

FESC Outreach: Experience & Opportunities

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Program for Resource Efficient Communities



Program for Resource Efficient Communities

We promote application of design, construction and management practices that minimize environmental degradation and make more efficient use of energy, water and other natural resources in Florida's built environment and communities.



FESC Outreach

Experience

- Fact Sheets
- Sustainable Floridians
- Others...





HOME

INTERACTIVE TOUR

YOUR PROFILE

YOUR PLAN

FIND HELP

**INTERACT, PLAN,
FIND SUPPORT
& SAVE**

START THE TOUR



STEP 1:
INTERACT WITH US



STEP 2:
CREATE YOUR PLAN



STEP 3:
FIND HELPFUL SUPPORT



Get Loan Pre-Approval at FAIRWINDS Credit Union



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How To: Insulate Your Attic



Introduction

Heat flows from warm areas to cool areas. In Florida, this often means heat is flowing from a warm outdoors to an air-conditioned indoors. On winter days, heat flows from a warm inside to a cold outside. Insulation can reduce the amount of heat that flows, reducing cooling and heating costs.

Insulation is rated in terms of its thermal resistance. This resistance, or R-value, refers to the performance of insulation by measuring the resistance to heat flowing through the insulation over time. An insulation with greater resistance (higher R-value) to heat flow means that less heat enters your home during warm months and less heat leaves your home in the cool months, when you are heating the interior space.

Find Contractors by Improvement Services

Select Category ▾

Find Contractors by License Type

About Appliances and Electronics Better Living Comfort and Space Conditioning (HVAC) Forms https://feel.buildgreen.ufl.edu/wp-admin/edit.php?post_type=feel_qis#inline-edit

Incentives [Lighting Packages](#)

Performance Evaluation PIC

Specs Water Heating Weatherization of Building Envelope

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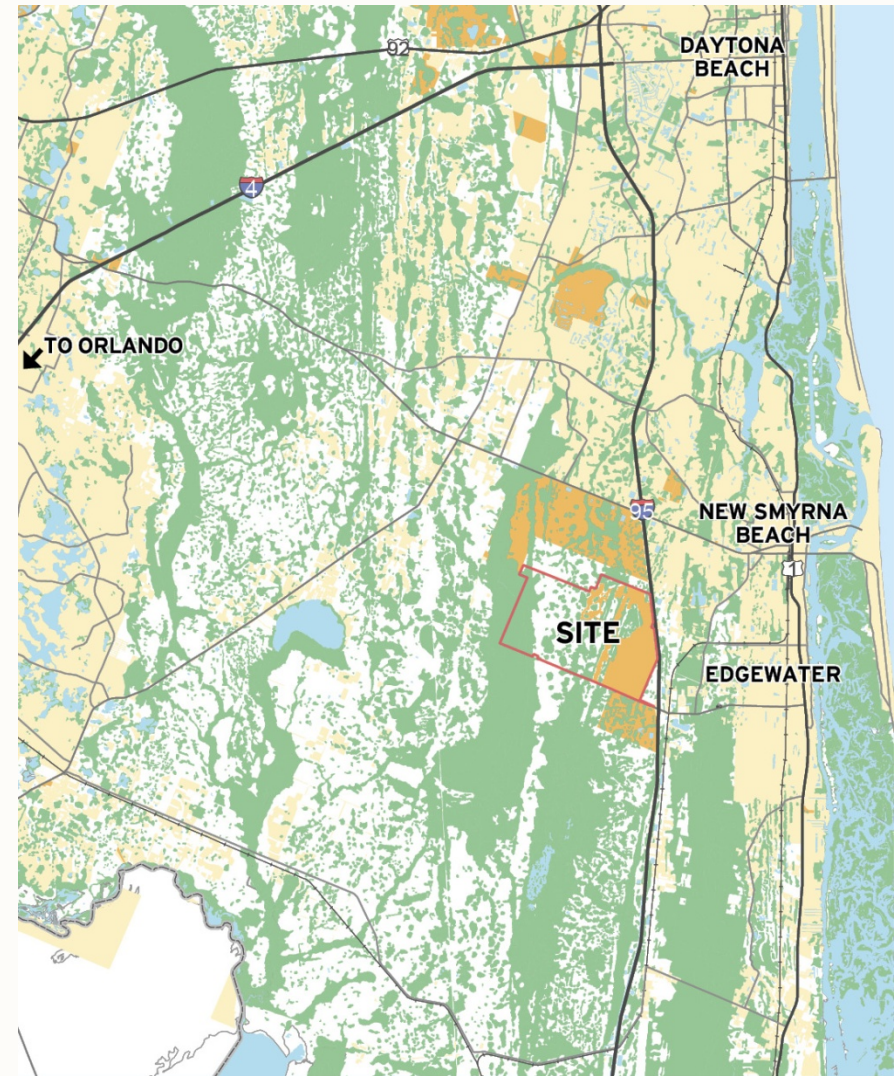
Opportunities – Quantifying Impacts

- Land Development
- Local Governments
- Others...



