

WEST ELEVATION

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Australian Unity DEVELOPMENT MANAGER



PROJECT NORTH

SCALE @ A3 DRAWING

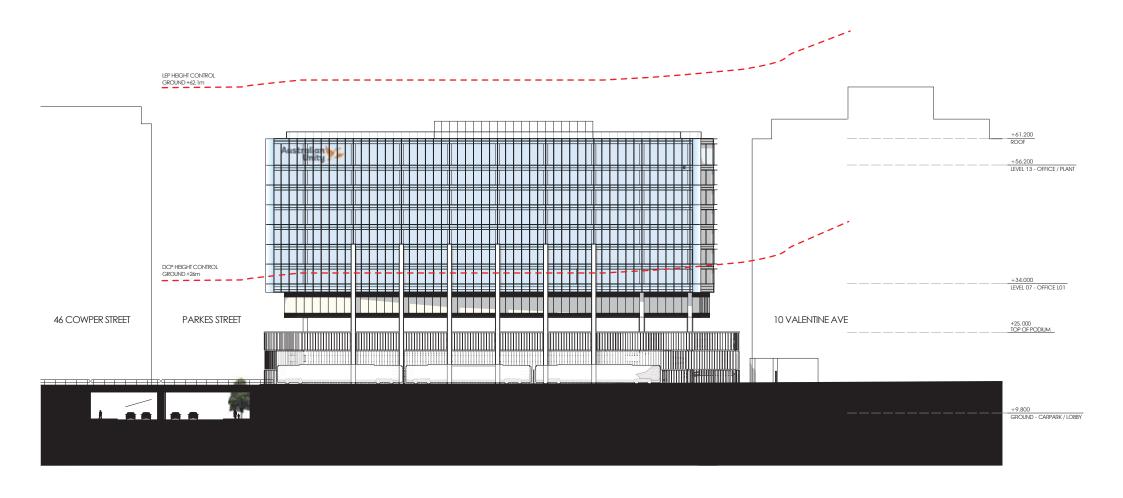
PRINT DATE 6/02/2018 21616

PROJECT NO. DRAWING NO. STATUS

DA 1.1-30

ISSUE

D

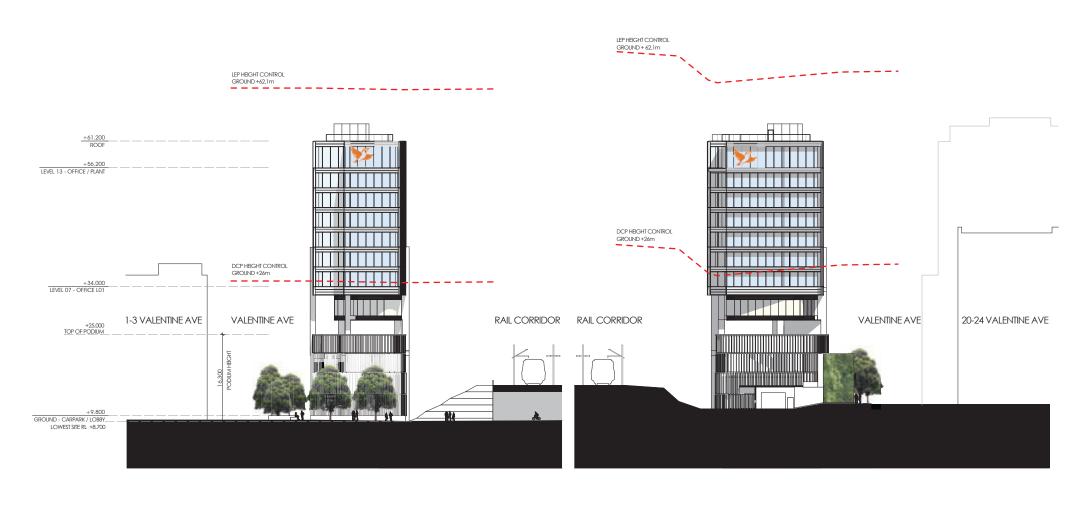


EAST ELEVATION

Australian Unity

DEVELOPMENT MANAGER





01 SOUTH ELEVATION

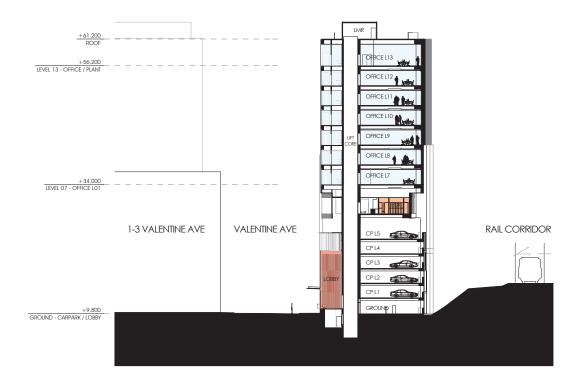
02 NORTH ELEVATION

