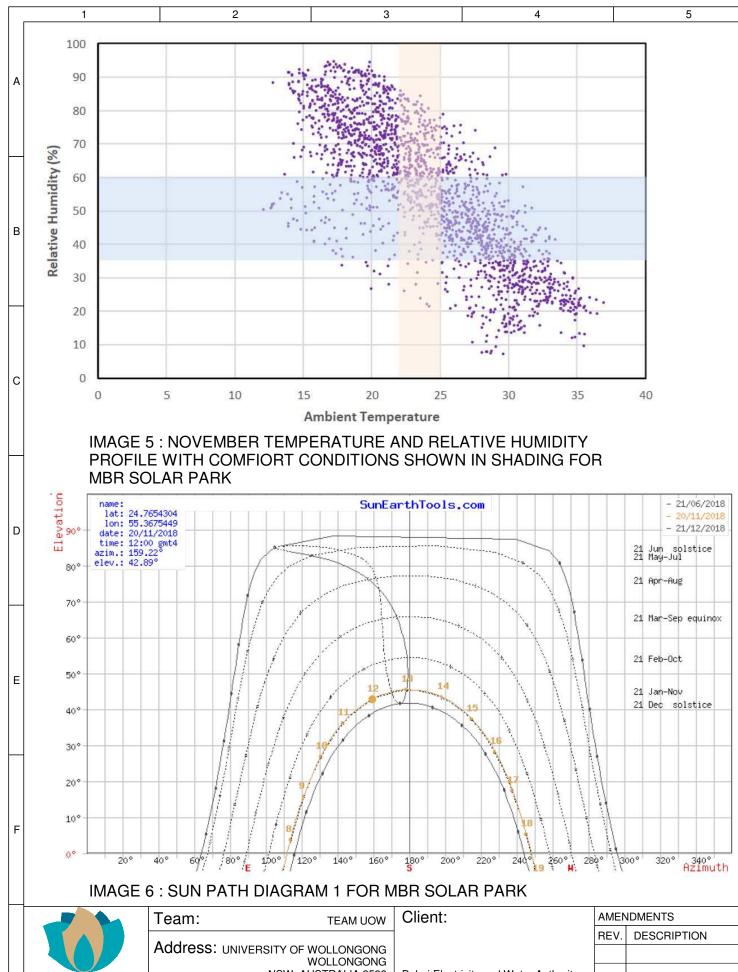
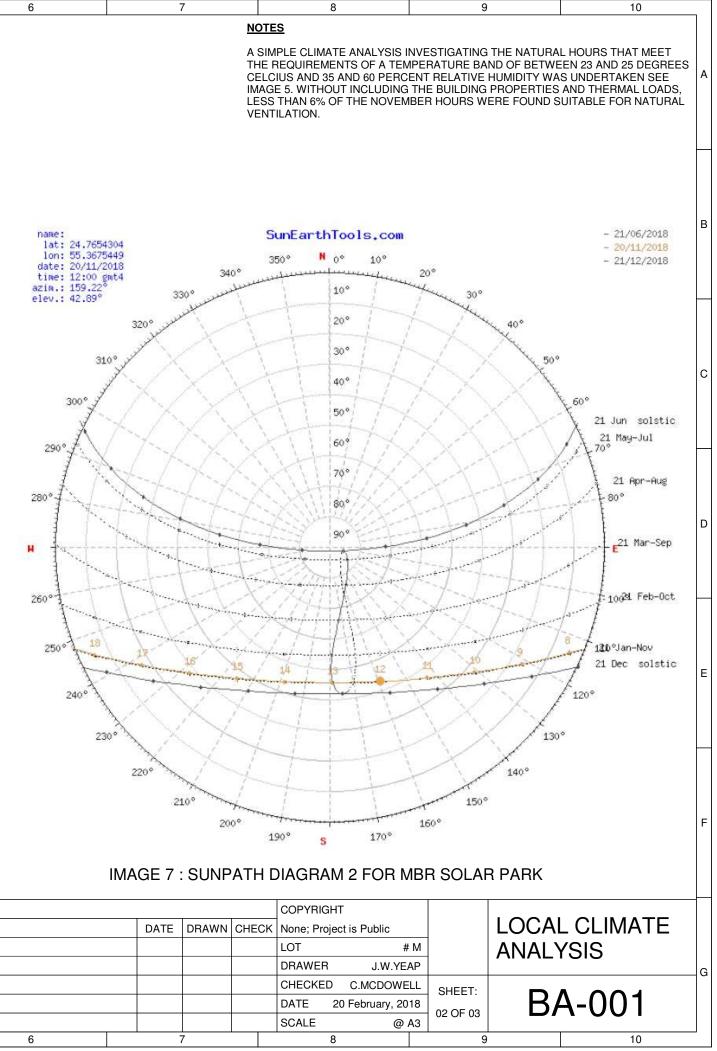
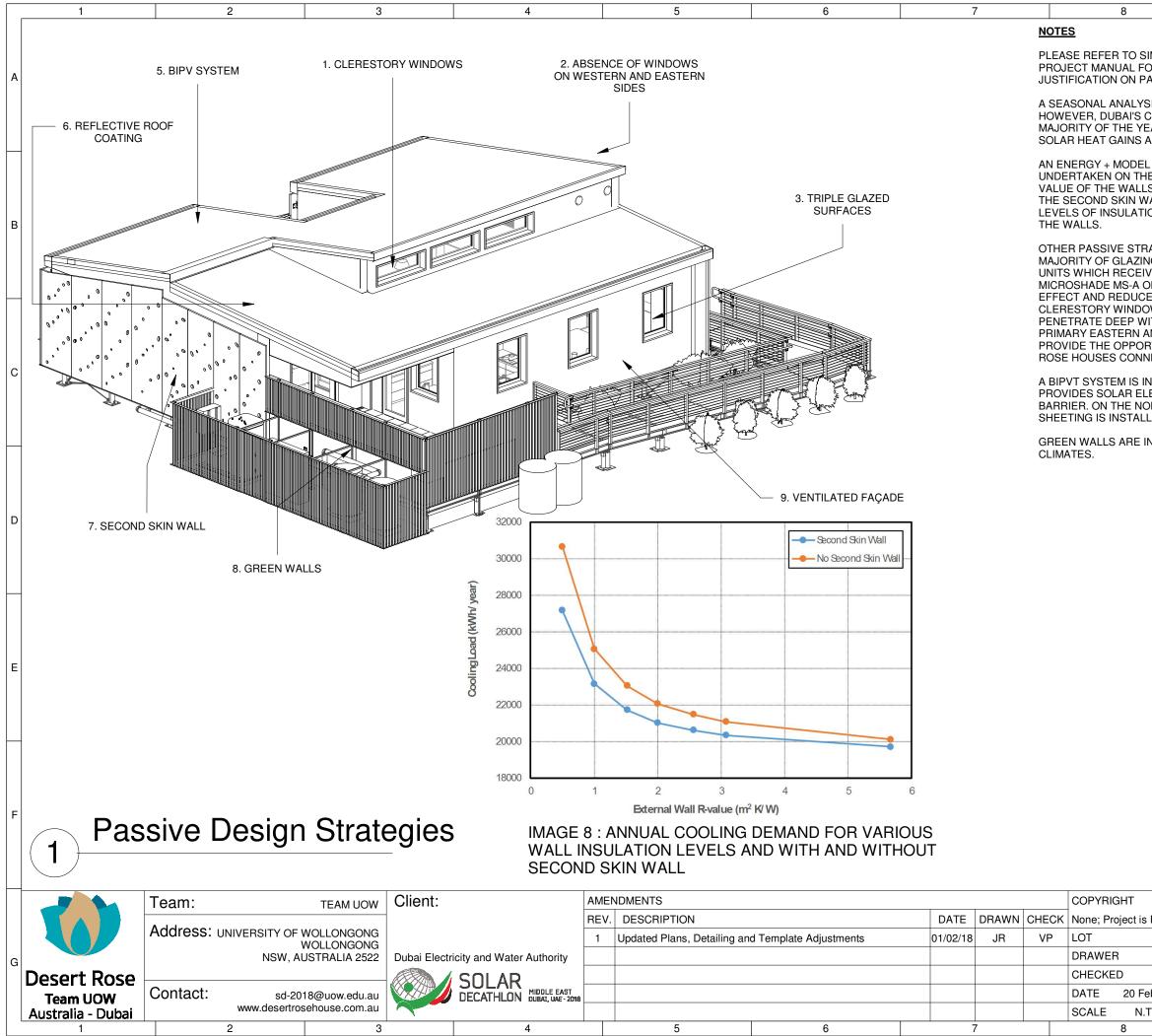


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T	NOTES DUBAI IS DOMINATED BY HIGH AMBIENT TEMPERATURES AND HIGH RELATIVE HUMIDITY. DURING THE COMPETITION PERIOD IN NOVEMEBER THE AVERAGE DAILY TEMPERATURES REACH OVER 30 DEGREES CELCIUS AND CAN DIP AS LOW AS 17 DEGREES DURING THE NIGHT. DURING THIS PERIOD THE HUMIDITY					
	THE DAY TO A CON	EVENINGS ANI . PASSIVE STRA .DDRESS THES	A FOCUS ON CO	% DURING THE GIES WILL NEED		
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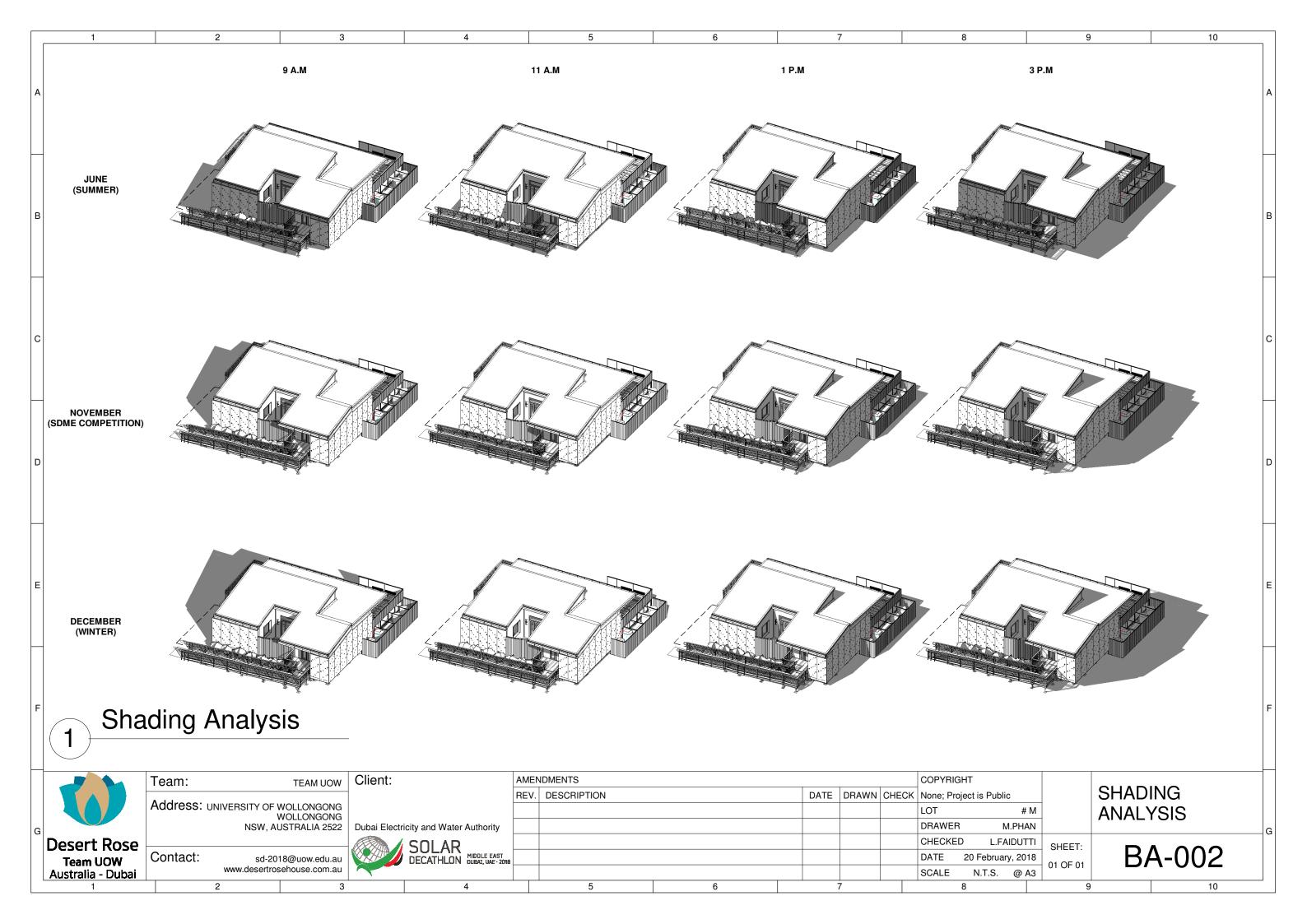


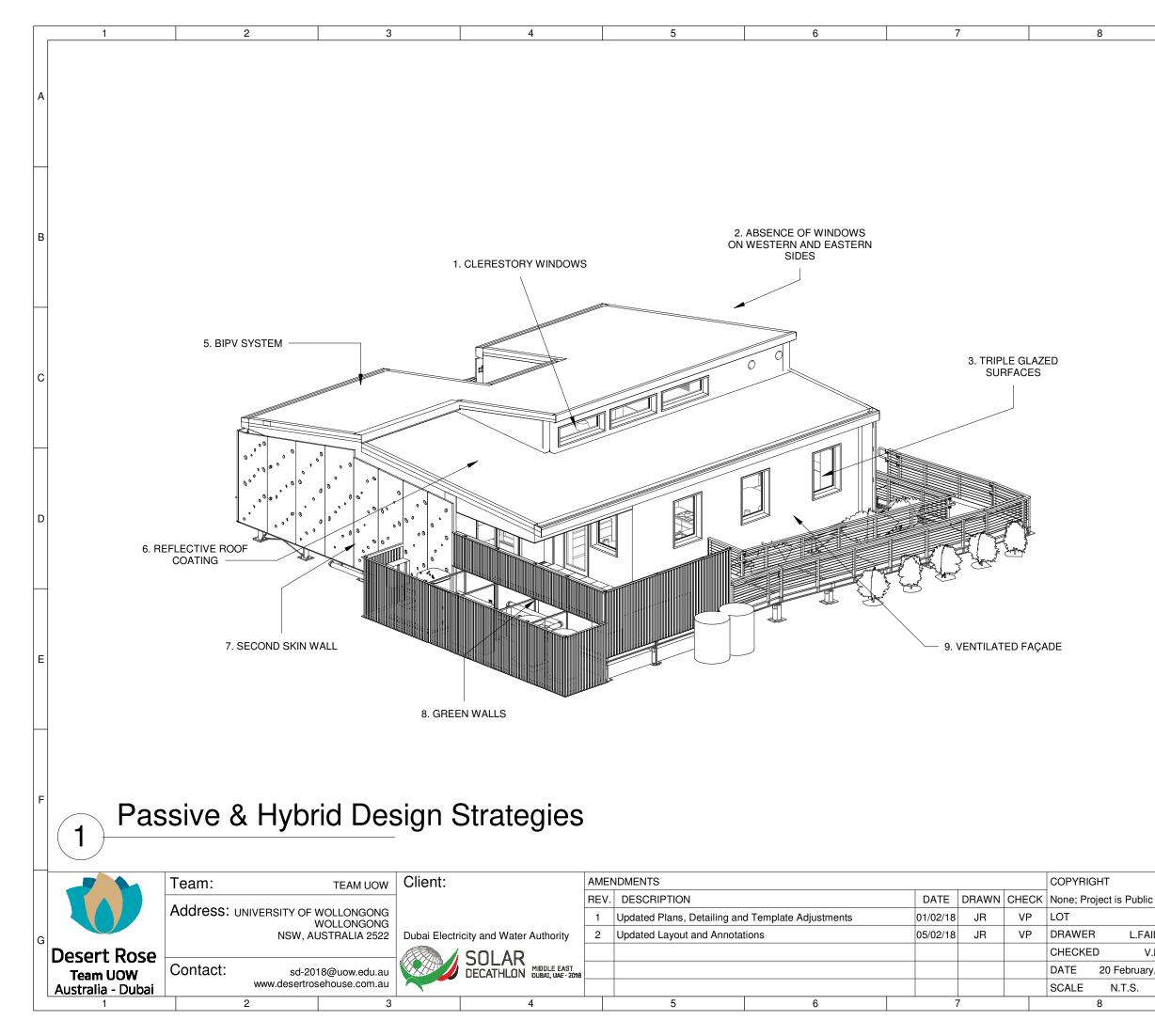


