

SYDNEY OPERA HOUSE | FRONT OF HOUSE

Ballet Rehearsal Room

ARCHITECTURAL DRAWING SET	UNDER THE STEPS	REV
DA ISSUE	02 AUGUST 2016	A



Document Information

CLIENT

SYDNEY OPERA HOUSE TRUST

PROJECT

BUILDING RENEWAL - FRONT OF HOUSE

ARCHITECT

TONKIN ZULAIKHA GREER

CONSULTANT

AECOM

TEAM

STEENSEN VARMING

ARUP

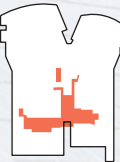
WARREN SMITH & PARTNERS

THE MACK GROUP

DOCUMENT REVISION AND STATUS					
REV	DATE	NAME	STATUS	CHECKED	APPROVED
A	12.08.2016	DA DRAWING ISSUE - BALLET REHEARSAL ROOM	FINAL	RM	TG

TONKIN ZULAIKHA GREER ARCHITECTS

ADDRESS 117 RESERVOIR STREET SURRY HILLS NSW 2010
PHONE +61 2 9215 4900
EMAIL tim@tzg.com.au
regina@tzg.com.au
ABN 46 002 722 349
www.tzg.com.au



Introduction

The Sydney Opera House Trust (SOHT) has engaged Tonkin Zulaikha Greer (TZG) Architects to undergo the Concept- and Schematic Design Development and Development Application for the Front Of House (FOH) Projects under the Renewal Framework Program, which was developed in 2014 to guide the transformation of the building over the next decade and includes a range of projects that cover all aspects of the Opera House including theatres, front of house, back of house and proposed new developments.

The Front Of House (FOH) Projects include 7 individual projects: Entry Foyer+ FOH Lift 36, Under the Steps, Function Centre, Theatre and Events Offices, Creative Learning Centre, Southern Foyers and the new Ballet Rehearsal Room.

The DA Drawing Issue includes the architectural drawings, finishes boards and perspectives.

The Designs have been developed in collaboration with the services and centralised consultant team and went through an intensive Stakeholder consultation process. Furthermore several reviews have been held by the Eminent Architects Panel, the SOH Conservation Council and the SOH Executive Team.

The Concept- and the Schematic Design Reports are available on request and show the detailed design process and include the services and centralised consultant reports and expert reviews.

The Front of House projects have been thought about as a suite of interrelated projects, however they have been individually documented and analysed for clarity.

The general process that has been conducted is as follows:

CONCEPT DESIGN / OPTIONS STUDY :

- As series of Briefs were prepared by the SOH in consultation with relevant stakeholders
- Discussion with and briefing by Stakeholders on a project by project basis
- Development of preferred options
- Testing of options with stakeholders which lead to three preferred options for each project
- Analysis of preferred options, including testing against the Sydney Opera House Conservation Management Plan and the Utzon Design Principles
- Recommendation

SCHEMATIC DESIGN :

- A preferred option was selected by the Executive Team
- Detailed stakeholder workshops were held for the individual stakeholder groups and the feedback has been incorporated into the current proposals
- Further site investigation and the progressing services designs informed the design development and caused some change to some concept design ideas

Whilst this study has very much been aimed at achieving a range of functional requirements that will be relevant for the SOH for the next generation, the architectural philosophy is very much seen as an exercise in interpretive design, whereby the SOH Utzon Design principles will be distilled to create relevant contemporary use and expression.

The new projects have been thought about in terms of an architectural continuum, whereby they are imbedded in the legendary icon, but reaching out to Sydney's future.

At a cultural level, we are thinking of the SOH as an Iconic container reflecting the time of it's invention, but with ever evolving contemporary contents that are relevant and reflective of our time.



Architectural Design Statement

The Renewal projects have been considered as elements taking their position in an architectural continuum, whereby they are imbedded in the fabric and history of the legendary icon, but reach out to Sydney’s future.

Culturally, we view the Sydney Opera House as an iconic container that continues to reflect the era of its invention, but with ever evolving contemporary contents that give voice to the artistic activities and philosophical enquiries of our own time.

Whilst the Renewal projects design has been aimed at fulfilling a range of functional requirements that will be relevant for the SOH for the next generation, the architectural procedure is one of interpretive design, whereby the Utzon and Opera House principles are distilled to infuse this later contemporary use and aesthetic.

Ballet Rehearsal Room

Function

The existing Ballet Rehearsal Room G515A under the JST Theatre will need to be relocated to provide space for the new Function Centre Kitchen. The proposed new location adjacent to the Central Passage has been reviewed by the Ballet and Opera and found suitable for their use.

Concept

The Wobbly panels from the existing Ballet Rehearsal Room will be reused at the new location and the other finishes are proposed to match the existing materials found in BOH spaces. The ceiling is to be exposed concrete beams and painted services ducts to match the grey fabric lining of the exposed acoustic wall panels adjacent to the wobbly panels.



