PINAL COUNTY
WIDE OPEN OPPORTUNITY

PINAL COUNTY FLOOD CONTROL DISTRICT
BOARD OF DIRECTORS
AGENDA FOR WORK SESSION
Wednesday, September 9, 2026

9:30 AM - CALL TO ORDER

PINAL COUNTY ADMINISTRATIVE COMPLEX
BOARD OF SUPERVISORS HEARING ROOM
135 N. PINAL STREET
FLORENCE, AZ 85132

Major Construction Notice Impacting Board Meeting Parking (including accessible parking and routes). View the Parking Details

BUSINESS BEFORE THE BOARD

1. Presentation and discussion of the San Tan Valley Area Drainage Master Plan. Supervisor Districts #1, #2, #4, and #5. (FL26-003) (Joshua Plumb/Joe Ortiz)

ADJOURNMENT

(SUPPORTING DOCUMENTS ARE AVAILABLE AT THE CLERK OF THE BOARD OF SUPERVISORS' OFFICE AND AT PINAL.GOV, AGENDAS AND MINUTES)

NOTE: One or more members of the Board may participate in this meeting by telephonic conference call.

In accordance with the requirement of Title II of the Americans with Disabilities Act (ADA), the Pinal County Board of Supervisors and Pinal County Board of Directors do not discriminate against qualified individuals with disabilities admission to public meetings. If you need accommodation for a meeting, please contact the Clerk of the Board Office at (520) 866-6068, at least (3) three business days prior to the meeting (not including weekends or holidays) so that your request may be accommodated.

Pursuant to A.R.S. 38-431.02, NOTICE IS HEREBY GIVEN, that the public will have physical access to the meeting room at 9:15 AM.

Meeting Notice of Posting

View the General Board Meeting Rules of Order

PINAL COUNTY
WIDE OPEN OPPORTUNITY

AGENDA ITEM

09/09/2026
Flood Control District Work Session Meeting

Funds #: 68
Dept. #: 311
Dept. Name: Development Services Public Works
Requested By: Joshua Plumb/Joe Ortiz

AGENDA ITEM AND REQUESTED BOARD ACTION:

Presentation and discussion of the San Tan Valley Area Drainage Master Plan. Supervisor Districts #1, #2, #4, and #5. (FL26-003) (Joshua Plumb/Joe Ortiz)

EXPECTED PERFORMANCE IMPACT OF THIS AGENDA ITEM:

There are no expected performance impacts associated with this agenda item.

MOTION:

Information Only.

Fiscal Impact

Fiscal Year:
Budgeted Y/N:
Account(s):

FISCAL CONSIDERATIONS AND/OR EXPECTED FISCAL IMPACT OF THIS AGENDA ITEM:

There are no expected fiscal considerations or impacts to the General Fund, as this program is funded through the Half-Cent Transportation Excise Sales Tax and this is not an action item.

