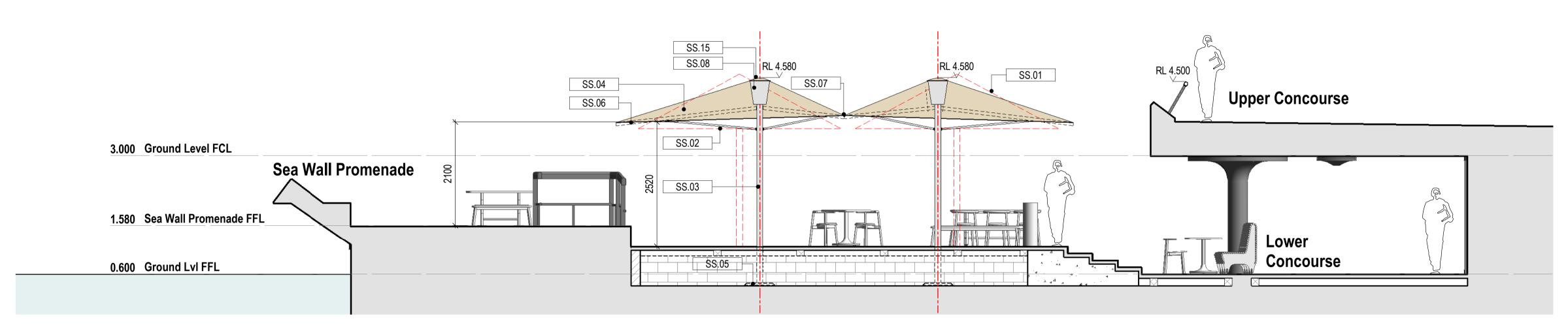
 Project No.
 2466
 Zone
 LC
 Discipline

Drawing No. 49HE001-3221 Revision

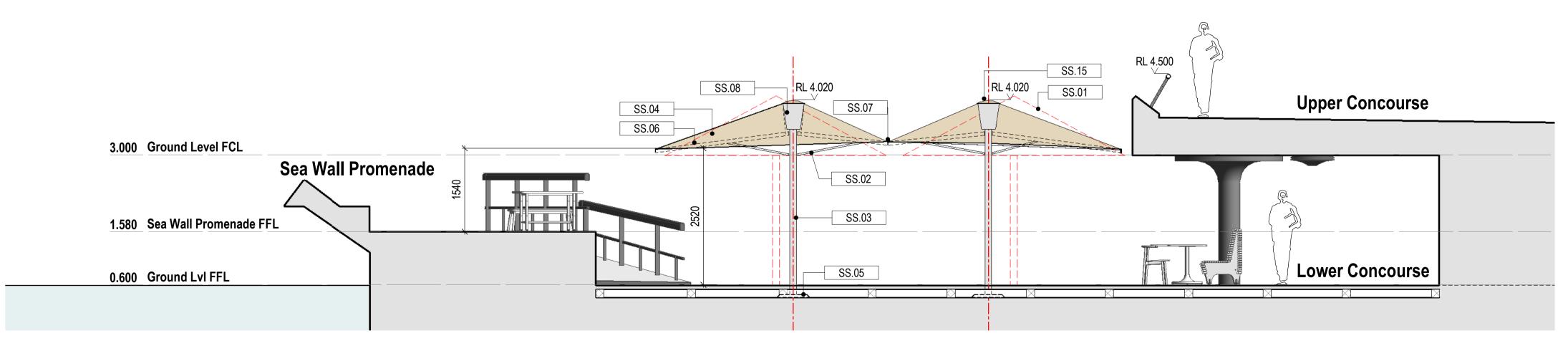
30/07/2019 5:25:54 PM

SS.15 SS.01 RL 4.020 **Upper Concourse** SS.04 3.000 Ground Level FCL **Sea Wall Promenade** SS.02 SS.03 1.580 Sea Wall Promenade FFL **Lower Concourse** SS.05 0.600 Ground Lvl FFL

