

# Tower Road Enhancement Project Alachua County Roadway Network Enhancements

*Prepared for Alachua County Public Works  
By Causseaux & Ellington, Inc.*



---

---

---

---

---

---

---

---

## Presentation Topics

- Tower Road Design Criteria
- Tower Road Analysis
- Tower Road Recommendation
- Area Network Analysis
- Area Network Recommendations
- Questions and Answers



---

---

---

---

---

---

---

---

The Project Team requests that the Alachua County Board of County Commissioners:

1. Review and provide comments for the Tower Road 60% Plans
2. Authorize Staff to proceed with Tower Road Final Design
3. Authorize Staff to proceed with a contract to conduct a preliminary engineering study and engineering plans for the proposed Network Enhancements
4. Direct Staff to develop funding options for the construction of Tower Road and the Network Enhancements in the Tower Road area
5. Direct Staff to work with MTPO Staff to develop funding for the construction of Tower Road and the Network Enhancements in the Tower Road area



---

---

---

---

---

---

---

---

## Tower Road Objective

Through design and analysis, the Tower Road Project Team has determined that the scenario containing 9 roundabouts is the best option for Tower Road.

This presentation explains the design, analysis, and process by which the team determined the recommended design option.



---

---

---

---

---

---

---

---

## Alachua County Roadway Network Enhancements

Goals, in accordance with Alachua County Comprehensive Plan:

- Improve traffic operations and LOS
- Provide multi-modal facilities
- Provide traffic calming
- Provide enhancements including landscaping



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

## Tower Road Enhancement Project

Sources of Tower Road design criteria:



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

**Tower Road/SW 24<sup>th</sup> Avenue Design Charrette**

- Two travel lanes
- Median
- In-street bicycle lanes
- Wide sidewalks
- Roundabouts at many intersections
- Reduced speeds
- Enhanced safety
- Traffic calming
- Landscaping with shade trees and underground utilities



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

**Alachua County Comprehensive Plan, April 8, 2002**

**Transportation Mobility**

- Policy 1.1.2 – minimum LOS D
- Policy 1.1.3.1 – ensure structural integrity and volume capacity; take into account requirements for fire-fighting and other emergency vehicle access
- Policy 1.1.5 – Alachua County accepts recommendations of the Tower Road Charrette as a basis for capital improvements; additional analysis shall be required



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

**Alachua County Comprehensive Plan, April 8, 2002**

- Policy 1.4.2 – eliminate traffic conflicts with bicyclists and pedestrians; access management
- Policy 1.6.2 – auto and non-auto modes of transportation equitably served; calm automobile traffic; provide pleasant pedestrian environment

**Potable Water and Sanitary Sewer**

- Objective 6 – encourage the maximum utilization of reclaimed water to the greatest extent possible



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

**MTPO Urban Design Policy**

- Bike lanes
- Planting of trees in medians and between curb and sidewalk; for major road construction or reconstruction projects
- 2/3 of trees planted shall be shade trees
- Landscaping and sculpting of stormwater retention / detention basins
- Crosswalks with brick texture and hue



GOALS

DESIGN

ANALYSIS



10

---

---

---

---

---

---

---

---

**Florida Greenbook**

- 11' minimum lane width
- 15.5' minimum median width for urban streets
- Consider bike lanes for all urban arterial and collector roadway sections; minimum 4' wide
- Apply appropriate traffic calming measures as warranted



GOALS

DESIGN

ANALYSIS



11

---

---

---

---

---

---

---

---

**Alachua County Corridor Design Manual**

- Minimum LOS D
- Traffic calming
- Access management
- Medians
- Sidewalks
- Bike lanes
- Planting strip and shade trees
- Lighting



GOALS

DESIGN

ANALYSIS



12

---

---

---

---

---

---

---

---

### Alachua County Commission Design Directives

Roundabouts constructed at the following intersections:

- SW 8<sup>th</sup> Avenue
- SW 13<sup>th</sup> Road / Martha Manson Drive
- SW 42<sup>nd</sup> Avenue / SW 41<sup>st</sup> Place
- Additional intersections along Tower Road (and SW 24<sup>th</sup> Avenue) as future conditions warrant

Technical specifications and standards for roundabout design, including details on signage, lighting, and construction materials.



