MARANA TOWN COUNCIL
STUDY SESSION
NOTICE AND AGENDA
11555 W. Civic Center Drive, Marana, Arizona 85653
Second Floor Conference Center, March 12, 2024, at or after 6:00 PM

Ed Honea, Mayor
Jon Post, Vice Mayor
Patti Comerford, Council Member
Jackie Craig, Council Member
Herb Kai, Council Member
John Officer, Council Member
Roxanne Ziegler, Council Member

Pursuant to A.R.S. §38-431.02, notice is hereby given to the members of the Marana Town Council and to the general public that the Town Council will hold a meeting open to the public on March 12, 2024, at or after 6:00 PM located in the Second Floor Conference Centerof the Marana Municipal Complex, 11555 W. Civic Center Drive, Marana, Arizona.

ACTION MAY BE TAKEN BY THE COUNCIL ON ANY ITEM LISTED ON THIS AGENDA. Revisions to the agenda can occur up to 24 hours prior to the meeting. Revised agenda items appear in *italics*.

The Second Floor Conference Center is wheelchair and handicapped accessible. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting the Town Clerk at (520) 382-1999. Requests should be made as early as possible to arrange the accommodation.

This Notice and Agenda posted no later than 24 hours prior to the meeting at the Marana Municipal Complex, 11555 W. Civic Center Drive, the Marana Operations Center, 5100 W. Ina Road, and at www.maranaaz.gov under Agendas and Minutes.

CALL TO ORDER AND ROLL CALL

PLEDGE OF ALLEGIANCE/INVOCATION/MOMENT OF SILENCE

APPROVAL OF AGENDA

DISCUSSION/DIRECTION/POSSIBLE ACTION

D1 Relating to Transportation; presentation by Kittelson & Associates providing an update and recommendations related to the Town of Marana Transportation Master Plan; discussion and possible direction regarding the final Master Plan document (Fausto Burruel)

EXECUTIVE SESSIONS

Pursuant to A.R.S. § 38-431.03, the Town Council may vote to go into executive session, which will not be open to the public, to discuss certain matters.

E1 Executive Session pursuant to A.R.S. §38-431.03 (A), Council may ask for discussion or consideration, or consultation with designated Town representatives, or consultation for legal advice with the Town Attorney, concerning any matter listed on this agenda for any of the reasons listed in A.R.S. §38-431.03 (A).

FUTURE AGENDA ITEMS

Notwithstanding the Mayor's discretion regarding the items to be placed on the agenda, if three or more Council members request that an item be placed on the agenda, it must be placed on the agenda for the second regular Town Council meeting after the date of the request, pursuant to Marana Town Code Section 2-4-2(B).

ADJOURNMENT

Council-Study Session **D1**

Meeting Date: 03/12/2024

To: Mayor and Council

Submitted For: Fausto Burruel, Public Works Director

From: Diahn Swartz, Traffic Manager

Date: March 12, 2024

Strategic Plan Focus Area:
Vibrant Community

Strategic Plan Focus Area Additional Info:
The Strategic Plan goal is to provide a safe and connected multi-modal transportation system to support the mobility needs of present and future residents.

Subject: Relating to Transportation; presentation by Kittelson & Associates providing an update and recommendations related to the Town of Marana Transportation Master Plan; discussion and possible direction regarding the final Master Plan document (Fausto Burruel)

Discussion:

The consultant (Kittelson) will present recommendations regarding the Town's Transportation Master Plan, and will invite discussion and provide an opportunity for Mayor and Council to provide input for the final document.

Staff Recommendation:

Mayor and Council are invited to provide input regarding the Transportation Master Plan, which is to be finalized in April.

Suggested Motion:

No motion is required; staff seeks Council's feedback and direction.