		Team:	TEAM UOW	Client:			AMENDMENTS					COPYRIGHT
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	G	NSW,	AUSTRALIA 2522		ricity and Water Authority							DRAWER J.V
	Desert Rose										CHECKED C.MCD	
	Team UOW	Contact: sd-	2018@uow.edu.au	V XXXIII	SOLAR DECATHLON MIDDLE EAST DUBAL, UAE- 2018							DATE 20 Februa
	Australia - Dubai	www.desert	rosehouse.com.au									SCALE
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OR FURTH ASSIVE DE SIS HAS BE CLIMATE C AR SO PA	IER E ESIG EEN CONE	IALYSIS ANI DETAILS ON IN STRATEG UNDERTAK DITIONS REI VE STRATEG	I CLIMATIC AN GIES. EN IN THE AE MAIN HOT AN GIES ARE TAF	N REPORT IN T	HE THE DUCING	A
E EFFECT S. AN EXC ALL WAS ON BUT D ATEGIES IG UNITS I /E DIRECT IN THE FIF	S OF ERP FOU IMIN INCL FACI F SU RST I	THE SECC TOF THE F IND TO HAV ISHING RET UDE TRIPP NG AWAY F NLIGHT HAV LAYER OF C	ND SKIN WAL RESULTS ARE E A LARGER I 'URNS THE HI LE GLAZED W 'ROM DIRECT VE BEEN INTE GLASS. THIS F	AN ANALYSIS W LL AND INSULA SHOWN IN IM/ IMPACT WITH L IGHER THE R V /INDOWS WITH SUNLIGHT. GL GRATED WITH PROVIDES A SH	TION AGE 8. OWER ALUE OF THE AZING IADING	В
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	PASSIVE DESIG	N STRATEGI	<u>ES</u>		
	1. CLERESTORY WINDOWS WILL AND MINIMISE S WINDOWS WILL	MAXIMISE N	ATURAL DAY-I GAINS. THESE	LIGHT	A
	2. ABSENCE OF EASTERN SIDES ALLOWS FOR M GAINS.	OF THE HO	JSE. THIS STF	ATEGY	