GOALS

DESIGN

ANALYSIS



13

---

---

---

---

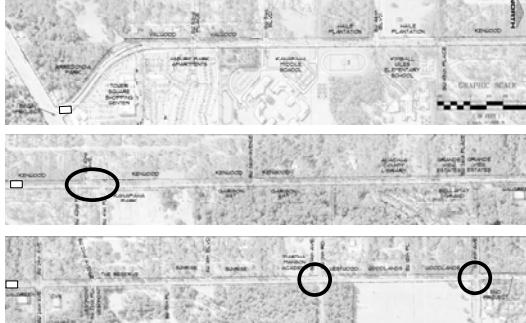
---

---

---

---

### Roundabout Intersections (Design Directives)



GOALS

DESIGN

ANALYSIS



14

---

---

---

---

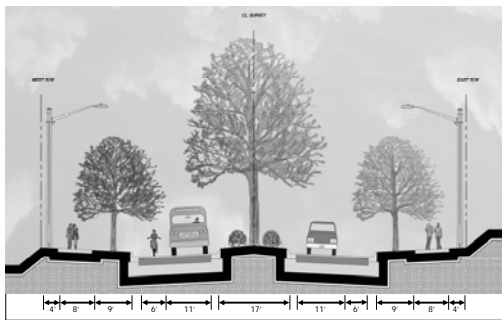
---

---

---

---

### Alachua County Commission Design Directives



GOALS

DESIGN

ANALYSIS



15

---

---

---

---

---

---

---

---



### Tower Road Analysis

- HCS – analyzes each intersection independently of the others
- aaSIDRA – analyzes each intersection independently of others
- VISSIM – analyzes the intersections as a continuous corridor (does one intersection influence another?)



GOALS

DESIGN

ANALYSIS



19

---

---

---

---

---

---

---

---

### Tower Road Analysis

- Analysis results
  - Two way stop control – causing long delays and poor LOS
  - Two way stop control with median – minimal improvement over two way stop control
  - Signals – existing signals and 41<sup>st</sup> Place
  - Roundabouts – reduce delays and improve LOS



GOALS

DESIGN

ANALYSIS



20

---

---

---

---

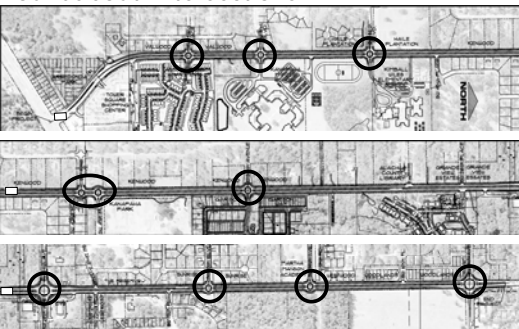
---

---

---

---

### Roundabout Intersections



GOALS

DESIGN

ANALYSIS



21

---

---

---

---

---

---

---

---

### Tower Road Analysis

The Project Team analyzed various design scenarios to model the 2025 design year traffic projections:

- No Build
- Build Option #1 (3 roundabouts)
- Build Option #2 (9 roundabouts)



GOALS

DESIGN

ANALYSIS



22

---

---

---

---

---

---

---

---

---

---

### Tower Road Analysis

No Build

- Existing geometry
- No roundabouts
- Signal timing adjusted



GOALS

DESIGN

ANALYSIS



23

---

---

---

---

---

---

---

---

---

---

### Tower Road Analysis *Data Results*

No Build Summary:

- Five intersections below LOS D for AM Peak
- Seven intersections below LOS D for PM Peak
- Long delays on side streets

Intersection:	2025 No Build			
	AM Peak		PM Peak	
	LOS	Delay Time (sec/veh)	LOS	Delay Time (sec/veh)
SW 8 <sup>th</sup> Avenue *	C	23	D	39
SW 13 <sup>th</sup> Road	E	37	F	>50
Oak Hall School	F	>50	F	>50
SW 18 <sup>th</sup> Blvd.	F	>50	F	>50
SW 19 <sup>th</sup> Place	C	23	C	21
SW 24 <sup>th</sup> Avenue *	D	45	E	69
SW 36 <sup>th</sup> Avenue	-	-	-	-
SW 41 <sup>st</sup> Place	D	27	F	>50
SW 42 <sup>nd</sup> Avenue / SW 42 <sup>nd</sup> Place	C	16	C	25
SW 46 <sup>th</sup> Blvd. *	C	30	C	28
SW 51 <sup>st</sup> Blvd.	E	46	F	>50
SW 53 <sup>rd</sup> Place	F	>50	F	>50