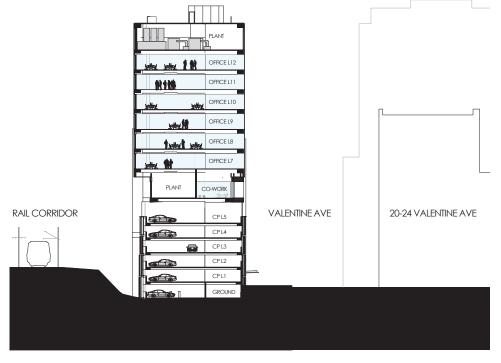
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ISSUE

D





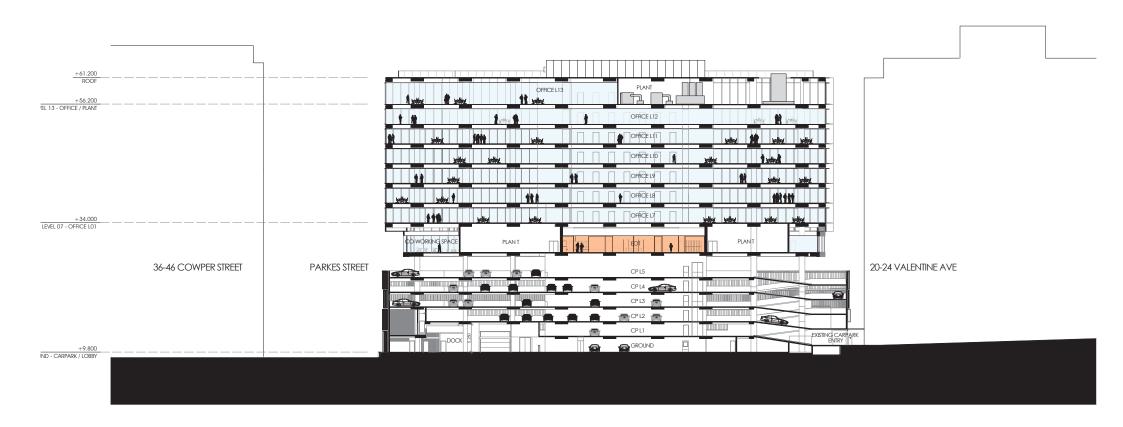
01 SECTION AA 02 SECTION BB



ISSUE

D

STATUS



SECTION CC

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Inconsistencia

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PROJECT NORTH

SCALE @ A3 DRAWING SECTION CC

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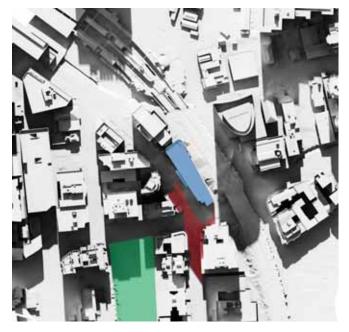
DA 1.1-34