SYDNEY OPERA HOUSE | FRONT OF HOUSE RENEWAL

BALLET REHEARSAL ROOM

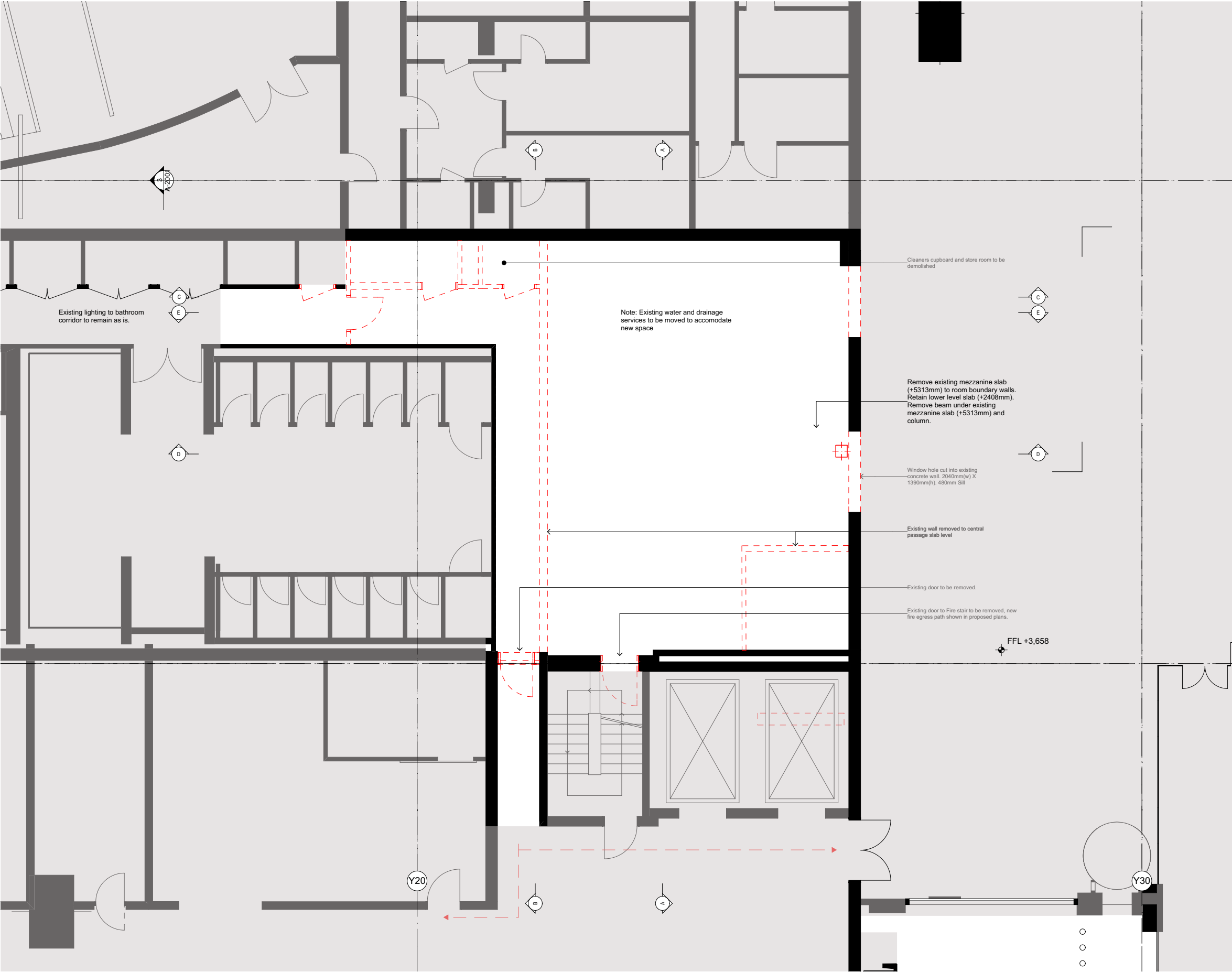
DRAWING LIST

BALLET REHEARSAL ROOM DEVELOPMENT APPLICATION		
		Scale @ A1
07 BALLET REHEARSAL ROOM		
WOBBLY PANEL		1:20
A 0000 GENERAL INFORMATION		
A-0000	COVER PAGE	1:1
A-0001	LOCATION PLAN	1:250
A 0100 DEMOLITION PLANS		
A-0101	GROUND FLOOR DEMOLITION PLAN	1:50
A-0102	SECTION A DEMOLITION	1:20
A 1000 GENERAL ARRANGEMENT PLANS		
A-1001	GROUND FLOOR PLAN	1:50
A 1200 REFLECTED CEILING PLANS		
A-1201	GROUND FLOOR RCP	1:50
A 2100 DETAIL SECTIONS		
A-2101	SECTIONS 1:20 A	1:20
A-2102	SECTIONS 1:20 B	1:20
A-2103	SECTIONS 1:20 C	1:20
A-2104	SECTIONS 1:20 D	1:20
A-2105	SECTIONS 1:20 E	1:20
A 9000 FINISHES		
A-9001	FINSHES	
A 9100 PERSPECTIVES		
A-9101	PERSPECTIVE	

LEGEND

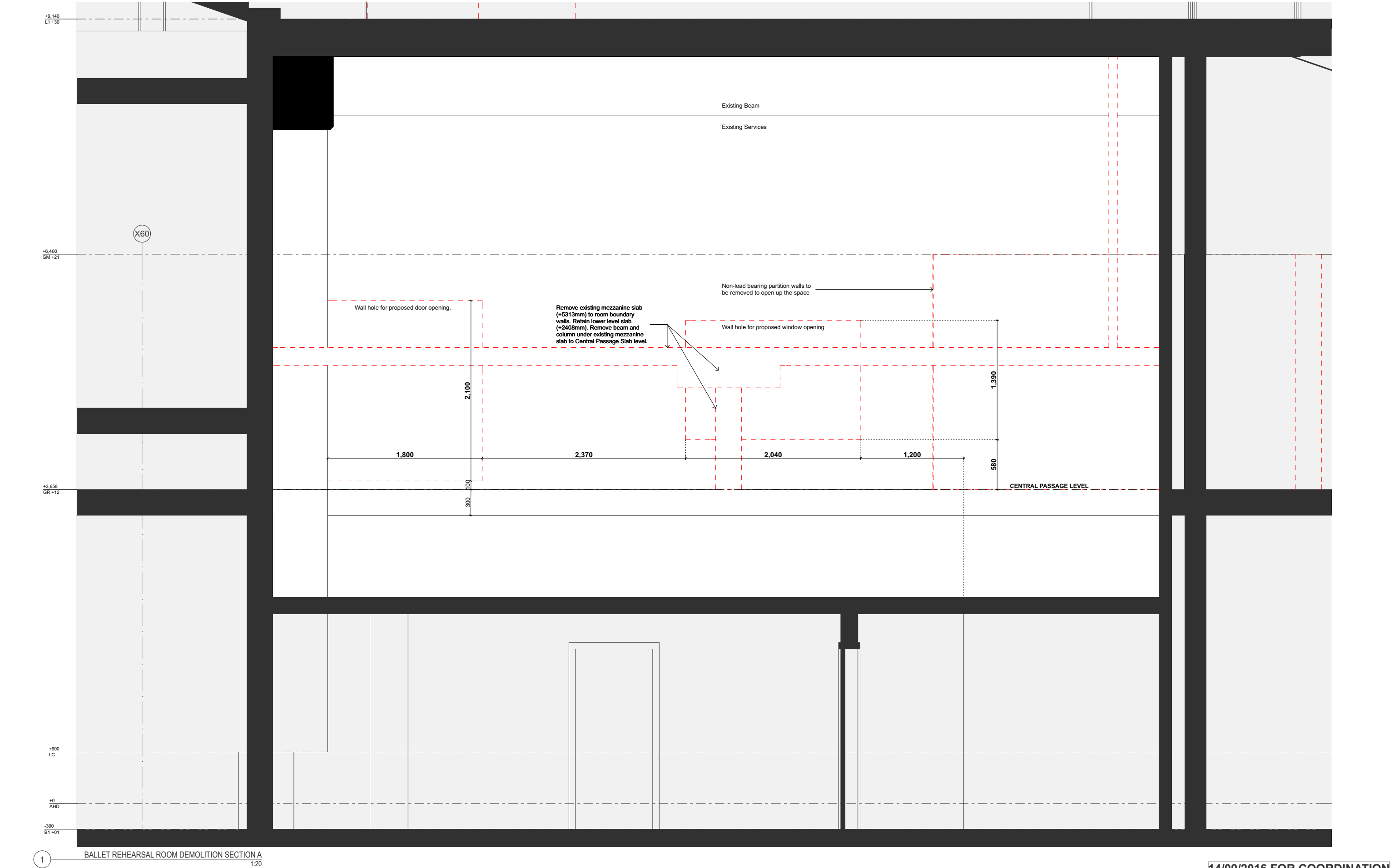
Code	Description	Code	Description	Code	Description
AC	Air-Conditioning	GLBF1	bronze-framed Glass Door, hinge	UR	Urinal
ACC	Accessible	GLBF2	bronze-framed Glass Door, sliding	VJ	Vertical Joints
ACR	Acrylic Solid Surface Material	GLBF3	bronze-framed Glass Door, pivot	WB1	Wash Basin Type 1(normal)
ADJ	Adjustable Shelf	GLMF1	steel-framed Glass Door, sliding (Wind-break)	WB2	Wash Basin Type 2 accessible
AF	Access Floor	GLMF2	steel-framed Glass Wall, fixed (Wind-break)	WB3	Wash Basin Type 3 (Trough Handwashing Kids)
AFFL	Above Finished Floor Level	GR1	Grab Rail 1 - Accessible shower rail	WC1	Water Closet (normal)
AFS	AFS concrete paint finish	GR2	Grab Rail 2 - Accessible WC	WC2	Water Closet accessible
AH	Flush Access Panel	GR3	Grab Rail 3 - Ambulant WC	WC3	Water Closet Ambulant
AP1	Acoustic Panel No Finish	H	Hydraulic riser	WF	Water Drinking Fountain
AP2	Acoustic Panel, ceiling, perf. Metal Finish	HD	Hand Dryer	WP1	Repurposed existing Wobbly Panel, operable
AP3	Acoustic Panel, ceiling, perf. Metal Finish	HJ	Horizontal Joints	WP2	Repurposed existing Wobbly Panel, operable and adjustable
AP4	Acoustic Panel No Finish	HK	Hook - Coats	WP3	Repurposed existing Wobbly Panel, fixed
AP5	Acoustic Panel, Felt Finish	HR	Hanging Rail	WP4	Repurposed existing Wobbly Panel, integrated
AU	Acoustic Underlay	HRM	Handrail Metal	WP5	Repurposed existing Wobbly Panel, ceiling
AV	Audio Visual	HRT	Handrail Timber	X	Existing
BCT	Baby Change Table	HWU	Hot Water Unit	XAC	Existing AC
BG	Glass balustrade	JP	Joinery Pull	XAP	Existing Acoustic Ceiling Panel
BIK	Bike Racks	KP	Kick Plate	XB	Existing Architectural Bronze
BIN	Under sink garbage bin	LAM	Laminate Finish	XBOL	Existing Bollard
BIT	Bitumin	M	Mechanical Riser	XBR	Existing Bronze Element
BL	Fair Faced Blockwork	MA1	Marblo	XBS	Existing Bench Seat
BLD	Roller Blinds	MB1	Metal Balustrade Type 1	XC	Existing Concrete
BLD1	Roller Blinds (Sunscreen)	MCP	Metal Column, painted	XCA	Existing Concrete with acoustic treatment
BLD2	Roller Blinds (Block Out Blinds)	MF	Metal Flashing	XCP	Existing Concrete Painted (or Sealed)
BLD3	Roller Blinds (Green Screen)	MIR	Mirror	XCPS	Existing Concrete Paint Finish, stripped
BLP	Blockwork, paint finish	MLF	Metal Louvre- Fixed	XCPT	Existing Carpet
BLR	Blockwork, reinforced	MLO	Metal Operable Louvre	XCTF	Existing Ceramic Tiles
BOL	Bollard	MM	Metal Mesh (stretched)	XD	Existing Door to remain
BR1	Brass counterfronts, EF	MPBP	Moisture Resistant Plasterboard Ceiling, paint finish	XDB	Existing Distribution Board
BR2	Brass counterfronts, SF	MPG	Metal Pipe Rigging	XDP	Existing Downpipes
BR3	Brass seat, UTS	MS	Stair Metal	XEP	Event Pit
BR4	Bronze joinery, EF	MW	Metal Windows, bronze-framed	XFB	Floor Box, electrical+data
BR5	Bronze handrail, UTS	OV	Oven	XFH	Existing Fire Hydrant
BR6	Bronze handrail, CLC and FC	PBF2	2 hour Fire Rated Plasterboard	XGL	Existing Glazing, brown tint
BRRP	Brickwork, Rendered and Painted	PBP	13mm plasterboard Paint Finish	XGL1	Existing Glazing, clear
BT1	Benchmark, Marblo	PC1	Precast Granite, Paver	XGL2	Existing Glazing, frosted
BT2	Benchmark, Glass	PC2	Precast Granite, Wall Panel	XGLBF	Existing bronze-framed Glass Door, hinge
C	Concrete	PC3	Precast Granite, Ceiling Panel	XGLBF2	Existing bronze-framed Glass Door, sliding
CFC	Compressed Fibre cement	PF	Paint Finish	XHRM	Existing Handrail Metal
CFS	Concrete steel trowel finish	PP	2 pack Polyurethane Paint	XMB	Existing Metal Balustrade
CM	Suspended Ceiling, Metal	PP1	Polyurethane Paint - High reflective black	XMB	Existing Metal Balustrade
CO2	Class 2C Off form Concrete	PTD	Paper Towel Dispenser	XMG	Existing Metal Gate
CO2P	Class 2 Off form Concrete Paint Finish	RF	Resilient Finish Type CLC	XMS	Existing Metal Stair
COMMS	Communications Cupboard	RF1	Resilient Finish Type EF	XP	Existing Painted
COS	Check On Site	RFS	Resilient Flooring - Slip Resistant	XP	Existing Painted
CPT1	Carpet, Entry Foyer Seating	RH	Rangehood	XPBP	Existing Plasterboard Painted
CPT2	Carpet, Entry Foyer Ticketing	RL	Reduced Level	XPC1	Existing Precast Granite, Paver
CPT3	Carpet, Theatre & Events Offices	RP	Rigging Points	XPC2	Existing Precast Granite, Wall Panel
CT	Cooktop	RSK	Resilient Cove Skirting	XPC3	Existing Precast Granite, Ceiling Panel
CTF	Ceramic Floor Tiles	SAP	Suspended acoustic panels	XPF	Existing External Painted Render
CTS	Ceramic Skirting	SC1	Services Carriage (light, sound, sprinkler)	XPW	Existing Potable Water
CTW	Ceramic Wall Tiles	SC2	Services Carriage (light, sound, acoustic, rigging)	XRP	Existing Rendered and Painted
CUR	Curtains	SCDB	SCI Door Distribution Board	XSC	Existing Services Carriage (light, sound, sprinkler)
CUR 1	Felt Dividing Panel Curtain	SCI	Solid core door internal	XTB	Existing Timber Balustrade
DB	Colour backed glass	SCV	Sprinkler Control Valve	XTCW	Existing Heritage Ceramic Tiles
DP	Down Pipe	SD1	Soap Dispenser	XTF	Existing Timber Floor
DS1	Door stop - Floor mounted door stop	SHS1	wall shelf	XTF	Existing Timber Floor
DS2	Door stop - wall mounted door stop	SKY	Skylight	XTPC	Existing GRC Precast Floor Tile, honed
DW	Dishwasher	SMC	Stretched Membrane Ceiling (Barrisol)	XTS	Existing Terrazzo Stone Flooring
EF	Extraction Fan Ceiling Mounted	SNK	Sink - kitchen	XTS	Existing Timber Stair
F	Fridge	SNKC	Sink - Cleaner	XTSK	Existing Skirting
F1	60 FRL	SNKL	Sink - Laundry	XTV1	Existing Timber Veneer
F1.5	90 FRL	SS	Stainless Steel	XWF	Existing Water Fountain
F2	120 FRL	TAP1	Tapware, Washbasin Mixer, regular	XWP	Existing Wobbly Panel
FB1	Floor Box, electrical+data	TAP2	Tapware, Washbasin Mixer, accessible	YG	Yard Gully
FC	Set Fibre Cement 6mm painted	TAP3	Tapware, Kitchen Sink Mixer		
FE	Fire extinguisher	TF	Timber flooring		
FFL	Finished Floor Level	TF2	Timber Sprung flooring		
FG	Façade Glazing	THR	Threshold Ramp max. 1 in 8		
FH	Fire Hydrant	TI	Tactile Indicators		
FHR	Fire Hose Reel	TIK	Ticketing/Information Kiosks		
FM	Floor Mat	TME	To Match Existing		
FRL	Fire Resistant Level	TOW	Top of wall		
FSL	Finshed Structural level	TP	Toilet partitions		
FW	Floor Waste	TP1	Timber Panel, Slatted, Brush Box		
FWC	Textured Felt-Brass Wall	TPC	GRC Precast Floor Tile, honed CLC		
FWC1	Felt Wall Covering, Entry Foyer	TPC1	GRC Precast Floor Tile, honed EF		
FWC2	Felt Wall Covering, Function Centre	TPD	Toilet partition doors		
FWC3	Felt Wall Covering, Creative Learning Centre	TPH	Toilet Paper Holder		
GCB	Colour backed glass	TR	Towel rail		
GF	Frameless Glazing	TS1	Terrazzo Stone Flooring		
GL	Glazing, brown tint	TS2	Stone Tile		
GL1	Glazing, clear	TSN1	Stair Nosing Type 1		
GL2	Glazing, frosted	TV1	Timber Veneer, Entry Foyer		
GL3	Glazing, TerraGlaz	TV2	Timber Veneer, Creative Learning Centre		
GLBF	Bronze-framed Glass Door, Hinge	UO	Unless Indicated Otherwise		