\* Denotes signalized intersection



GOALS

DESIGN

ANALYSIS



24

---

---

---

---

---

---

---

---


---

---


**Tower Road Analysis**  
*VISSIM Results: No Build*

**SW 8<sup>th</sup> Avenue**

AM Peak: LOS C  
 PM Peak: LOS D



25

GOALS DESIGN ANALYSIS 

---

---

---

---

---

---

---


---

**Tower Road Analysis**  
*VISSIM Results: No Build*


**SW 13<sup>th</sup> Road/14<sup>th</sup> Avenue**

SW 13<sup>th</sup> Road  
 AM Peak: LOS E  
 PM Peak: LOS F

SW 14<sup>th</sup> Avenue  
 AM Peak: LOS F  
 PM Peak: LOS F



26

GOALS DESIGN ANALYSIS 

---

---

---

---

---

---

---


---

**Tower Road Analysis**  
*VISSIM Results: No Build*


**SW 18<sup>th</sup> Blvd. / 19<sup>th</sup> Place**

SW 18<sup>th</sup> Boulevard  
 AM Peak: LOS F  
 PM Peak: LOS F

SW 19<sup>th</sup> Place  
 AM Peak: LOS C  
 PM Peak: LOS C



27

GOALS DESIGN ANALYSIS 

---

---

---

---

---

---


---

---

Tower Road Analysis  
*VISSIM Results: No Build*

SW 24<sup>th</sup> Avenue

AM Peak: LOS D  
 PM Peak: LOS E



28

GOALS DESIGN ANALYSIS

---

---

---

---

---

---

---


---

Tower Road Analysis  
*VISSIM Results: No Build*

SW 41<sup>st</sup> Place/42<sup>nd</sup> Avenue

SW 41<sup>st</sup> Place  
 AM Peak: LOS D  
 PM Peak: LOS F

SW 42<sup>nd</sup> Avenue  
 AM Peak: LOS C  
 PM Peak: LOS C



29

GOALS DESIGN ANALYSIS

---

---

---

---

---

---


---

---

Tower Road Analysis  
*VISSIM Results: No Build*

SW 46<sup>th</sup> Boulevard

AM Peak: LOS C  
 PM Peak: LOS C



30

GOALS DESIGN ANALYSIS

---

---

---

---

---

---


---

---

Tower Road Analysis  
*VISSIM Results: No Build*

SW 51<sup>st</sup> Boulevard

AM Peak: LOS E  
 PM Peak: LOS F



31

GOALS DESIGN ANALYSIS

---

---

---

---

---

---


---

---

Tower Road Analysis  
*VISSIM Results: No Build*

SW 53<sup>rd</sup> Boulevard

AM Peak: LOS F  
 PM Peak: LOS F



32

GOALS DESIGN ANALYSIS

---

---

---

---

---

---

---

---

Tower Road Analysis: No Build Summary

- Two travel lanes
- Median
- In-street bicycle lanes
- Wide sidewalks
- Landscaping with shade trees
- Enhanced safety
- Three roundabouts plus future warranted
- Traffic calming throughout project
- Minimum LOS D

33

GOALS DESIGN ANALYSIS

---

---

---

---

---

---

---

---

### Tower Road Analysis

#### Build Option #1 – 3 roundabouts

- SW 8<sup>th</sup> Avenue
- SW 14<sup>th</sup> Avenue (Oak Hall School)
- SW 42<sup>nd</sup> Avenue / 41<sup>st</sup> Place



GOALS

DESIGN

ANALYSIS



34

---

---

---

---

---

---

---

---

---

---

### Tower Road Analysis *Data Results*

#### Build Option #1:

- 7 of 10 intersections above LOS D for AM Peak
- 6 of 10 intersections above LOS D for PM Peak
- Delays for side streets are longer than for No Build