Restoration Case Study

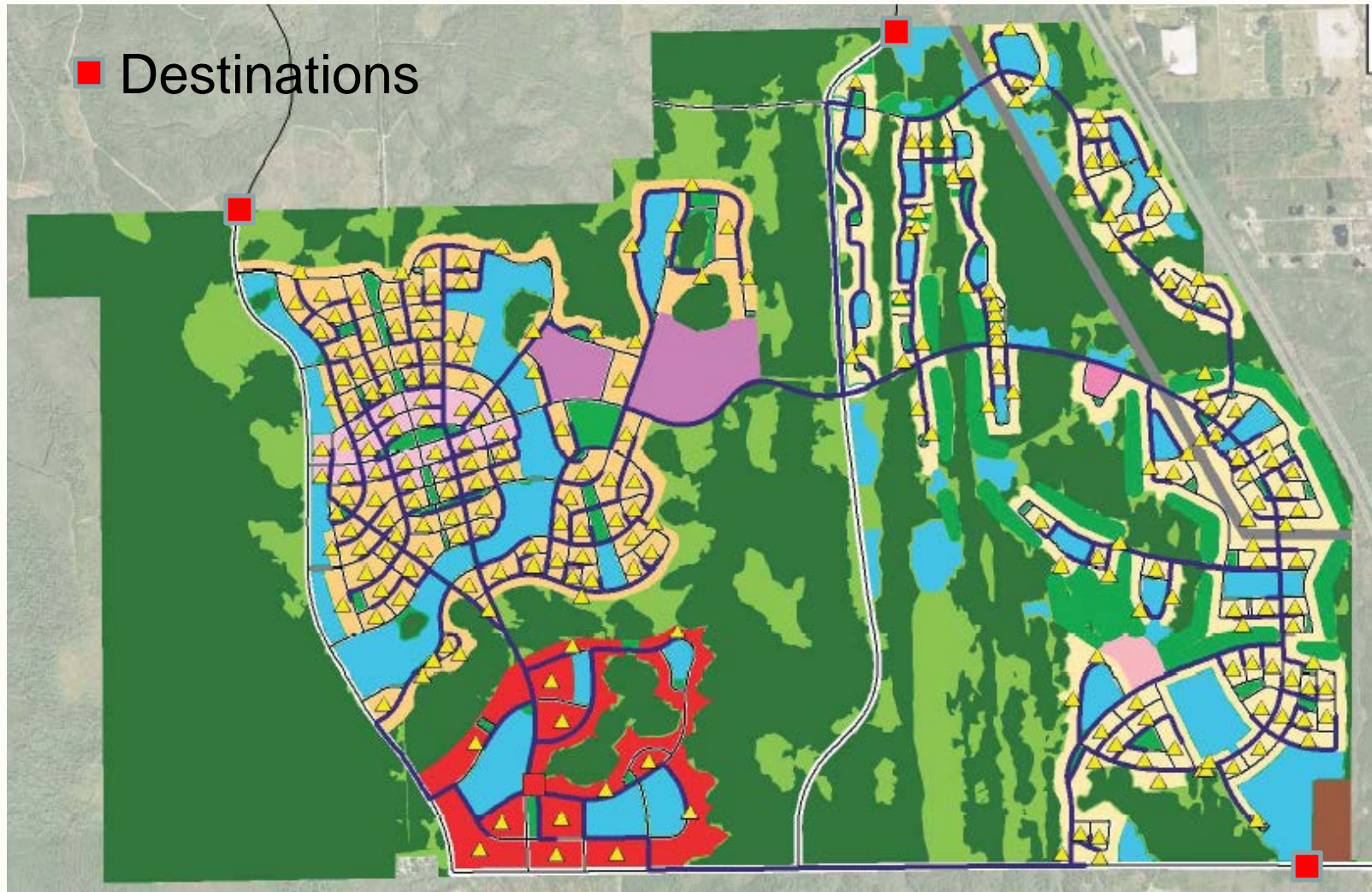
- This 5,187-acre master plan evolved significantly over its 4-year permitting process.
- Designs were for 8,500 dwelling units.
- It was fully entitled earlier this summer based on the 2009 design.
- Restoration is entitled to create a mixed-use, transit oriented community with 3.5 million ft² of commercial space.



