



# Solid Waste and Resource Recovery Facilities and County Road 337 Updates

October 24, 2023




# Prior Board Actions

March 12, 2020 – BoCC Regular Meeting: Approved construction of a new Rural Collection Center and Hazardous Waste Collection Facility

June 28, 2021 – Joint Meeting with City of Newberry: Directed staff to explore the option of locating the solid waste facilities in the Newberry Environmental Park.

July 10, 2023 – Joint Meeting with City of Newberry: Directed staff to continue to work on draft interlocal agreement for the location of both facilities at the Newberry Environmental Park

August 22, 2023 – BoCC Regular Meeting: Directed staff to bring alternative options for the Solid Waste and Resource Recovery facilities and an update on County Road 337. 



# Solid Waste Facilities

**Problem :** Lack of capacity at the Hazardous Collection Facility (Leveda Brown Environmental Park) and the High Springs / Alachua Rural Collection Center.

**Option A :** Close the High Springs / Alachua Rural Collection Center and build new rural collection and hazardous waste collection facilities between High Springs and Newberry. County staff was not able to find a suitable location and is no longer pursuing this option.

**Option B :** Keep High Springs / Alachua Collection Center open and build new rural collection and hazardous waste collection facilities at the Newberry Environmental Park.

**Option C :** Address capacity issues using County owned properties and facilities.



# Hazardous Waste Collection Center

- Build a new Hazardous Collection Center at the EcoLoop
- Recondition existing facility for use as a bulk storage facility for the Transfer Station