Intersection:	2025 Build Option #1			
	AM Peak		PM Peak	
	LOS	Delay Time (sec/veh)	LOS	Delay Time (sec/veh)
SW 8 <sup>th</sup> Avenue *	B	13	C	24
SW 13 <sup>th</sup> Road	-	-	-	-
Oak Hall School *	B	10	B	11
SW 18 <sup>th</sup> Blvd.	F	>50	F	>50
SW 19 <sup>th</sup> Place	D	31	C	17
SW 24 <sup>th</sup> Avenue *	D	48	E	75
SW 36 <sup>th</sup> Avenue	-	-	-	-
SW 41 <sup>st</sup> Place *	A	7	C	16
SW 42 <sup>nd</sup> Avenue *	A	5	A	8
SW 46 <sup>th</sup> Blvd. *	C	26	C	31
SW 51 <sup>st</sup> Blvd.	F	>50	F	>50
SW 53 <sup>rd</sup> Place	F	>50	F	>50

\* Denotes signalized intersection  
 \* Denotes roundabout intersection



GOALS

DESIGN

ANALYSIS



35

---

---

---

---

---

---

---

---

---

---

### Tower Road Analysis *VISSIM Results: Option #1* SW 8<sup>th</sup> Avenue



GOALS

DESIGN

ANALYSIS



36

---

---

---

---

---

---



---

---

---

---

Tower Road Analysis  
*VISSIM Results*  
 SW 8<sup>th</sup> Avenue

No Build	Roundabout
	
AM Peak: LOS C PM Peak: LOS D	AM Peak: LOS B PM Peak: LOS C

GOALS      DESIGN      ANALYSIS

---

---

---

---

---

---


---

---

---

---

Tower Road Analysis  
*VISSIM Results: Option #1*  
 SW 13<sup>th</sup> Road/SW 14<sup>th</sup> Avenue



GOALS      DESIGN      ANALYSIS

---

---

---

---

---

---



---

---

---

---

Tower Road Analysis  
*VISSIM Results*  
 SW 13<sup>th</sup> Road/SW 14<sup>th</sup> Avenue

No Build	Roundabout
	
AM Peak: LOS F PM Peak: LOS F	AM Peak: LOS B PM Peak: LOS B

GOALS      DESIGN      ANALYSIS

---

---

---

---

---

---


---

---

---

---

Tower Road Analysis  
*VISSIM Results: Option #1*  
 SW 41<sup>st</sup> Place/SW 42<sup>nd</sup> Avenue



40

GOALS DESIGN ANALYSIS

---

---

---

---

---

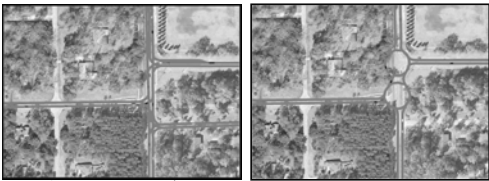
---

---

---

Tower Road Analysis  
*VISSIM Results*  
 SW 41<sup>st</sup> Place/SW 42<sup>nd</sup> Avenue

No Build      Roundabout



SW 41 <sup>st</sup> Place	SW 42 <sup>nd</sup> Avenue	SW 41 <sup>st</sup> Place	SW 42 <sup>nd</sup> Avenue
AM Peak: LOS D	AM Peak: LOS C	AM Peak: LOS A	AM Peak: LOS A
PM Peak: LOS F	PM Peak: LOS C	PM Peak: LOS C	PM Peak: LOS A

41

GOALS DESIGN ANALYSIS

---

---

---

---

---

---

---

---

Tower Road Analysis: Option 1 Summary

- Two travel lanes
- Median
- In-street bicycle lanes
- Wide sidewalks
- Landscaping with shade trees
- Enhanced safety
- Three roundabouts plus future warranted
- Traffic calming throughout project
- Minimum LOS D

42

GOALS DESIGN ANALYSIS

---

---

---

---

---

---

---

---

Tower Road Analysis  
*Data Results*

Build Option #2 – 9 roundabouts

1. SW 8<sup>th</sup> Avenue
2. SW 13<sup>th</sup> Road / Oak Hall School Drive
3. SW 18<sup>th</sup> Blvd.
4. SW 24<sup>th</sup> Avenue
5. SW 36<sup>th</sup> Avenue
6. SW 42<sup>nd</sup> Avenue / SW 41<sup>st</sup> Place
7. SW 46<sup>th</sup> Blvd. (Haile Blvd.)
8. SW 51<sup>st</sup> Blvd.
9. SW 53<sup>rd</sup> Place