Attachments

Presentation



TRANSPORTATION MASTER PLAN

March 12, 2024

Marana Over the Years

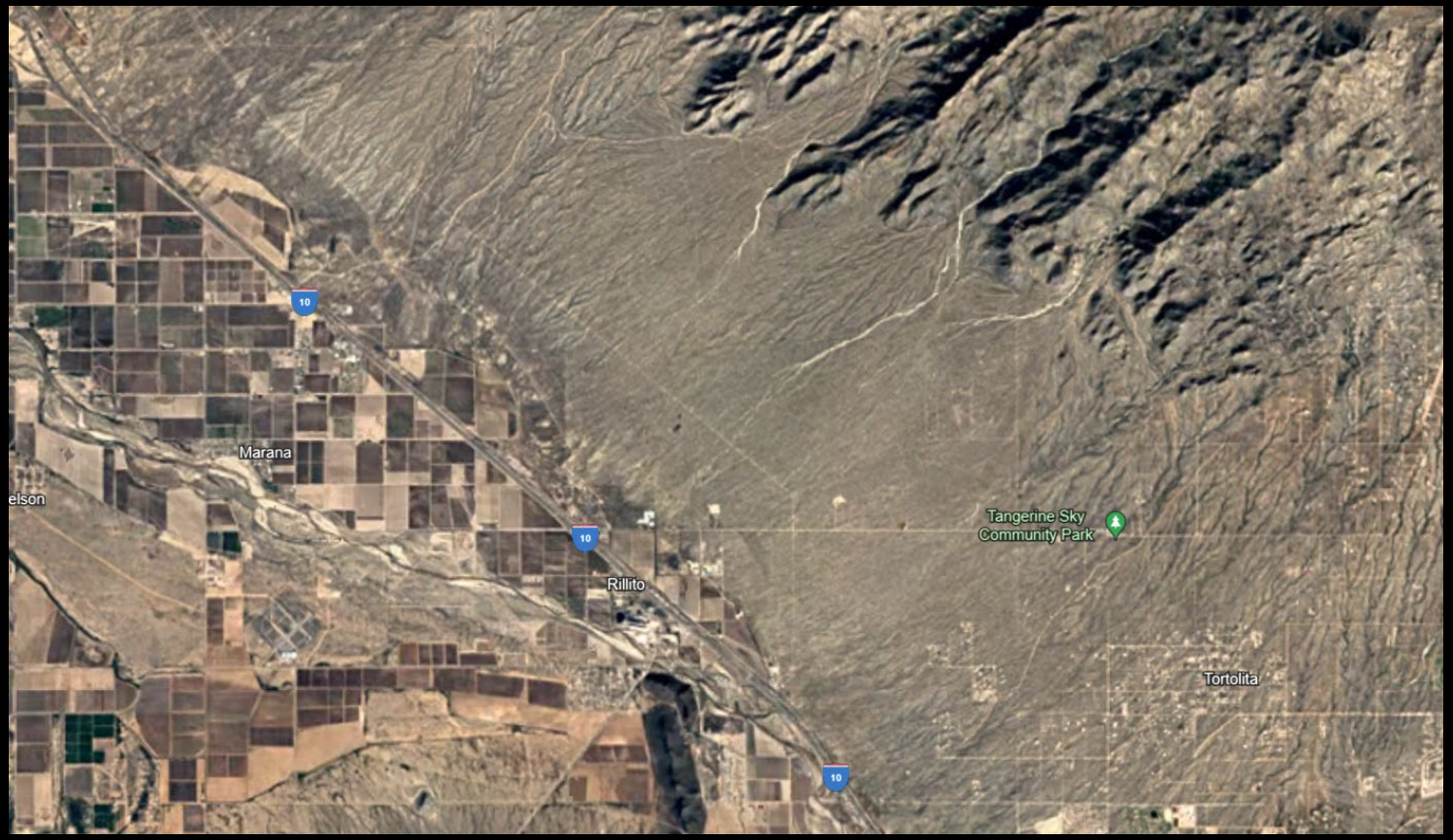
1800

1900

1977

2000

2023



Starting as a Rural Town with 1,500 residents

Marana Over the Years

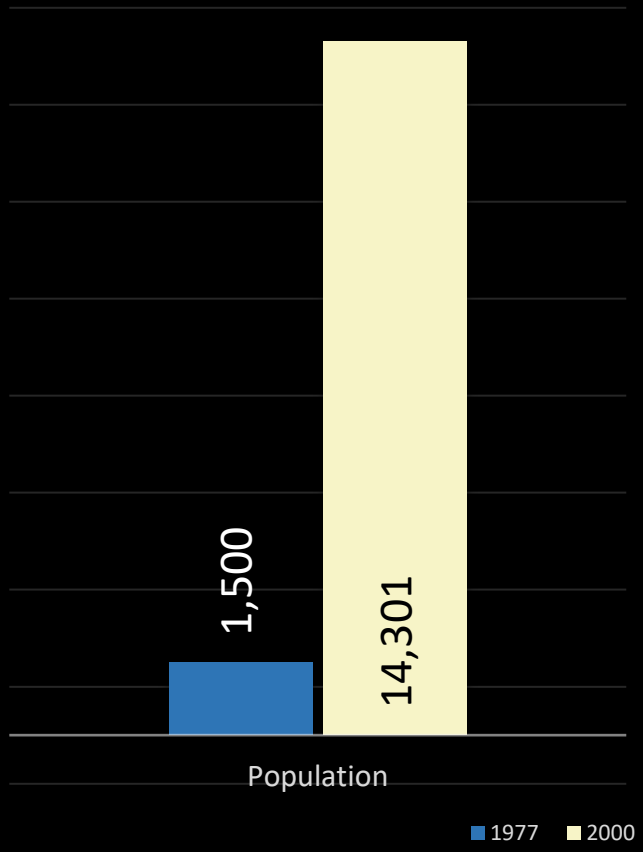
1900

1977

2000

2023

2030



By 2000, development necessitated the Town's first Transportation Master Plan

Marana Over the Years

1977

2000

2023

2030

2045

But after the 2001 Transportation Master Plan, the Town boomed…



Marana Over the Years

1977

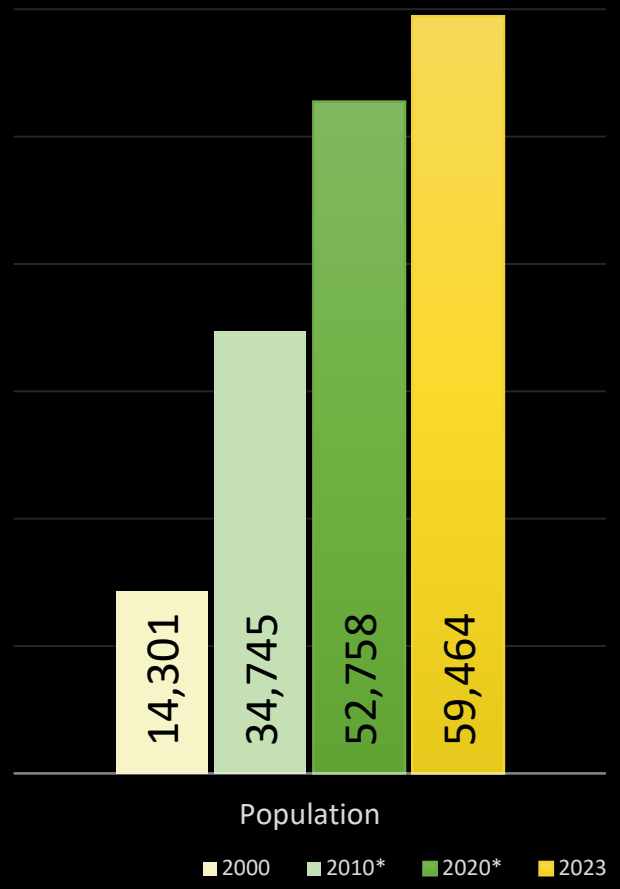
2000

2023

2030

2045

But after the 2001 Transportation Master Plan, the Town boomed…



315% population increase since 2000

30% increase in housing units since 2010 alone

TOWN GROWTH FROM 2000 TO 2023

Marana Over the Years

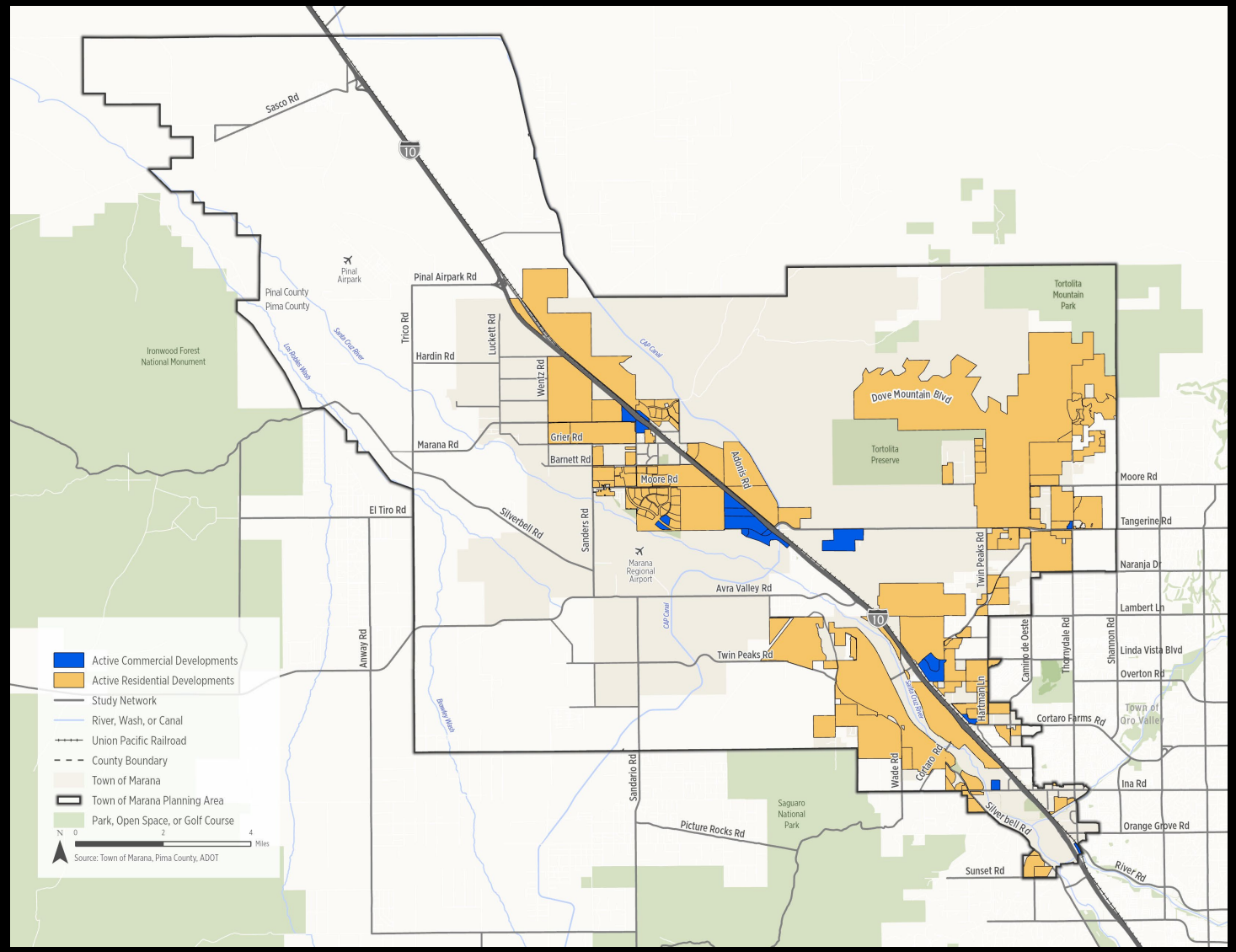
1977

2000

2023

2030

2045



Today – Marana has numerous plans and developments further expanding the demands on the Town.