DATE	REV	DESCRIPTION	NOTES:	VERTICAL TRANSPORT CONSULTANT	ACOUSTIC ENGINEER	AV CONSULTANT	SECURITY CONSULTANT	ELECTRICAL ENGINEER	BCA/PCA CONSULTANT	CLIENT:	PROJECT :	ARCHITECT	DRAWING TITLE	DRAWN BY	
12.08.2016	A	ISSUED FOR DA	Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	Aecom / Adam Magee Phone: 0416 356 830 Email: Adam.Magee@aecom.com	Arup / Christopher Sims Phone: +61 2 9320 3462 Email: Christopher.Sims@arup.com	Arup / Ben Moore Phone: +61 401 572 480 Email: Ben.moore@arup.com	Arup / Shane Norton Phone: +61 427 190 238 Email: Shane.norton@arup.com	Steensen Varming / Ivan Mira Phone: 9967 2200 Email: Ivan.Mira@steensenvarming.com	Group DLA / Shane Berry Phone: 0448 566606 Email: sberry@groupdla.com.au	SOH Trust Phone: 0498 390 101 (Matthew Lorrimer) Email: mlorrimer@sydneyoperahouse.com	Sydney Opera House - Front of House Renewal	TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL: tm@tzg.com.au WEB: www.tzg.com.au	COVER PAGE	TS, CP	
				FIRE ENGINEERING Warren Smith Partners / David Bolt Phone: 0425 256 922 Email: david@warrensmith.com.au	MECHANICAL ENGINEER Warren Smith Partners / Campbell Hazelton Phone: +61 2 8234 8655 Email: campbell@warrensmith.com.au	LIGHTING ARCHITECT Steensen Varming / Ashleigh Bretherton Phone: 9967 2200 Email: Ashleigh.Bretherton@steensenvarming.com	MECHANICAL ENGINEER Aecom / Kheng Ip Phone: 02 8934 0000 Email: Kheng Ip@aecom.com	STRUCTURAL ENGINEER AECOM / Jonathan Onslow Phone: 0434 253 327 Email: jonathan.onslow@aecom.com	ESD CONSULTANT Cundall / David Clark Phone: 0434 759840 Email: d.clark@cundall.com						
				KITCHEN CONSULTANT Mack Group / Nisha Ghanwat Phone: 02 9550 0566 Email: hg@mackgroup.com.au	COST PLANNING CONSULTANT Atlas Group / Jason Finn Phone: 0413 753469 Email: alex.buchan@atlasgroup.com	HERITAGE CONSULTANT Design 5 / Alan Croker Phone: 0405 627892 Email: alancroker@design5.com.au	FIRE CONSULTANT Arup / Alistair Morrison Phone: 0405 690585 Email: Alistair.morrison@arup.com	ACCESSIBILITY CONSULTANT i-Access / Richard Seidman Phone: 0408 627908 Email: r.seidman@iaccessconsultants.com							
											1:1 @ A1 August 2016	DATE			
											PHASE	DRAWING NO	REV		
											DA	A-0000	A		