1 Shade Structure Section 1



2 Shade Structure Section 2



3 Shade Structure Section 3

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01 02/04/19 For Information 02 27/05/19 Preliminary 03 25/06/19 Development Application D 26/06/19 Development Application Issue

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Nominated Architect: Glenn Cunnington #6415

Sydney Opera House Lower Concourse Improvements

Sydney Opera House Trust

Lower Concourse, Sydney Opera House, Bennelong Point, Sydney

Detail Section - Shade Structure

Issued under the Environmental Planning and Assessment Act 1979

Note:

Structure and sub-frame layout to be

concentric and in alignment with the

pavers below. All structure to be in

accordance with structural engineer's

with applicable codes and standards

and to the approval of the Sydney

Opera House Structural Engineers.

All metal works to be No.4 finished

an approved sample.

General Notes Detail Shade Structure:

'linished' Stainless Steel consistent with

Specification Legend

Specification

Existing umbrellas to be removed. Patch and repair ex pavers where fixings are removed to an approved

SS Shade structure struts designed and fabricated to

SS shade structure masts designed and fabricated to

Tensile fabric equal to Serge Ferrari Soltis, colour closest approved match to Dulux Coconut Husk, to be

designed and installed to approved details.

SS base plate and fixing in accordance with the structural engineer's design and specification SS shade structure outriggers designed and

fabricated to approved detail. Powder coat finished.

Colour: closest approved match to dulux coconut

Tensile fabric, Serge Ferrari 402, Translucent infill

between umbrella elements as indicated on plan. Removable approved perforated stainless sheet

panels with discreet secure SS fixings designed to conceal services infrastructure including GPS table

location system, wifi extenders, lighting drivers, speaker connections, CCTV connections, heater

junctions etc as required. Design to facilitate the installation and provide access for the ongoing

SS column cap to manufacturers detail with integrated structural connection to columns. Powder coat finish colour: closest approved match to dulux 'coconut

