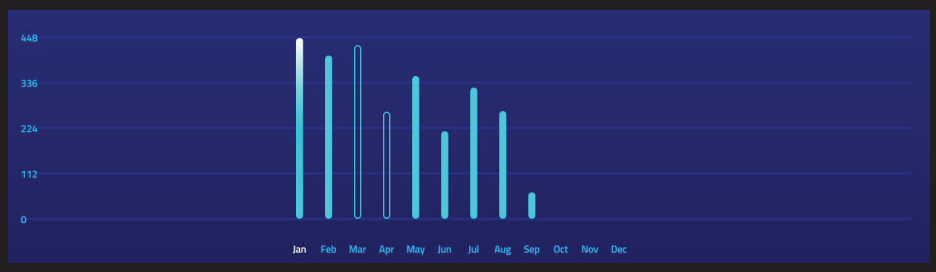
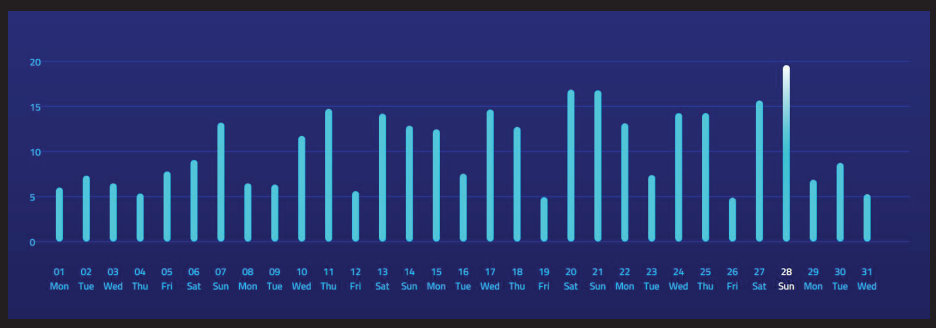
STAGE 1 TO STAGE 2

