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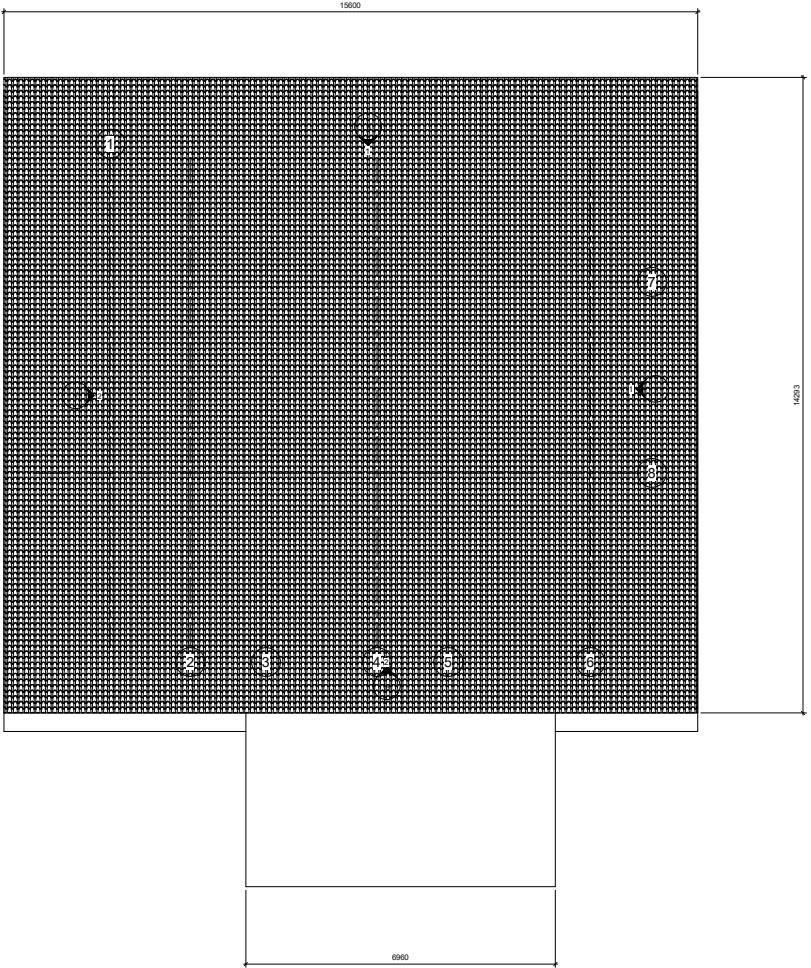
**UNSW**  
AUSTRALIA

**3D TO BIM**



TITLE	COVER PAGE
PROJECT	CODE 2270
DRAWN BY	SAILOR PERRETT
SCALE	1 : 4

18/11/2022 11:19:45 PM



① Site Plan  
1 : 50

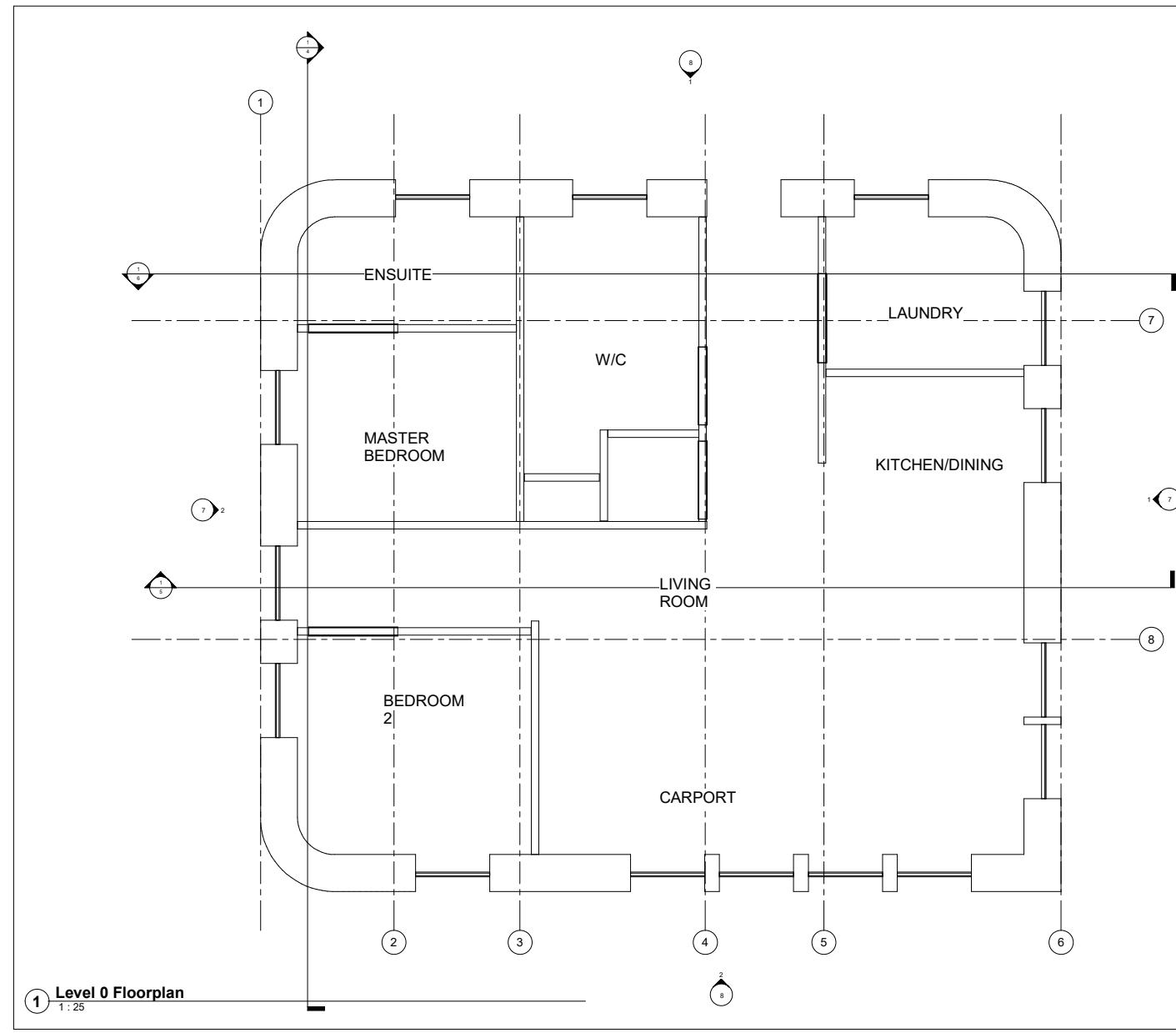


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TITLE	SITE PLAN
PROJECT	CODE 2270
DRAWN BY	SAILOR PERRETT
SCALE	1 : 50