Marana Over the Years

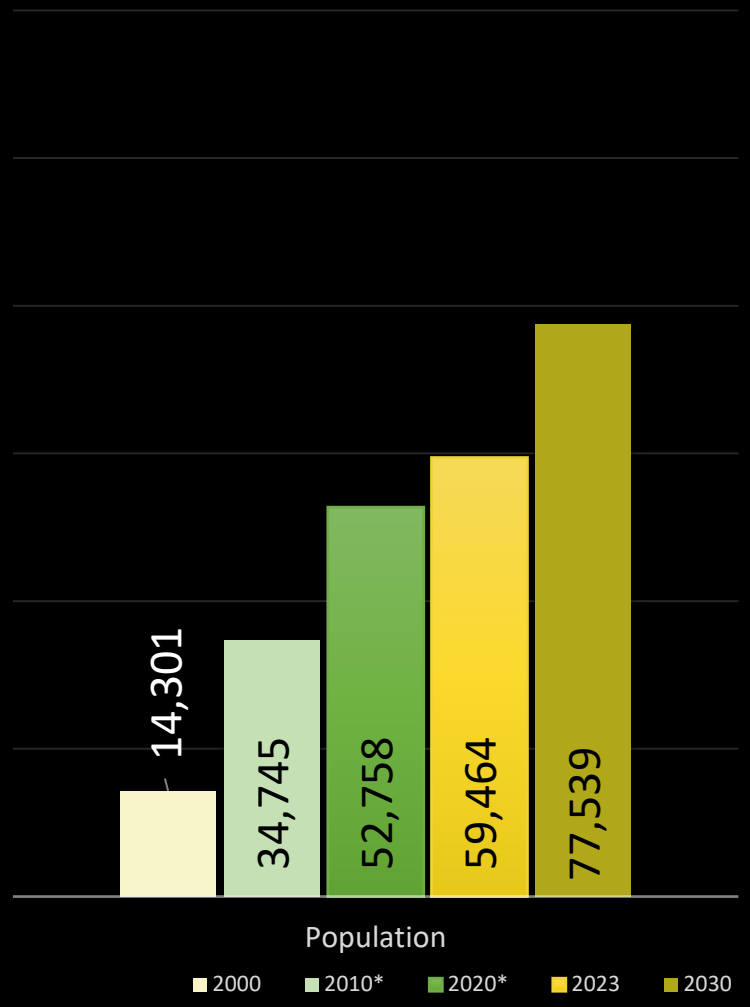
2000

2023

2030

2045

2055



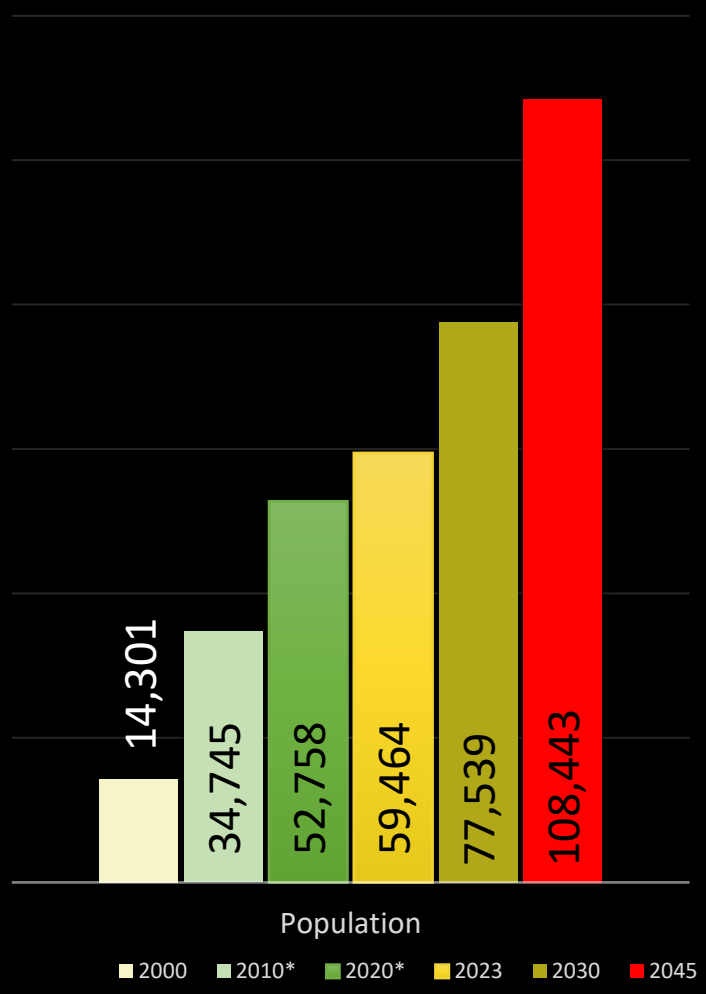
Marana Over the Years

2023

2030

2045

2055



Y2023-Y2045:
<u>82%</u> increase in population

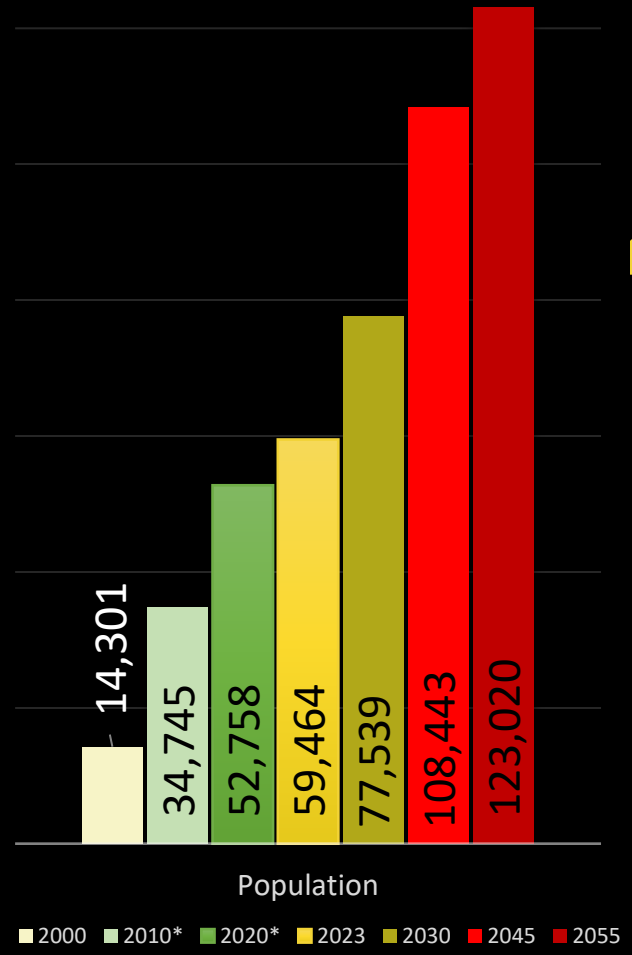
Marana Over the Years

2030

2045

2055

By 2055, Marana MPA:



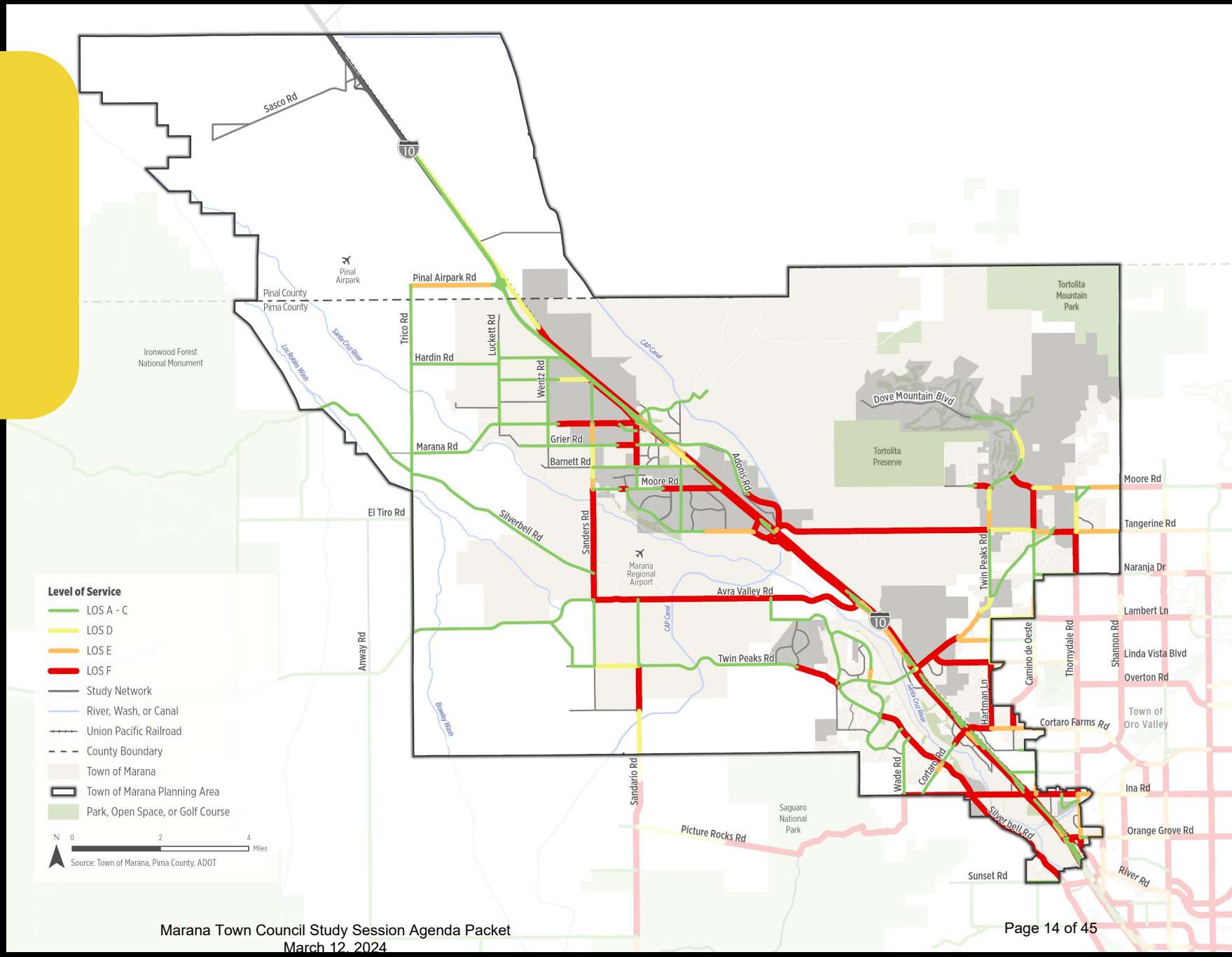
106% population increase

104% increase in total jobs

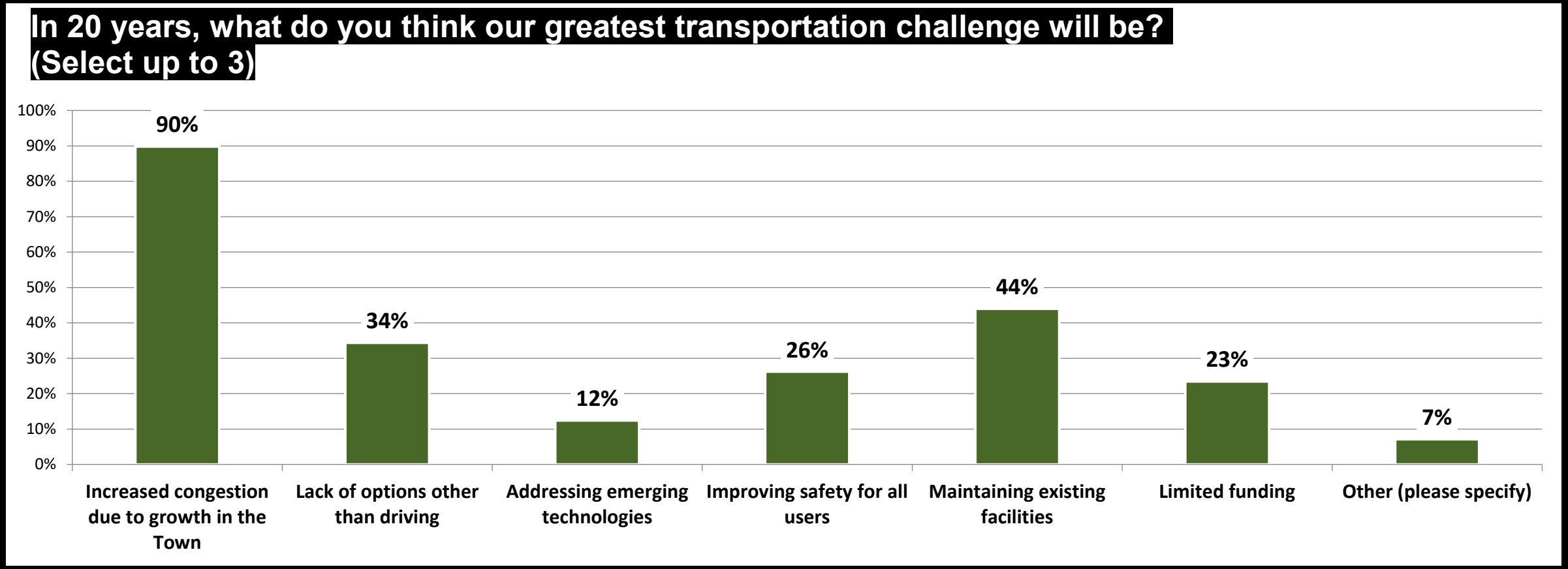
What Happens If NO Roadway Improvements are Made?