1 OPEN ROOM ROUND TABLE ARRANGEMENT 1:50

DATE	REV	DESCRIPTION	NOTES:	VERTICAL TRANSPORT CONSULTANT	ACOUSTIC ENGINEER	AV CONSULTANT	SECURITY CONSULTANT	ELECTRICAL ENGINEER	BCA/PCA CONSULTANT	CLIENT:	PROJECT :	ARCHITECT	DRAWING TITLE	DRAWN BY
12.08.2016	A	ISSUED FOR DA	Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	Aecom / Adam Magee Phone: 0416 356 830 Email: Adam.Magee@aecom.com	Arup / Christopher Sims Phone: +61 2 9320 3462 Email: Christopher.Sims@arup.com	Arup / Ben Moore Phone: +61 401 572 480 Email: Ben.moore@arup.com	Arup / Shane Norton Phone: +61 427 150 238 Email: Shane.norton@arup.com	Steensen Varming / Ivan Mira Phone: 9967 2200 Email: Ivan.Mira@steensenvarming.com	Group DLA / Shane Berry Phone: 0448 566606 Email: sberry@groupdla.com.au	SOH Trust Phone: 0498 390 101 (Matthew Lorrimer) Email: mlorrimer@sydneyoperahouse.com	Sydney Opera House - Front of House Renewal	TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL: tm@tazg.com.au WEB www.tazg.com.au	GROUND FLOOR DEMOLITION PLAN	TS, CP
				FIRE ENGINEERING Warren Smith Partners / David Bolt Phone: 0425 256 922 Email: david@warrensmith.com.au	HYDRAULIC ENGINEER Warren Smith Partners / Campbell Hazelton Phone: +61 2 8234 8655 Email: campbell@warrensmith.com.au	LIGHTING ARCHITECT Steensen Varming / Ashleigh Bretherton Phone: 9967 2200 Email: Ashleigh.Bretherton@steensenvarming.com	MECHANICAL ENGINEER Aecom / Kheng Ip Phone: 02 8634 0000 Email: Kheng Ip@aecom.com	STRUCTURAL ENGINEER AECOM / Jonathan Onslow Phone: 0434 253 327 Email: jonathan.onslow@aecom.com	ESD CONSULTANT Cundall / David Clark Phone: 0424 750840 Email: d.clark@cundall.com		BALLET REHEARSAL ROOM		1:100 @ A3 1:50 @ A1	RM, TG
				KITCHEN CONSULTANT Mack Group / Nisha Ghanthwal Phone: 02 9550 0566 Email: hg@mackgroup.com.au	COST PLANNING CONSULTANT Atlas Group / Jason Finn Phone: 0413 753469 Email: alex.buchan@altusgroup.com	HERITAGE CONSULTANT Design 5 / Alan Croker Phone: 0416 227892 Email: alancroker@design5.com.au	FIRE CONSULTANT Arup / Alistair Morrison Phone: 0405 696585 Email: Alistair.morrison@arup.com	ACCESSIBILITY CONSULTANT Access / Richard Seidman Phone: 0408 627908 Email: r.seidman@accessconsultants.com					PHASE DA DRAWING NO A-0101	DATE August 2016 REV A