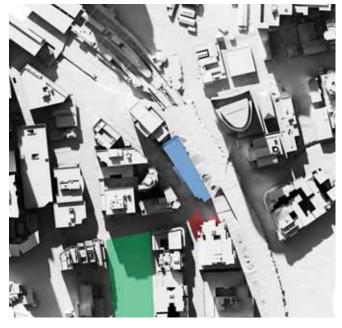
ISSUE

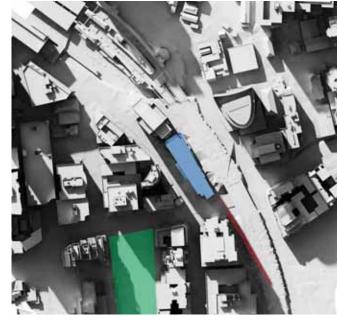
D

STATUS
DEVELOPMENT APPLICATION -1.1

SUN SHADOW ANALYSIS







WINTER 12PM WINTER 1PM WINTER 2PM

JUBILEE PARK

PROPOSED DEVELOPMENT

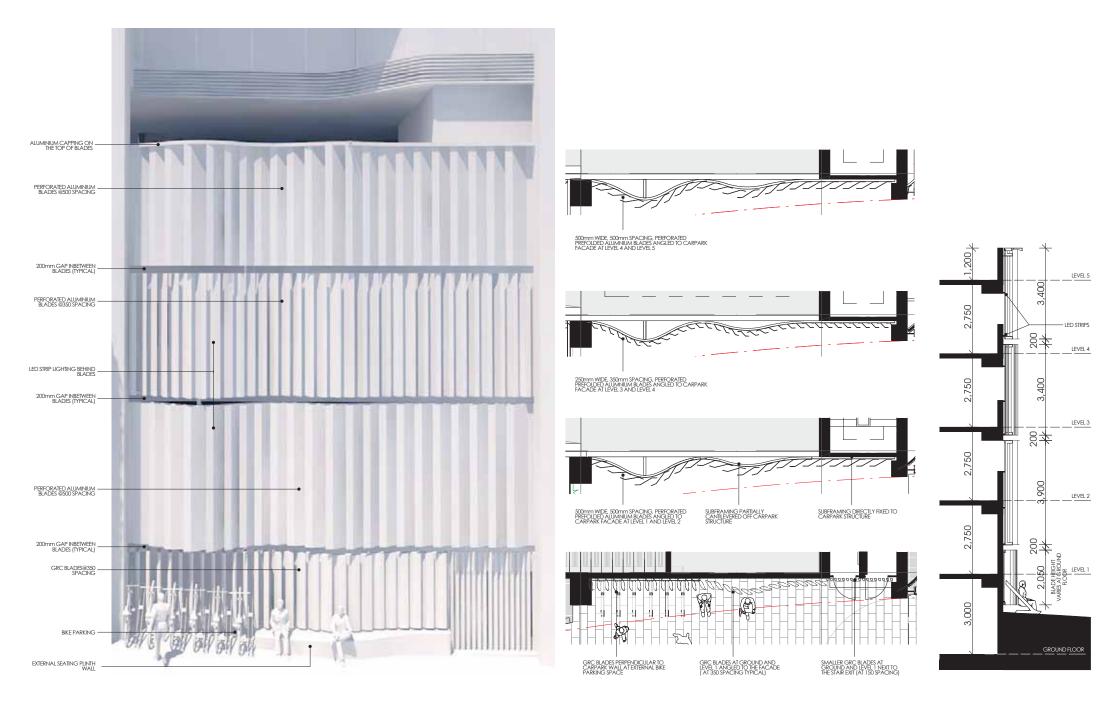
PROPOSED DEVELOPMENT SHADOW

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PROJECT NORTH

SCALE @ A3 DRAWING TYPICAL PODIUM ELEVATION 6/02/2018 DETAIL

PRINT DATE

PROJECT NO. DRAWING NO. 21616 STATUS

ISSUE DA 1.1-36 С



DEVELOPMENT MANAGER Australian Unity

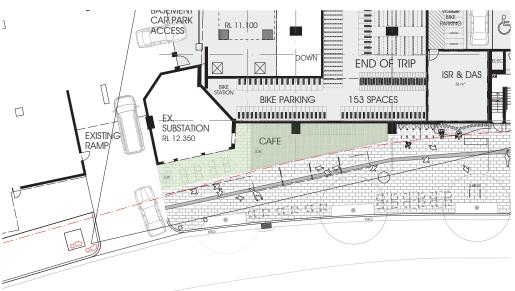


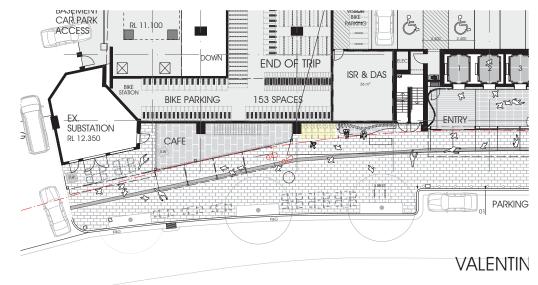
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STATUS







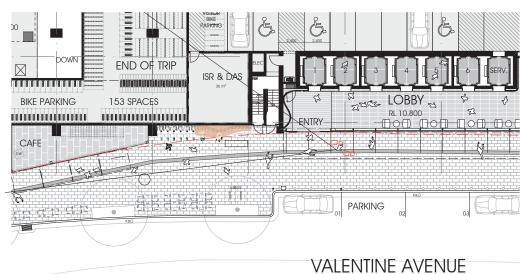


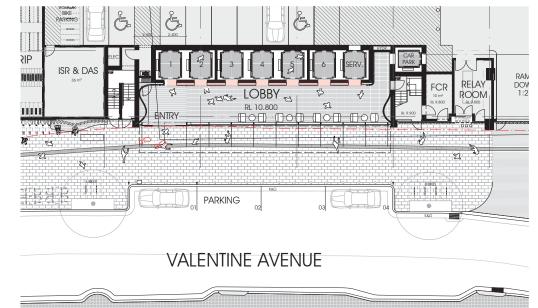
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PROJECTNO. DRAWING NO. DA 1.1-3