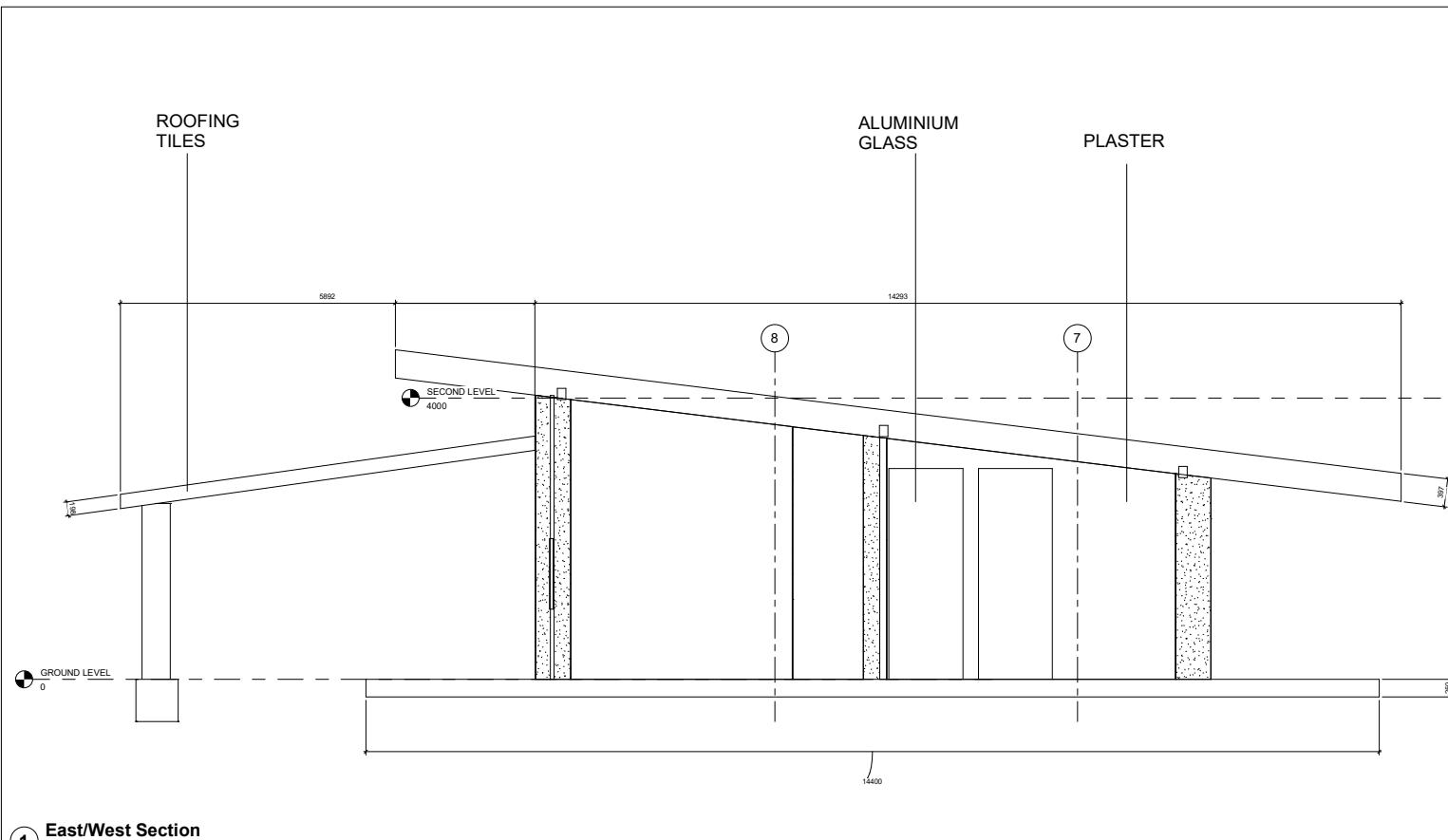


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TITLE	FLOORPLAN
PROJECT	CODE 2270
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SCALE	1 : 4

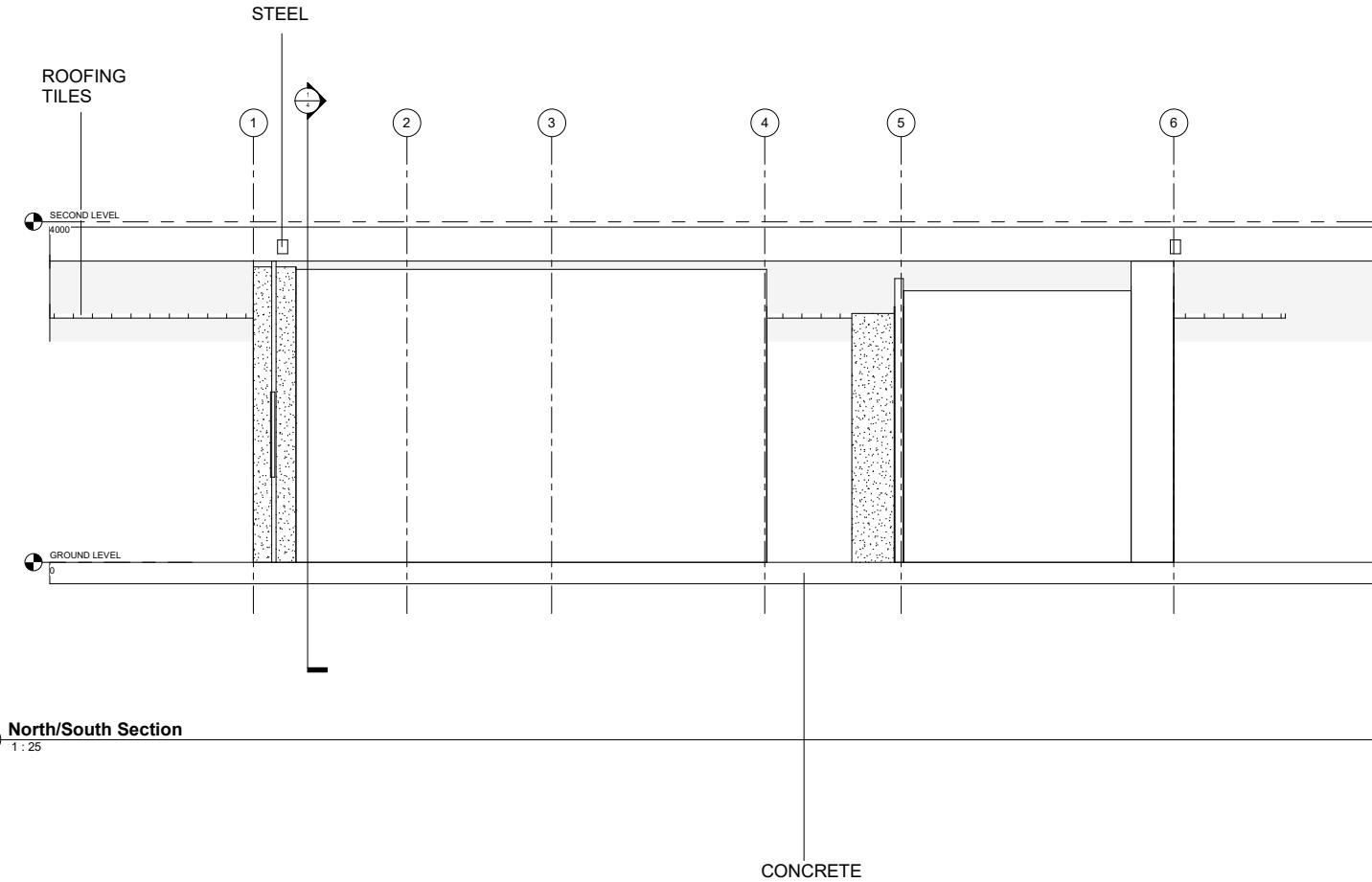


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TITLE	EAST/WEST SECTION
PROJECT	CODE 2270
DRAWN BY	SAILOR PERRETT
SCALE	1 : 30