	3. TRIPLE GLAZ WINDOWS AND BUILDING'S ENE GAINS FROM TH	DOORS WILL	INCREASE THENCY, REDUCI	ΗE	в
	4. MICROSHADE PASSIVE AND H ELEMENT FULLY PANE INSULATII STRATEGICALLY	IGHLY EFFEC Y INTEGRATE NG GLAZING Y ADOPTED V	CTIVE SHADING D INTO THE T UNIT. IT WILL WITHIN THE GI	G RIPLE BE _AZING	
	SURFACES MOS 5. BIPV SYSTEM I ROOF SYSTEM I ROOF, INSULAT ENGINEERED TO CONDITIONS OF MAINTENANCE. SOUTH, MAXIMIS	I: THE "TRAC PROVIDES A ION, ELECRIC O WITHSTAN FERING LON THE ROOF S	TILE" VENTILA 4-IN-1 COMBIN CITY AND HOT D EXTREME W GEVITY WITH YSTEM WILL F	TED IATION OF WATER. 'EATHER LOW	с
	6. REFLECTIVE FACING ROOF V THE ELIMINATIC BUILDING'S INTE COATED WITH F DECREASE SOL	VILL BE VENT ON OF EXCES ERIOR. THE F REFLECTIVE (ILATED TO FA S HEAT IN THI ROOF SHEETS COLOUR TO F	CILITATE E WILL BE	
	7. SECOND SKIP FOAMED CONCI SHADING TO TH GAINS. IT IS POS THE SIDES OF T SUN.	RETE WALL, I IE HOUSE RE SITIONED STI	T WILL PERFO DUCING SOLA RATEGICALLY	ORM AS IR HEAT ALONG	D
	8. GREEN WALL COOLING TO TH CREATING A MIC	IE TWO OUTE	OOR AREAS		
	9. VENTILATED REDUCING THE CONSUMPTION,	RMÅL LOADS	AND ENERGY		E
	10. HIGHLY INSU OF INSULATION INCREASE THE	WILL REDUC	E THERMAL G	AINS AND	
	10. COLOUR SE HAVE HIGH LIGH				
	HYBRID DESIGN		_		
	MIXED-MODE VI WILL BE FAVOU FORCED MECH/ ADOPTED TO LII INTERIOR AREA	RED BY CLEF ANICAL VENT MIT HEAT GA	RESTORY WIN	DOWS. ALSO BE	F
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