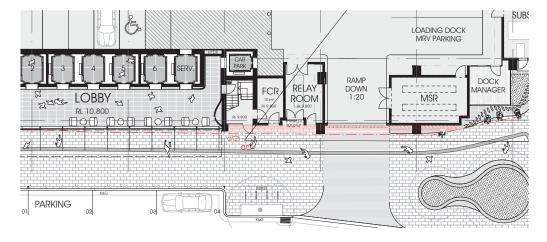
DA 1.1-39 D

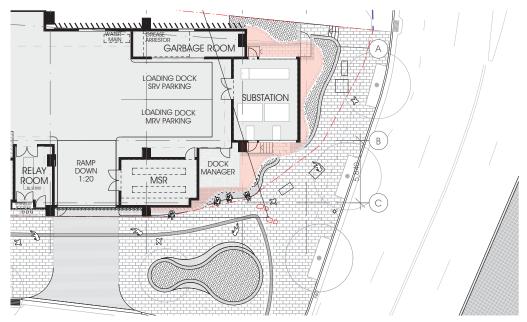
VERTICAL GROBLADES TO THE FACE OF CARPARK, INTEGRATED FIRE BOOSTER ASSEMBLY







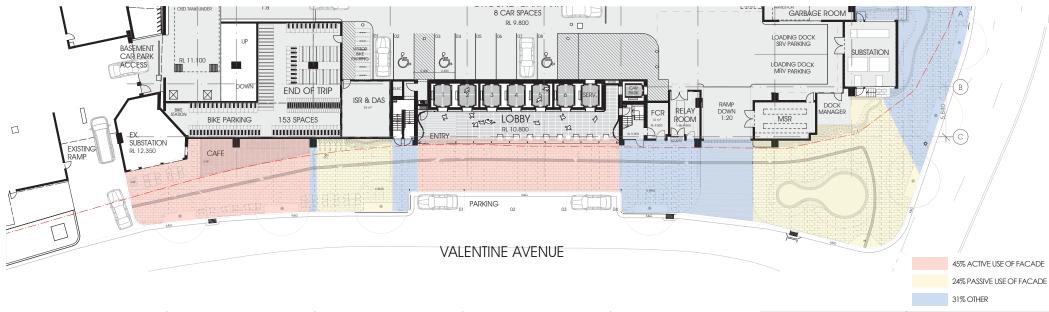




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VALENTINE AVE

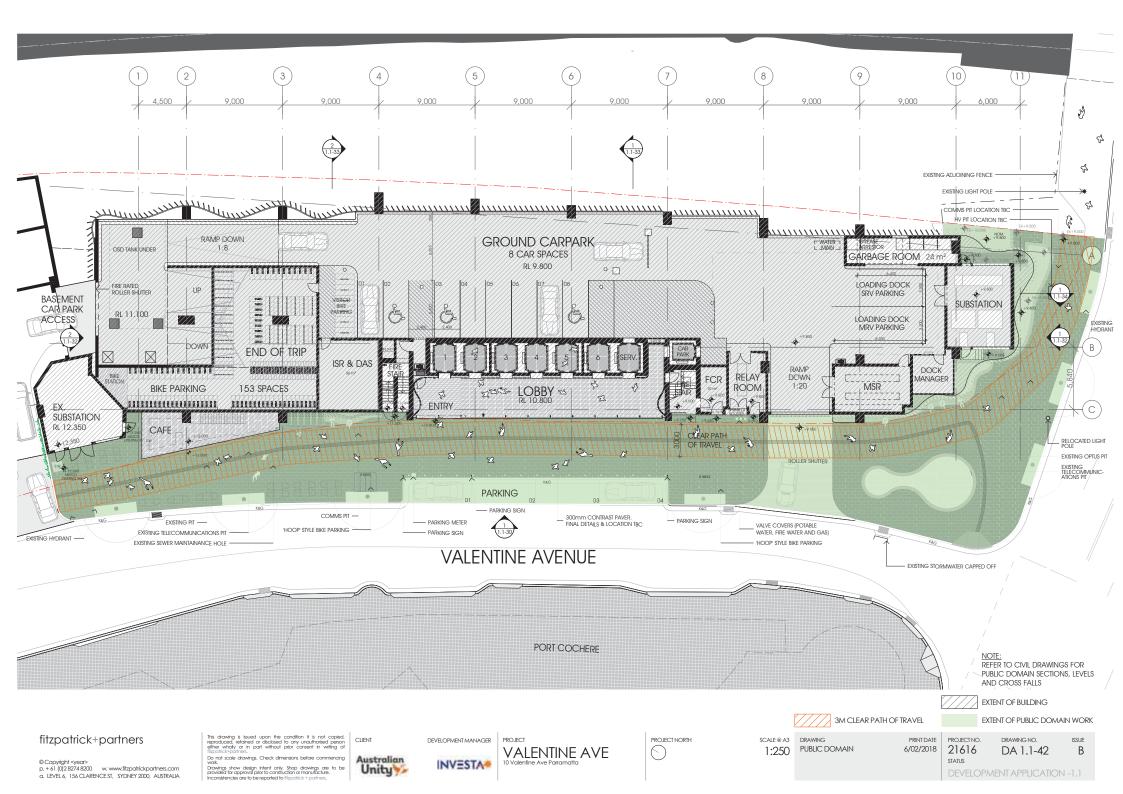
PROJECT NORTH

SCALE @ A3 DRAWING VIGNETTES 5

PRINT DATE PROJECT NO. 6/02/2018 21616

DRAWING NO. STATUS

DA 1.1-41





01 CROSS SECTION

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VALENTINE AVE

PROJECT NORTH

1:50, FACADE SECTION DETAILS 1:500

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Α

CARPARK BELOW

ISSI IF

02 TYPICAL FACADE SECTION @ 1:50

SCALE @ A3 DRAWING

WATERPROOF MEMBRANE

PREFINISHED ALUM. FLASHING

HIGH PERFORMANCE DGU GLASS SELECTION AS PER

FACADE ENG. REPORT

SUSPENDED CEILING AT OFFICE AREA STACK JOINT

GHOST TRANSOM WITH INTEGRATED BLIND HEAD RAIL

HIGH PERFORMANCE DGU GLASS SELECTION AS PER FACADE ENG. REPORT

> SHADOW BOX WITH EXTRUDED ALUM. CLADDING PANEL