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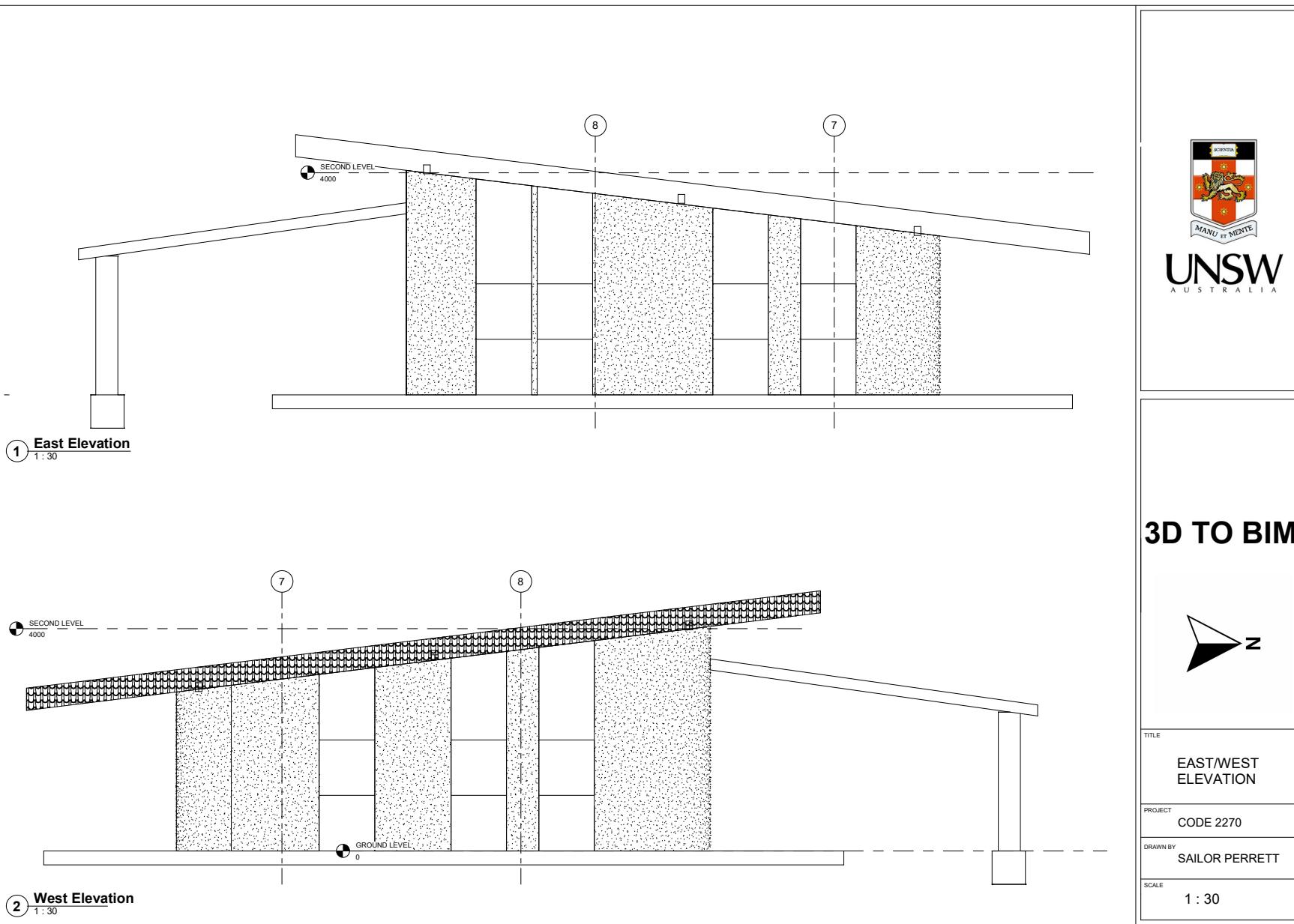