Attachments

Presentation
09.09.2026 Presentation

PINAL COUNTY

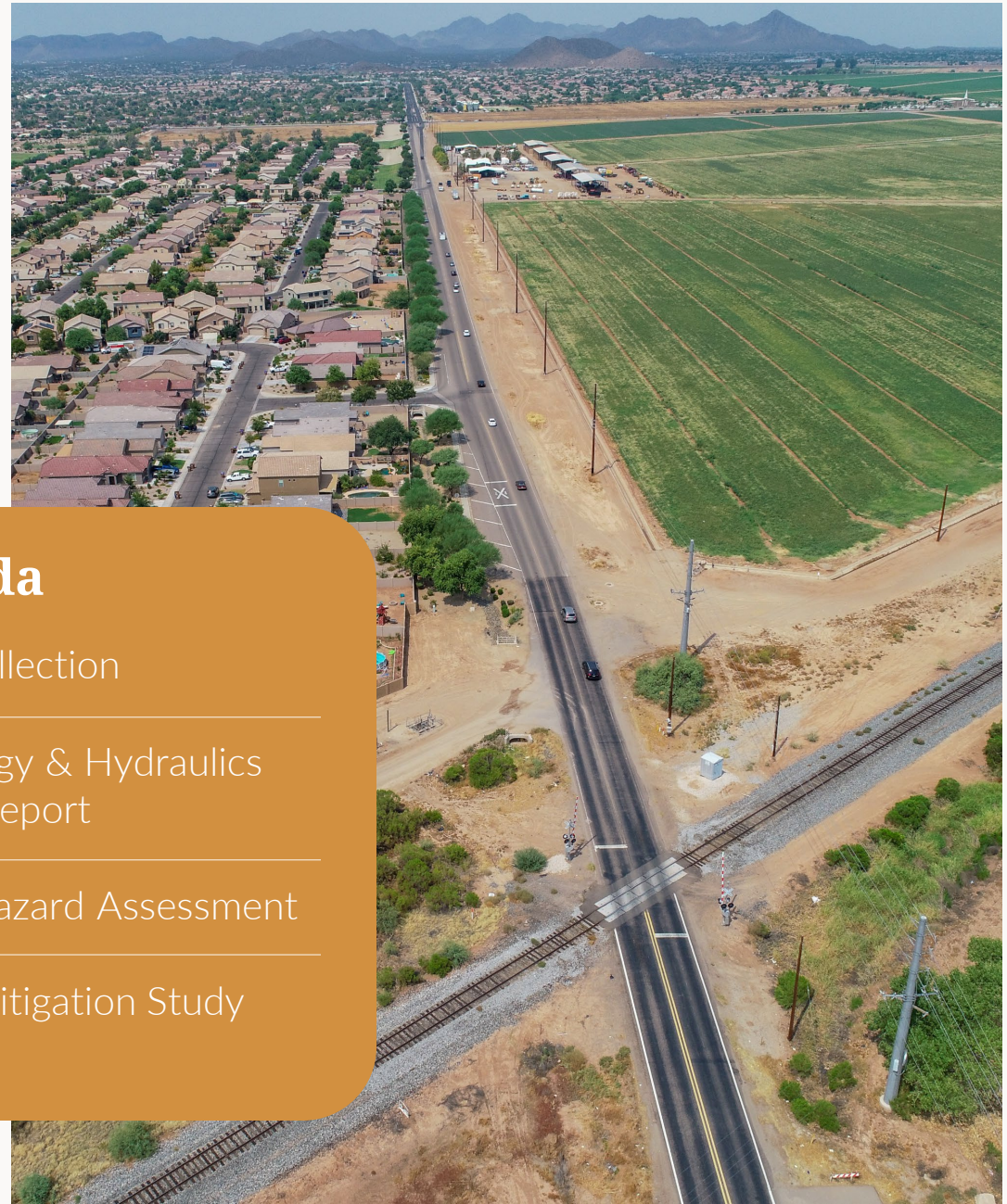
WIDE OPEN OPPORTUNITY

San Tan Valley Area Drainage Master Plan (ADMP)

September 2026

Project Overview

The San Tan Valley ADMP addresses today's flooding challenges while preparing for future growth. By analyzing drainage patterns within the Queen Creek watershed, we are developing a clear, prioritized strategy to protect homes, businesses, and infrastructure with practical, cost-effective solutions.