Y2055 No Build Evaluation

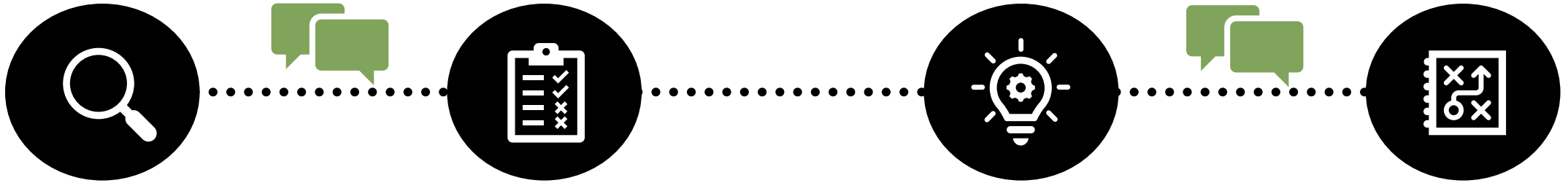
Note: CIP projects are also not included in this analysis to validate continued need of those projects



And the Public is Concerned



Study Process



How are we Doing?

Understand how people and goods are moving today and tomorrow

What do we Need?

Determine future conditions, needs, and opportunities

What are the Possibilities?

Identify and evaluate potential improvement solutions

What is the Plan?

Develop phased transportation improvement plan

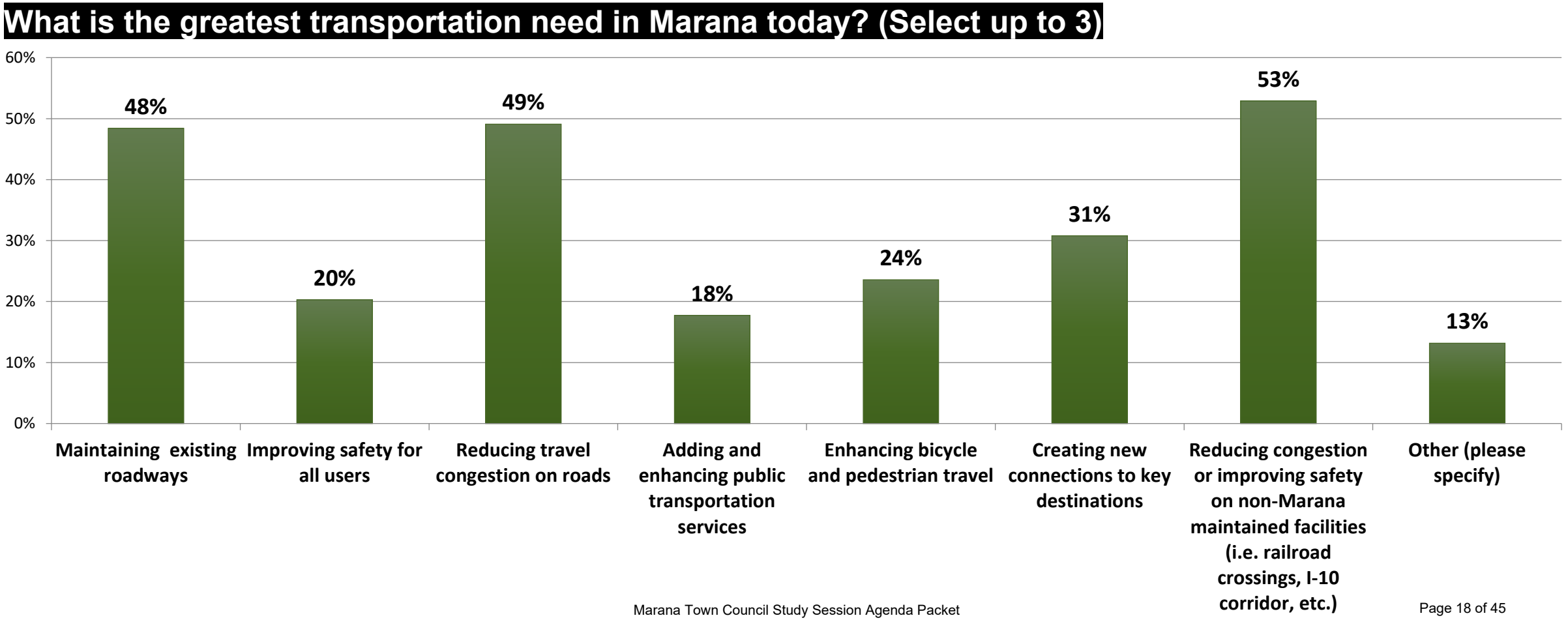


Transportation Master Plan

KEY TAKEAWAYS

Many of the Town's transportation issues are related to I-10 and the frontage road system	As Marana continues to grow, congestion will continue to increase, if no roadway improvements are made	Key challenge for Town staff - understanding trade-offs of different development scenarios
Gaps in the roadway network and lack of alternative routes limit access and connectivity	Marana's residents want more transportation choices (walking, biking, transit)	Increased traffic congestion is key concern for the public

What Improvements are Needed Along I-10?



What Improvements are Needed Along I-10?

- Traffic Interchanges
- **Sunset Rd and Orange Grove Rd**
- Ina Rd
- Cortaro Rd and Twin Peaks Rd
- Avra Valley Rd
- Moore Rd and/or Tangerine Rd

RECOMMENDATIONS:

✓ No additional changes recommended beyond the current project



What Improvements are Needed Along I-10?

- Sunset Rd and Orange Grove Rd
- **Ina Rd**
- Cortaro Rd and Twin Peaks Rd
- Avra Valley Rd
- Moore Rd and/or Tangerine Rd
- Marana Rd

RECOMMENDATIONS:

- ✓ **By 2045:** Widening Ina Rd from I-10 TI to Thornydale Rd to 6-lanes may be needed
- ✓ In Consideration for RTA Next



What Improvements are Needed Along I-10?

Ina Rd

Cortaro Farms Rd and Twin Peaks Rd

Avra Valley Rd

Moore Rd and/or Tangerine Rd

Marana Rd

Tortolita Development

RECOMMENDATIONS:

Cortaro Farms Rd TI

- ✓ Planned project, TMP validates need
- ✓ By 2030: without improvements, TI exceeds capacity

Recommendations:

- ✓ Reconstruct TI to include a railroad overpass
- ✓ Widening to 6-lanes may be needed from Hartman Ln to Arizona Pavilions Dr

Twin Peaks Rd TI

- ✓ No changes



What Improvements are Needed Along I-10?

- Cortaro Rd and Twin Peaks Rd
- **Avra Valley Rd**
- Moore Rd and/or Tangerine Rd
- Marana Rd
- Tortolita Development
- Frontage Roads

Three Potential Scenarios Evaluated

1. Extend Avra Valley Rd: I-10 To Tangerine Road

- ✓ Provides moderate relief to Tangerine Rd and TI
- ✗ Environmental concerns may be present



What Improvements are Needed Along I-10?

- Cortaro Rd and Twin Peaks Rd
- **Avra Valley Rd**
- Moore Rd and/or Tangerine Rd
- Marana Rd
- Tortolita Development
- Frontage Roads

Three Potential Scenarios Evaluated

2. Extend Lambert Lane connecting to the West I-10 Frontage Roads

- ✓ Connects as overpass south of Lambert Ln
- ✓ No changes to the TI.
- ✓ Provides moderate relief to Twin Peaks TI
- ✓ Provides another east-west corridor parallel to Tangerine Rd. Improves overall circulation
- ✗ Significant challenges to construct
- ✗ Environmental concerns may be present>



What Improvements are Needed Along I-10?

- Cortaro Rd and Twin Peaks Rd
- **Avra Valley Rd**
- Moore Rd and/or Tangerine Rd
- Marana Rd
- Tortolita Development
- Frontage Roads

Three Potential Scenarios Evaluated

3. Extend Lambert Lane to Avra Valley Rd TI

- ✓ Creates a full diamond interchange
- ✓ Provides moderate relief to Twin Peaks TI and Tangerine TI
- ✓ Provides another east-west corridor parallel to Tangerine Rd
- ✓ Improves over circulation
- ✗ Significant challenges to construct
- ✗ Environmental concerns may be present



What Improvements are Needed Along I-10?

- Cortaro Rd and Twin Peaks Rd
- **Avra Valley Rd**
- Moore Rd and/or Tangerine Rd
- Marana Rd
- Tortolita Development
- Frontage Roads

RECOMMENDATIONS:

✓ By 2055: One of the three connections may be needed



What Improvements are Needed Along I-10?

- Avra Valley Rd
- **Moore Rd and/or Tangerine Rd**
- Marana Rd
- Tortolita Development
- Frontage Roads

EVALUATION

Evaluated Impact With or Without Moore Rd TI

No Moore Rd TI. Tangerine Rd TI Full Reconstruction

- ✕ Tangerine TI may still be congested
- ✕ Tangerine Rd west of I-10 may still be congested
- ✕ May be more expensive to reconstruct
- ✕ More interruptions to traffic during construction
- ✕ Would not enhance overall area circulation



What Improvements are Needed Along I-10?