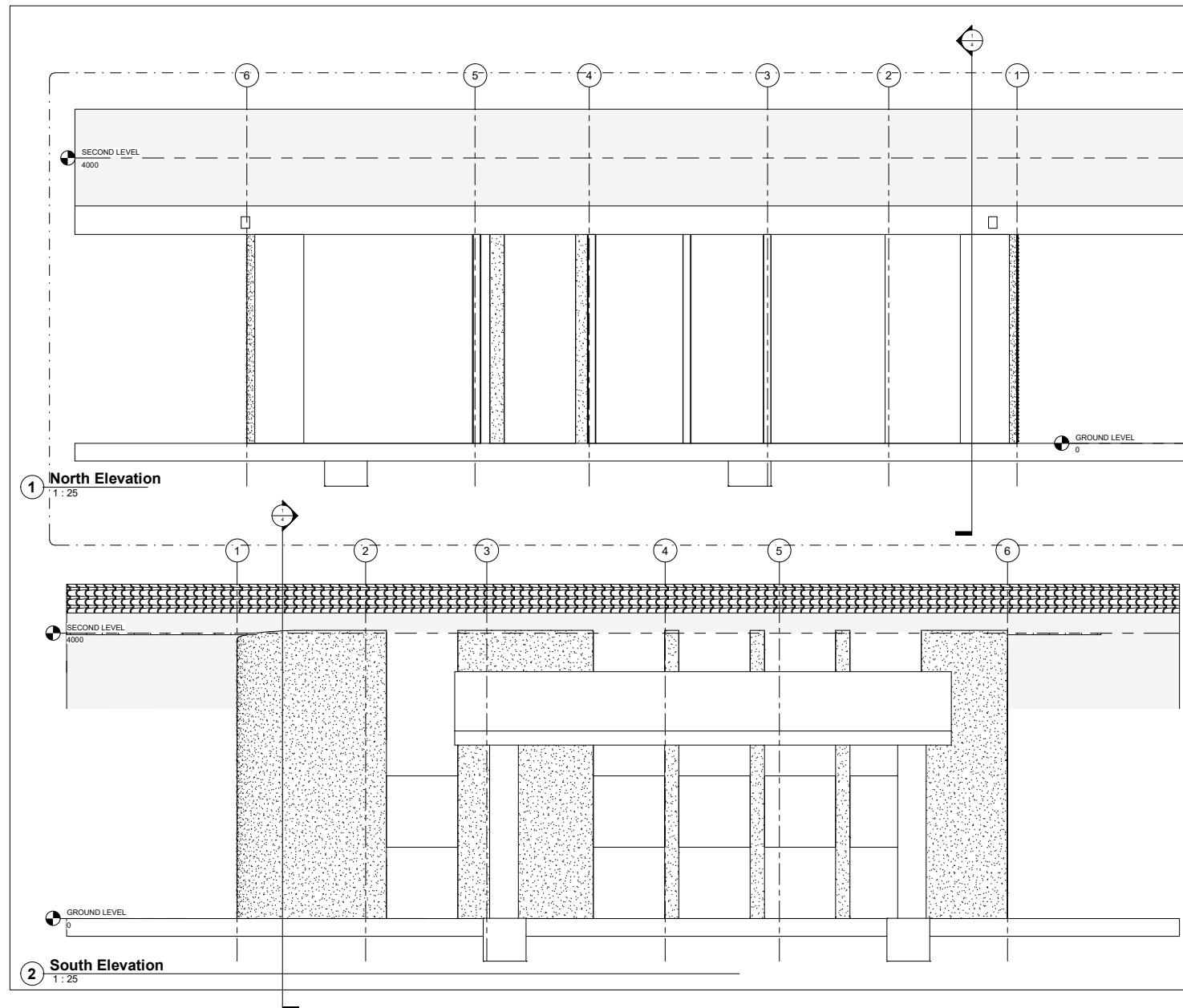
TITLE  
**NORTH/SOUTH  
SECTIONS**

PROJECT  
**CODE 2270**

DRAWN BY  
**SAILOR PERRETT**

SCALE  
**1 : 25**

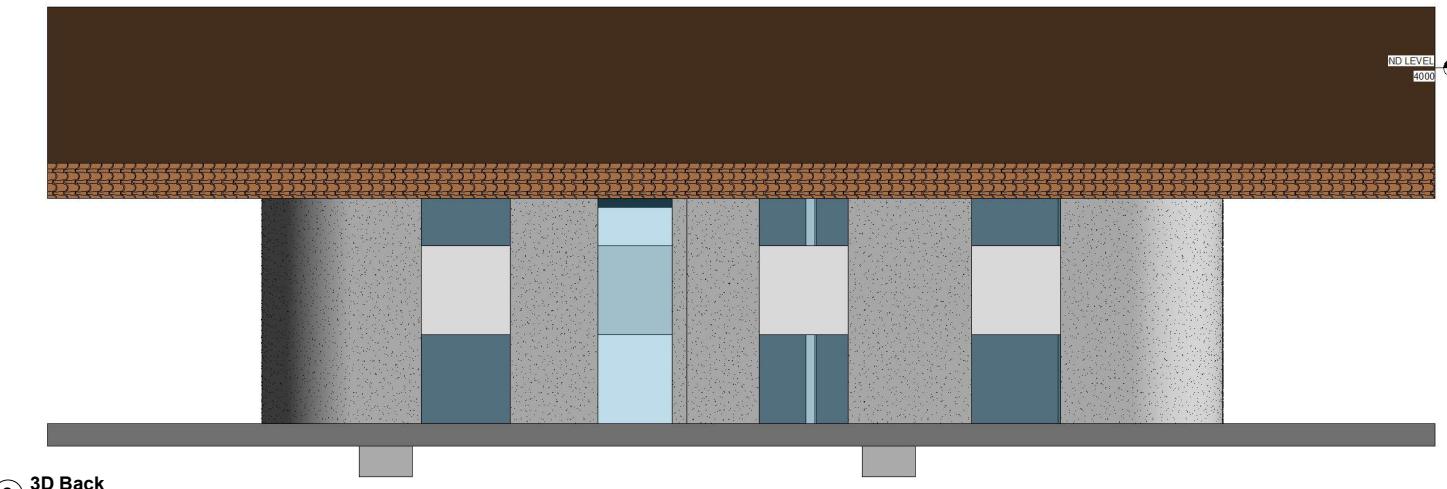
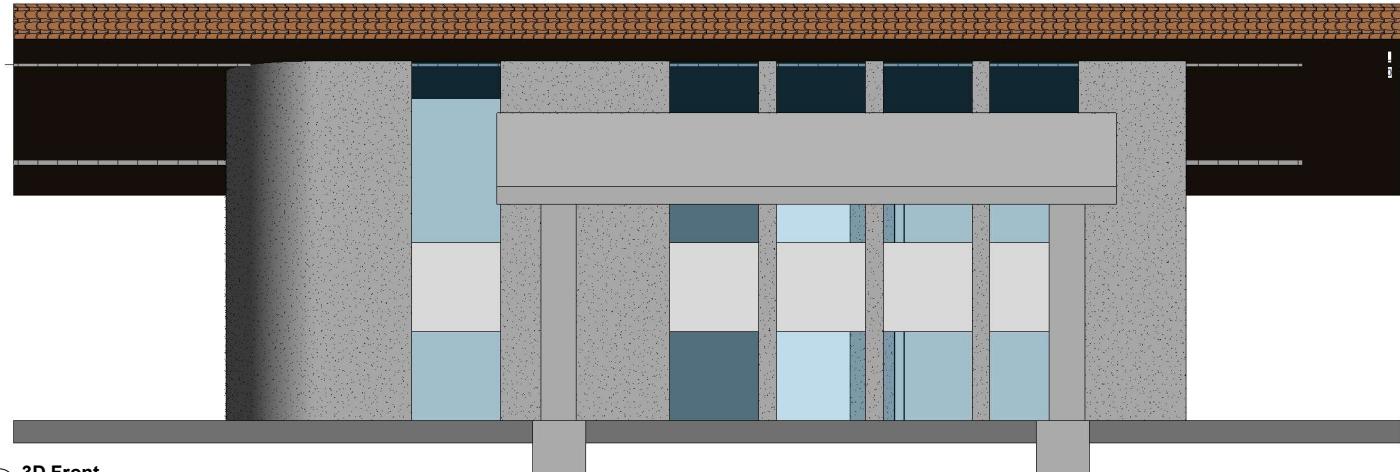




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TITLE	NORTH/SOUTH ELEVATIONS
PROJECT	CODE 2270
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SCALE	1 : 25

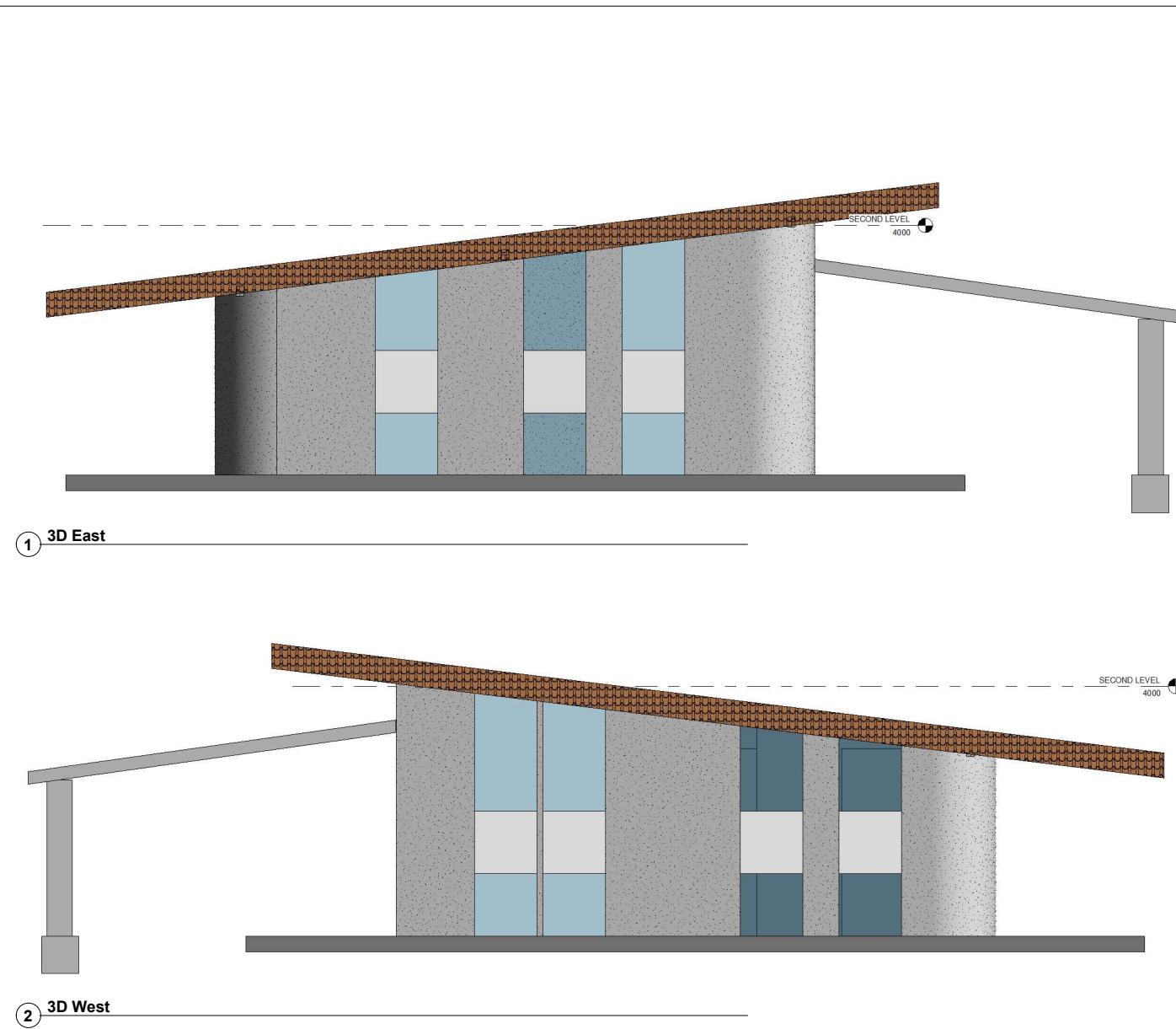


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## 3D TO BIM



TITLE	FRONT/BACK VIEW
PROJECT	CODE 2270
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SCALE	1 : 25



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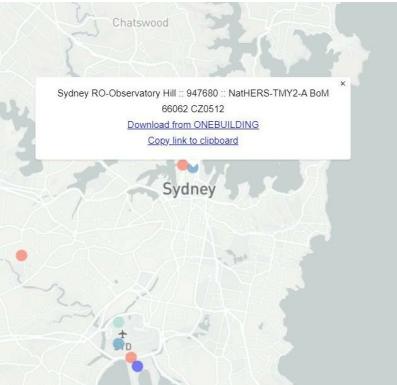
**3D TO BIM**



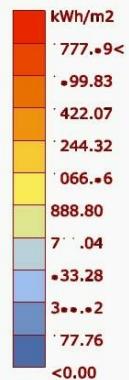
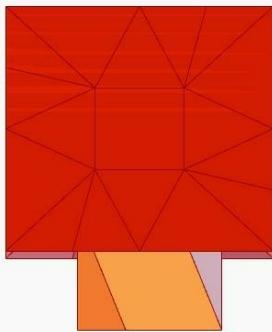
TITLE	EAST/WEST VIEWS
PROJECT	CODE 2270
DRAWN BY	SAILOR PERRETT
SCALE	1 : 30