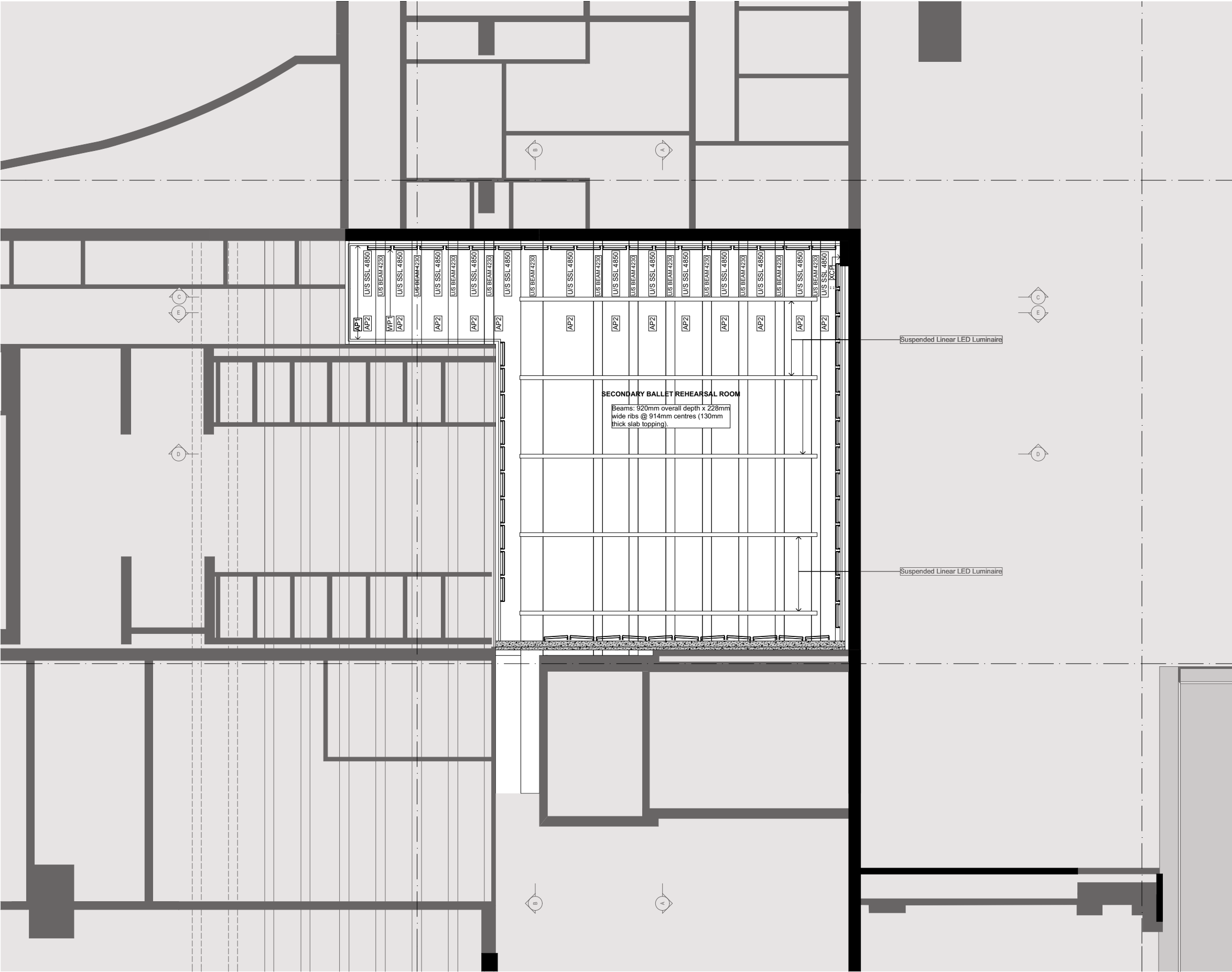


DATE	REV	DESCRIPTION	NOTES: Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	VERTICAL TRANSPORT CONSULTANT Anup / Adam Magee Phone: 0416 356 630 Email: Adam.Magee@aecom.com	ACOUSTIC ENGINEER Anup / Christopher Sims Phone: +61 2 9320 3462 Email: Christopher.Sims@anup.com	AV CONSULTANT Anup / Ben Moore Phone: +61 401 572 480 Email: Ben.moore@anup.com	SECURITY CONSULTANT Anup / Shane Norton Phone: +61 427 190 238 Email: Shane.norton@anup.com	ELECTRICAL ENGINEER Steensen Varming / Ivan Mira Phone: 9967 2200 Email: Ivan.Mira@steensenvarming.com	BCA/PCA CONSULTANT Group DLA / Shane Berry Phone: 0448 966606 Email: sherry@groupdla.com.au	CLIENT: Soh Trust Phone: 0498 390 101 (Matthew Lorrimer) Email: mlorrimer@sydneyoperahouse.com	PROJECT : Sydney Opera House - Front of House Renewal BALLET REHEARSAL ROOM PROJECT NO : 15031	ARCHITECT TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL: tm@tzig.com.au WEB: www.tzig.com.au	DRAWING TITLE SECTION A DEMOLITION	DRAWN BY TS, CP	
12.08.2016	A	ISSUED FOR DA		FIRE ENGINEERING Warren Smith Partners / David Bolt Phone: 0425 256 922 Email: david@warrensmith.com.au	HYDRAULIC ENGINEER Warren Smith Partners / Campbell Hazleton Phone: +61 2 8234 8655 Email: campbell@warrensmith.com.au	LIGHTING ARCHITECT Steensen Varming / Ashleigh Bretherton Phone: 9967 2200 Email: Ashleigh.Bretherton@steensenvarming.com	MECHANICAL ENGINEER Aecom / Kheng Ip Phone: 02 8934 0000 Email: Kheng Ip@aecom.com	STRUCTURAL ENGINEER AECOM / Jonathan Onslow Phone: 0434 253 327 Email: jonathan.onslow@aecom.com	ESD CONSULTANT Cundall / David Clark Phone: 0424 750840 Email: d.clark@cundall.com					CHECKED RM, TG	
				KITCHEN CONSULTANT Mack Group / Nisha Ghanitwal Phone: 02 9550 0566 Email: hg@mackgroup.com.au	COST PLANNING CONSULTANT Altus Group / Jason Finn Phone: 0413 753469 Email: alex.buchan@altusgroup.com	HERITAGE CONSULTANT Design 5 / Alan Croker Phone: 0416 278692 Email: alan.croker@design5.com.au	FIRE CONSULTANT Anup / Alistair Morrison Phone: 0405 696935 Email: alistair.morrison@anup.com	ACCESSIBILITY CONSULTANT iAccess / Richard Seidman Phone: 0408 627908 Email: r.seidman@iaccessconsultants.com						SCALES 1:40 @ A3 1:20 @ A1	DATE August 2016
														PHASE DA	DRAWING NO A-0102

14/09/2016 FOR COORDINATION

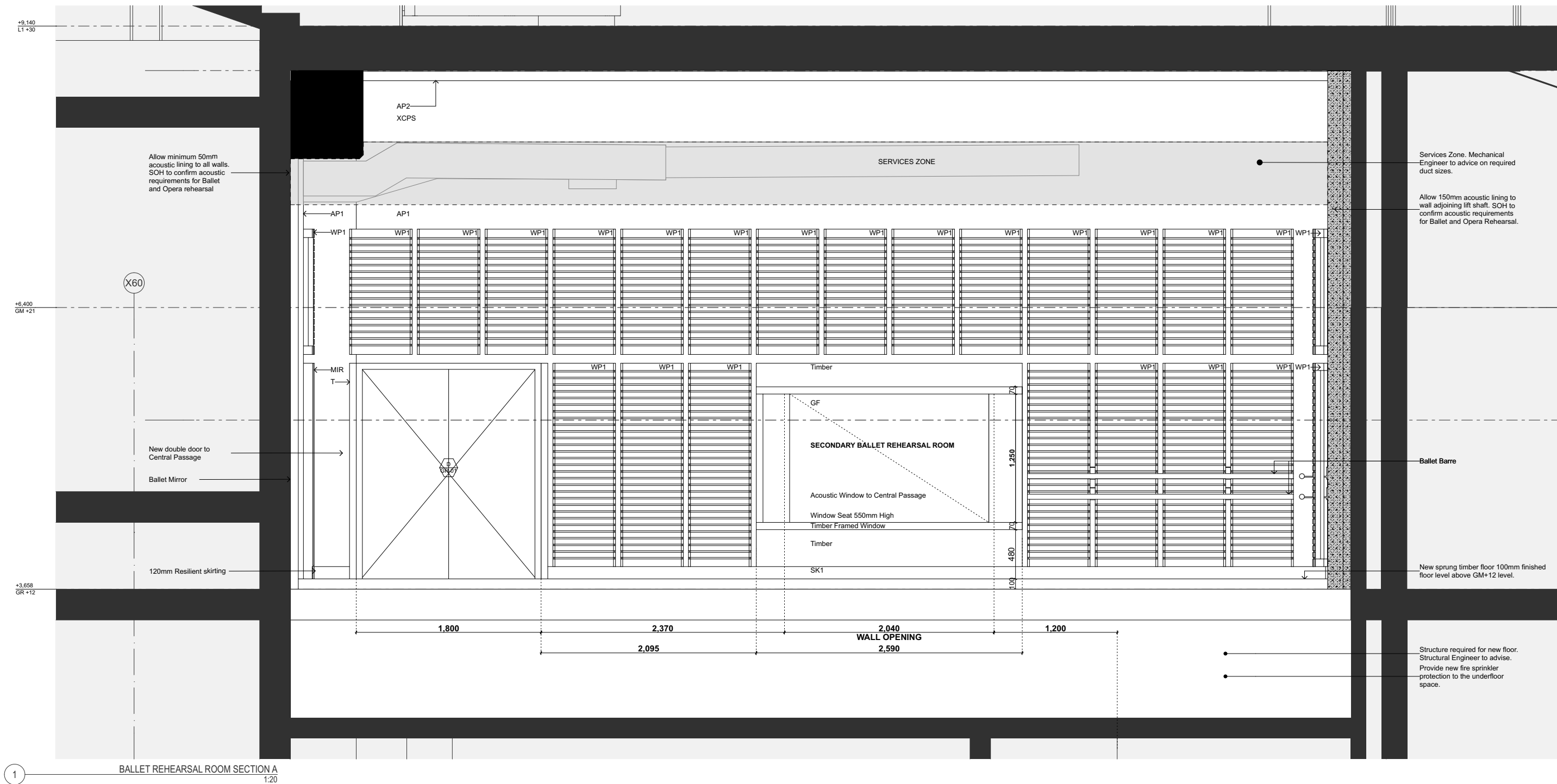


DATE	REV	DESCRIPTION	NOTES:	VERTICAL TRANSPORT CONSULTANT Aecom / Adam Magee Phone: +616 356 830 Email: Adam.Magee@aecom.com	ACOUSTIC ENGINEER Arup / Christopher Sims Phone: +61 2 9320 3462 Email: Christopher.Sims@arup.com	AV CONSULTANT Arup / Ben Moore Phone: +61 407 152 480 Email: Ben.moore@arup.com	SECURITY CONSULTANT Arup / Shane Norton Phone: +61 427 193 238 Email: Shane.norton@arup.com	ELECTRICAL ENGINEER Steeners Varming / Ivan Mira Phone: 5967 2200 Email: sberny@steenservarming.com	BCA/PCA CONSULTANT Group D/LA / Shane Berry Phone: 0448 566606 Email: sberry@groupdila.com.au	CLIENT: SOH Trust Phone: 0498 390 101 (Matthew Lorrimer) Email: mlorrimer@sydneyoperahouse.com	PROJECT : Sydney Opera House - Front of House Renewal	ARCHITECT TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 Email: tm@tzzg.com.au WEB www.tzg.com.au	DRAWING TITLE GROUND FLOOR PLAN	DRAWN BY TS, CP	
12.08.2016	A	ISSUED FOR DA	Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd., and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	FIRE ENGINEERING Warren Smith Partners / David Bolt Phone: 0425 256 922 Email: david@warrensmith.com.au	HYDRAULIC ENGINEER Kundan Smith Partners / Campbell Hazleton Phone: +61 2 8234 8655 Email: campbell@warrensmith.com.au	LIGHTING ARCHITECT Steeners Varming / Ashleigh Bretherton Phone: 5967 2200 Email: Ashleigh.Bretherton@steenservarming.com	MECHANICAL ENGINEER Aecom / Jonathan Onslow Phone: 02 8534 0000 Email: jonathan.onslow@aecom.com	STRUCTURAL ENGINEER Aecom / Kheng Ip Phone: 0434 253 327 Email: d.clark@cundall.com	ESD CONSULTANT Aecom / Jonathan Onslow Phone: 0434 253 327 Email: d.clark@cundall.com		BALLET REHEARSAL ROOM		SCALES 1:100 @ A3 1:50 @ A1	CHECKED RM, TG	
				KITCHEN CONSULTANT Mack Group / Nisha Ghanawal Phone: 02 9550 2566 Email: hg@mackgroup.com	COST PLANNING CONSULTANT Atius Group / Jason Finn Phone: 02 92850 2566 Email: alex.buchanan@atiusgr.com	HERITAGE CONSULTANT Design 5 / Alan Croker Phone: 0416 695055 Email: a.croker@design5.com.au	FIRE CONSULTANT Arup / Alistair Morrison Phone: 0416 695055 Email: a.morrison@arup.com	ACCESSIBILITY CONSULTANT iAccess / Richard Seidman Phone: 0405 695055 Email: r.seidman@iaccessconsultants.com			PROJECT NO : 15031		PHASE DA	DRAWING NO A-1001	REV A