- Avra Valley Rd
- Moore Rd and/or Tangerine Rd
- Marana Rd
- Tortolita Development
- Frontage Roads

New Moore Rd TI with Minor Improvements at Tangerine TI

- ✓ Moore connects to Adonis Rd
- ✓ Provides significant relief to Tangerine Rd TI (especially the west side of I-10)
- ✓ Reduces stress on Clark Farms Blvd
- ✓ Provides two access points to I-10 in an area projected to grow significantly
- ✓ Minor improvements at Tangerine TI may suffice
- ✓ Less expensive than reconstructing Tangerine Rd TI
- ✓ Less interruption to traffic during construction
- ✓ Enhances overall circulation
- ✓ Moore Rd west of I-10 may need to be widened to 4-lanes



What Improvements are Needed Along I-10?

- Avra Valley Rd
- **Moore Rd and/or Tangerine Rd**
- Marana Rd
- Tortolita Development
- Frontage Roads

RECOMMENDATIONS:

Interim Tangerine Rd TI Improvements are needed to accommodate near-term growth

- ✓ If NO Interim Tangerine Rd TI improvements, Moore Rd TI needed by 2030
- ✓ If Interim Tangerine Rd TI improvements are made, Moore Rd TI needed after 2030



What Improvements are Needed Along I-10?

Moore Rd and/or Tangerine Rd

Marana Rd

Tortolita Development

Frontage Roads

RECOMMENDATIONS:

- ✓ Planned interim improvements, TMP validates need
- ✓ By 2045: Marana Rd TI exceeds capacity, even if potential Tortolita TI is in place



What Improvements are Needed Along I-10?

Marana Rd

Tortolita Development

Frontage Roads

Two Potential Scenarios Evaluated

New Tortolita TI

- ✓ Tortolita TI – developer driven need/project; provides a more direct access to the proposed Tortolita development
- ✗ Pinal Airpark Rd TI – ramps may need to be removed and TI converted to an overpass. Too close to Tortolita TI
- ✗ Missile Base Road TI may be needed in this scenario



What Improvements are Needed Along I-10?

Marana Rd

Tortolita Development

Frontage Roads

Two Potential Scenarios Evaluated

Pinal Airpark TI Reconstruction (Full Diamond TI)

- ✓ In lieu of new Tortolita TI, this would serve as access point for Tortolita development
- ✓ Adonis Rd or alternative route need to be extended to Pinal Airpark TI
- ✗ May be too far out to be useful for the Tortolita development users and may add more stress on Marana TI



What Improvements are Needed Along I-10?

Marana Rd

Tortolita Development

Frontage Roads

RECOMMENDATIONS:

- ✓ Continue to monitor development plans and timeline for Tortolita development. Either a new TI or conversion of Pinal Airpark to a full-diamond TI will be needed.
- ✓ Based on the location of various land uses and the intensity of the Tortolita development, Marana TI may need to be reconstructed to include a railroad overpass and remove the at-grade crossing



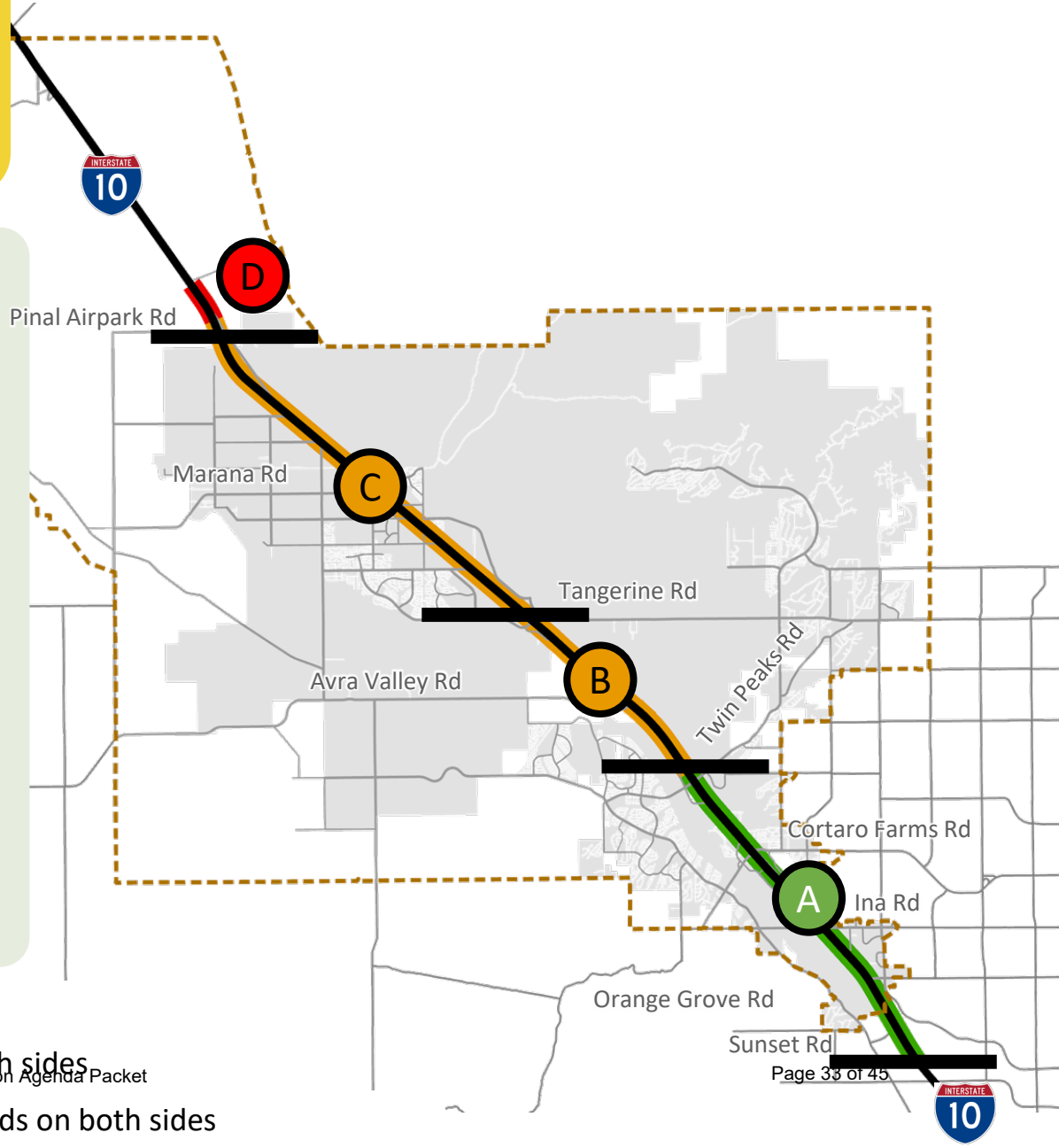
What Improvements are Needed Along I-10?

Tortolita Development

Frontage Roads

RECOMMENDATIONS:
Create a two-lane, one-way frontage road system on both sides of I-10.

- ✓ Frontage road corridor is broken down into 4 segments
- ✓ Implementation:
  1) With other TI project improvements when feasible
  2) Create the remainder frontage road system in the priority of segments B, C, and D



Maintain WB Frontage Rd as two-way

Two-lane, one-way frontage roads on both sides

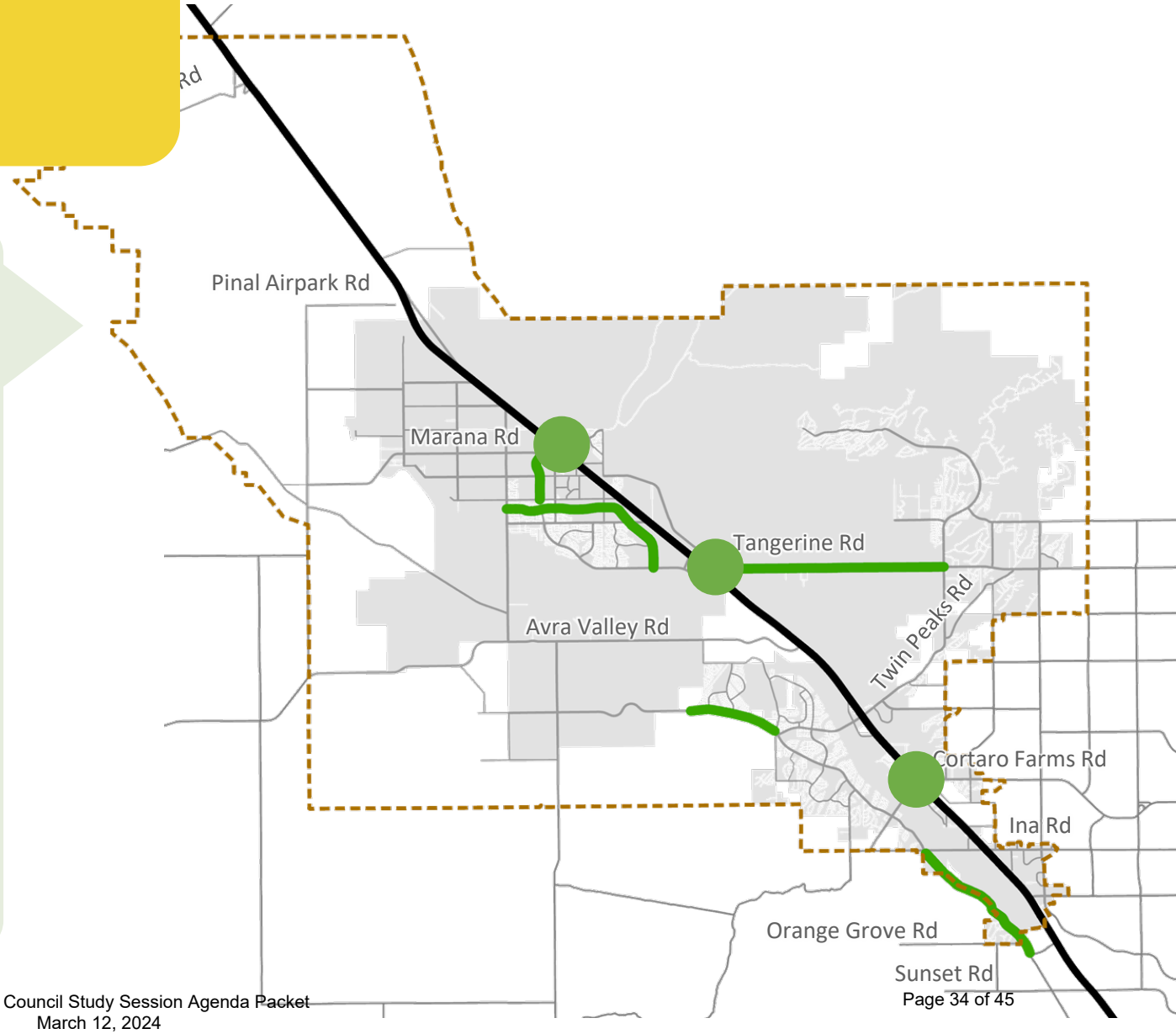
Maintain two-lane, one-way frontage roads on both sides

What Additional Projects Are Needed?