18/11/2022 11:56 PM

## LADYBUG ENVIRONMENTAL ANALYSIS



Location: Based around Sydney's Haymarket, 2000

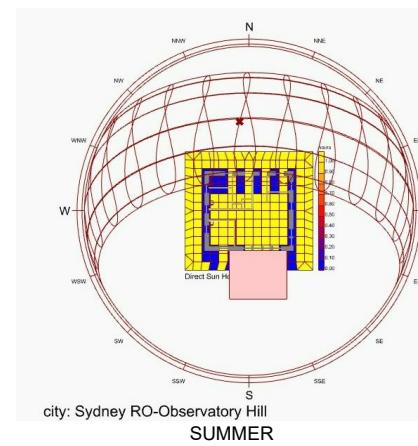
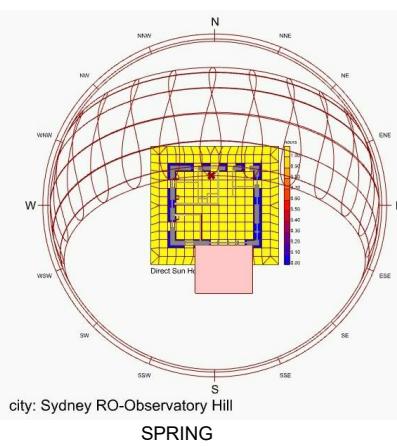
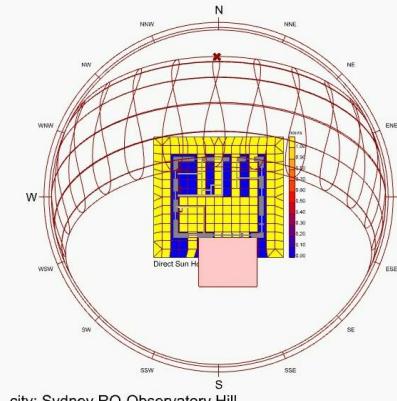
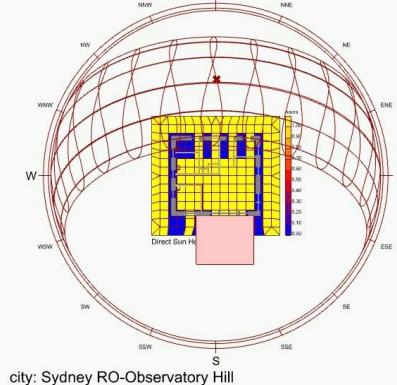


Radiation Analysis  
Sydney\_RO\_Observatory\_Hill\_NSW\_AUS\_ 994  
JAN :00 - 3 DEC 24:00

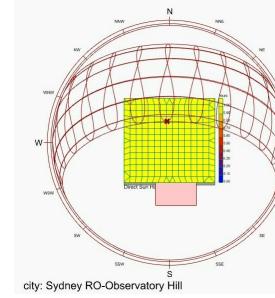
RADIATION ANALYSIS:  
KWH/M2 of solar energy radiating off building in December  
- Sky density

- High demand for solar panels needed on the roof surface

## SUN PATH THROUGHOUT SEASONS



SUN PATH ANALYSIS  
- Direct sun hours hitting  
floorplate surface throughout  
the year each at 12 o'clock



WITH ROOF IN  
SUMMER



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TITLE	ENVIRONMENTAL ANALYSIS
PROJECT	CODE 2270
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SCALE	

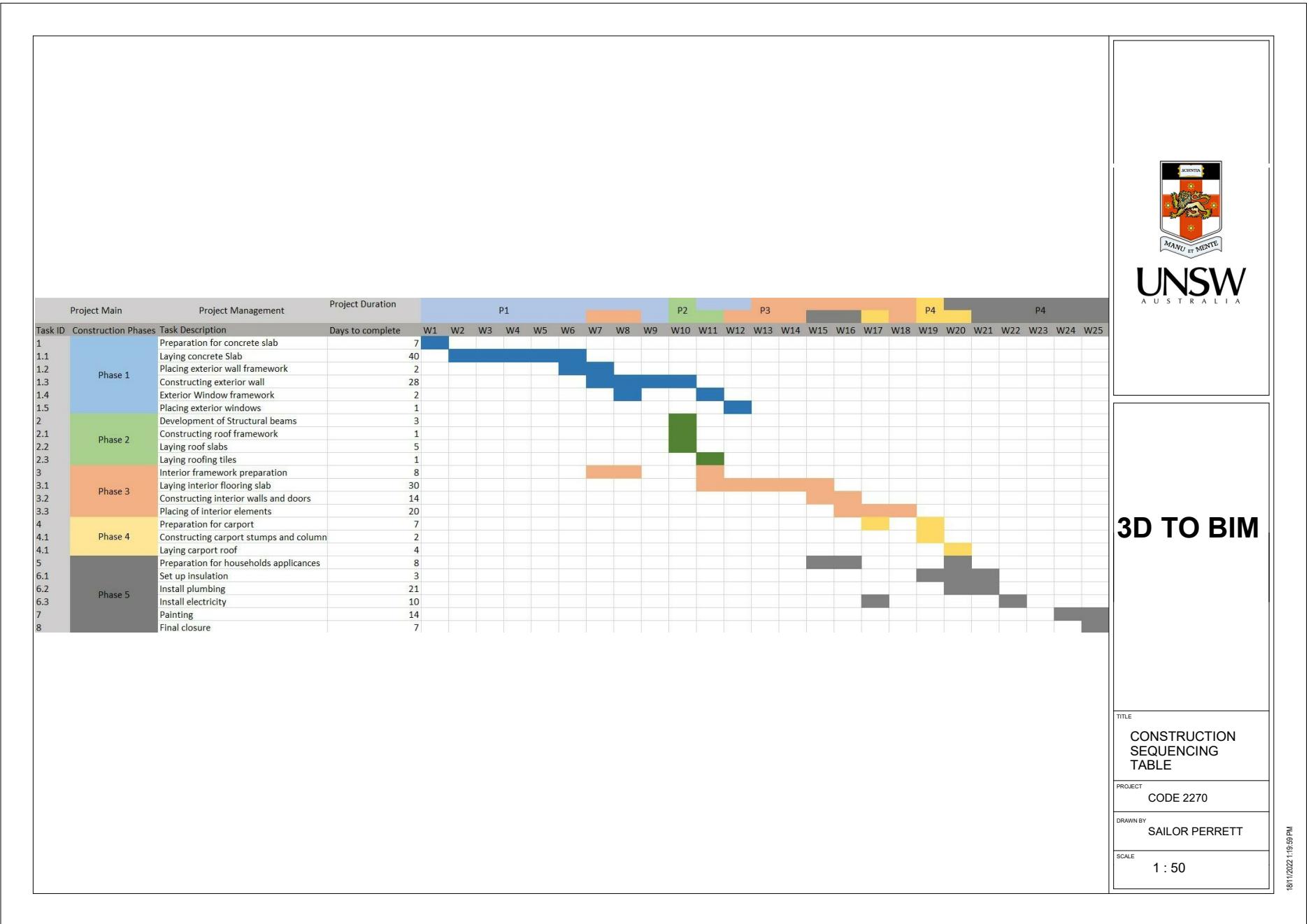
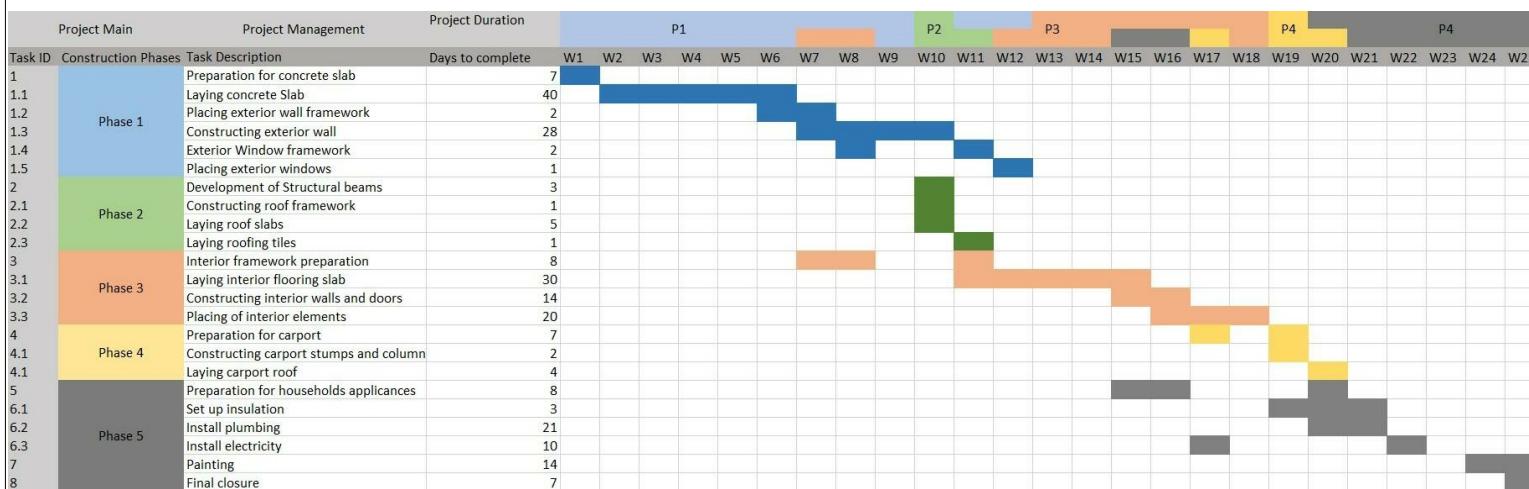