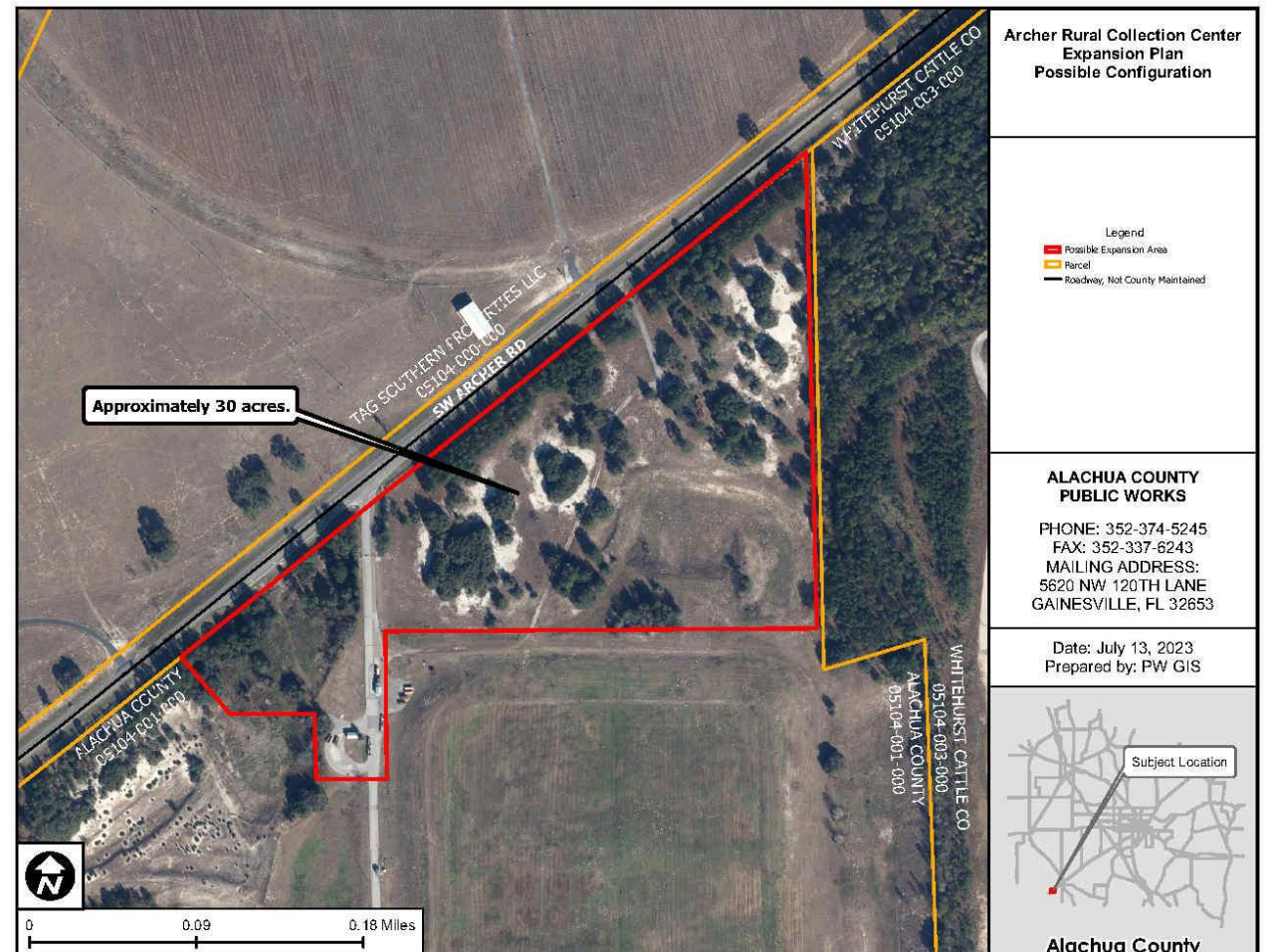
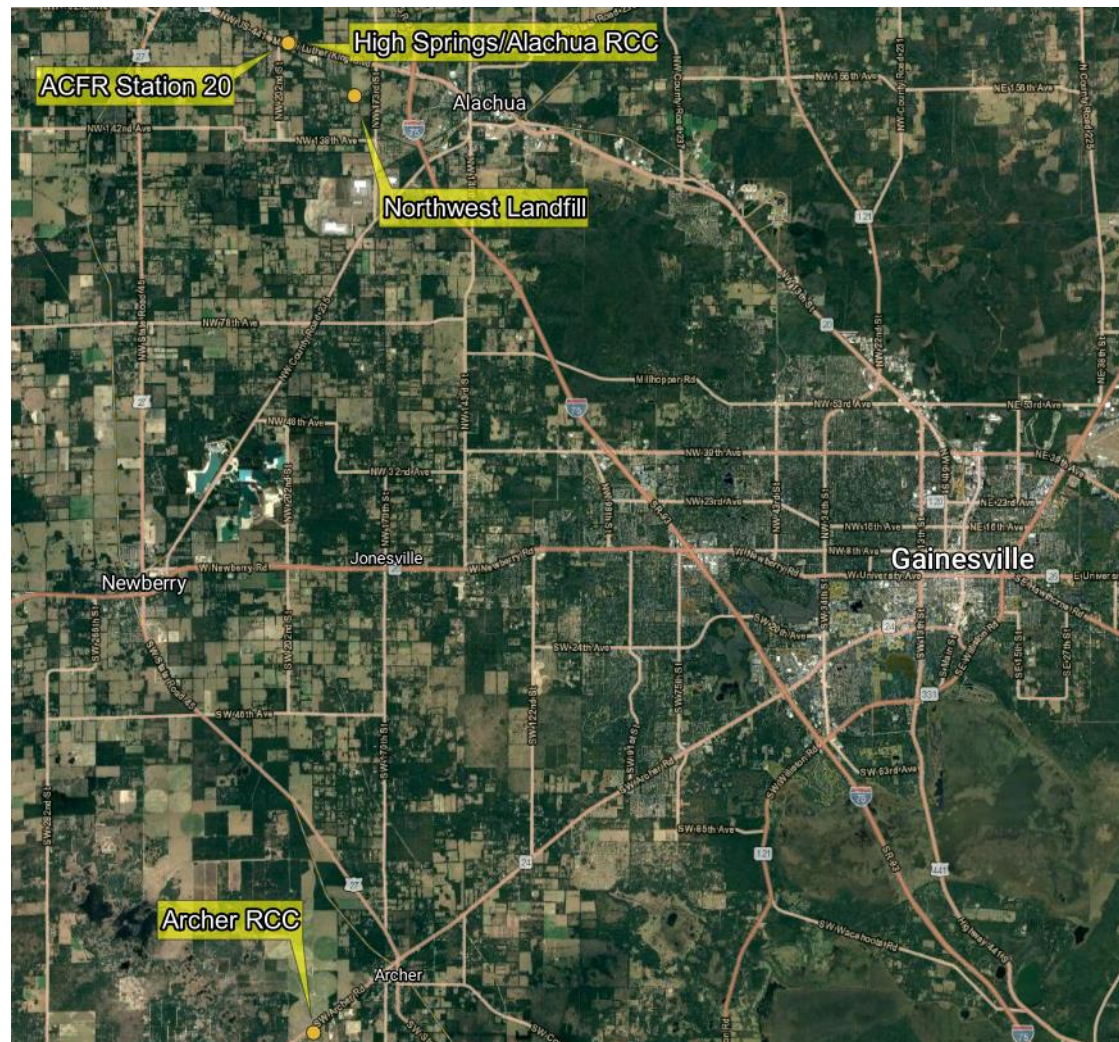
# High Springs / Alachua Rural Collection Center