SUSPENDED CEILING, MINIMUM 2750mm HIGH

HIGH PERFORMANCE DGU GLASS SELECTION AS PER

FACADE ENG. REPORT

POWDER COATED ALUM

SOFFIT CLADDING

ON ROOF TOPPING 200mm CONCRETE HOB

EXTRUDED ALUM. CLADDING PANEL

HIGH PERFORMANCE DGU GLASS SELECTION AS PER

FACADE ENG. REPORT

EXTRUDED ALUM. CLADDING PANEL

POWDER COATED ALUM SOFFIT CLADDING

Δ

DA 1.1-43

BALLUSTRADE

- ROOF PEBBLES

OFFICE & PLANT ROOM

TYPICAL OFFICE FLOOR

CO-WORKING SPACE

END OF TRIP FACILITIES/

PLANT ROOM

L__________



CAFE - GREEN WALL

325mm WIDE DRIP TRAY

'FYTOWALL' GREEN WALL SYSTEM FIXED TO WALL & STRUCTURE OVER



VISITS ALTERNATING BETWEEN 6 x SINGLE PERSON VISITS

STEEEL STRUCTURE TO ENG. DETAIL

2000mm DEEP AWNING

600 DEEP AWNING

'FYTOWALL' OR SIMILAR GREEN WALL SYSTEM FIXED TO WALL & STRUCTURE OVER

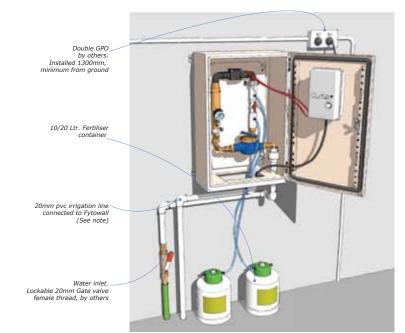
325mm WIDE DRIP TRAY ABOVE AWNING

- FULL DAY, NO MACHINERY, HAND TOOLS ONLY

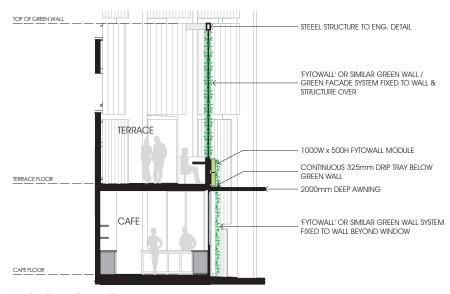
6 x 2 PERSON VISITS - FULL DAY, SCISSOR LIFT WITH EXCLUSION ZONE