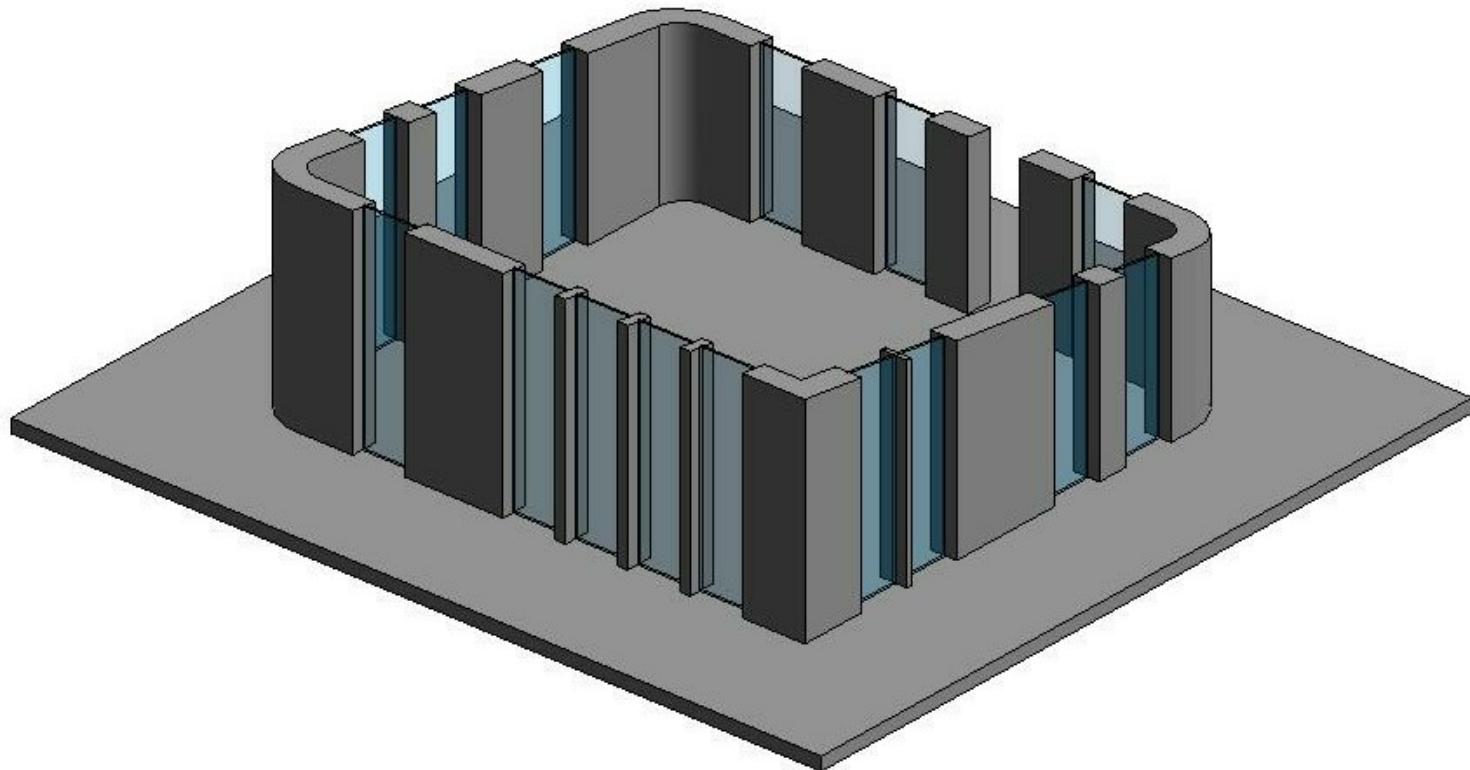
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TITLE	CONSTRUCTION SEQUENCING TABLE
PROJECT	CODE 2270
DRAWN BY	SAILOR PERRETT
SCALE	1 : 50

18/11/2022 11:55 PM





PHASE 1 - PREPARATION

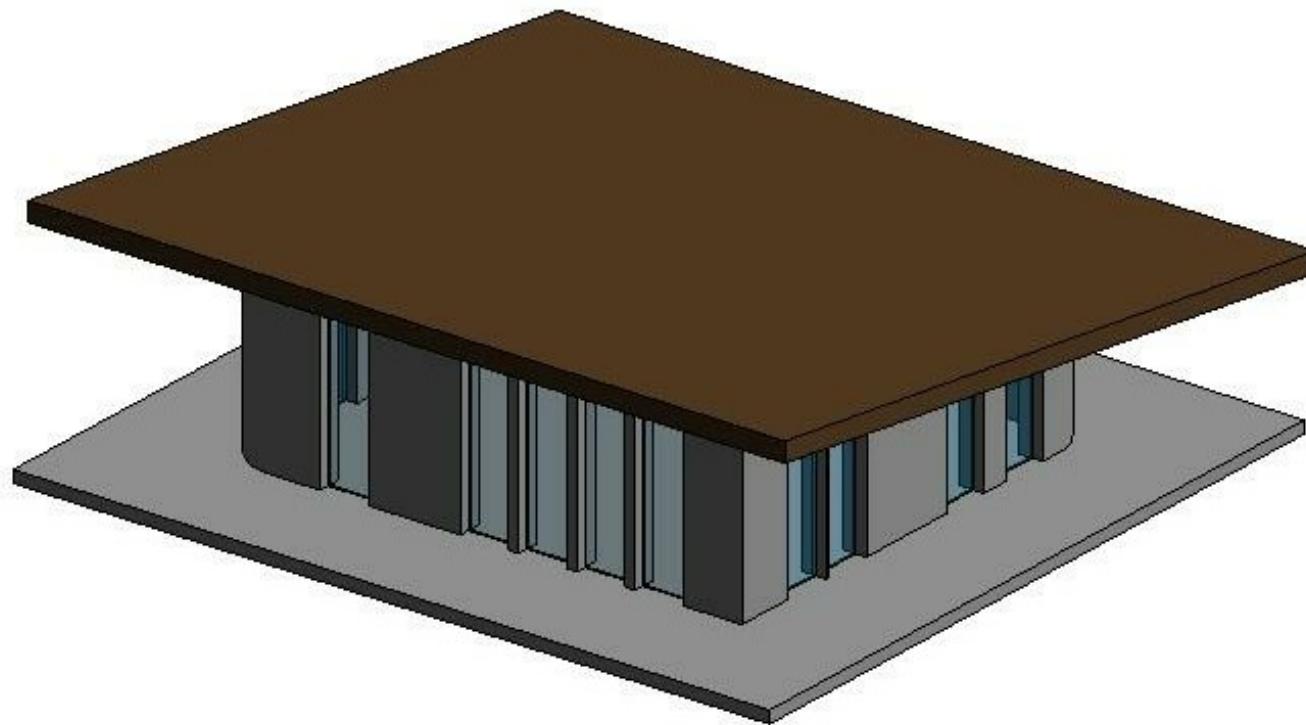
Floorplate slab	Concrete	Default Floor: id 538	561.6
Exterior walls	Brick	Default wall: id 25	559.87
Exterior window	Aluminium glass	Window frame: id 51026	500