design and specification, in accordance

geometric set out of the existing granite

Planning,

Industry &

Environment

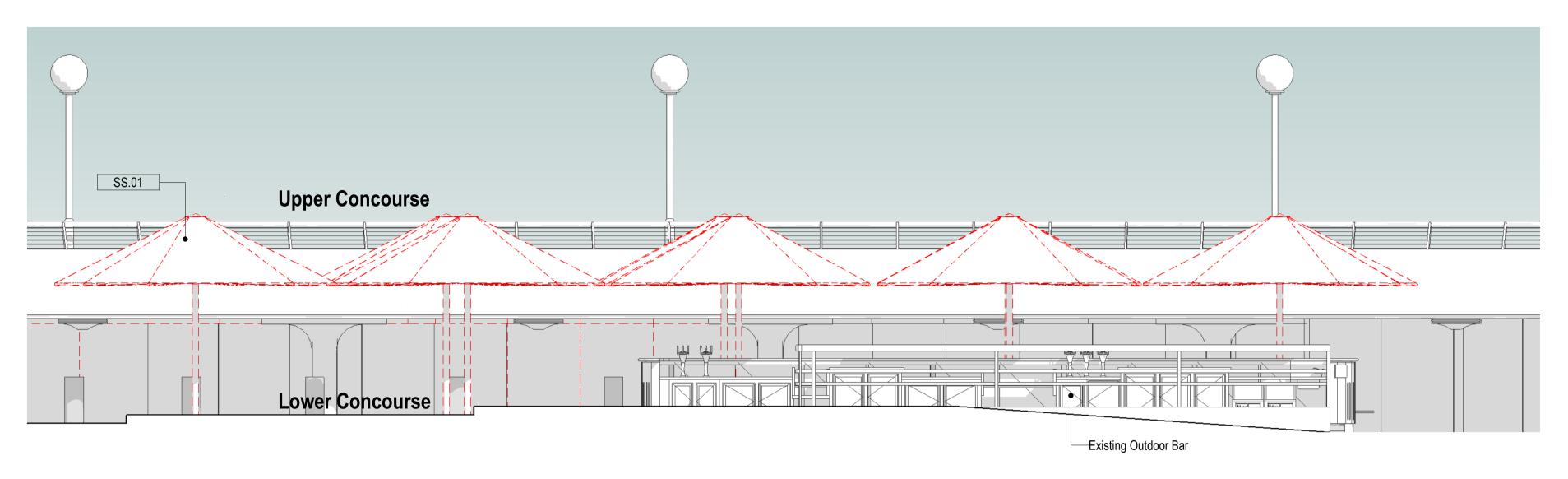
2.0 3.0

Development Application

1:50 Drawn by Checked by Scale @ A1 1:100 KR Scale @ A3 **16/03/2015** Sheet Issue Date Project Issue Date

26/06/19 Drawing No. 49HE001-3225

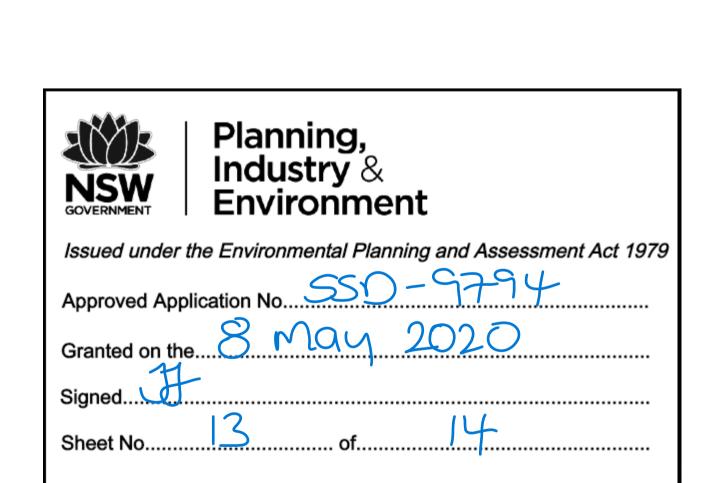
13/08/2019 3:07:50 PM



1 Elevation - Shade Structure - Existing



2 Elevation - Shade Structure - Proposed



Note:

Structure and sub-frame layout to be

concentric and in alignment with the

pavers below. All structure to be in

accordance with structural engineer's

with applicable codes and standards

and to the approval of the Sydney

Opera House Structural Engineers.

All metal works to be No.4 finished

an approved sample.

approved detail.

General Notes Detail Shade Structure:

'linished' Stainless Steel consistent with

Specification Legend

SS.01 Existing umbrellas to be removed. Patch and repair ex pavers where fixings are removed to an approved

SS.03 SS shade structure masts designed and fabricated to

and installed to approved details.

protrude through outriggers.

SS.04 Tensile fabric equal to Serge Ferrari Soltis, colour closest approved match to Dulux Coconut Husk, to be designed

SS.06 SS shade structure outriggers designed and fabricated to approved detail. Powder coat finished. Colour: closest

approved match to dulux coconut husk.

SS.12 Misting nozzles. Misting runs within framing only. All connections made in accessible locations. Nozzles

Specification

design and specification, in accordance

geometric set out of the existing granite

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proceeding with the works.

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Rev Date Amendments

Rev Date Amendments

01 02/04/19 For Information
02 25/06/19 Development Application
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Humphrey & Edwards Pty Ltd | ABN 89056638227