MAINTENANCE CAN BE SCHEDULED ON

WEEKENDS TO REDUCE IMPACT ON DRIVEWAY / FOOTPATH



GREEN WALL IRRIGATION CABINET - LOCATED IN BIKE STORE



SECTION - CAFE GREEN WALL

EXAMPLE - FYTOWALL, BLIGH STREET SYDNEY

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VALENTINE AVE

PRO IECT NORTH

SCALE @ A3 DRAWING

1:100 CAFE GREEN WALL DETAILS

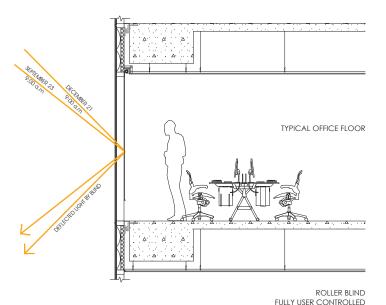
PRINT DATE 6/02/2018

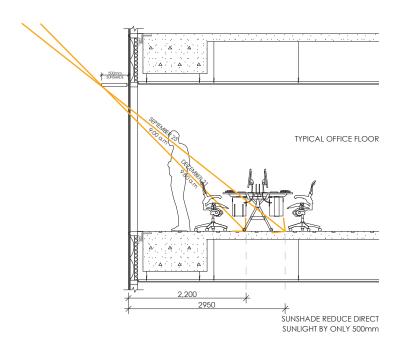
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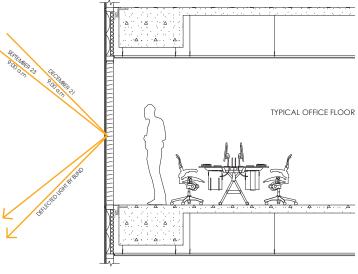
PROJECT NO. DRAWING NO. 21616 DA 1.1-44

DEVELOPMENT MANAGER

TYPICAL OFFICE FLOOR Δ. 2,700 3.450 BASE BUILD







VENETIAN BLIND FULLY USER CONTROLLED

THE SUN ANGLE SHOWN ON THE SECTION IS THE RESULT OF ALTITUDE AND AZIMUTH

COUNCIL REQUEST

COUNCIL QUERIED OCCUPANT COMFORT ON THE EAST NORTH-EAST ELEVATION, IN RELATION TO SOLAR EXPOSURE FOR OCCUPANTS CLOSE TO THE GLASS WALL. COUNCIL MADE SPECIFIC COMMENTARY THAT EXTERNAL SUN-SHADES SHOULD BE USED TO AMELIORATE COMFORT CONDITIONS FOR THESE OCCUPANTS. AS SUCH, THIS ELEVATION WAS MODELLED ACROSS THE WARMER MONTHS AS THE TIME WHEN OCCUPANT COMFORT FROM SOLAR INGRESS COULD BE MOST AFFECTED. MODELLING WAS THEREFORE UNDERTAKEN FROM THE SPRING EQUINOX (SEPT 23) THROUGH MID-SUMMER TO THE AUTUMN EQUINOX (MARCH

SOLAR EXPOSURE

DURING THIS 6 MONTH WINDOW FROM EQUINOX TO EQUINOX. THE SUN PENETRATES DEEPEST INTO THE FLOOR PLATE ON 23 SEPT AND 20 MARCH SPECIFICALLY AT SUNRISE WHEN THE SUN IS LOWEST IN THE SKY, AND DECREASING THROUGH THE MORNING HOWEVER, SEPTEMBER AND MARCH ARE SIGNIFICANTLY COOLER THAN THE MID-SUMMER MONTHS, WHEN TEMPERATURES ABOVE 30°C ARE COMMONLY EXPERIENCED.

THIS ELEVATION EXPERIENCES ONLY MORNING SUN, WITH NO DIRECT SOLAR EXPOSURE AFTER MIDDAY, 12PM, EMPIRICAL DATA SHOWS THAT MORNING TEMPERATURES ARE SIGNIFICANTLY LOWER THAN THE PEAK TEMPERATURES EXPERIENCED AT 3PM, BY WHICH TIME THIS ELEVATION IS IN COMPLETE SHADOW.

HOWEVER THE HOTTEST MONTHS OF DECEMBER TO FEBRUARY ARE ALSO WHEN THE SUN IS HIGHEST IN THE SKY, AND THEREFORE THE SOLAR PENETRATION IS LEAST DURING THESE MONTHS.