Restoration 2006 Design

VMT Analysis

CMIN ASSOCIATES
urban planning • landscape architecture • architectural design



Restoration 2009 Design

VMT Analysis

CMIN ASSOCIATES
urban planning • landscape architecture • architectural design

■ Destinations



Restoration's Two Designs: Transportation

VMT Analysis

Inputs

	2006 Plan	2009 Plan
• Trips:	68,000	68,000
• Internal trip length, miles	1.75	0.38
• Onsite trip capture	20%	50%
• Total daily travel, miles	594,000	349,000
• Gasoline, gallons/day	29,254	17,216

GHG Emissions

• Mtons CO ₂ e/yr	98,900	58,200
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Metric tons CO₂e/yr avoided: 40,700

Fuel costs/yr avoided: \$13,000,000

Restoration's Two Designs: Road Infrastructure

Life Cycle Analysis (50 year life)

Inputs

	2006 Plan	2009 Plan
• Miles:	72	39
• Lane miles:	186	103
• Impervious area, ft ²	17,000,000	10,000,000
• Landscaped area, ft ²	6,000,000	3,000,000
• Cost	\$383,623,680	\$238,180,800

GHG Emissions

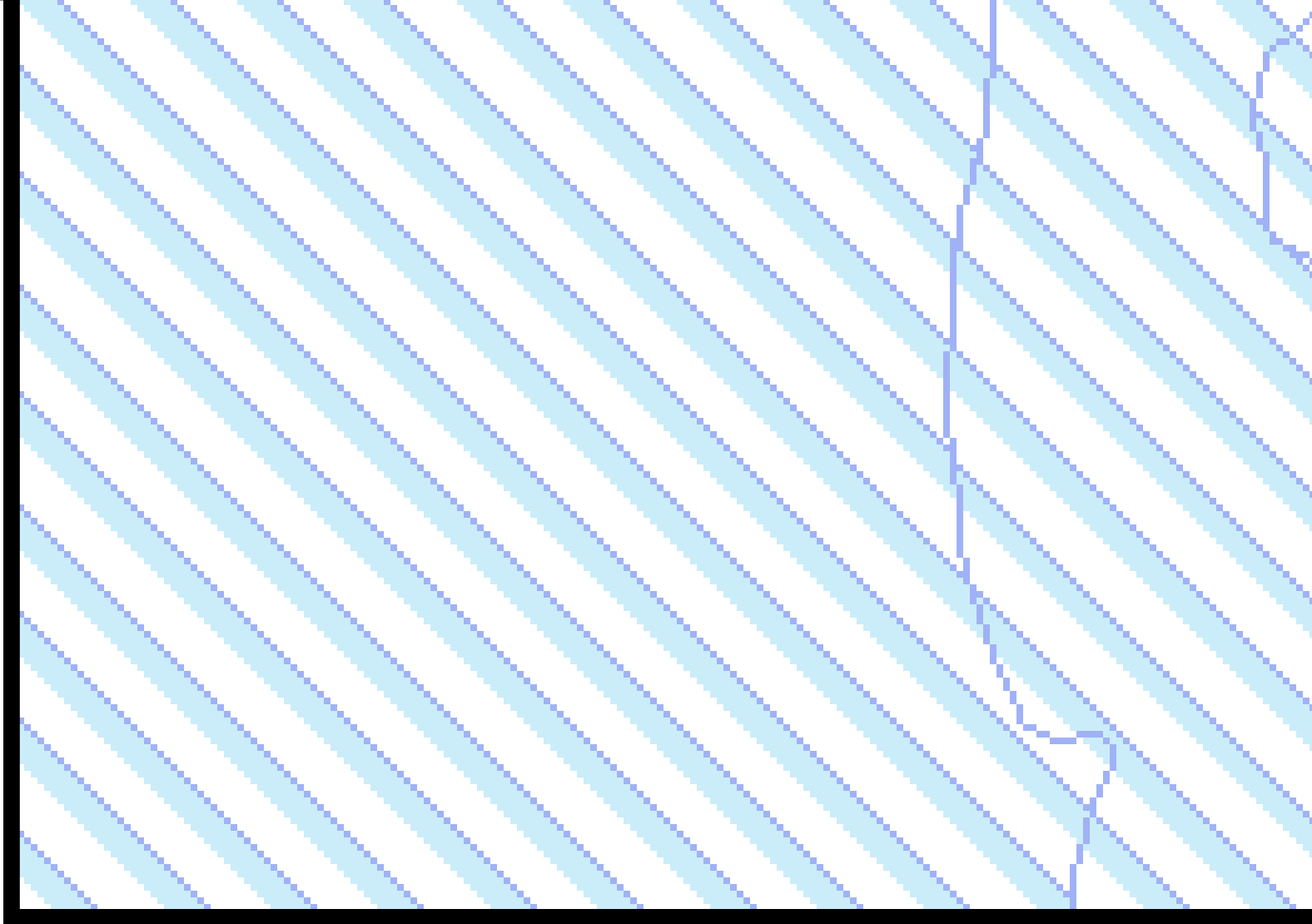
• Mtons CO ₂ e/yr:	13,031	7,176
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Metric tons CO₂e/yr avoided: 5,855

Initial costs avoided: \$145,442,880

Manatee County: Mapping Infrastructure Intensity





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Opportunities – Quantifying Impacts

- Plum Creek – Envision Alachua (60,000 acres)
- Plum Creek – 121 Project (~2,000 dwelling units)
- Town of Long Boat Key
- Manatee County – How Will We Grow?
- Sarasota County – Fiscal Neutrality
- Others...