GOALS

DESIGN

ANALYSIS



43

---

---

---

---

---

---

---

---

---

---

Tower Road Analysis  
*Data Results*

Build Option #2:

- 10 of 10 intersections at LOS D or better, AM and PM
- Decreased delays for side streets and Tower Road

Intersection:	2025 Build Option #2			
	AM Peak		PM Peak	
	LOS	Delay Time (sec/veh)	LOS	Delay Time (sec/veh)
SW 8 <sup>th</sup> Avenue *	C	16	C	24
SW 13 <sup>th</sup> Road	-	-	-	-
Oak Hall School *	A	10	A	9
SW 18 <sup>th</sup> Blvd. *	A	3	A	7
SW 19 <sup>th</sup> Place	B	13	C	21
SW 24 <sup>th</sup> Avenue *	D	29	D	35
SW 36 <sup>th</sup> Avenue *	-	-	-	-
SW 41 <sup>st</sup> Place *	A	4	A	9
SW 42 <sup>nd</sup> Avenue *	A	3	A	8
SW 46 <sup>th</sup> Blvd. *	C	17	C	19
SW 51 <sup>st</sup> Blvd. *	A	4	B	11
SW 53 <sup>rd</sup> Place *	A	5	B	11

\* Denotes roundabout



GOALS

DESIGN

ANALYSIS



44

---

---

---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results: Option #2*

SW 8<sup>th</sup> Avenue

AM Peak: LOS C  
 PM Peak: LOS C



GOALS

DESIGN

ANALYSIS



45

---

---

---

---

---

---

---


---

---

---

Tower Road Analysis  
*VISSIM Results: Option #2*  
 SW 13<sup>th</sup> Road / 14<sup>th</sup> Avenue

AM Peak: LOS A  
 PM Peak: LOS A



46

GOALS DESIGN ANALYSIS

---

---

---

---


---

---

---

---

Tower Road Analysis  
*VISSIM Results: Option #2*  
 SW 18<sup>th</sup> Blvd. / SW 19<sup>th</sup> Place



47

GOALS DESIGN ANALYSIS

---

---

---

---

---

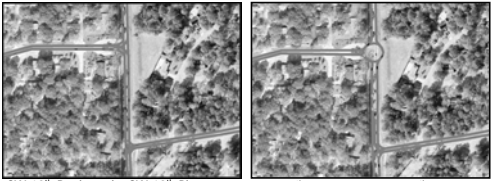
---

---

---

Tower Road Analysis  
*VISSIM Results*  
 SW 18<sup>th</sup> Boulevard / SW 19<sup>th</sup> Place

No Build      Roundabout



SW 18<sup>th</sup> Boulevard    SW 19<sup>th</sup> Place    SW 18<sup>th</sup> Boulevard    SW 19<sup>th</sup> Place

AM Peak: LOS F    AM Peak: LOS C    AM Peak: LOS A    AM Peak: LOS B

PM Peak: LOS F    PM Peak: LOS C    PM Peak: LOS A    PM Peak: LOS C

48

GOALS DESIGN ANALYSIS

---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results: Option #2*  
SW 24<sup>th</sup> Avenue



49



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results*  
SW 24<sup>th</sup> Avenue

No Build

Roundabout



AM Peak: LOS D  
PM Peak: LOS E



AM Peak: LOS D  
PM Peak: LOS D

50



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results: Option #2*

SW 41<sup>st</sup> Place/ 42<sup>nd</sup> Avenue

SW 41<sup>st</sup> Place  
AM Peak: LOS A  
PM Peak: LOS A

SW 42<sup>nd</sup> Avenue  
AM Peak: LOS A  
PM Peak: LOS A



51



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results: Option #2*  
SW 46<sup>th</sup> Boulevard



52



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results*  
SW 46<sup>th</sup> Boulevard

