

# The Green Village

Francisco Alberdi | Mohamed Alkhalifa | Cynthia Dorrego | Aaron Janci  
Julia Levay | Adrielle Lima | Brianna Woolfolk

Department of Civil, Architectural, and Environmental Engineering



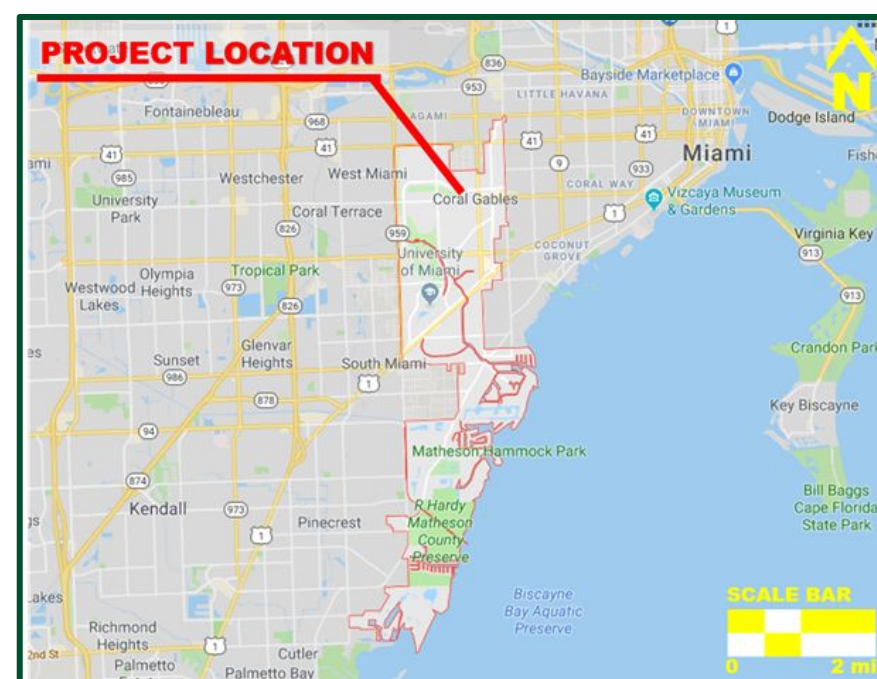
## Abstract

At Nexxus Engineering we strive to create in a way that is sustainable for the future. The Green Village integrates sustainable systems with high end luxurious designs. We have combined methods to conserve energy and water use without compromising comfort in our development of 7 townhomes which will fit in seamlessly with the surrounding Coral Gables area.

## Introduction

The Green Village is being developed at 536 Coral Way in Coral Gable, Florida. The property is currently owned by the first methodist church, which is located across the street, and has served as a parking lot for over 50 years. The property will undergo both a stage 1 and stage 2 environmental assessment prior to the start of construction.

Throughout construction we aim to recycle as much debris as possible and retain vegetation onsite so that not only is our design environmentally conscious, so is our process.



## Methods | Design | Analysis

- Net Zero Solar
- Smart Home Systems
- Alternating Roof Terraces
- Greywater Reuse
- Natural Stormwater Management
- Dual -Axis Solar Mounts
- Rainwater Reuse
- Sustainable Luxury
- VRV HVAC
- Recycled Steel
- Motorized Pergola
- Wrap-around Balconies



## Results



## Conclusion

The Green Village is an investment in the future and is the embodiment of luxury and sustainability. Our design brings forward the ideal combination for sustainable living that will allow you to leave a mark in the future of Coral Gables. While this project is unique, and exclusive, it is also appropriate and practical for the location and will fit without causing any disruptions to its residents.

## Acknowledgments

On behalf of Nexxus Engineering we would like to thank: Dr. Trussoni, Dr. Andiroglu, Dr. Solo-Gabrielle, Samir Elmir, The IAB, Chen Moore and Associates, and all guest speakers who have provided their time and expertise over the Fall 2019 and Spring 2020 semesters.

