





= 360 x 8

= 2.8 kWh

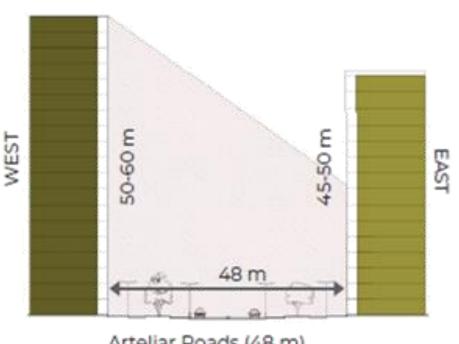


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CLIMATE AND BUILDING DESIGN STRATEGIES

Building Heights: Enclosure and Orientation

1) Enclosure - Minimum ratio of 1:2 of building heights to street widths need to be achieved specially for major arteliar and sub-arteliar roads to achieve enclosure.



Arteliar Roads (48 m)

27 m

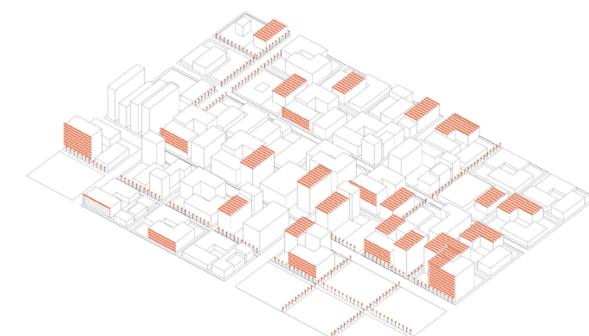
Distributor Road (27 m)

Renewable Energy System 1) Calculating Area for Solar Energy Production Energy consumption per capita per day is Energy produced by 1m x 2m 360W solar

NORTH

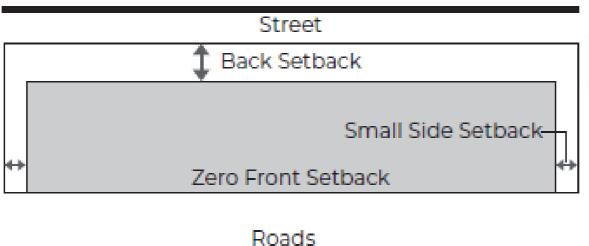
Area required for one person energy = (1.5 kWh x 2m²) $= 1.07 \sim 1 \text{ m}^2$



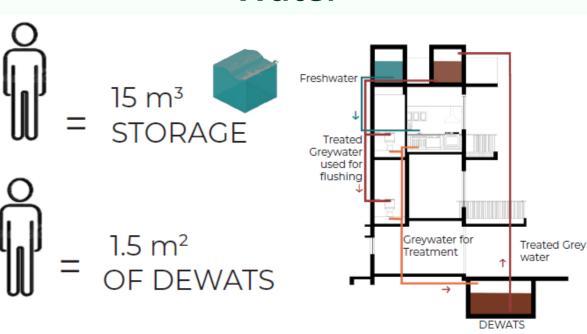


Light Shadow and configuration for different sizes of roads.

There should be no front setback from the main roads and access should be given through streets at the backside of the built form