No Build

Roundabout



AM Peak: LOS C  
PM Peak: LOS C



AM Peak: LOS C  
PM Peak: LOS C

53



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results: Option #2*  
SW 51<sup>st</sup> Boulevard



54



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results*  
SW 51<sup>st</sup> Boulevard

No Build

Roundabout



AM Peak: LOS E  
PM Peak: LOS F

AM Peak: LOS A  
PM Peak: LOS B



GOALS

DESIGN

ANALYSIS



55

---

---

---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results: Option #2*  
SW 53<sup>rd</sup> Boulevard



GOALS

DESIGN

ANALYSIS



56

---

---

---

---

---

---

---

---

---

---

Tower Road Analysis  
*VISSIM Results*  
SW 53<sup>rd</sup> Boulevard

No Build

Roundabout



AM Peak: LOS F  
PM Peak: LOS F

AM Peak: LOS A  
PM Peak: LOS B



GOALS

DESIGN

ANALYSIS



57

---

---

---

---

---

---

---

---

---

---

### Tower Road Analysis: Option 2 Summary

- Two travel lanes
- Median
- In-street bicycle lanes
- Wide sidewalks
- Landscaping with shade trees
- Enhanced safety
- Three roundabouts plus future warranted
- Traffic calming throughout project
- Minimum LOS D



GOALS

DESIGN

ANALYSIS



58

---

---

---

---

---

---

---

---

---

---

### Data Results Comparison

Tower Road Intersection:	No Build		Build Option #1				Build Option #2					
	AM Peak		PM Peak		AM Peak		PM Peak		AM Peak		PM Peak	
	LOS	Delay Time (sec/veh)	LOS	Delay Time (sec/veh)	LOS	Delay Time (sec/veh)	LOS	Delay Time (sec/veh)	LOS	Delay Time (sec/veh)	LOS	Delay Time (sec/veh)
SW 8 <sup>th</sup> Avenue	C	23	D	39	B	13*	C	24*	C	16*	C	24*
SW 13 <sup>th</sup> Road	E	37	F	>50	-	-	-	-	-	-	-	-
Oak Hall School	F	>50	F	>50	B	10*	B	11*	A	10*	A	9*
SW 18 <sup>th</sup> Blvd.	F	>50	F	>50	F	>50	F	>50	A	3*	A	7*
SW 19 <sup>th</sup> Place	C	23	C	21	D	31	C	17	B	13	C	21
SW 24 <sup>th</sup> Avenue	D	45*	E	69*	D	48*	E	75*	D	29*	D	35*
SW 36 <sup>th</sup> Avenue	-	-	-	-	-	-	-	-	*	-	*	-
SW 41 <sup>st</sup> Place	D	27	F	>50	A	7*	C	16*	A	4*	A	9*
SW 42 <sup>nd</sup> Avenue	C	16	C	25	A	5*	A	8*	A	3*	A	8*
SW 46 <sup>th</sup> Blvd.	C	30*	C	28*	C	26*	C	31*	C	17*	C	19*
SW 51 <sup>st</sup> Blvd.	E	46	F	>50	F	>50	F	>50	A	4*	B	11*
SW 53 <sup>rd</sup> Place	F	>50	F	>50	F	>50	F	>50	A	5*	B	11*

\* Denotes signalized intersection

\* Denotes roundabout intersection



GOALS

DESIGN

ANALYSIS



59

---

---

---

---

---

---

---

---

---

---

### Tower Road Recommendation

The Build Option #2 best meets the Tower Road design criteria.



GOALS

DESIGN

ANALYSIS



60

---

---

---

---

---

---

---

---

---

---

Tower Road Analysis: Comparative Cost Estimate

- Project Costs
  - Construction Costs
    - Roadway Construction
      - Major cost items: reconstruction of the roadway, curb and gutter, asphalt, sidewalk, stormwater pipe
      - Includes costs for lighting and landscaping
    - Stormwater Facility Construction
  - Right-of-Way Costs
    - Intersection corners
    - Stormwater Facilities



GOALS

DESIGN

ANALYSIS




---

---

---

---

---

---

---

---

---

---

Tower Road Analysis: Comparative Cost Estimate

- Crash Costs
  - Used 28 months of Tower Road crash data from January, 2002 through April, 2004
  - Sorted crashes by severity of crash
  - Assigned crash cost based on severity
  - Extrapolated number of crashes and crash costs for 2005 through 2025