MODELLING

THROUGH MODELLING OF THE WITH/WITHOUT SCENARIO OF EXTERNAL SUNSHADES, IT WAS POSSIBLE TO DETERMINE THE DIFFERENCE BETWEEN THE 2 PROPOSED CONDITIONS. THE MODELLING OF INTERNAL BLINDS ON OCCUPANT COMFORT WAS

BETWEEN THE OCCUPIED HOURS OF 9AM-12PM, MODELLING SHOWED THAT THE GREATEST CHANGE FROM AN EXTERNAL SHADE WAS ONLY 500MM OF DIRECT SOLAR INGRESS. THIS IS MINIMAL ACROSS THE WHOLE OF THE FLOOR PLATE.

DIRECT SUNLIGHT PENETRATED THE FLOOR THE GREATEST IN SEPTEMBER AND MARCH, TO A DEPTH OF ~3.5M AS THE SUN IS LOWER IN THE SKY AT THESE TIMES. THESE MONTHS ALSO HAVE LOWER HEAT LOADS. THE INCLUSION OF EXTERNAL SUNSHADES AT THESE TIMES, PRODUCED A DIFFERENCE OF ONLY 500M INTERNALLY. THIS IS AN INSIGNIFICANT IMPROVEMENT OVER THE WHOLE FLOOR PLATE, BY FAR, THE GREATEST IMPROVEMENT AT THESE TIMES AND ALL OTHERS THROUGHOUT THE YEAR, FOR SOLAR INGRESS, GLARE AND OCCUPANT COMFORT, IS THE USE OF INTERNAL BLINDS, WHICH CAN BE EMPLOYED TO REDUCE SOLAR INGRESS TO ZERO. EXTERNAL SUNSHADES CANNOT ACHIEVE THIS LEVEL OF EFFICIENCY AND HAVE LITTLE OR NO IMPACT ON GLARE.

CONCLUSION

THE CONCLUSION ESTABLISHED BY THE MODELLING WAS THAT EXTERNAL SUNSHADES DELIVER VERY LITTLE BENEFIT TO THE SOLAR INGRESS ON THE FLOOR PLATE, AND CONSIDERING THE EASTERN ASPECT, THE HEAT LOADS FOR THE MORNING SUN IS COMPARATIVELY LOW. FOR ALL ELEMENTS, SOLAR INGRESS, GLARE AND OCCUPANT COMFORT, INTERNAL BLINDS PROVIDED THE BEST ATTENUATION METHOD, SEPARATE ANALYSIS OF THE IMPACT OF SOLAR HEAT LOADS ON THE MECHANICAL SYSTEM HAS PROVED THAT THE ENERGY IMPACT OF EXTERNAL SHADING IS NEGLIGIBLE AND THE HIGHEST IMPACT WOULD BE RECEIVED BY A HIGH PERFORMING DGU AS PER PRISM FACADES' REPORT.

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PRO IFCT NORTH

SCALE@ A3 DRAWING TYPICAL OFFICE FLOOR -1:50 OCCUPANT COMFORT

PRINT DATE 6/02/2018

PRO IECT NO DRAWING NO 21616

1221 IF В DA 1.1-45

21 ITAT2 DIAGRAMS

10 Valentine Ave, Parramatta

Date: 18.12.17

Scheme 1.1 Schedule of Areas

evel	Use	RL Height to Next	Floor to Floor	Proposed GBA	Proposed GFA	Proposed NLA	GBA/NLA	GFA/NLA	Proposed Car Spaces	Existing Car Spaces
		70.800								
ift Motor Room Ro	of	59.40	3.500							
evel 13	Plant	54.40	5.000	1322m²	0m²	0m²	N/A	N/A		
evel 12	Commercial Office L06	50.70	3.700	1511m²	1341m²	1262m²	84%	94%		
evel 11	Commercial Office L05	47.00	3.700	1511m²	1341m²	1262m²	84%	94%		
evel 10	Commercial Office L04	43.30	3.700	1511m²	1341m²	1262m²	84%	94%		
evel 9	Commercial Office L03	39.60	3.700	1511m²	1341m²	1262m²	84%	94%		
evel 8	Commercial Office L02	35.90	3.700	1511m²	1341m²	1262m²	84%	94%		
evel 7	Commercial Office L01	32.20	3.700	1511m²	1328m²	1250m²	83%	94%		
evel 6	Plant, EOT and co-working space	27.50	4.700	1052m²	663m²	451 m ²	43%	68%		
evel 5	Car Parking	23.80	3.700	1401m²					29 cars	46 cars
evel 4	Car Parking	21.05	2.750	1401m²					30 cars	48 cars
evel 3	Car Parking	18.30	2.750	1401m²					30 cars	48 cars
evel 2	Car Parking and café terrace (95sqm)	15.55	2.750	1405m²					26 cars	48 cars
evel 1	Car Parking and café	12.80	2.750	1242m²					12 cars	48 cars
	Cafe on street (independent of parking)	12.00	4.500		38m²	38m²				
	Entry Lobby (independent of parking)	10.50	14.000		115m²					
Ground	Car Parking, loading and lobby	9.800	3.000	1496m²					8 cars	47 cars
service basement		6.500	3.300							
lowest street level surrounding the site		8.700	,							
				19786m²	8849m²	8049m²	41%	91%	135 cars	285 cars
								total incl 10 val	154 cars	314 cars
			site area		3935m²			total GFA sqm /car	172m²/car	
			Max FSR		6.9:1			small cars	54 cars	