PROGRAMMED PROJECTS:

TMP Validates the Need for Numerous Projects, Including:

- ✓ Tangerine Road Widening: Dove Mountain Blvd to I-10
- ✓ Tangerine Farms Extension
- ✓ Twin Peaks Rd Widening
- ✓ Clark Farms Blvd (Sanders to Tangerine Rd)
- ✓ Silverbell Rd Widening (Ina to Sunset)
- ✓ TI reconstruction – Cortaro Farms Rd
- ✓ TI enhancements – Tangerine Rd, Marana Rd



What Additional Projects Are Needed?

PROGRAMMED PROJECTS:

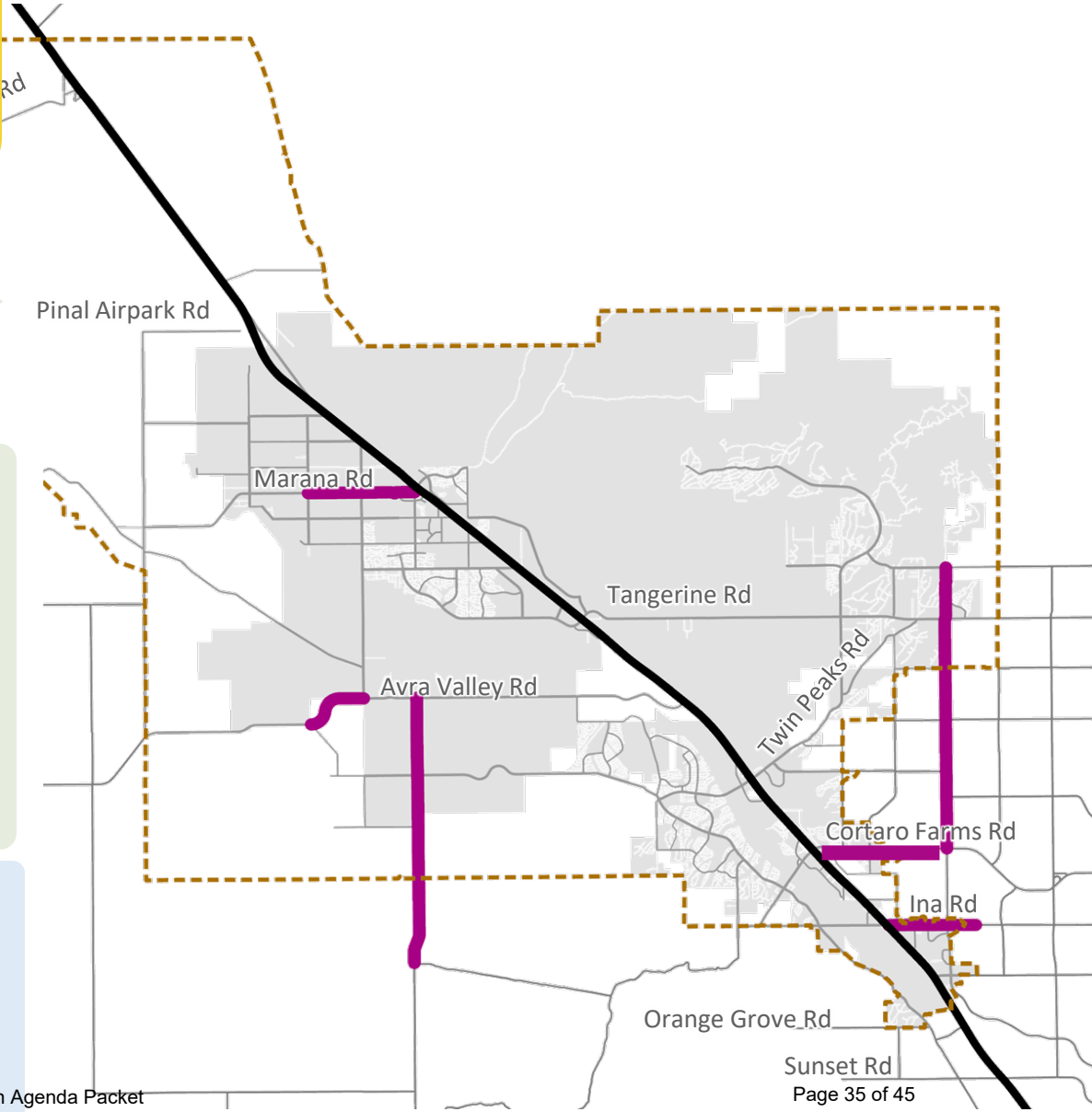
TMP Identified Modifications to Planned/Programmed Projects:

Near-Term (By 2030)

- ✓ Cortaro Rd TI: widen to 6-lanes from Thornydale Rd to Arizona Pavilions Dr
- ✓ Ina Rd: widen to 6-lanes from I-10 to Thornydale Rd
- ✓ Marana Rd: widen to 4-lanes only from I-10 to Wentz Ln
- ✓ Thornydale Rd: widen to 4-lanes north of Cortaro Farms Rd

Mid-Term (By 2045)

- ✓ Sandario Rd: widen to 4-lanes only from Avra Valley Rd to Picture Rock Rd
- ✓ Cortaro Farms Rd: widen from Traffic Interchange to Thornydale Rd



What Additional Projects Are Needed?

TMP IDENTIFIES NEW PROJECTS:

Near-Term (By 2030)

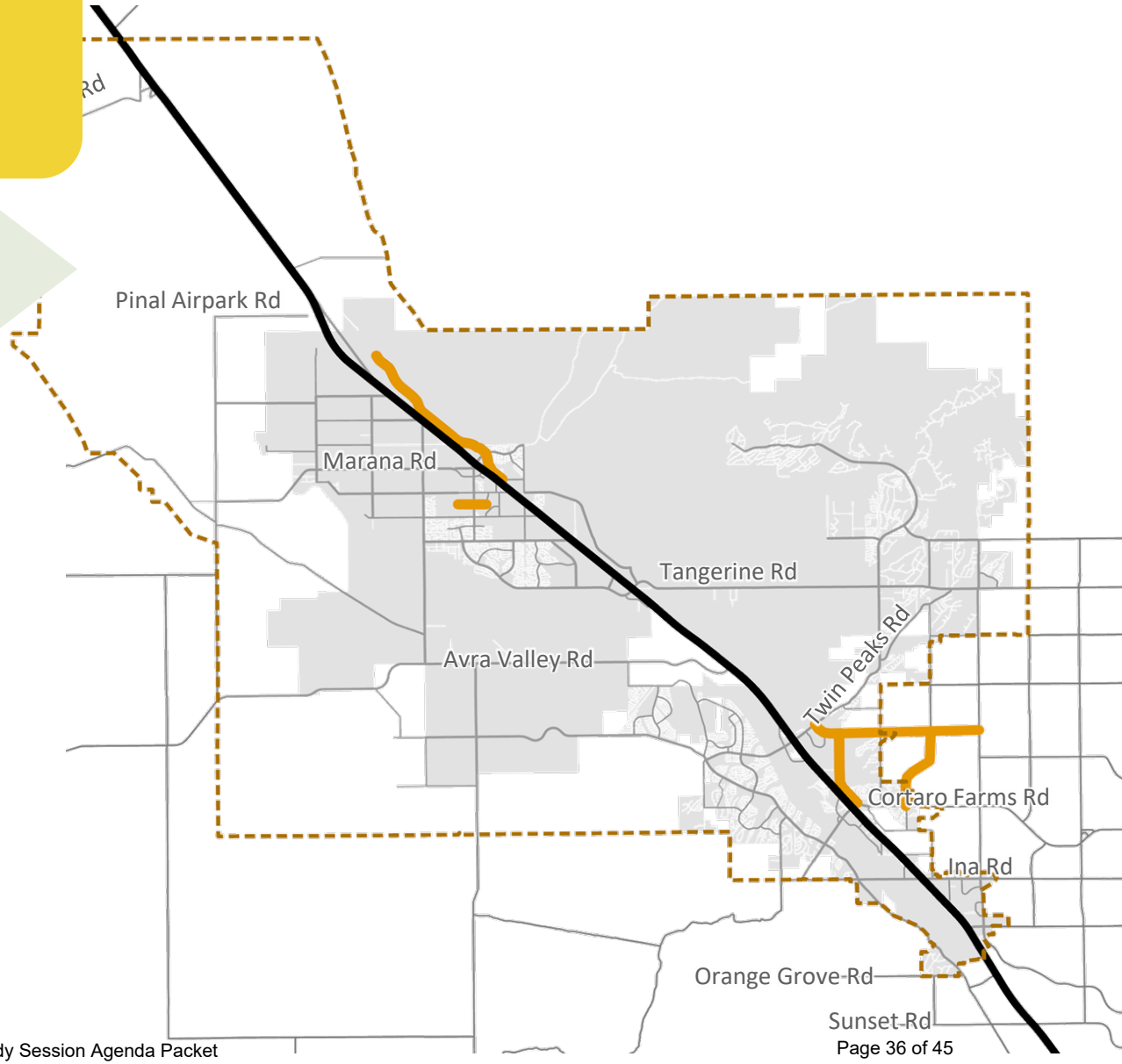
- ✓ Linda Vista Blvd: Twin Peaks to Thornydale Rd
- ✓ **Joplin Ln Extension:** Extend Joplin Ln from Linda Vista Blvd to Cortaro Farms Rd
- ✓ **Camino De Oeste:** Widen from Cortaro Farms Rd to Linda Vista Blvd
- ✓ **Intersection improvements**