GOALS

DESIGN

ANALYSIS




---

---

---

---

---

---

---

---

---

---

Tower Road Analysis: Comparative Cost Estimate

Project Costs	No Build	Option #1	Option #2
<b>Construction</b>			
Roadway Construction	\$0	\$14,300,000	\$15,000,000
Stormwater Construction	\$0	\$4,600,000	\$4,600,000
<b>R/W Acquisition</b>			
Roadway R/W	\$0	\$700,000	\$1,900,000
Stormwater R/W	\$0	\$4,000,000	\$4,000,000
<b>Total</b>	<b>\$0</b>	<b>\$23,600,000</b>	<b>\$25,500,000</b>
<b>Crash Costs</b>			
Annual Crashes in 2005	59	55	36
Annual Injury Crashes in 2005	29	25	7
Annual Crash Cost in 2005	\$1,300,000	\$1,130,000	\$385,000
Annual Crashes in 2025	70	65	43
Annual Injury Crashes in 2025	35	30	8
Annual Crash Cost in 2025	\$1,900,000	\$1,660,000	\$570,000
<b>Total Crash Cost 2005-2025</b>	<b>\$33,250,000</b>	<b>\$29,000,000</b>	<b>\$9,840,000</b>
<b>Total Costs 2005-2025</b>	<b>\$33,250,000</b>	<b>\$52,600,000</b>	<b>\$35,340,000</b>



GOALS

DESIGN

ANALYSIS




---

---

---

---

---

---

---

---

---

---

## MTPO Design Team

- MTPO Design Team approved 60% design and requested consideration of half-depth bus bays
- Tower Road Team will work with RTS to evaluate half-depth bus bays



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

## MTPO Citizens Advisory Committee

- The MTPO Citizens Advisory Committee approved the 60% design and requested pedestrian scale lighting
- The project design adheres to County lighting policy and currently includes:
  - Roadway lighting (cobra head lights)
  - Decorative lighting at roundabouts



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

## MTPO Bicycle/Pedestrian Advisory Board

- The MTPO Bicycle/Pedestrian Advisory Board approved 60% design



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

# Area Network



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

## Network Analysis

- The Network Analysis examined:
  - Impact of Tower Road enhancements on nearby intersections
  - 2025 growth impacts on study area roadways
  - Potential enhancements for intersections that are in the Network area but are not on Tower Road