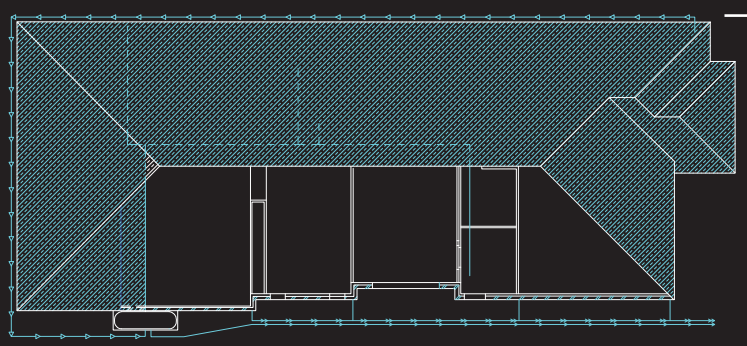
THE RECOGNITION OF ALL ASPECTS WITHIN STAGE 1 OF THE DESIGN PROPOSAL UNDERSTAND THE EXTERNAL, PASSIVE AND PERFORMATIVE ASPECTS OF CURRENT PROGRAMMATIC APPLICATION. THIS INCLUDES NOTIONS OF WATER CIRCULATION, CIRCULATION THROUGH THE EFFECTED DESIGN, UTILISATION OF THE STRUCTURE WITHIN A GRID AND PATTERNS OF WIND MOVEMENT. THE RE-INVENTION OF THE DESIGN WILL INCLUDE PROGRAMMATIC INCLUSIONS TO UTILISE THE VENTILATED CIRCULATION TO THE BEST CAPABILITY, WHILST FITTING SEAMLESSELY AND FULLY INTO THE SPECIFIED LOT. THE CIRCULATION OF WATER WILL BE FURTHER DESIGNED TO UP-SCALE PRE-EXISTING WATER STORAGE, WHILST UTILISING THE OVER-USE RUN-OFF AS STORED RECYCLED WATER OR WATER TO ATTATCHED TO SYSTEMS OF VEGETATION GROWTH. THE ISSUE OF PRIVACY WITHIN SPECIFICALLY THE REAR SIGHTING OF THE STRUCTURE IS FURTHER CONSIDERED, DUE SIGNIFICANTLY TO THE RISING CONTOUR OF THE AREA. THEREFORE IT'S NECESSARY TO CONSIDER THE ARRANGEMENT OF FUTURE PLACEMENTS IN ORDER TO RESOLVE THIS ISSUE. THIS DRIVE TOWARDS FURTHER URBAN AND SOCIAL SUSTAINABILITY AN BE FURTHER DEVISED AND ADAPTED THROUGH PRIMARY ADDITIONAL RESOLUTIONS SUCH AS THE SMART LAYERING OF SOLAR PANELS IN PRIME AREAS AS WELL AS SMALLER WIND CATCHMENT PROGRAMS THAT CAN AID TOWARDS THE SUSTAINABLE GATHERING OF ENERGY. THIS PRIMARY ADDITIONAL ASPECT WILL BE SUPPLEMENTED MAINLY BY DESIGN DECISIONS THAT REFLECT THE POTENTIAL OF PASSIVE CONCEPTS, SUCH AS WIND AND LIGHT FOR EXAMPLE. THESE WILL INCLUDE THE POSITIONING OF POTENTIAL WINDOWS AND LIGHTS, MORPHING OF THE ROOF TO ADAPT SPECIFICALLY TO AID THERMAL MASSING ELEMENTS AS WELL AS ALLOWING FOR COMPLETE CIRCULATION OF AIR THROUGH THE STRUCTURE. THEREFORE THE NECESSITY FOR INTERVENTION WITHIN THIS STRUCTURE AND DESIGN DISPLAYS THE CAPABILITY TO FURTHER PUSH THE BOUNDARIES OF URBAN AND SOCIAL SUSTAINABILITY IN ORDER TO REALISE THE SPECIFIC POTENTIAL OF THIS INDIVIDUAL STRUCTURE WITHIN IT'S LOT. EACH STRUCTURE WITHIN THE GRID REQUIRES IT'S OWN APPLICATION OF THIS PROPOSITION, AS EACH IS WITHIN A DIFFERENT LOCATION ON THE GRID AND IS SUBJECT TO IT'S OWN ASPECTS OF ADAPTABILITY. THE RECOGNITION OF THIS NOTION REPRESENTS THE TRANSITION BETWEEN STAGE 1 AND STAGE 2.



KW/H PER MONTH



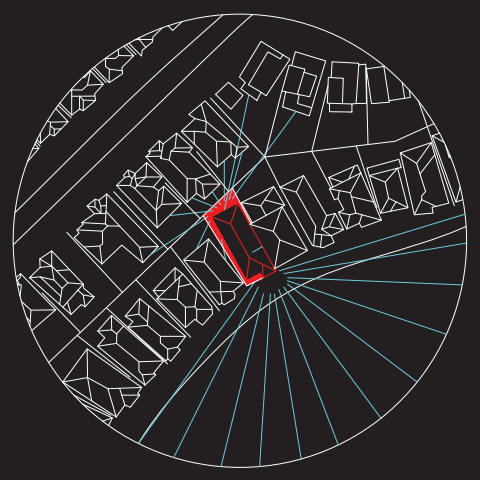
KW/H PER DAY (JUNE)



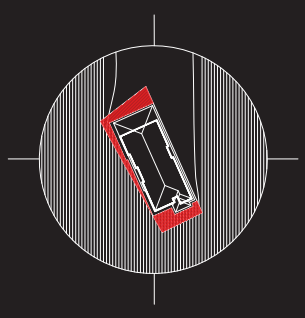
WATER CIRCULATION PLAN

WATER CIRCULATION
[PERFORMATIVE INTERNAL]

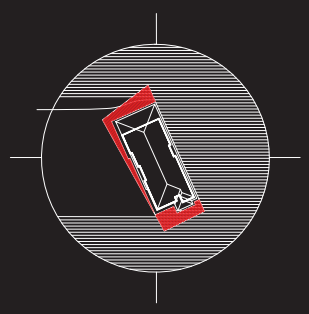
THE SYSTEM OF WATER MOVEMENT IS CAUGHT WITHIN SPECIFIC WALL PIPING AS WELL AS ROOF CATCHMENTS. THE MOVEMENTS ARE THEN FILTERED INTO THE WATER TANK AND RECYCLED WITHIN COLD WATER USAGE OR INTO THE MAIN LINES. UN-USED WATER IS THEN DIRECTED OUT, AS WELL AS STORM. SYSTEMS OF IMPROVEMENT CAN BE REALISED WITHIN THE DIRECTION OF UN-USED WATER, TOWARDS ENVIRONMENTAL, VEGETATION USAGE OR DIRECTED TO MORE STORAGE.