Mid-Term (By 2045)

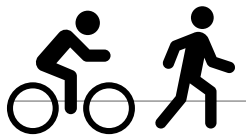
- ✓ Adonis Rd Realignment/Extension: Realignment from Grier Rd to Cochise Canyon Tr; Extension into Tortolita development

Long-Term

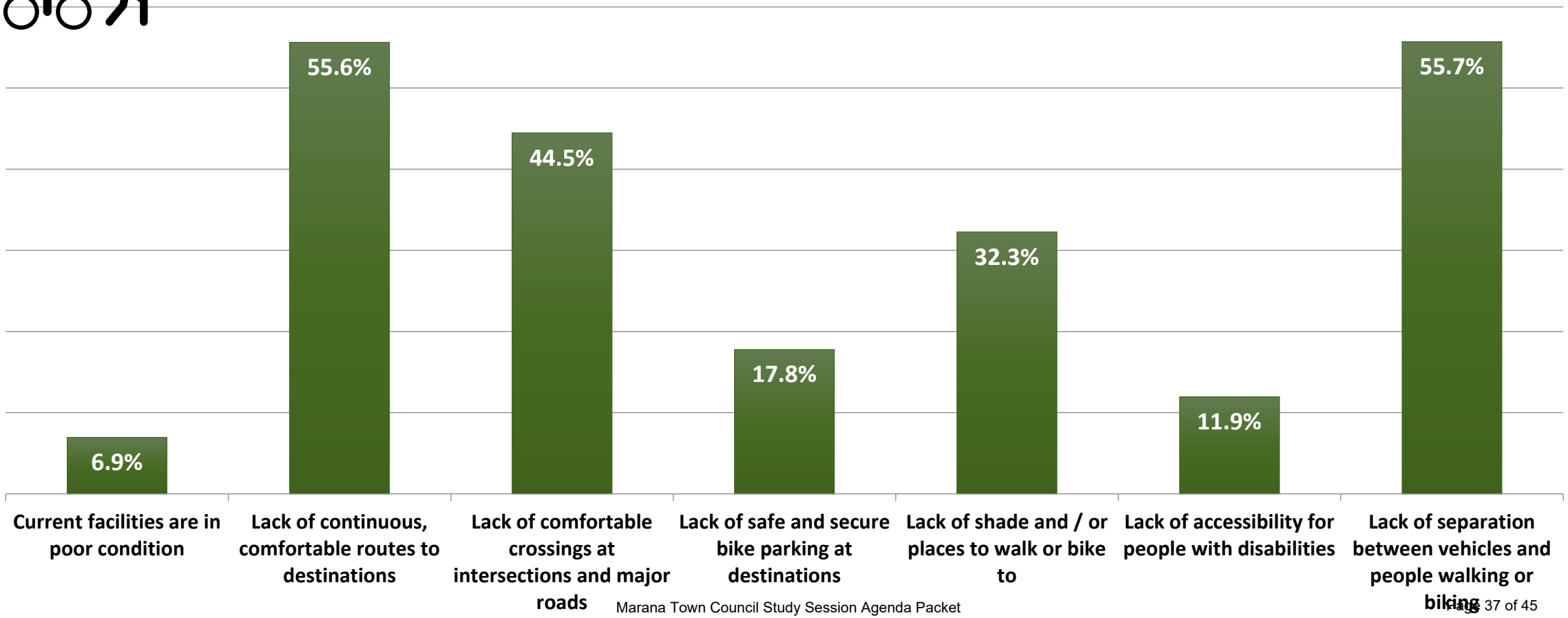
- ✓ Bill Gaudette Rd (Developer Driven): extend from Sandario Rd to Tangerine Farms Rd



What Multimodal Enhancements Are Needed?



What are the biggest challenges to walking and biking in Marana today? (Select up to 3)



What Multimodal Enhancements Are Needed?

TMP evaluated projects from:

- Previous plans recommendations
- New ideas based on new needs/data
- Potential to incorporate in roadway projects

Multimodal Network Includes:



Corridors where the Town has **invested in infrastructure**



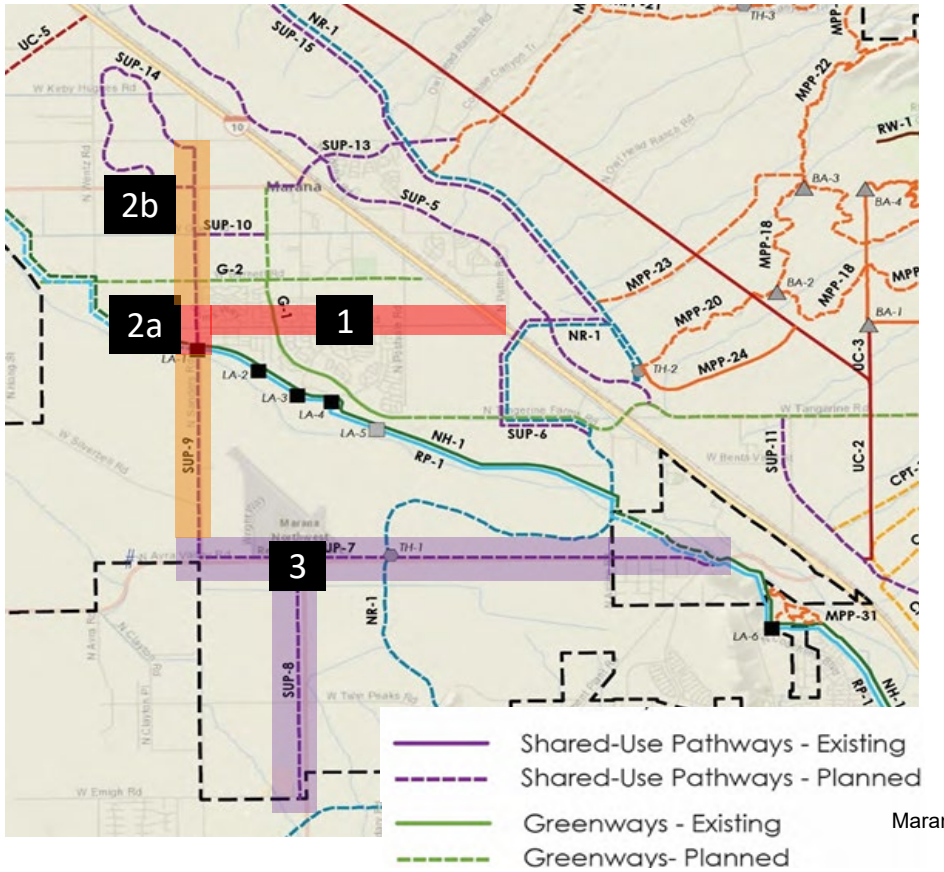
Low-stress routes for persons of all ages and abilities



New connections to homes, jobs, activity centers, schools, and regional bike network

What Multimodal Enhancements Are Needed?

Example Projects

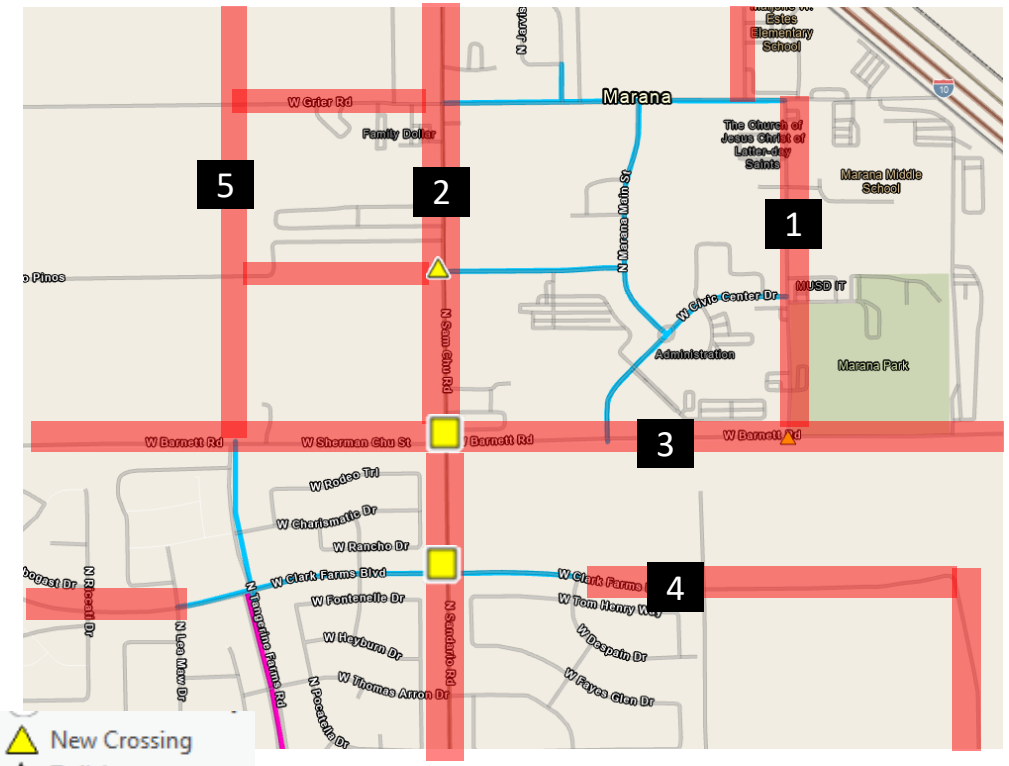


TMP Recommendations:

1. **Moore Road:** Extending shared use path to Sanders Rd one-side of corridor
2. **Sanders Road:**
   a) **Near-Term:** Shared use path on Sanders Rd from the Loop to Moore Road
   b) **Long-Term:** As development occurs, install shared use paths
3. **Avra Valley Rd and Sandario Rd:** Maintain and enhance wide shoulders until development occurs

What Multimodal Enhancements Are Needed?