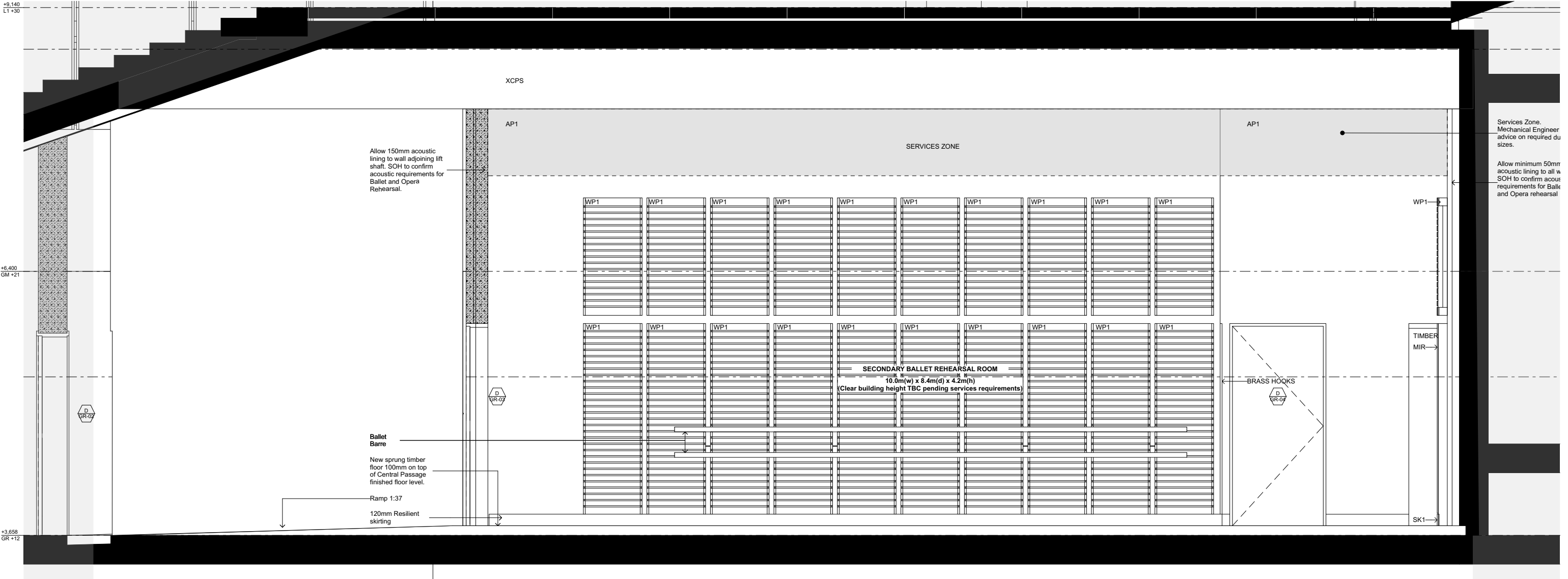
1 OPEN ROOM ROUND TABLE ARRANGEMENT
1:50

DATE	REV	DESCRIPTION	NOTES: Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	VERTICAL TRANSPORT CONSULTANT Aecom / Adam Magee Phone: 0416 356 830 Email: Adam.Magee@aecom.com	ACOUSTIC ENGINEER Arup / Christopher Sims Phone: +61 2 9320 3462 Email: Christopher.Sims@arup.com	AV CONSULTANT Arup / Ben Moore Phone: +61 401 572 480 Email: Ben.moore@arup.com	SECURITY CONSULTANT Arup / Shane Norton Phone: +61 427 150 238 Email: Shane.norton@arup.com	ELECTRICAL ENGINEER Steensen Varming / Ivan Mira Phone: 9967 2200 Email: Ivan.Mira@steensenvarming.com	BCA/PCA CONSULTANT Group DLA / Shane Berry Phone: 0448 566606 Email: sberry@groupdla.com.au	CLIENT: SOH Trust Phone: 0498 390 101 (Matthew Lorrimer) Email: mlorrimer@sydneyoperahouse.com	PROJECT : Sydney Opera House - Front of House Renewal	ARCHITECT TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 Email: tm@tazg.com.au WEB www.tazg.com.au	DRAWING TITLE GROUND FLOOR RCP	DRAWN BY TS, CP	
12.08.2016	A	ISSUED FOR DA		FIRE ENGINEERING Warren Smith Partners / David Bolt Phone: 0425 256 922 Email: david@warrensmith.com.au	HYDRAULIC ENGINEER Warren Smith Partners / Campbell Hazellon Phone: +61 2 8234 9655 Email: campbell@warrensmith.com.au	LIGHTING ARCHITECT Steensen Varming / Ashleigh Bretherton Phone: 9967 2200 Email: ashleigh.bretherton@steensenvarming.com	MECHANICAL ENGINEER Aecom / Jonathan Onslow Phone: 0424 253 327 Email: jonathan.onslow@aecom.com	STRUCTURAL ENGINEER Aecom / David Clark Phone: 0424 750840 Email: d.clark@cundall.com	ESD CONSULTANT Cundall / David Clark Phone: 0424 750840 Email: d.clark@cundall.com			BALLET REHEARSAL ROOM			
				KITCHEN CONSULTANT Mac Group / Nisha Ghantvel Phone: 02 9550 0566 Email: hq@macgroup.com.au	COST PLANNING CONSULTANT Mac Group / Jason Finn Phone: 0416 277869 Email: alex.buchan@design5.com.au	HERITAGE CONSULTANT Alistair / Richard Meridian Phone: 0408 627908 Email: alistair.morison@arup.com	FIRE CONSULTANT Alistair / Richard Meridian Phone: 0408 627908 Email: alistair.morison@arup.com	ACCESSIBILITY CONSULTANT Alistair / Richard Meridian Phone: 0408 627908 Email: alistair.morison@arup.com							



14/09/2016 FOR COORDINATION

DATE	REV	DESCRIPTION	NOTES:	VERTICAL TRANSPORT CONSULTANT	ACOUSTIC ENGINEER	AV CONSULTANT	SECURITY CONSULTANT	ELECTRICAL ENGINEER	BCA/PCA CONSULTANT	CLIENT:	PROJECT :	ARCHITECT	DRAWING TITLE	DRAWN BY
12.08.2016	A	ISSUED FOR DA	Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	Aecom / Adam Magee Phone: 0416 356 830 Email: Adam.Magee@aecom.com	Arup / Christopher Sims Phone: +61 2 9320 3462 Email: Christopher.Sims@arup.com	Arup / Ben Moore Phone: +61 401 572 480 Email: Ben.moore@arup.com	Arup / Shane Norton Phone: +61 427 190 238 Email: Shane.norton@arup.com	Steensen Varming / Ivan Mira Phone: 9967 2200 Email: Ivan.Mira@steensenvarming.com	Group DLA / Shane Berry Phone: 0448 566806 Email: sberry@groupdla.com.au	SOH Trust Phone: 0498 390 101 (Matthew Lorrimer) Email: mlorrimer@sydneyoperahouse.com	Sydney Opera House - Front of House Renewal BALLET REHEARSAL ROOM PROJECT NO : 15031	TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL: tm@tzig.com.au WEB: www.tzig.com.au	SECTIONS 1:20 A	TS, CP
				FIRE ENGINEERING Warren Smith Partners / David Bolt Phone: 0425 256 922 Email: david@warrensmith.com.au	HYDRAULIC ENGINEER Warren Smith Partners / Campbell Hazellon Phone: +61 2 8234 8655 Email: campbell@warrensmith.com.au	LIGHTING ARCHITECT Steensen Varming / Ashleigh Bretherton Phone: 9967 2200 Email: Ashleigh.Bretherton@steensenvarming.com	MECHANICAL ENGINEER Aecom / Khang lo Phone: 02 8934 0000 Email: Khang_lo@aecom.com	STRUCTURAL ENGINEER AECOM / Jonathan Onslow Phone: 0434 253 327 Email: jonathan.onslow@aecom.com	ESD CONSULTANT Cundall / David Clark Phone: 0424 750840 Email: d.clark@cundall.com				1:40 @ A3 1:20 @ A1	CHECKED RM, TG
				KITCHEN CONSULTANT Mack Group / Nisha Ghanthwal Phone: 02 9550 0566 Email: hg@mackgroup.com.au	COST PLANNING CONSULTANT Altus Group / Jason Finn Phone: 0413 753469 Email: alex.buchan@altusgroup.com	HERITAGE CONSULTANT Design 5 / Alan Croker Phone: 0416 27892 Email: alancroker@design5.com.au	FIRE CONSULTANT Arup / Alistair Morrison Phone: 0405 595935 Email: Alistair.morrison@arup.com	ACCESSIBILITY CONSULTANT iAccess / Richard Seidman Phone: 0408 627908 Email: r.seidman@iaccessconsultants.com					DATE August 2016	REV A
													PHASE DA	DRAWING NO A-2101