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## 3D TO BIM

TITLE	PHASE 1
PROJECT	CODE 2270
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PHASE 2 - STRUCTURAL

Structural beams	Steel	Concrete masonry units: id 415	167.04
Roof tiling	Tiles	Roofing tile : id 758	572.8

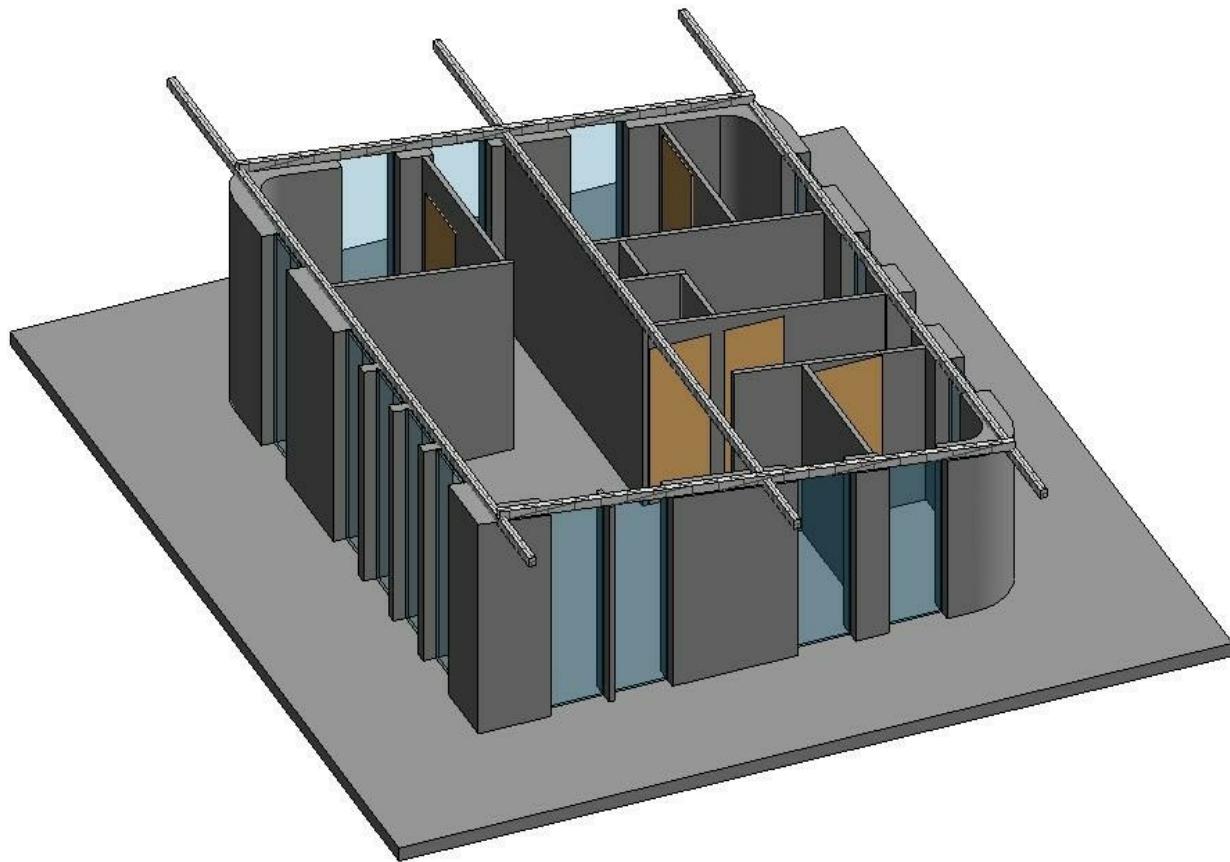


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TITLE	PHASE 2
PROJECT	CODE 2270
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18/11/2022 12:00PM



**PHASE 3 - FINER CONSTRUCTION**

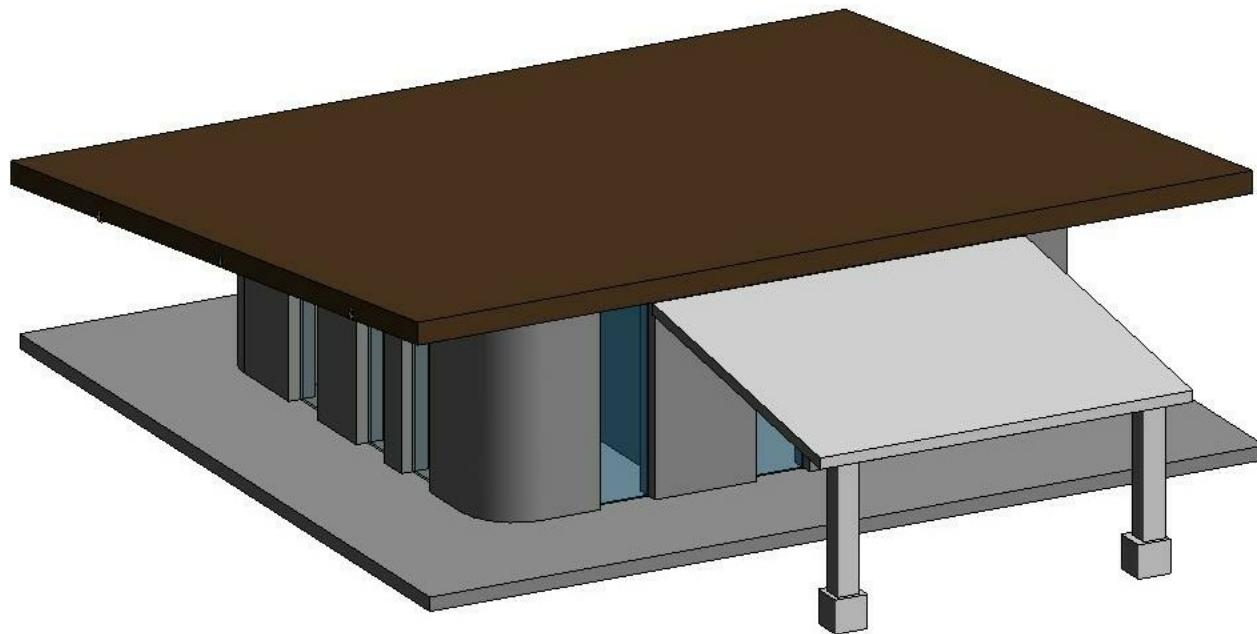
Interior walls	Plaster	Default wall: id 25	948
Interior doors	Masonite	Door - panel: id 10429	120



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TITLE	PHASE 3
PROJECT	CODE 2270
DRAWN BY	SAILOR PERRETT
SCALE	1 : 10



PHASE 4 - FINAL CONSTRUCTION

Carport roof

Concrete

Roofing felt: id 5181

219.83



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TITLE	PHASE 4
PROJECT	CODE 2270
DRAWN BY	SAILOR PERRETT
SCALE	1: 10

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**3D TO BIM**

TITLE	PHASE 5
PROJECT	CODE 2270
DRAWN BY	SAILOR PERRETT
SCALE	1 : 10

## Interference Report

Group by:

Category 1, Category 2 ▾

### Message

- Generic Models
  - Generic Models

Created: Wednesday, 2 November 2022 9:54:13

Last Update:

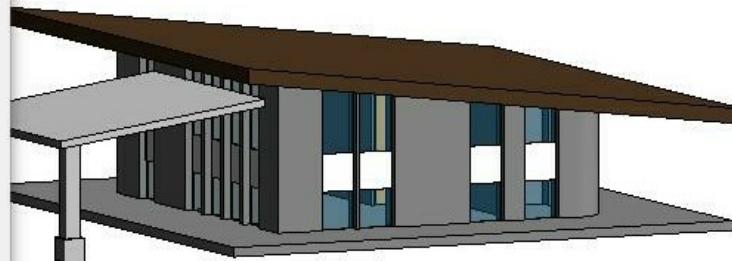
Note: Refresh updates interferences listed

Show

Export...