- Reduce traffic at the High Springs / Alachua rural collection center
- Expand High Springs / Alachua rural collection center





# Archer Rural Collection Center



Expand operations at the Archer rural collection center





# Archer Rural Collection Center



Reuse Areas



Traffic Flow



Construction & Demolition Materials

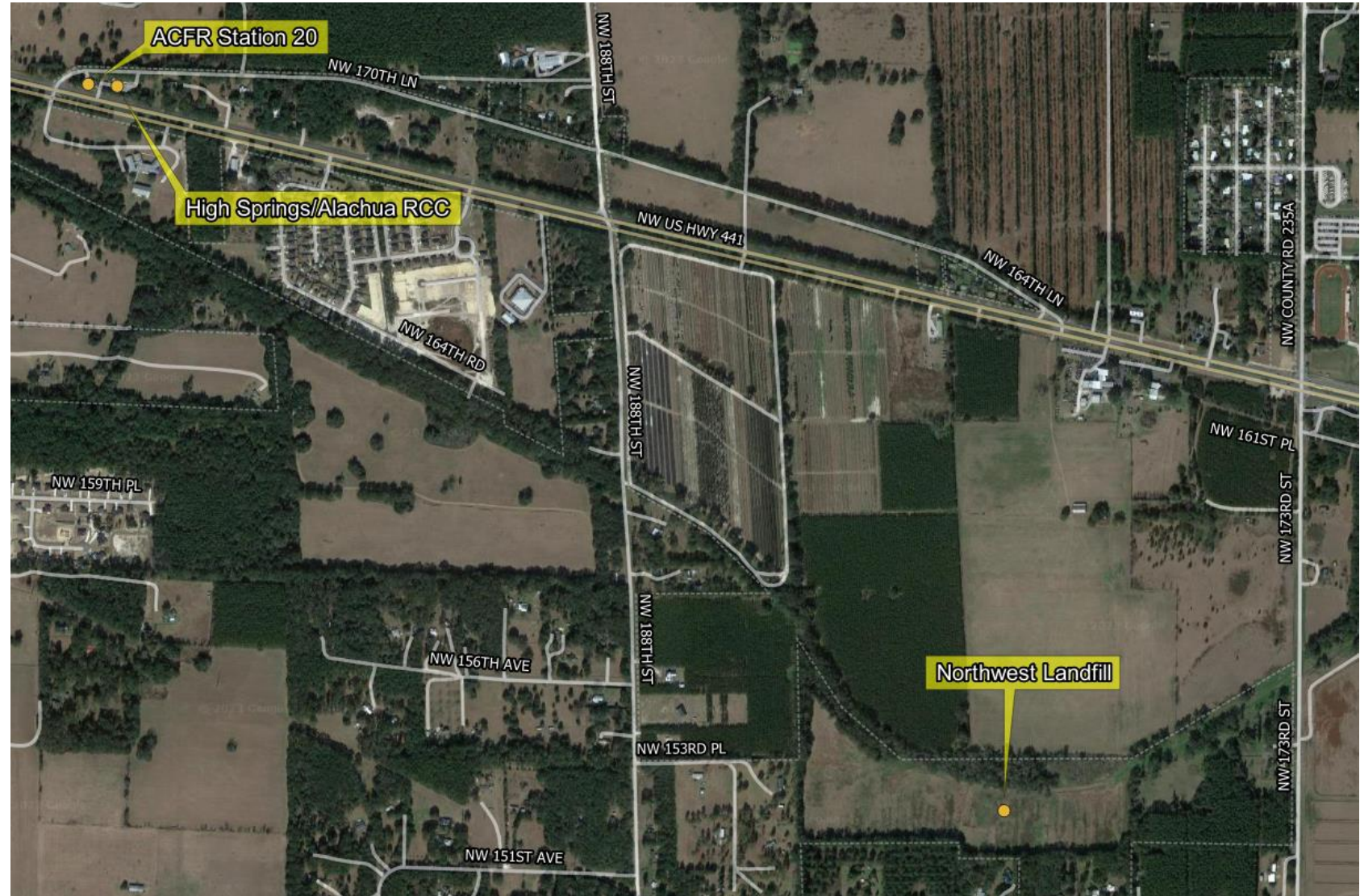




# Northwest Landfill

Temporary Collection of:

- Yard Waste
- Recyclables
- Repurpose of closed landfills





# Expansion of High Springs / Alachua Rural Collection Center



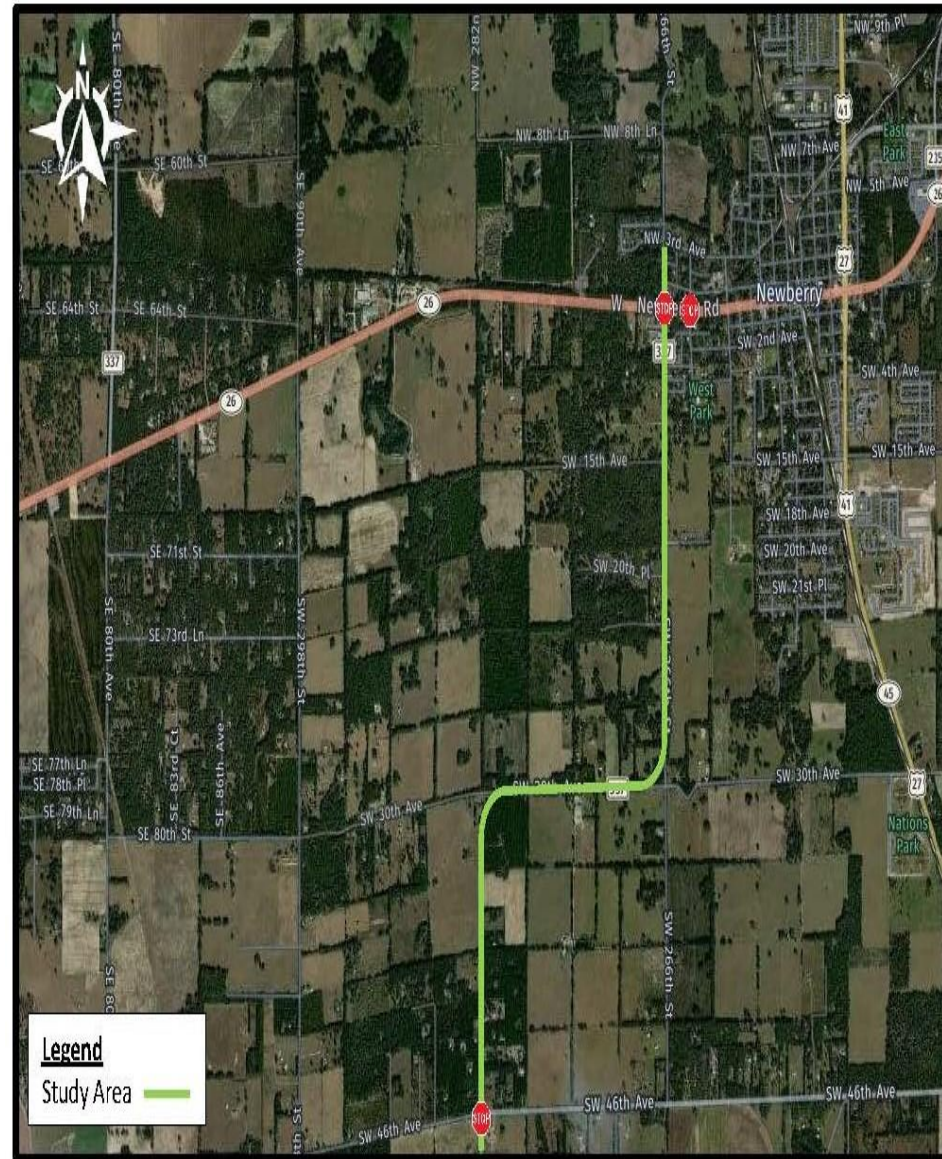
# Staff Recommendation

Direct staff to address existing capacity issues at the Hazardous Collection Facility and the High Springs / Alachua Rural Collection Center using County owned properties and facilities.





**Figure 1: Study Area Map**



# County Road 337 – Crash Data

- Utilized crash data from the University of Florida Signal Four Analytics (UFSFA) crash mapping and analysis system for the 60-month period from January 1, 2018, to December 31, 2022.
  - Twenty-five (25) crashes documented.
    - Two (2) fatal crashes.
      - Dry roadway surface.
      - Drivers were under alcohol/drug influence in both instances.
      - Crashes related to driver impairment due to drugs and/or alcohol are not considered correctable through the introduction of safety countermeasures.
- Based on the safety analysis,
  - 7 additional correctable crashes are anticipated to occur by 2035 under the No Build condition.
  - Thirteen (13) crashes are anticipated to occur in 2035 under the Build condition.
    - This increase is due to the increase in traffic due to the development.