site area	3935m²
Max FSR	6.9:1
Max GFA	27152m²
existing tower GFA	17600m²
new commercial building GFA	8849m²
new GFA across the whole site	26449m²
new FSR across the whole site	6.72:1

Area under / over allowable		703m²
Allowable cars		264 cars
Car spaces less than current		160

total incl 10 val	154 cars		
total GFA sqm /car	172m²/car		
small cars	54 cars		
Motorcycle parking	31 mb		
Accessible parking	3 spaces		
Bike parking			
EOT on ground	140		
visitors on street	6		
visitors in dock	12		
total proposed	158		
existing 10 valentine	10		

All areas are approximate only and should be read in conjunction with drawing issue

All areas are subject to detailed design development

GFA as stipulated in PLEP means gross floor space area means the sum of the floor area of each storey of a building measured from the internal face of external walls, or from the internal face of walls separating the building from any other building, measured at a height of 1.4 metres above the floor, and includes:

(a) the area of a mezzanine within the storey, and

(b) habitable rooms in a basement, and

(c) any shop, auditorium, cinema, and the like, in a basement or attic,

but excludes:

(d) any area for common vertical circulation, such as lifts and stairs, and

(e) any basement:

i) storage, and

(ii) vehicular access, loading areas, garbage and services, and

f) plant rooms, lift towers and other areas used exclusively for mechanical services or ducting, and

(g) car parking to meet any requirements of the consent authority (including access to that car parking), and

(h) any space used for the loading or unloading of goods (including access to it), and

terraces and balconies with outer walls less than 1.4 metres high, and

voids above a floor at the level of a storey or storey above.

et lettable area means the sum of its whole floor lettable area. This is measured by the internal finished surfaces of permanent internal walls

and internal finished surfaces of dominant portions of the permanent outer building walls. This includes:

a) window mulions and window frames and

) structural columns and

c) engaged perimeter columns or piers and

d) fire hose reels attached to walls and

) additional facilities specially constructed for or used by individual tenants that are not covered in each section

but excludes: f) any area for common vertical circulation, such as lifts, stairs, escalators and

g) plant/motor rooms and

accessways and

cupboards - telecommunications cupboards and fire hose reel cupboards and

toilets, tea rooms and other service areas

recessed doorways

lift lobbies, fovers and any areas dedicated to public thoroughfare

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SCALE @ A3 DRAWING AREA SCHEDULE

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DRAWING NO. DA 1.1-50

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DEVELOPMENT MANAGER

VALENTINE AVE
10 Valentine Ave Parramatta

PROJECT NORTH

SCALE @ A3 DRAWING PERSPECTIVE - LOBBY VIEW FROM VALENTINE AVE

PRINT DATE PROJECT NO. 21616 STATUS

DRAWING NO. DA 1.1-61

DEVELOPMENT APPLICATION -1.1

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PROJECT NORTH

SCALE @ A3 DRAWING PERSPECTIVE - CORNER OF PARKES ST + STATION ST PRINT DATE 6/02/2018

PROJECTNO. 21616 STATUS

DRAWING NO. DA 1.1-62



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PROJECT NORTH

SCALE @ A3 DRAWING PERSPECTIVE - CORNER OF STATION ST + SMITH ST

PRINT DATE PROJECT NO. 21616 STATUS

DRAWING NO. DA 1.1-63

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PROJECT NORTH

SCALE @ A3 DRAWING PERSPECTIVE - CAFE VALENTINE AVE

PRINT DATE | PROJECT NO. | 21616 STATUS

DRAWING NO. DA 1.1-64

DEVELOPMENT APPLICATION -1.1