Nominated Architect: Glenn Cunnington #6415

Project
Sydney Opera House Lower Concourse
Improvements

Client
Sydney Opera House Trust

Location
Lower Concourse, Sydney Opera House,
Bennelong Point, Sydney

Drawing

Detail Elevation - Shade Structure

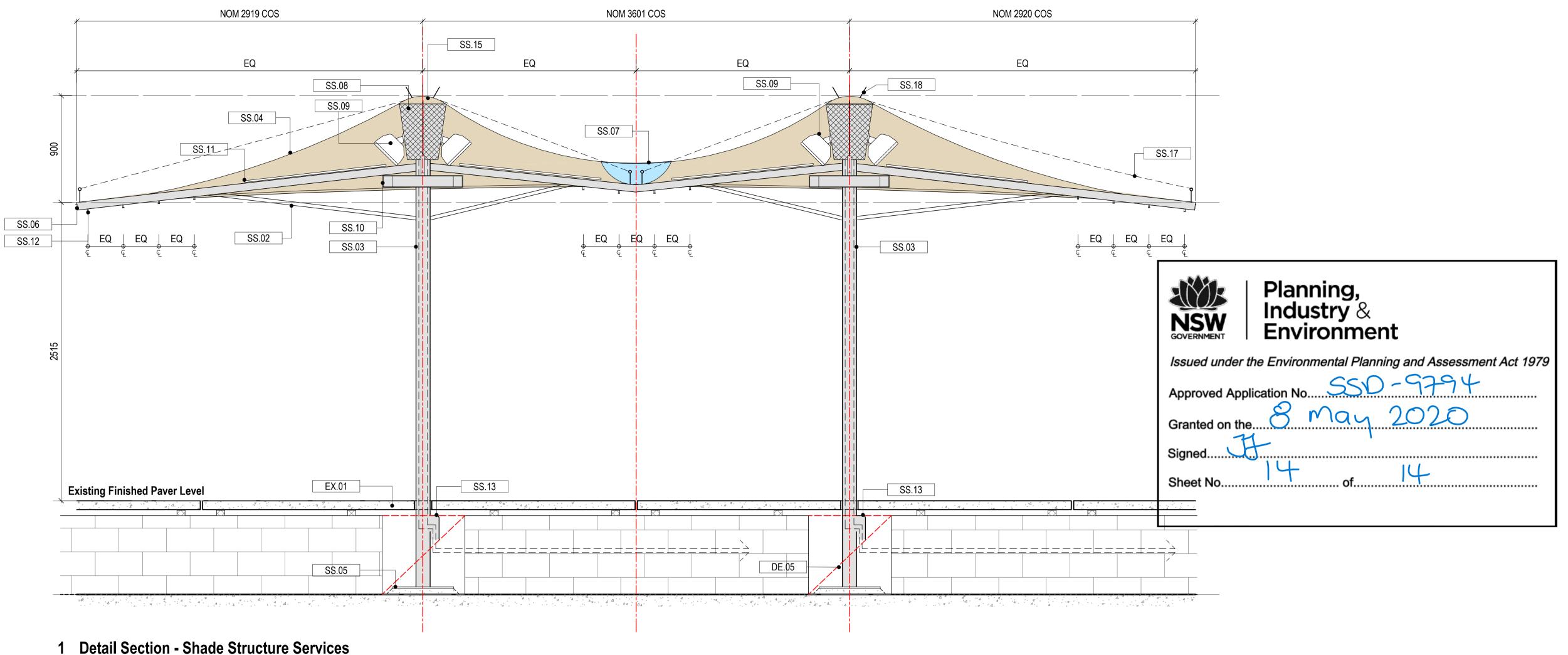
Development Application

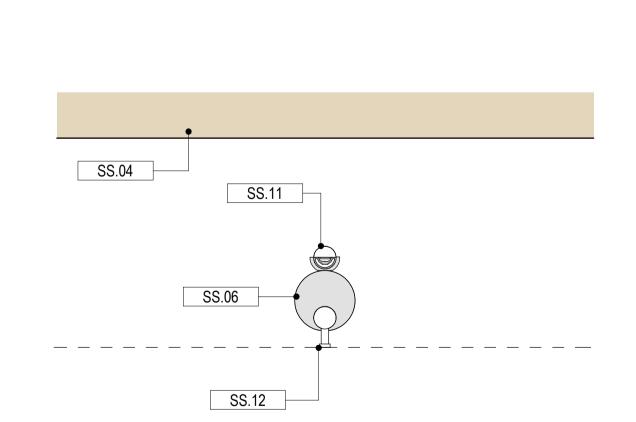
 Scale @ A1
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 Sheet Issue Date
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3 Detail Section - Shade Structure Services