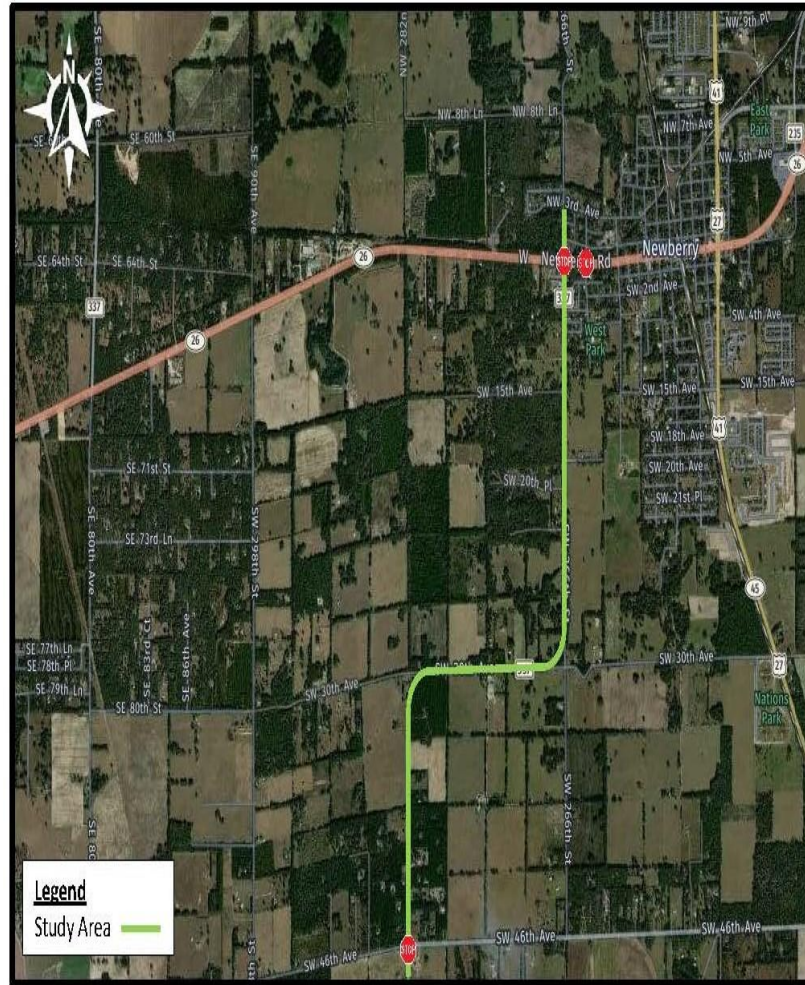




# County Road 337 – Considered Improvements

## Scenario 1 - Widening the roadway to 22 feet (11-foot lane in each direction)

Figure 1: Study Area Map



# County Road 337 – Considered Improvements

## Scenario 2 - Scenario 1 while also eliminating the curves by converting each to all-way stop-controlled intersections

Figure 7: Scenario 2 - Curve Re-alignment at SW 30<sup>th</sup> Ave and SW 266<sup>th</sup> St



Figure 8: Scenario 2 - Curve Re-alignment at SW 30<sup>th</sup> Ave





# County Road 337 – Considered Improvements

**Scenario 3 - Scenario 1 while increasing the radius and superelevation of the curves to accommodate a 50 MPH design speed**

**Figure 9: Scenario 3 - Curve Re-alignment**



# County Road 337 – Considered Improvements

## Scenario 3 - Scenario 1 while increasing the radius and superelevation of the curves to accommodate a 50 MPH design speed

Table 27: Improvement Cost – Build Condition

| Scenarios   | 2023 Improvement Cost | 2035 Improvement Cost | Benefit from Crash Reduction | B/C Ratio |
|-------------|-----------------------|-----------------------|------------------------------|-----------|
| Scenario 1  | \$ 4,995,500.00       | \$ 7,122,389.00       | \$ 3,656,484.00              | 0.51      |
| Scenario 2* | \$ 6,995,800.00*      | \$ 9,974,338.00*      | \$ 9,544,284.00              | 0.96*     |
| Scenario 3* | \$ 11,514,900.00*     | \$ 16,417,494.00*     | \$ 9,544,284.00              | 0.58*     |

\*Cost of R/W acquisition not included





# Staff Recommendation

Maintain the improvements on CR 337 as approved in the Transportation Capital Improvement Program

| PMP Road No. | Project Description                    | From      | - | To                            | Treatment          | Construction Year | Estimated Cost |
|--------------|--|-----------|---|-------------------------------|--------------------|-------------------|----------------|
| 651552       | SW 266 St/SW 282 St/SW 30 Ave (CR 337) | SW 46 Ave | - | SW 127 Ave (Levy County Line) | SE - Rehab (Major) | 2030              | \$13,030,938   |
| 651551       | SW 266 St/SW 282 St/SW 30 Ave (CR 337) | SR 26     | - | SW 46 Ave                     | SE - Rehab (Major) | 2031              | \$ 9,057,372   |



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