GOALS

DESIGN

ANALYSIS



---

---

---

---

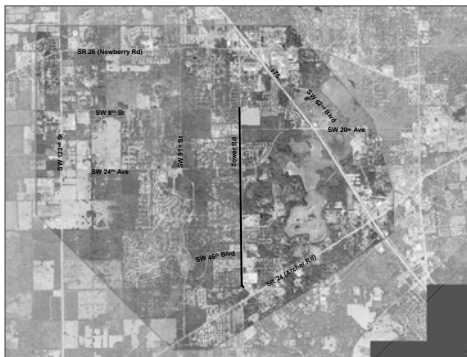
---

---

---

---

Study Area



GOALS

DESIGN

ANALYSIS



---

---

---

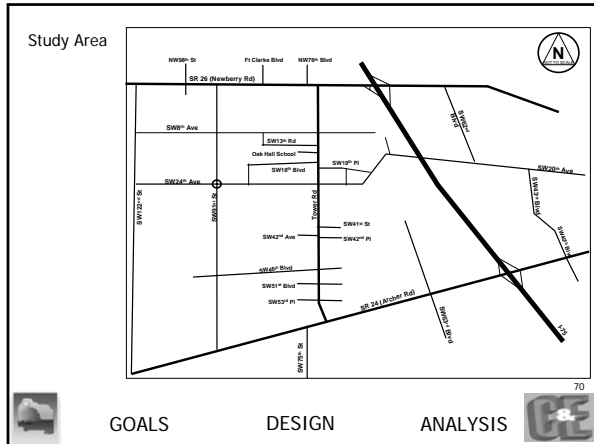
---

---

---

---

---




---

---

---

---

---

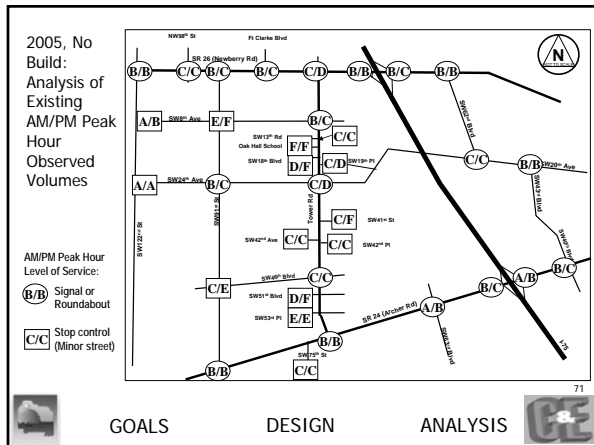
---

---

---

---

---




---

---

---

---

---

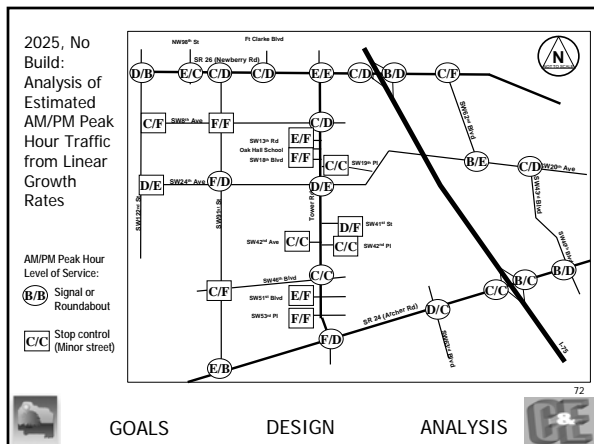
---

---

---

---

---




---

---

---

---

---

---

---


---

---


---

## VISSIM Videos

Build 2025




**SR 26**



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

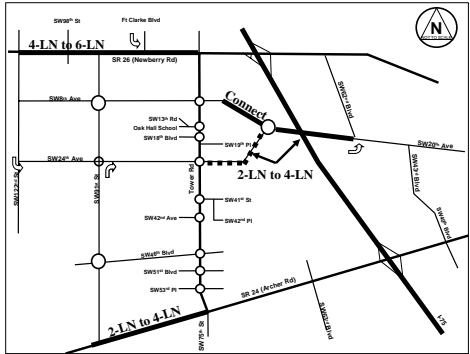
---


---

---

---

### 2025 - Build Network Enhancements






GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---


---

---

---

## Network Enhancements


- **SR 26 – Newberry Road**
  - Extend 6-Lane section from west of Tower Road to SW 122<sup>nd</sup> Street
  - Add 2<sup>nd</sup> SB left turn lane on Fort Clarke Boulevard
- **SR 24 – Archer Road**
  - Extend 4-Lane section from west of Tower Road to west of SW 91<sup>st</sup> Street
- **SW 24th Avenue / SW 20th Avenue**
  - Construct 4-Lane Section from 61<sup>st</sup> Street to 62<sup>nd</sup> Boulevard
  - Extend EB left turn lane at SW 62<sup>nd</sup> Boulevard
- **SW 8th Avenue**
  - Construct roundabout at SW 91<sup>st</sup> Street
  - Extend 8<sup>th</sup> Avenue east to connect with SW 20<sup>th</sup> Avenue, construct roundabout
- **SW 46th Boulevard**
  - Construct roundabout at SW 91<sup>st</sup> Street



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

---

---

The Project Team requests that the Alachua County Board of County Commissioners:

1. Review and provide comments for the Tower Road 60% Plans
2. Authorize Staff to proceed with Tower Road Final Design
3. Authorize Staff to proceed with a contract to conduct a preliminary engineering study and engineering plans for the proposed Network Enhancements
4. Direct Staff to develop funding options for the construction of Tower Road and the Network Enhancements in the Tower Road area
5. Direct Staff to work with MTPO Staff to develop funding for the construction of Tower Road and the Network Enhancements in the Tower Road area



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---

Questions?



GOALS

DESIGN

ANALYSIS



---

---

---

---

---

---

---

---