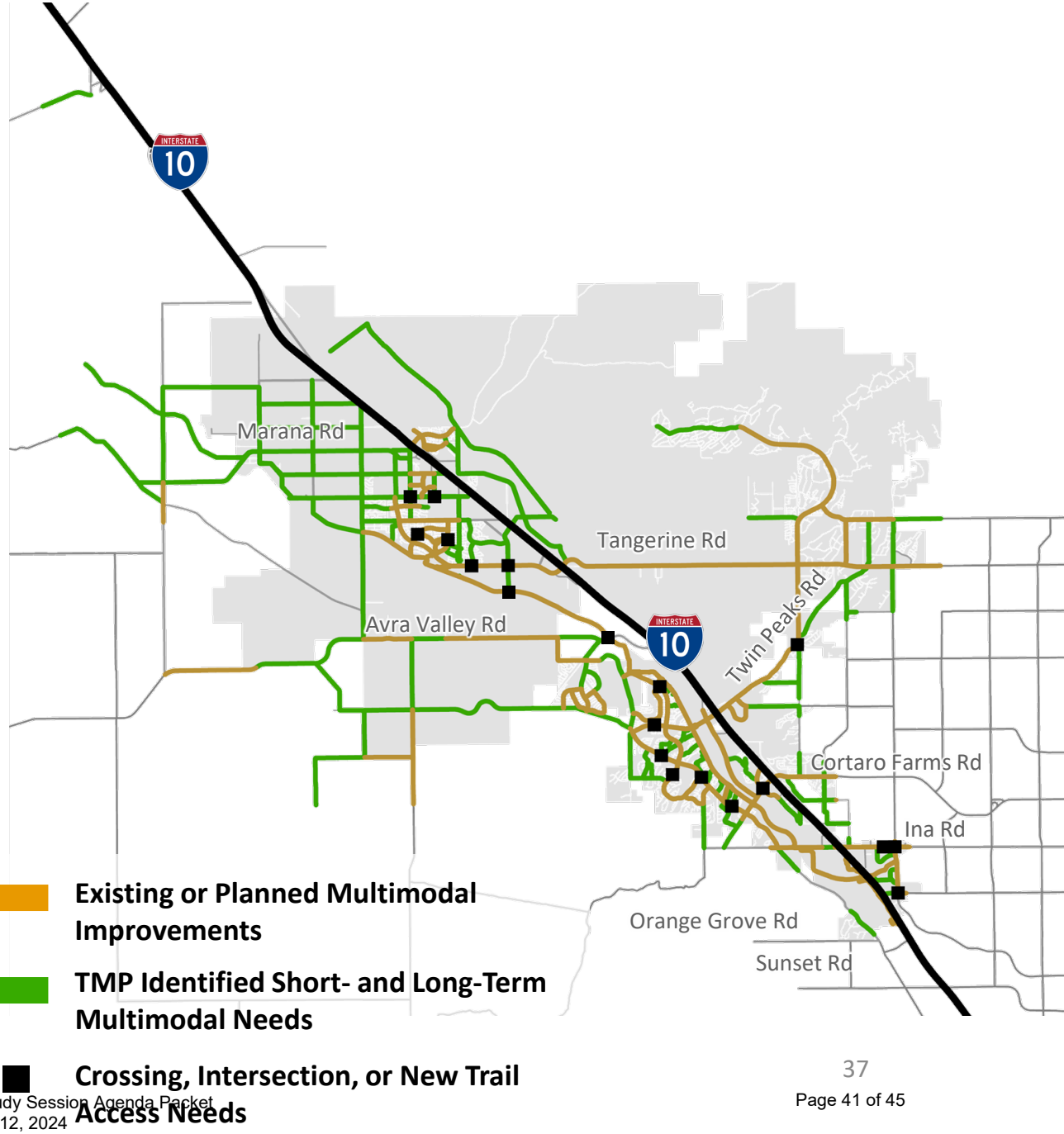
Downtown Marana Active Transportation Network:



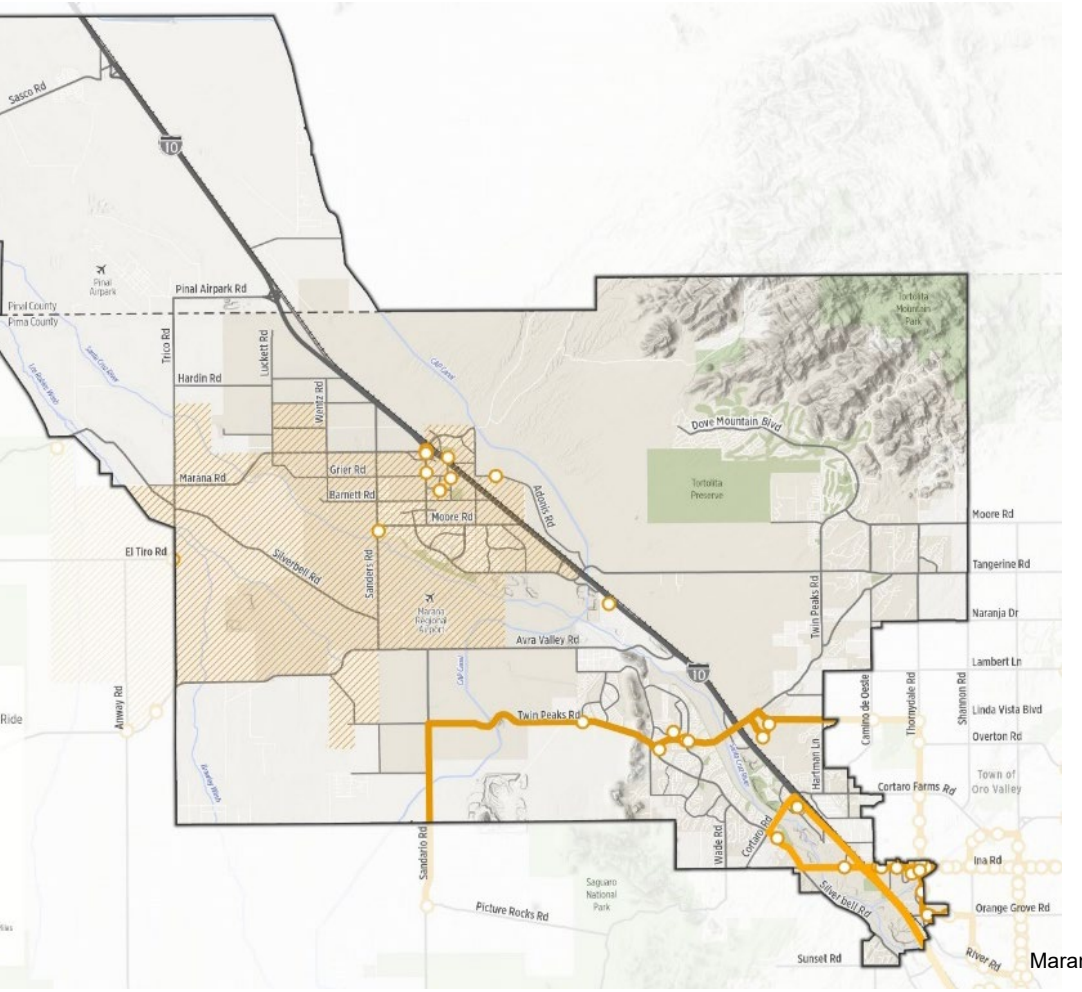
1. **Lon Adams:** widen sidewalk and fill-in sidewalk gaps. ADA compliance and crossing upgrades to Lon Adams/Civic Center Dr
2. **Sandario:** Phase development of shared use path from Moore Rd to Barnett Road and Barnett Road to Marana Rd.
3. **Barnett Road:** Create greenway path
4. **Clark Farms Road:** install on-street bike lanes and sidewalks with roadway project
5. As Tangerine Farms Road Extension and Development Occurs:
    1. Tangerine Farms Rd: on-street bike lanes and sidewalks
    2. Grier Rd: on-street bike lanes and sidewalks
    3. Bill Gaudette Road: install bikes lanes

What Multimodal Enhancements Are Needed?

Complete and connected networks create a vision for efficient and safe travel, without a vehicle



What Multimodal Enhancements Are Needed?



Transit Supportive Projects

First/Last-Mile Connectivity to Existing Stops

Evaluation of Microtransit Options





Transportation Master Plan

ACTION PLAN TO MOVE MARANA FORWARD

Complete And Connected Networks

One vision for I-10, TIs, and Frontage Roads

Action Plan for Addressing Local Needs

Creating a Complete Multimodal Network

Next Steps

- Phase 2 Community Engagement
- Draft Final Report



MARANA AZ

TRANSPORTATION MASTER PLAN

Questions?