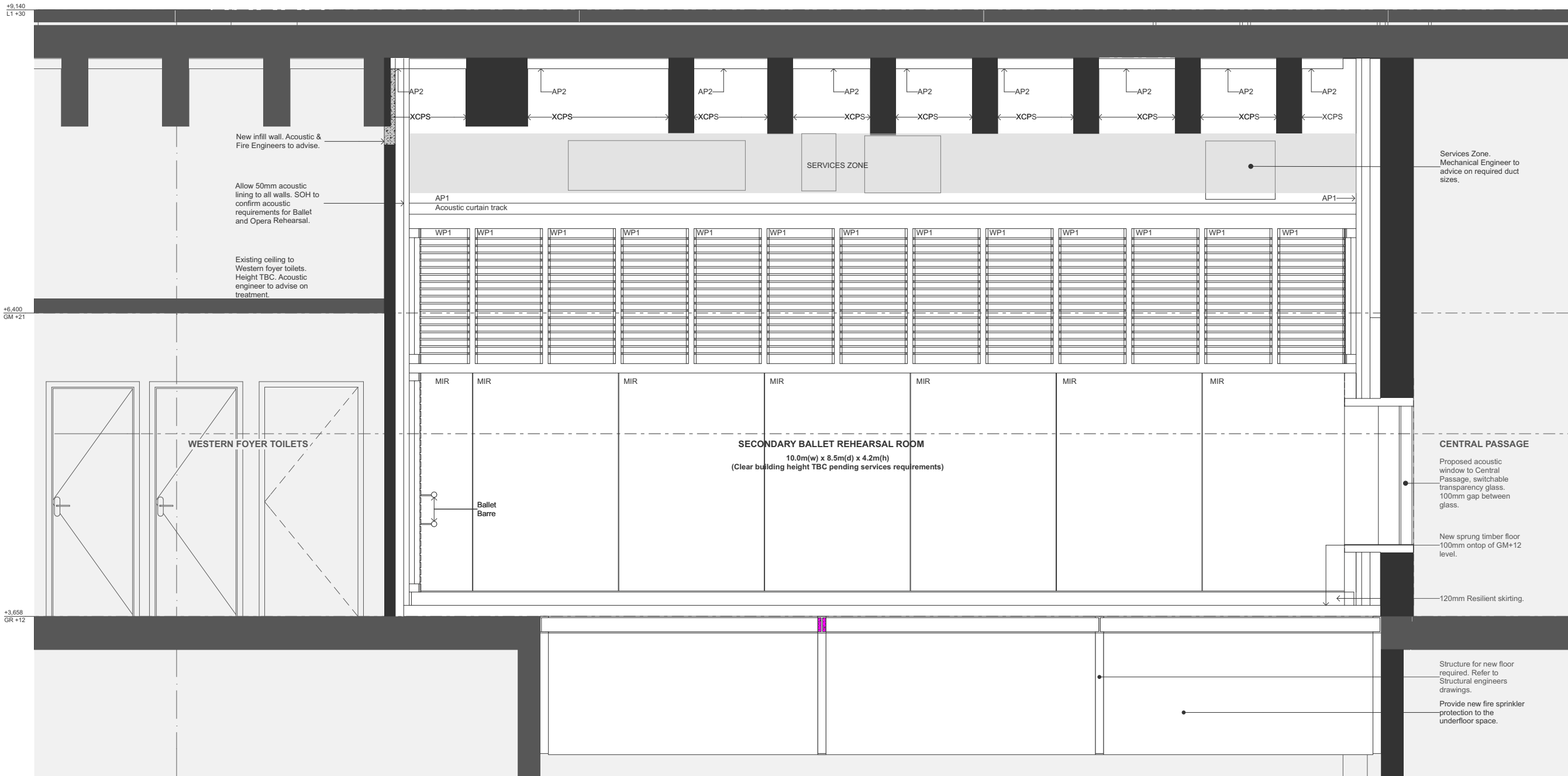


1 BALLET REHEARSAL ROOM SECTION B
1:20

DATE	REV	DESCRIPTION	NOTES:	VERTICAL TRANSPORT CONSULTANT	ACOUSTIC ENGINEER	AV CONSULTANT	SECURITY CONSULTANT	ELECTRICAL ENGINEER	BCA/PCA CONSULTANT	CLIENT:	PROJECT :	ARCHITECT	DRAWING TITLE	DRAWN BY	
12.08.2016	A	ISSUED FOR DA	Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	Aecom / Adam Magee Phone: 0416 356 830 Email: Adam.Magee@aecom.com	Arup / Christopher Sims Phone: +61 2 9320 3462 Email: Christopher.Sims@arup.com	Arup / Ben Moore Phone: +61 401 572 480 Email: Ben.moore@arup.com	Arup / Shane Norton Phone: +61 427 190 238 Email: Shane.norton@arup.com	Steensen Varming / Ivan Mira Phone: 9967 2200 Email: Ivan.Mira@steensenvarming.com	Group DLA / Shane Berry Phone: 0448 566808 Email: sberry@groupdla.com.au	SOH Trust Phone: 0498 390 101 (Matthew Lorrimer) Email: mlorrimer@sydneyoperahouse.com	Sydney Opera House - Front of House Renewal	TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 4600272349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL: tm@tzig.com.au WEB: www.tzig.com.au	SECTIONS 1:20 B	TS, CP	
				FIRE ENGINEERING Warren Smith Partners / David Bolt Phone: 0425 256 922 Email: david@warrensmith.com.au	HYDRAULIC ENGINEER Warren Smith Partners / Campbell Hazleton Phone: +61 2 8234 8655 Email: campbell@warrensmith.com.au	LIGHTING ARCHITECT Steensen Varming / Ashleigh Bretherton Phone: 9967 2200 Email: Ashleigh.Bretherton@steensenvarming.com	MECHANICAL ENGINEER Aecom / Khang Ip Phone: 02 8934 0000 Email: Khang Ip@aecom.com	STRUCTURAL ENGINEER AECOM / Jonathan Onslow Phone: 0434 253 327 Email: jonathan.onslow@aecom.com	ESD CONSULTANT Cundall / David Clark Phone: 0424 750840 Email: d.clark@cundall.com		BALLET REHEARSAL ROOM		1:40 @ A3	1:20 @ A1	RM, TG
				KITCHEN CONSULTANT Mack Group / Nisha Ghanwat Phone: 02 9550 0566 Email: hg@mackgroup.com.au	COST PLANNING CONSULTANT Altus Group / Jason Finn Phone: 0413 753469 Email: alex.buchan@altusgroup.com	HERITAGE CONSULTANT Design 5 / Alan Croker Phone: 0416 227892 Email: alancroker@design5.com.au	FIRE CONSULTANT Arup / Alistair Morrison Phone: 0405 595935 Email: Alistair.morrison@arup.com	ACCESSIBILITY CONSULTANT iAccess / Richard Seidman Phone: 0408 627908 Email: r.seidman@iaccessconsultants.com					PHASE	DRAWING NO	REV
											PROJECT NO : 15031		DA	A-2102	A