SIGHITNG RANGE



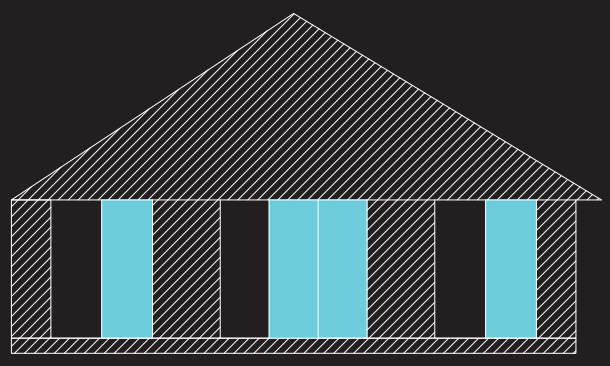
SOUTH WIND



EAST WIND

SECTION CIRCULATION
[PASSIVE INTERNAL]

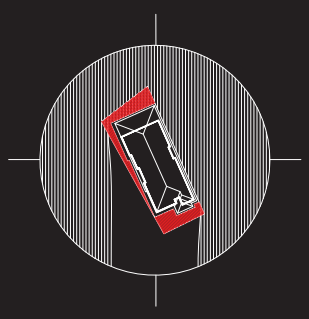
MULTIPLE POTENTIAL OPENING WITHIN THE STRUCTURE CURRENTLY ALLOW FOR CIRCULATION WITHIN MOST AREAS OF THE HOUSE. HOWEVER THESE AREAS ARE SECTIONED OFF AS SPECIFIC ROOMS WHICH LIMITS THE POTENTIAL FOR NATURAL VENTILATION TO OCCUR, AS IT WOULD WITHIN A MORE OPEN PLAN. IT FURTHER DEPENDS ON THE POSITION OF THE DOORS ASWELL.



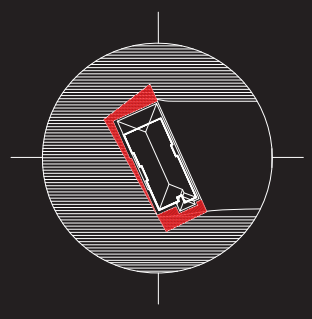
CIRCULATION SECTION

WIND BLOCKING GRID
[PASSIVE EXTERNAL]

THE EXTERNAL BLOCKING OF WIND OCCURS DEPENDING ON WIND DIRECTION. THE INDIVIDUAL LOTS ARE ALL EFFECTED DIFFERENTLY, DUE TO THE ISSUE OF THE GRID LAYOUT OF STRUCTURES. THIS GRID OBSTRUCTS WIND PATTERNS IN SOME AREAS, WHILST PROVIDING IT IN AREAS WHICH ARE UNECESSARY DUE TO LACK OF PERMISSIVE WINDOWS OR DOORS.