SS.08

SS.09

SS.10

SS.11

2 Detail Section - Service bracket

3 Detail Section - Sh

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| Rev | Date | Amendments |
| 27/05/19 | Preliminary |
| Development Application |
| Development Applica

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Humphrey & Edwards Pty Ltd | ABN 89056638227

Nominated Architect: Glenn Cunnington #6415

SS.13

NOM 400

Sydney Opera House Lower Concourse Improvements

SS.18

SS.15

SS.17

SS.04

SS.19

SS.16

Client
Sydney Opera House Trust

Location
Lower Concourse, Sydney Opera House,
Bennelong Point, Sydney

Drawing

Detail Section - Shade Structure Services

Note:

Ref

Structure and sub-frame layout to be concentric and in alignment with the geometric set out of the existing granite pavers below. All structure to be in accordance with structural engineer's design and specification, in accordance with applicable codes and standards and to the approval of the Sydney Opera House Structural Engineers.

General Notes Detail Shade Structure: All metal works to be No.4 finished 'linished' Stainless Steel consistent with an approved sample.

Specification Legend

Specification

- DE.05 Cut section of granite paving and block wall out as required to facilitate fixing for shade structure columns
- EX.01 Existing granite pavers to remain insitu. Neatly cut around
- shade structure columns providing consistent clearance
- S.02 SS Shade structure struts designed and fabricated to approved detail.
- S.03 SS shade structure masts designed and fabricated to approved detail.
- approved match to Dulux Coconut Husk, to be designed and installed to approved details.

 SS base plate and fixing in accordance with the structural

Tensile fabric equal to Serge Ferrari Soltis, colour closest

- engineer's design and specification

 SS shade structure outriggers designed and fabricated to
- approved detail. Powder coat finished. Colour: closest approved match to dulux coconut husk.
 SS.07 Tensile fabric, Serge Ferrari 402, Translucent infill between
- umbrella elements as indicated on plan.
- Removable approved perforated stainless sheet panels with discreet secure SS fixings designed to conceal services infrastructure including GPS table location system, wifi extenders, lighting drivers, speaker connections, CCTV connections, heater junctions etc as required. Design to facilitate the installation and provide access for the ongoing maintenance of services.
- Indicative speaker locations. Speaker similar to void indigo 6 pro with colour matched finish (to dulux "coconut husk" with adjustable mounting brackets. Location, specification and configuration TBC with acoustic and audio-visual consultants. Speakers are to generally be directed away from residential apartments to the south and downwards from their mounting position towards patrons.
- SS.10 Infra-red electric radiant heating with variable control and zoned wiring. Specifications and configuration TBC, with experienced contractors.
- Strip led up-lighting to the underside of the shade structure fabric fabricated from proprietary suitably weather-proof strip led fitted within proprietary aluminum housing with integrated acrylic diffusers to effect even distribution of light over the underside of the canopy. Fit led strip in 2 or 3 independently controlled sections to facilitated graduated illumination of the underside of the fabric to compensate for the variable proximity of the strip light to the fabric.
- SS.12 Misting nozzles. Misting runs within framing only. All connections made in accessible locations. Nozzles protrude through outriggers.
- SS.13 All service connections to run under pavers in accordance with service consultants requirements with weather proof penetration to shade structure in accordance with shade structure manufacturers details.
- SS.15 SS column cap to manufacturers detail with integrated structural connection to columns. Powder coat finish colour: closest approved match to dulux 'coconut husk'.
- SS.16 Perforated SS gusset to facilitate the mounting of service infrastructure
- SS.17 Stainless Steel bird wire to approved details
 SS.18 Stainless Steel bird spikes to approved details
- SS.19 Indicative equipment within SS gusset. Equipment including, GPS table location system, wifi extenders, lighting drivers,



speaker connections, CCTV connections, heater junctions



Scale @ A1 1:5, 1:20 Drawn by KR Checked by GC

Scale @ A3 1:10, 1:40 KR GC

Project Issue Date 16/03/2015 Sheet Issue Date 26/06/19

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