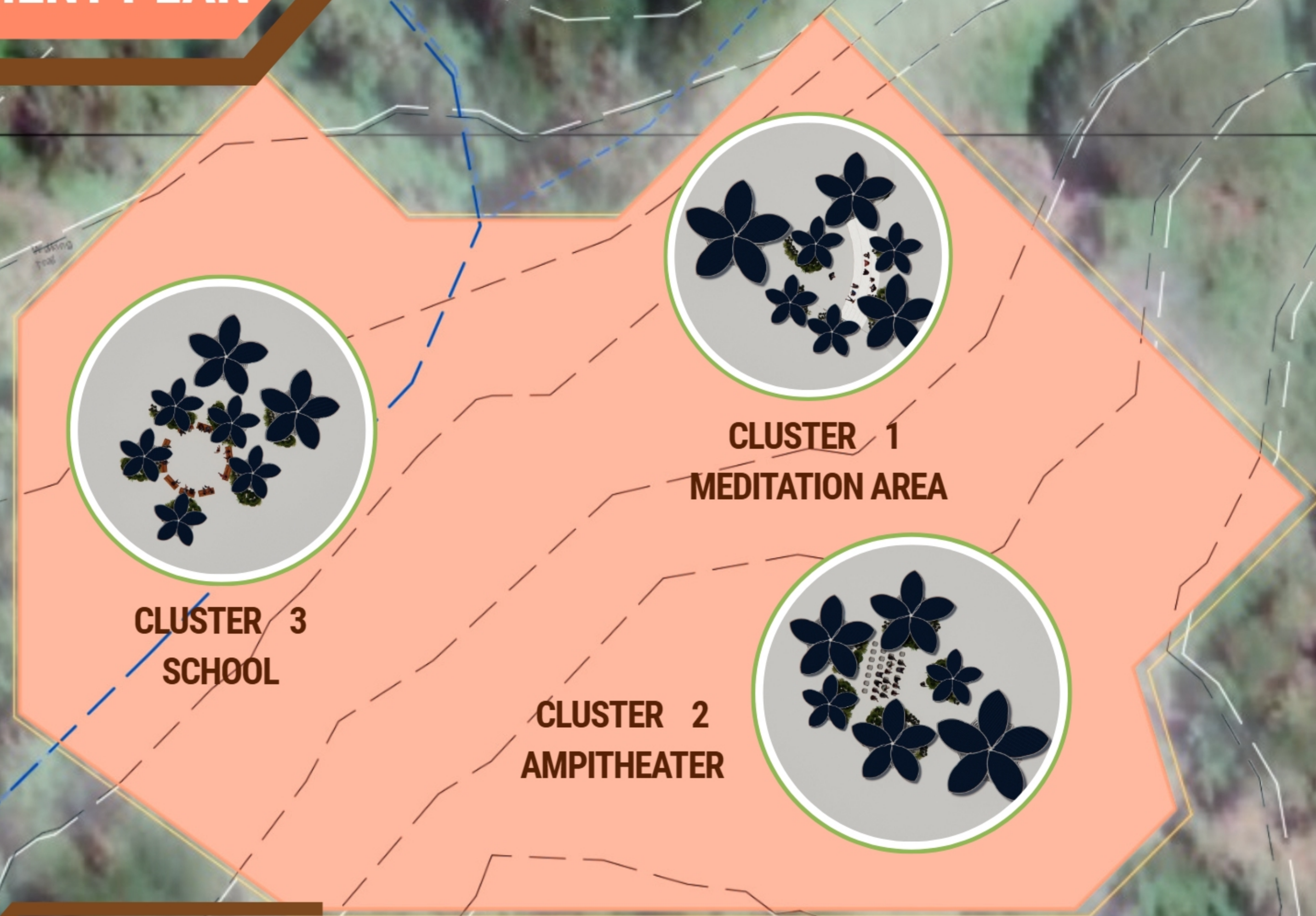


SITE DEVELOPMENT PLAN



CONCLUSIONS

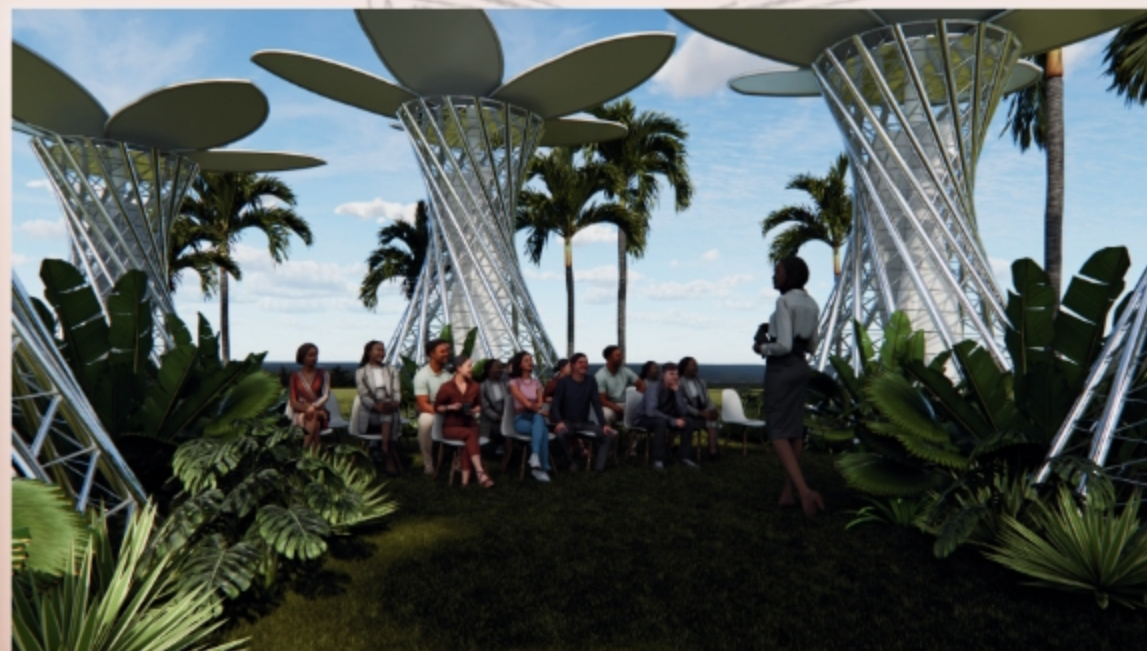
THIS PRESENTS A SITE DEVELOPMENT PLAN THAT INTEGRATES CULTURE, EDUCATION, AND COMMUNITY WITHIN A SUSTAINABLE LANDSCAPE. THE THREE CLUSTERS—MEDITATION AREA, AMPHITHEATER, AND SCHOOL—ARE THOUGHTFULLY ARRANGED TO ENCOURAGE A NATURAL FLOW OF MOVEMENT AND INTERACTION. THE AMPHITHEATER, CENTRALLY LOCATED, SERVES AS THE HEART OF THE SITE, FOSTERING GATHERINGS, PERFORMANCES, AND COMMUNITY EXCHANGE. EACH CLUSTER IS SITED WITH SENSITIVITY TO THE LAND'S TOPOGRAPHY, VEGETATION, AND WIND PATTERNS, AS SHOWN IN THE ANALYSIS DIAGRAMS. THE DESIGN SUPPORTS BOTH INDIVIDUAL REFLECTION AND COLLECTIVE EXPERIENCE, CREATING A BALANCE BETWEEN SOLITUDE AND SOCIAL ENGAGEMENT. BY PRESERVING NATIVE TREES AND FOLLOWING NATURAL CONTOURS, THE PROJECT RESPECTS THE LOCAL ENVIRONMENT WHILE ENHANCING ACCESSIBILITY. IT CELEBRATES FIJIAN CULTURE THROUGH SPACES THAT INVITE STORYTELLING, LEARNING, AND CONNECTION. OVERALL, THE PROPOSAL ENVISIONS A REGENERATIVE LANDSCAPE WHERE ARCHITECTURE AND NATURE SUPPORT RESILIENT, PLACE-BASED LIVING.



