



A Modern Day Eden

Marie Guyer, Maria Quezada, Xuyuan Li, Alec Basseda, Abdulaziz Al enezi,
Jessica Smusz

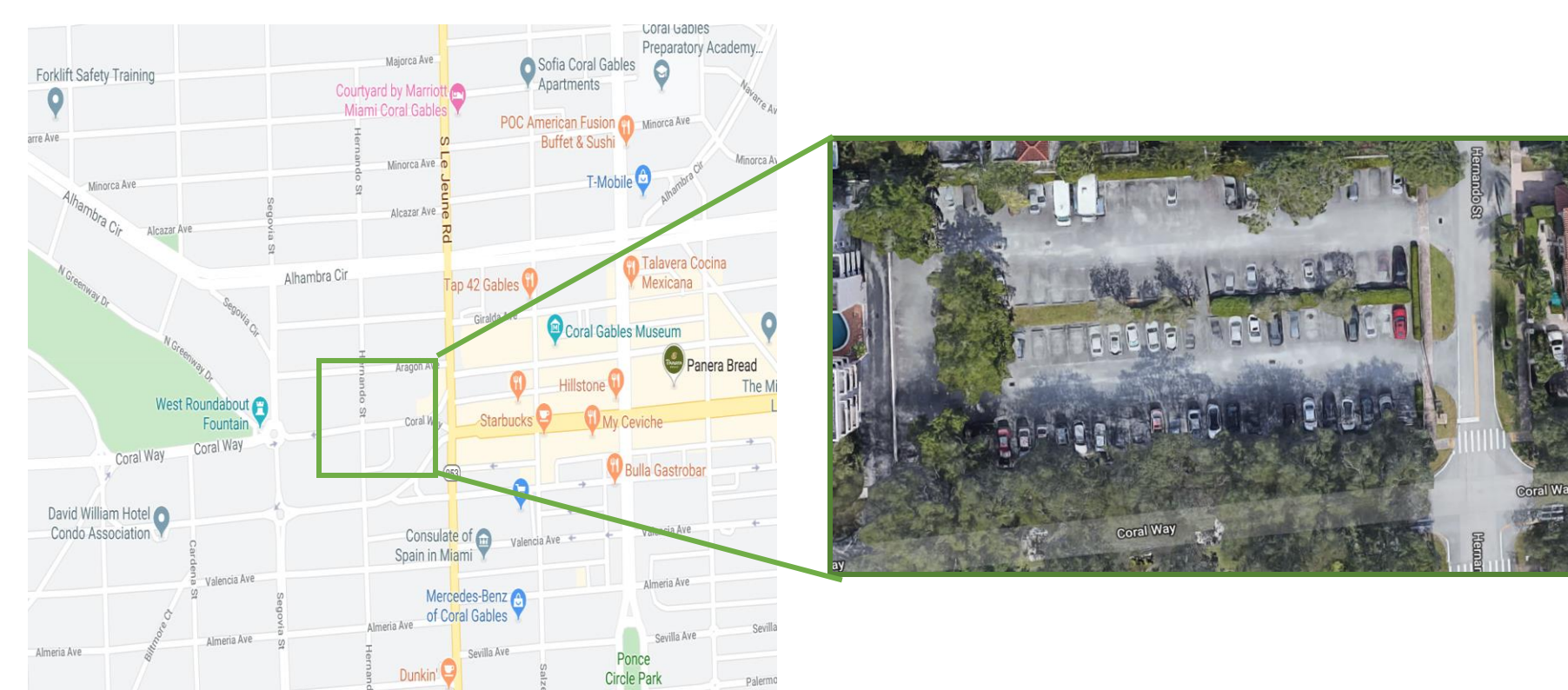
Dr. Esber Andiroglu, Dr. Helena Solo-Gabriele, Dr. Matthew Trussoni

Department of Civil, Architectural, Environmental Engineering



Introduction

EDEN Consulting Engineering was tasked with imagining a purpose for an empty lot in downtown Coral Gables, three blocks from city hall, across from a church, and surrounded by a residential neighborhood.



When deciding on what to design EDEN Consulting looked towards addressing a public need in a (1) sustainable, (2) smart, and (3) holistic way. We were inspired to create a holistic wellness center for the mind, body, and soul, devoted to community engagement and outreach as a way to support the surrounding aging residential community



Design

Biophilic design is achieved through:

- Central courtyard
- Green walls throughout the space
- Southeast facing glass curtain wall for natural light

Sustainable and Smart design is achieved through:

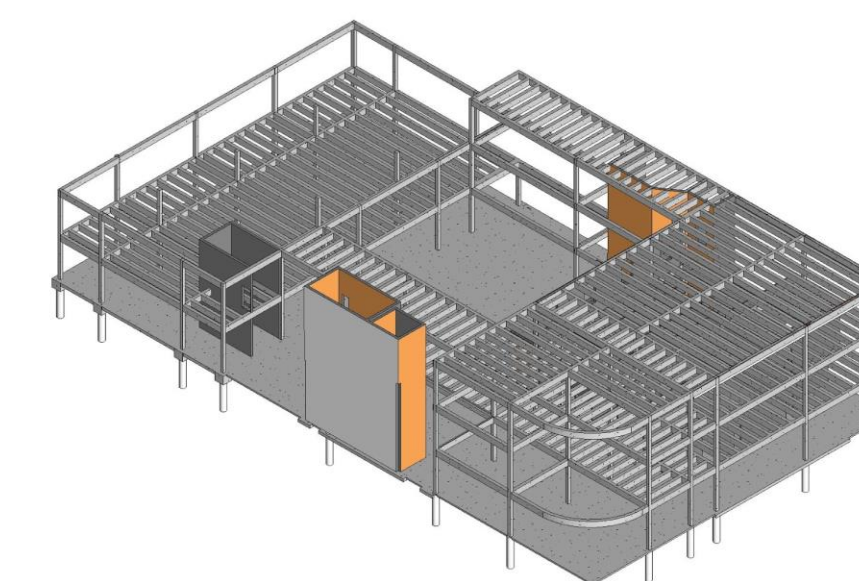
- Rooftop mangrove nursery for local shoreline restoration
- Stormwater collection for rainwater reuse
- SMART Building Sensors to limit utility usage

Community Centric design is achieved through:

- Central courtyard gathering space
- Free weekend community health/nutrition classes
- Hurricane shelter for emergency



Results



Acknowledgements

Jose Acosta and Patrick Kaimrajh - Chen Moore and Associates



References

FBC 2017, ACI 318-14, ASHRAE 90.1, FDOT 2019 Design Manual, Coral Gables Zoning and Planning

