



bahay latian

LOW-COST HOUSING COMPLEX FOR FARMERS AND DISPLACED FAMILIES IN BULAKAN, BULACAN

SITE DEVELOPMENT PLAN

DESIGN RATIONALE







DESIGN CONCEPT OVERVIEW

PROBLEM STATEMENT

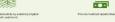
"Levels of water dams that irrigate farmlands of Bulacan has been plummeting to critical levels annually on dry seasons leaving farmers in unstable agricultural production, all the while draining grey water that could potentially, if treated, quench parched soils. How can a housing facility in Bulacan interrate irrigation technological innovation in accidural production?"

PROJECT GOALS



FUNCTION GOALS

\$48

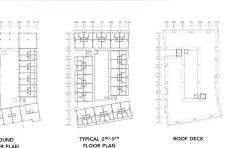


EXECUTION

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NATURE OF USERS

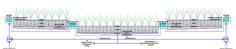
ARCHITECTURAL DESIGN



GREY WATER, STORMWATER & CONSTRUCTED WETLAND

Greywater contains nitrate and phosphate, which are plant nutrients. Discharging these nutrients into the soil or shallow adjurse or wellands acts as fertilizer and improves plant growth. However, if discharged directly into surface water (founds, niver, or sternal) constitutes a pollution. The excess amount of nutrients causes algae blooms and when these algae dies that results to microbial decomposition and decoyaemston of the body of water.

The constructed wetland model used in this design is patterned after for a peri-urban housing area Bayawan City, Philippines for relocated families from informal settlements that had no access to safe water supply or any sanitation facilities along the coasts of the city.



CONSTRUCTED WETLAND FILTRATION SYSTEM CONCEPTUAL DIAGRAM









2-BEDROOM, 2-BATHROOM HOUSING UNIT

PROXIMITY TO URBAN CORE





IMPENDING DEVELOPMENTS

USERS AND STAKEHOLDERS

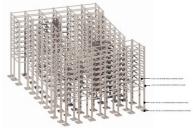
SITE ANALYSIS

MAIN TARGET USERS

Farmers and displaced families are the main target users of the design project in Bulakan, Bulacan, Agriculture lands they own are the most vulnerable in peri-urban developments and the decrease in rice production of rice farming income forces farmers to set lither lands to pit-developers for the highest bilder, this results to ampoint selling and diminishing of rice lands. These farmers are also prone to residential displacement due to the spread of commercial developments in urban nodes and contributes to the already rising housing project backlogs of the government.

SECONDARY USERS

The secondary users of the design development are farmers' market stall vendors, shoppers, administrative personnel, service staff, maintenance staff and security staff. These people may also belong to the family units in residence, and family members of the main target users that are not employed in the agricultural activities of the development.



CONCEPTUAL STRUCTURAL FRAMEWORK ISOMETRIC DIAGRAM