Refresh

Close



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TITLE	CLASH REPORT OVERVIEW
PROJECT	CODE 2270
DRAWN BY	SAILOR PERRETT
SCALE	1 : 1

## Interference Report

Group by:

Category 1, Category 2 ▾

### Message

- [-] Generic Models
  - [-] Generic Models
    - [...] Generic Models : Roof\_geometry : id 319045
    - [...] Generic Models : Structural\_beams\_geometry : id

Created:

Monday, 14 November 2022 9:28:18 AM

Last Update:

Thursday, 17 November 2022 10:33:18

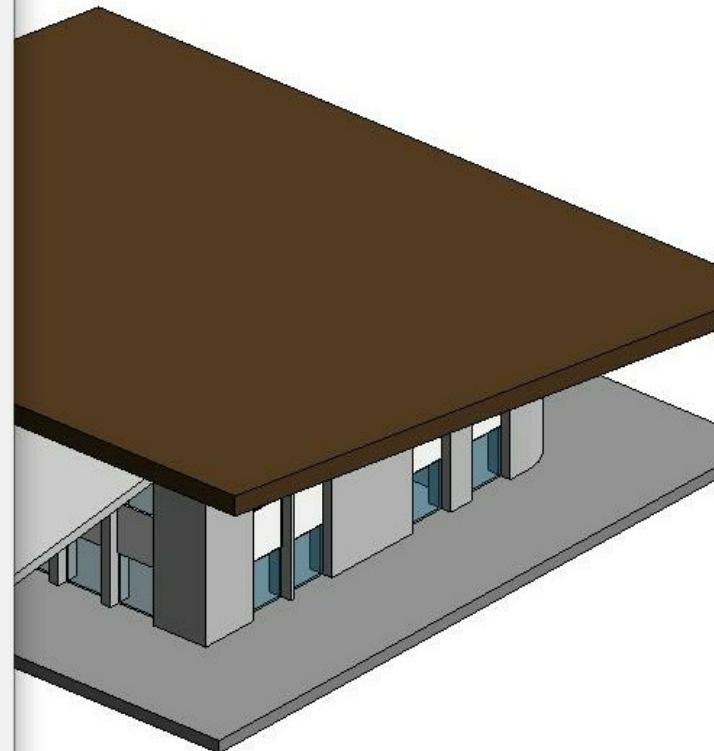
Note: Refresh updates interferences listed

Show

Export...

Refresh

Close



ALL RESOLVED CLASHES EXCEPT THIS ONE ABOVE



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TITLE  
**RESOLVED CLASHES**  
PROJECT  
**CODE 2270**  
DRAWN BY  
**SAILOR PERRETT**  
SCALE  
**1 : 1**

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QUANTITY TAKE OFF								
WINDOW SCHEDULE								
Family	Placement	Level	Height (mm)	Width (mm)	Length (mm)	Count	Direct labor (hrs)	Labor Pay (\$)
East side frames	Top left	1	4000	50	1000	1	0.5	20
	middle left	1	3600	50	1000	1	0.5	20
	Bottom left	1	3420	50	1000	1	0.5	20
North side frames	All walls	1	3230	50	1000	4	2	80
	West side frames	Top right	1	4000	50	1000	1	0.5
West side frames	2nd right	1	3900	50	1000	1	0.5	20
	3rd right	1	3600	50	1000	1	0.5	20
	Bottom right	1	3200	50	1000	1	0.5	20
South side frames	All walls	1	4100	50	1000	4	2	80
Middle frames	All walls	1.54	1000	50	1000	15	4	160
DOOR SCHEDULE								
Family	Level	Height	Width (mm)	Length (mm)	Count	Direct labor (hrs)	Labor Pay (\$)	
Master Bedroom	1	3000	120	1200	1	0.5	40	
Bedroom 1	1	3000	120	1200	1	0.5	40	
Ensuite	1	3000	120	1200	1	0.5	40	
Laundry	1	3000	120	1200	1	0.5	40	
Toilet	1	3000	120	1050	2	1	80	
Shower	1	3000	120	1050	1	0.5	40	
WALL SCHEDULE								
Family	Level	Offset distance	Height (mm)	Width (mm)	Length (mm)	Count	Direct labor (hrs)	Labor Pay (\$)
Bedroom	1		4000	100	3150	2	12	1440
Shower	1		4000	100	4105	2	12	1440
Master Bed	1		4000	100	5520	1	10	1200
Ensuite	1		4000	100	2952	1	8	960
Laundry	1		4000	100	3320	1	8.5	1020
Kitchen	1		4000	100	2670	1	7	840
Toilet	1		4000	100	1010	1	6	720
Toilet	1		4000	100	1230	2	6.5	780
Exterior walls	1	500	5400	2700	2400	4	72	8640
FLOOR SCHEDULE								
Family	Level	Height (mm)	Width (mm)	Length (mm)	Count	Direct labor (hrs)	Labor Pay (\$)	
Floorplate slab	1	250	3900	3600	1	50	5000	
ROOF SCHEDULE								
Family	Level	Height (mm)	Width (mm)	Length (mm)	Count	Direct labor (hrs)	Labor Pay (\$)	
Roof tiling	1.8	400	3900	3600	1	30	1500	
Structural beams	1.6	160	120	3600	5	2	40	
								TOTAL TOTAL COST 24320



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TITLE	QUANTITY TAKE-OFF
PROJECT	CODE 2270
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SCALE	1 : 1

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COST SCHEDULE							
Family	Material	Material Type	Volume (m2)	Direct labor (hrs)	Price p/m2 (\$)	Unit (\$)	Labor Pay (\$) Total cost (\$)
<b>Windows</b>							
East side frames	Aluminium glass	Window frame: id 51026	12.52	1.5	320	38.37	60 418.37
North side frames	Aluminium glass	Window frame: id 51026	14.92	2	320	42.9	80 442.9
West side frames	Aluminium glass	Window frame: id 51026	16.7	2	320	38.33	80 438.33
South side frames	Aluminium glass	Window frame: id 51026	18.4	2	320	34.78	80 434.78
Middle frames	Aluminium glass	Window frame: id 51026	22.5	4	320	56.9	160 536.9
<b>Doors</b>							
master bed	Masonite	Door - panel: id 10429	3.72	0.5	60	8.06	40 108.06
bed 1	Masonite	Door - panel: id 10429	3.72	0.5	60	8.06	40 108.06
ensuite	Masonite	Door - panel: id 10429	3.72	0.5	60	8.06	40 108.06
laundry	Masonite	Door - panel: id 10429	3.72	0.5	60	8.06	40 108.06
toilet	Masonite	Door - panel: id 10429	6.54	1	60	9.17	80 149.17
shower	Masonite	Door - panel: id 10429	3.27	0.5	60	9.17	40 109.17
<b>Walls</b>							
Bedroom	Plaster	Default wall: id 25	25.4	12	50	23.62	1440 1513.62
Shower	Plaster	Default wall: id 25	33.04	12	50	18.16	1440 1508.16
Master Bed	Plaster	Default wall: id 25	22.18	10	50	22.54	1200 1272.54
Ensuite	Plaster	Default wall: id 25	11.908	8	50	33.6	960 1043.6
Laundry	Plaster	Default wall: id 25	13.38	8.5	50	31.76	1020 1101.76
Kitchen	Plaster	Default wall: id 25	10.78	7	50	32.47	840 922.47
Toliet	Plaster	Default wall: id 25	4.14	6	50	72.46	720 842.46
Toliet	Plaster	Default wall: id 25	10.04	6.5	50	32.05	780 862.05
Exterior walls	Brick	Default wall: id 25	62.64	72	50	57.47	8640 8747.47
<b>Floor</b>							
Floorplate slab	Concrete	Default Floor: id 538	35.1	50	150	213.67	5000 5213.67
<b>Roof</b>							
Roof tiling	Tiles	Roofing tile : id 758	56.16	30	120	64.1	1500 1564.1
Structural beams	Steel	Concrete masonry units: id 415	6.912	2	150	43.4	40 83.4
<b>TOTAL COST SCHEDULE</b>							
<b>27637.16</b>							
<b>TOTAL QUANTITY TAKE OFF</b>							
<b>24320</b>							
<b>TOTAL TOTAL COST</b>							
<b>51957.16</b>							



3D TO BIM

TITLE	COST SCHEDULE
PROJECT	CODE 2270
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