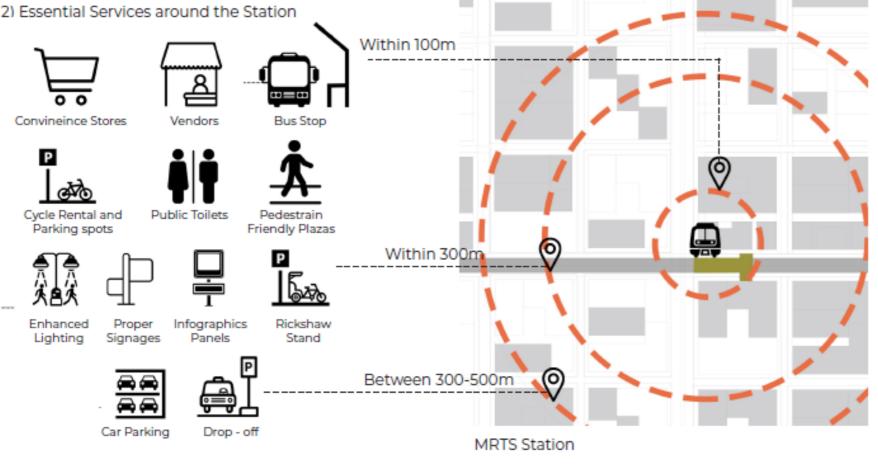


Water

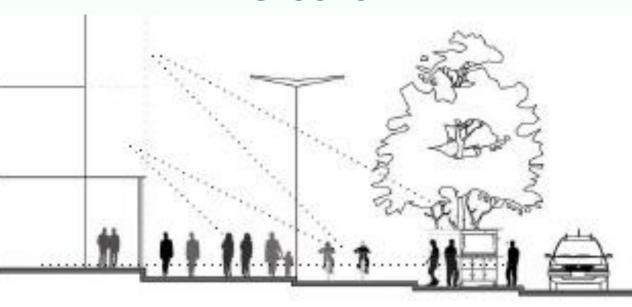


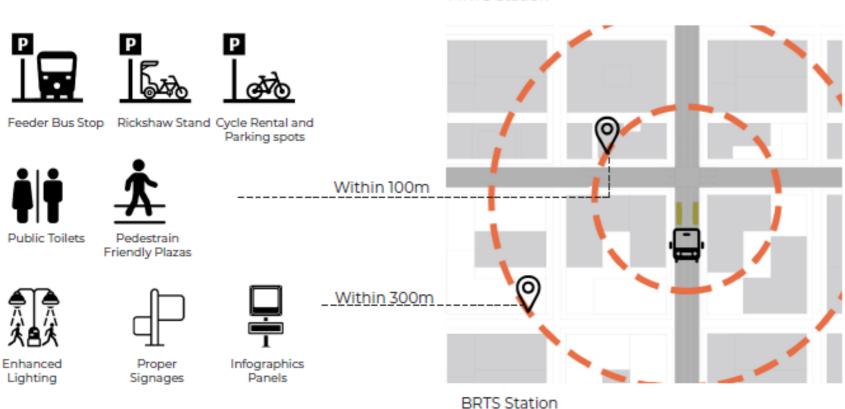
Last Mile Connectivity and Infrastructure Development

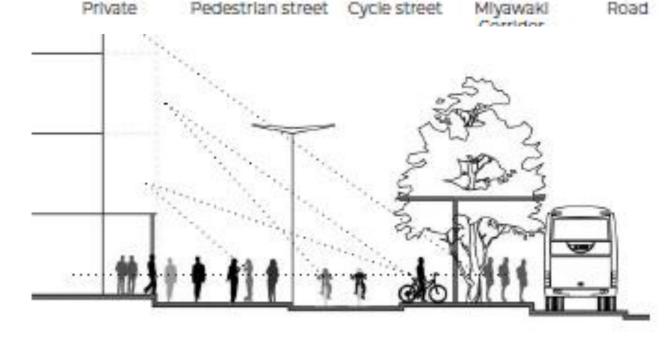
SOUTH



Road Sections With Integrated Greens







Private

Pedestrian street Cycle street Miyawaki Corridor BRTS

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Bachelors of Architecture

Batch 2018-2023 **Student(s):** Prof Dhaval Chauhan Faculty:

Prof Jaydeep Bhagat

Urban Context Studio (Updated Course)

URGENT Cross-Cutting Theme:

Credits:

Semester:

4. Integrative Smart Green & Blue Urban Planning, including science, policy and management for adaptation, mitigation and urban NBS

8 ECTs Type of Course: Studio VIII Sem 2022 Year



P12_Knowledge Dissemination Series Prepared By Utsavi Shah