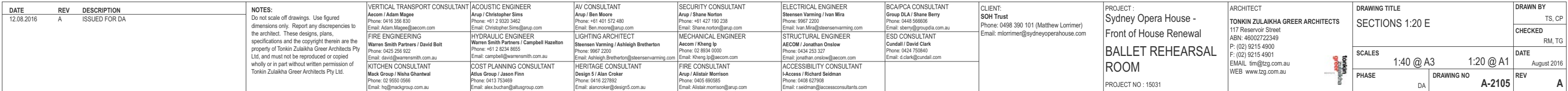


DATE	REV	DESCRIPTION	NOTES:	VERTICAL TRANSPORT CONSULTANT Aecom / Adam Magee Phone: 0416 356 830 Email: Adam.Magee@aecom.com	ACOUSTIC ENGINEER Arup / Christopher Sims Phone: +61 2 920 3462 Email: Christopher.Sims@arup.com	AV CONSULTANT Arup / Ben Moore Phone: +61 401 572 480 Email: Ben.moore@arup.com	SECURITY CONSULTANT Arup / Shane Norton Phone: +61 427 190 238 Email: Shane.norton@arup.com	ELECTRICAL ENGINEER Steenens Varming / Ivan Mira Phone: 0967 2200 Email: Ivan.Mira@steensensvarming.com	BCA/PCA CONSULTANT Group DLA / Shane Berry Phone: 0448 566606 Email: sberry@groupdla.com.au	CLIENT: SOH Sust Phone: 0498 390 101 (Matthew Lorrimer) Email: mlorrimer@sydneyoperahouse.com	PROJECT : Sydney Opera House - Front of House Renewal	ARCHITECT TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL: tim@tzg.com.au WEB: www.tzg.com.au	DRAWING TITLE SECTIONS 1:20 C	DRAWN BY TS, CP		
12.08.2016	A	ISSUED FOR DA	Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd., and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	FIRE ENGINEERING Warren Smith Partners / David Bolt Phone: 0425 256 922 Email: david@warrensmith.com.au	HYDRAULIC ENGINEER AECOM / Jonathan Bretherton / Campbell Hazleton Phone: +61 2 8234 8655 Email: campbell@warrensmith.com.au	LIGHTING ARCHITECT AECOM / Kheing Ip Phone: 0967 2200 Email: Asheleigh.Bretherton@steensensvarming.com	MECHANICAL ENGINEER Steenens Varming / Jonathan Onslow Phone: 02 8934 0000 Email: Kheing.Ip@aecom.com	STRUCTURAL ENGINEER AECOM / Kheing Ip Phone: 0434 253 327 Email: jonathan.onslow@aecom.com	ESD CONSULTANT Cundall / David Clark Phone: 0424 750840 Email: d.clark@cundall.com				CHECKED RM, TG	DATE August 2016		
				KITCHEN CONSULTANT Mack Group / Nisha Ghanthale Phone: 0415 0566 Email: hq@mackgroup.com.au	COST PLANNING CONSULTANT Atlas Group / Jason Finn Phone: 02 9550 0585 Email: alex.buchanan@atlasgroup.com	FIRE CONSULTANT Design 5 / Alan Croker Phone: 0438 627682 Email: r.siedman@accessconsultants.com	ACCESSIBILITY CONSULTANT A-access / Richard Seidman Phone: 0416 527682 Email: r.seidman@accessconsultants.com						SCALES 1:40 @ A3 1:20 @ A1	PHASE DA	DRAWING NO A-2103	REV A



1 BALLET REHEARSAL ROOM SECTION D
1:20

DATE	REV	DESCRIPTION	NOTES: Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	VERTICAL TRANSPORT CONSULTANT	ACOUSTIC ENGINEER	AV CONSULTANT	SECURITY CONSULTANT	ELECTRICAL ENGINEER	BCA/PCA CONSULTANT	CLIENT:	PROJECT :	ARCHITECT	DRAWING TITLE	DRAWN BY	
12.08.2016	A	ISSUED FOR DA		Aecom / Adam Magee Phone: 0416 356 630 Email: Adam.Magee@aecom.com	Arup / Christopher Sims Phone: +61 2 9320 3462 Email: Christopher.Sims@arup.com	Arup / Ben Moore Phone: +61 401 572 480 Email: Ben.moore@arup.com	Arup / Shane Norton Phone: +61 427 190 238 Email: Shane.norton@arup.com	Steensen Varming / Ivan Mira Phone: 9967 2200 Email: Ivan.Mira@steensenvarming.com	Group DLA / Shane Berry Phone: 0448 566806 Email: sberry@groupdla.com.au	SOH Trust Phone: 0498 390 101 (Matthew Lorrimer) Email: mlorrimer@sydneyoperahouse.com	Sydney Opera House - Front of House Renewal	TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL: tm@tzig.com.au WEB: www.tzig.com.au	SECTIONS 1:20 D	TS, CP	
				FIRE ENGINEERING Warren Smith Partners / David Bolt Phone: 0425 256 922 Email: david@warrensmith.com.au	HYDRAULIC ENGINEER Warren Smith Partners / Campbell Hazelton Phone: +61 2 8234 8655 Email: campbell@warrensmith.com.au	LIGHTING ARCHITECT Steensen Varming / Ashleigh Bretherton Phone: 9967 2200 Email: Ashleigh.Bretherton@steensenvarming.com	MECHANICAL ENGINEER Aecom / Kheng Ip Phone: 02 8934 0000 Email: Kheng Ip@aecom.com	STRUCTURAL ENGINEER AECOM / Jonathan Onslow Phone: 0434 253 327 Email: jonathan.onslow@aecom.com	ESD CONSULTANT Cundall / David Clark Phone: 0424 750840 Email: d.clark@cundall.com				CHECKED	RM, TG	
				KITCHEN CONSULTANT Mack Group / Nisha Ghanwatil Phone: 02 9550 0566 Email: hg@mackgroup.com.au	COST PLANNING CONSULTANT Altus Group / Jason Finn Phone: 0413 753469 Email: alex.buchan@altusgroup.com	HERITAGE CONSULTANT Design 5 / Alan Croker Phone: 0416 227892 Email: alancroker@design5.com.au	FIRE CONSULTANT Arup / Alistair Morrison Phone: 0405 595935 Email: alistair.morrison@arup.com	ACCESSIBILITY CONSULTANT Access / Richard Seidman Phone: 0408 627908 Email: r.seidman@accessconsultants.com					1:40 @ A3	1:20 @ A1	August 2016
												PROJECT NO : 15031	<div>tonkin zulaikha greer architects</div>	PHASE	DRAWING NO
													DA	A-2104	A

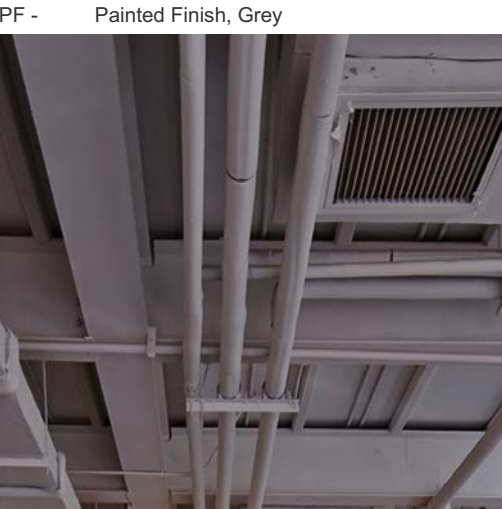


FINISHES

WALLS



CEILING




FLOOR



PRODUCT INFORMATION

CURTAINS



DATE	REV	DESCRIPTION	NOTES:	PROJECT :	ARCHITECT	DRAWING TITLE	DRAWN BY
09.08.2016		A	ISSUED FOR DA	Sydney Opera House - Front of House Renewal	TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL tim@tzg.com.au WEB www.tzg.com.au	FINSHES	TS, CP
			Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	BALLET REHEARSAL ROOM		SCALES	CHECKED
				PROJECT NO : 15031		@ A3	RM, TG
						PHASE DA	DATE August 2016
						DRAWING NO A-9001	REV A



DATE	REV	DESCRIPTION	NOTES:	PROJECT :	ARCHITECT	DRAWING TITLE	DRAWN BY
09.08.2016	A	ISSUED FOR DA	Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.	Sydney Opera House - Front of House Renewal	TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL: tim@tztg.com.au WEB: www.tztg.com.au	PERSPECTIVE	TS, CP
				BALLET REHEARSAL ROOM		SCALES @ A3	CHECKED RM, TG
				PROJECT NO : 15031		PHASE DA	DATE August 2016
						DRAWING NO A-9101	REV A