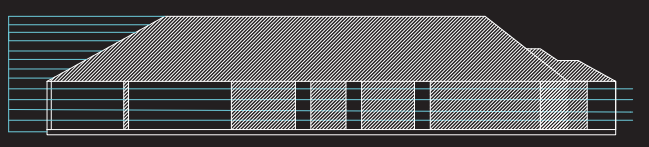
NORTH WIND



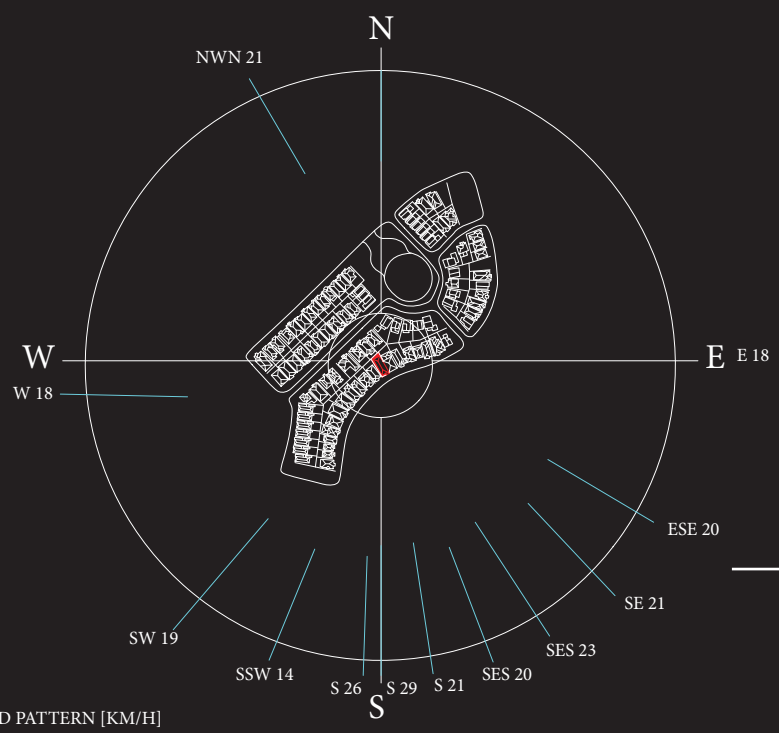
WEST WIND

SECTION CIRCULATION
[PASSIVE INTERNAL]

THE CIRCULATED AIR THROUGH THE MIDDLE OF THE STRUCTURE PROCEEDS WITHOUT OBSTRUCTION WHILST ALLOWING FOR UN - OBSTRUCTED MOVEMENT FROM THE ENTRANCE OF THE STRUCTURE THROUGH THE HALL. THIS SPECIFIC WIND PATTERN RELATES TO NORTH-WESTERNLY WINDS, WHICH DURING WINTER MONTHS IS PREVALENT WITHIN THE AREA.



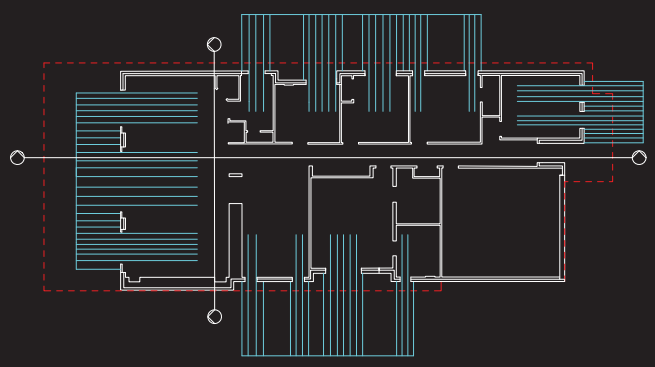
CIRCULATION SECTION



WIND PATTERN [KM/H]

PLAN CIRCULATION
[PASSIVE INTERNAL]

THE EFFECTS OF SURROUNDING WIND PATTERNS PLAY A KEY ROLE IN DETERMINING THE NATURAL, VENTILATED CIRCULATION OF A SPACE. IN REGARDS TO THE POTENTIAL FOR ALL DIRECTIONS TO BE EFFECTED, MOST ROOMS ARE WELL CIRCULATED BY NATURAL BREEZE, HOWEVER THE DEPENDANCE ON THIS RELATES SPECIFICALLY TO WIND PATTERNS.



CIRCULATION PLAN

WIND PATTERN
[PASSIVE EXTERNAL]

THE OCCURING WINDS WITHIN THE GLENSWOOD HILLS AREA, WERE COLLECTIVELY SOUTHERN WITH SPEEDS EXCEEDING 15 KMH. THE ABSENCE OF IMMEDIATE SOUTHERN COVERING ALLOWS FOR THE STRUCTURE TO RECIEVE WINDS FACING THE ENTRY, WHILST UTILISING AIR CIRCULATION WITHIN THE STRUCTURE ITSELF.