CLUSTER 2 AMPITHEATER



CLUSTER 1 MEDITATION AREA



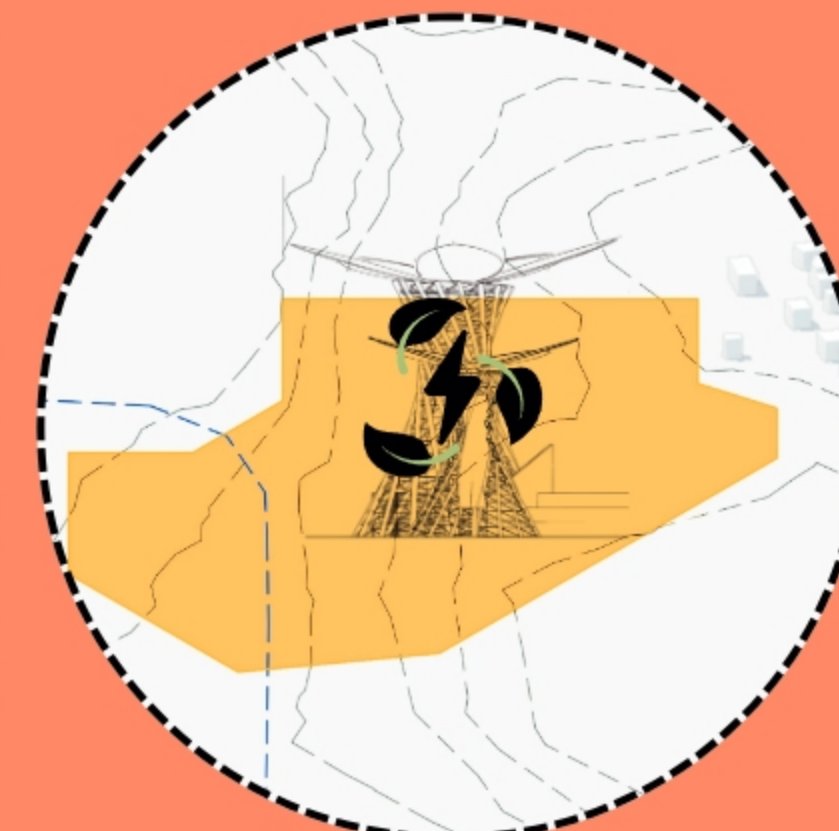
CLUSTER 3 SCHOOL



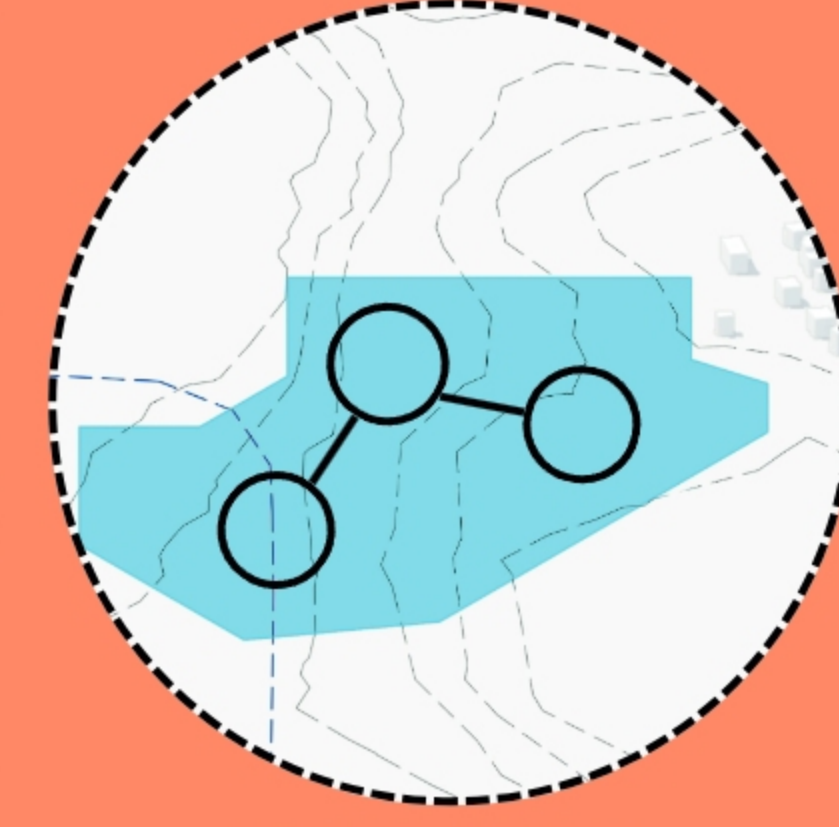
ANALYSIS



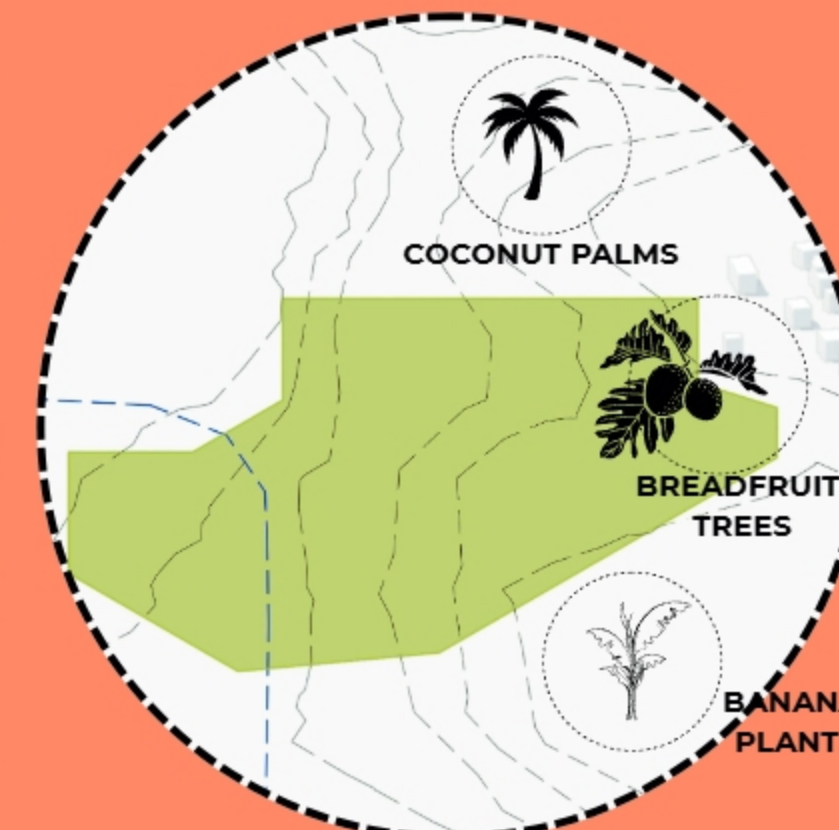
COMMUNITY



ENERGY



CIRCULATION



ENVIRONMENT

RAINWATER-HARVESTING SYSTEM WOULD GIVE THE MAROU COMMUNITY A RELIABLE, YEAR-ROUND SUPPLY OF CLEAN WATER, REDUCING DEPENDENCE ON DISTANT OR SEASONALLY SCARCE SOURCES. BY CAPTURING ROOF RUNOFF AND STORING IT IN ELEVATED TANKS, THE SYSTEM CAN PROVIDE GRAVITY-FED WATER FOR DRINKING, COOKING, HAND-WASHING, AND CROP IRRIGATION WITHOUT THE NEED FOR COSTLY PUMPS. THE HARVESTED WATER ALSO SUPPORTS THE SITE'S SCHOOL GARDENS AND LANDSCAPE PLANTINGS, STRENGTHENING LOCAL FOOD SECURITY WHILE TEACHING STUDENTS PRACTICAL LESSONS IN RESOURCE STEWARDSHIP. OVERALL, THE HARVESTER LOWERS WATER BILLS, LESSENS PRESSURE ON FRAGILE AQUIFERS, AND BUILDS RESILIENCE AGAINST DROUGHT AND CLIMATE-DRIVEN DISRUPTIONS.

DETAILED COMPUTATION PER CLUSTER:

SMALL PETAL = 2.65 SQ.M.
MEDIUM PETAL = 5.96 SQ.M.
BIG PETAL = 10.6 SQ.M.

*EACH TREE HAS 5 PETALS

1 SMALL TREE COMPUTATION:
2.65 SQ.M. X 5 PETALS = 13.25 SQ.M.
POWER GENERATION = 13.25 SQ.M. X 0.18 = 2.385 KWH
RAIN HARVESTED = AREA X RUNOFF COEFFICIENT X RAINFALL
= 13.25 X 0.9 X 1565 MM
= 18,662.625 L X 3 SMALL TREE
= 55,987.875 L

1 MEDIUM TREE COMPUTATION:
5.96 SQ.M. X 5 PETALS = 29.8 SQ.M.
POWER GENERATION = 29.8 SQ.M. X 0.18 = 5.364 KWH
RAIN HARVESTED = AREA X RUNOFF COEFFICIENT X RAINFALL
= 29.8 X 0.9 X 1565 MM
= 41,973.30 L X 2 MEDIUM TREE
= 83,946.60 L

1 BIG TREE COMPUTATION:
10.6 SQ.M. X 5 PETALS = 53 SQ.M.
POWER GENERATION = 53 SQ.M. X 0.18 = 9.54 KWH
RAIN HARVESTED = AREA X RUNOFF COEFFICIENT X RAINFALL
= 53 X 0.9 X 1565 MM
= 74,650.50 L

TOTAL:
1 CLUSTER: 214,584.975 L = 27.423 KWH
3 CLUSTER: 643, 754.925 L = 82.269 KWH

INTERRELATIONSHIP SUMMARY

• FUNCTIONAL FLOW:
THE CLUSTERS REPRESENT A GRADIENT OF EXPERIENCE—FROM QUIET REFLECTION (MEDITATION), TO SHARED EXPRESSION (AMPHITHEATER), TO STRUCTURED LEARNING (SCHOOL).

• CIRCULATION PATTERNS:
THE CENTRAL AMPHITHEATER UNITES THE CLUSTERS, ENABLING EASY MOVEMENT BETWEEN ZONES. THIS SUPPORTS A NON-HIERARCHICAL, INCLUSIVE DESIGN—EMPHASIZING PARTICIPATION OVER SEPARATION.

• ENVIRONMENTAL RESPONSIVENESS:
ALL CLUSTERS ARE SITED IN RESPONSE TO NATURAL TOPOGRAPHY AND VEGETATION, AS INDICATED BY THE ENERGY, CIRCULATION, AND ENVIRONMENTAL ANALYSIS DIAGRAMS. PATHS AND FUNCTIONS APPEAR TO FOLLOW LAND CONTOURS AND EXISTING VEGETATION, PROMOTING HARMONY WITH THE SITE.

THE VEGETATION AROUND MAROU, FIJI IS CHARACTERIZED BY LUSH TROPICAL GROWTH DUE TO THE AREA'S WARM, HUMID CLIMATE AND ABUNDANT RAINFALL. COCONUT PALMS, BREADFRUIT TREES, AND BANANA PLANTS ARE COMMON, THRIVING ALONGSIDE DENSE UNDERGROWTH.

COASTAL AREAS FEATURE MANGROVES THAT HELP PROTECT THE SHORELINE AND SUPPORT MARINE BIODIVERSITY.

INLAND, THE LANDSCAPE TRANSITIONS INTO LOWLAND RAINFORESTS WITH NATIVE HARDWOOD TREES, FERNS, AND WILD Hibiscus.

THIS DIVERSE VEGETATION SUPPORTS BOTH TRADITIONAL SUBSISTENCE FARMING AND LOCAL WILDLIFE HABITATS.