Agenda

Data Collection

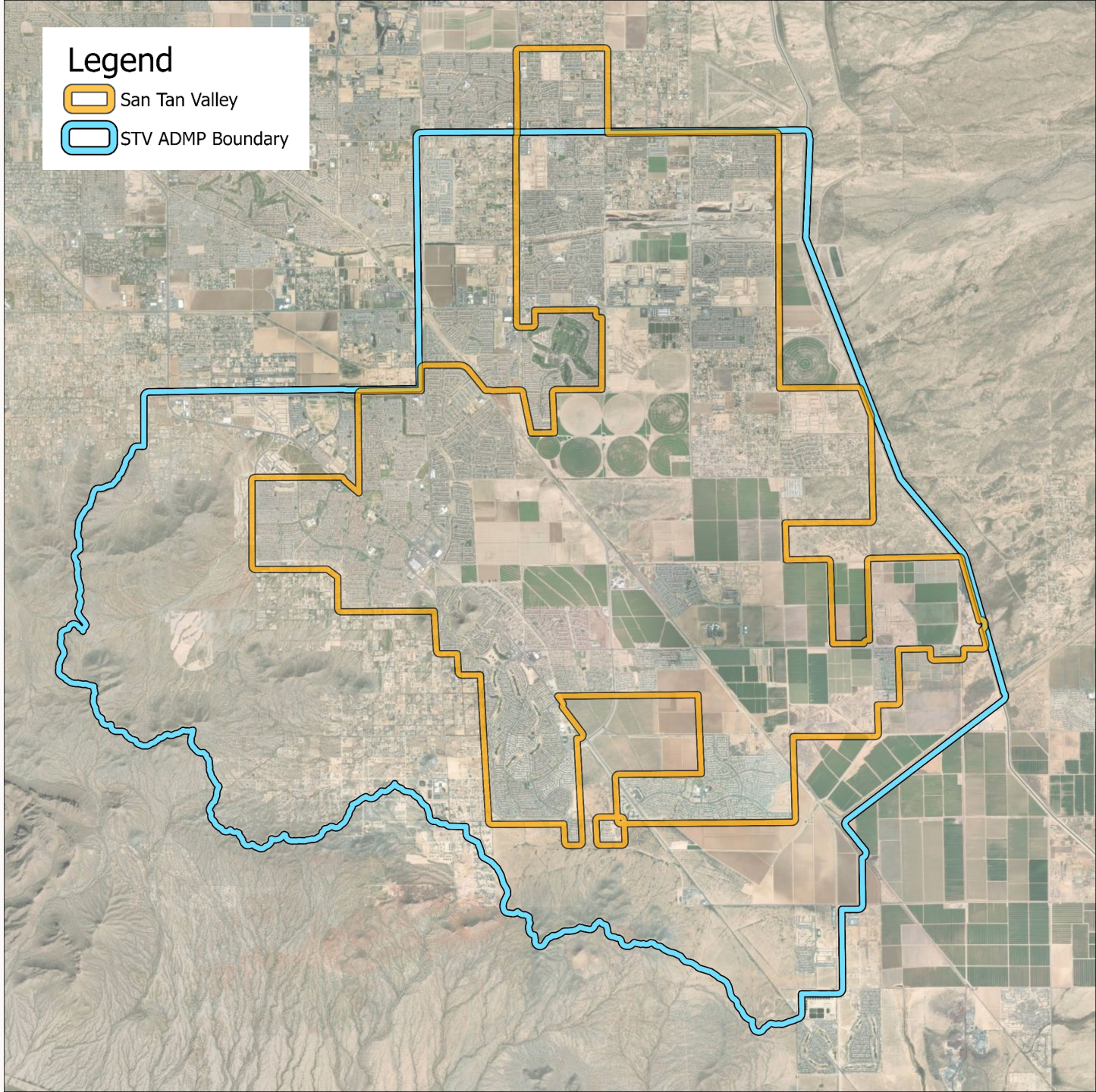
Hydrology & Hydraulics (H&H) Report

Flood Hazard Assessment

Flood Mitigation Study

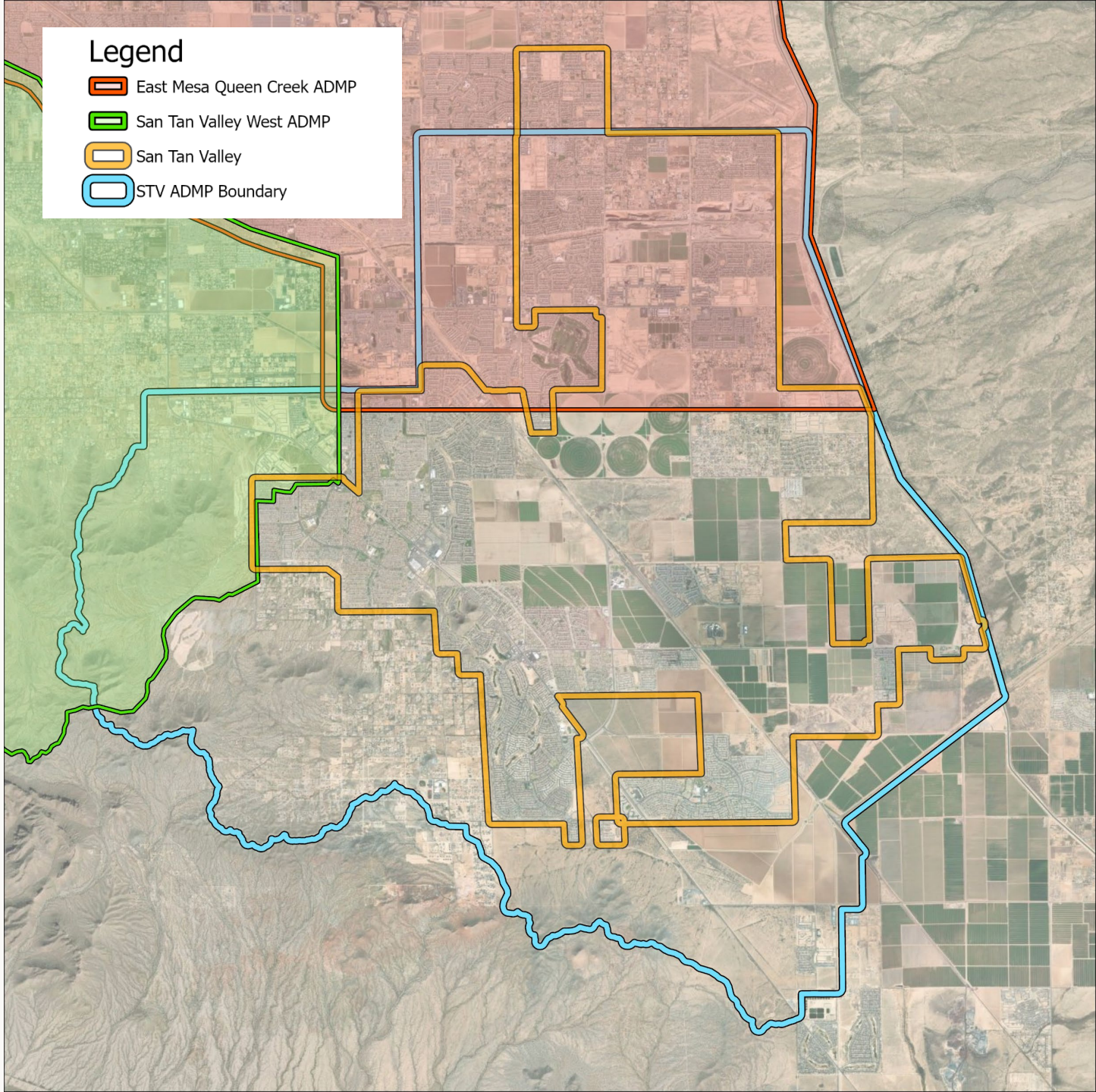
Data Collection

- **STV ADMP Study**
  → 68 Square Miles
- **San Tan Valley Town Limits**
  → 34.6 Square Miles



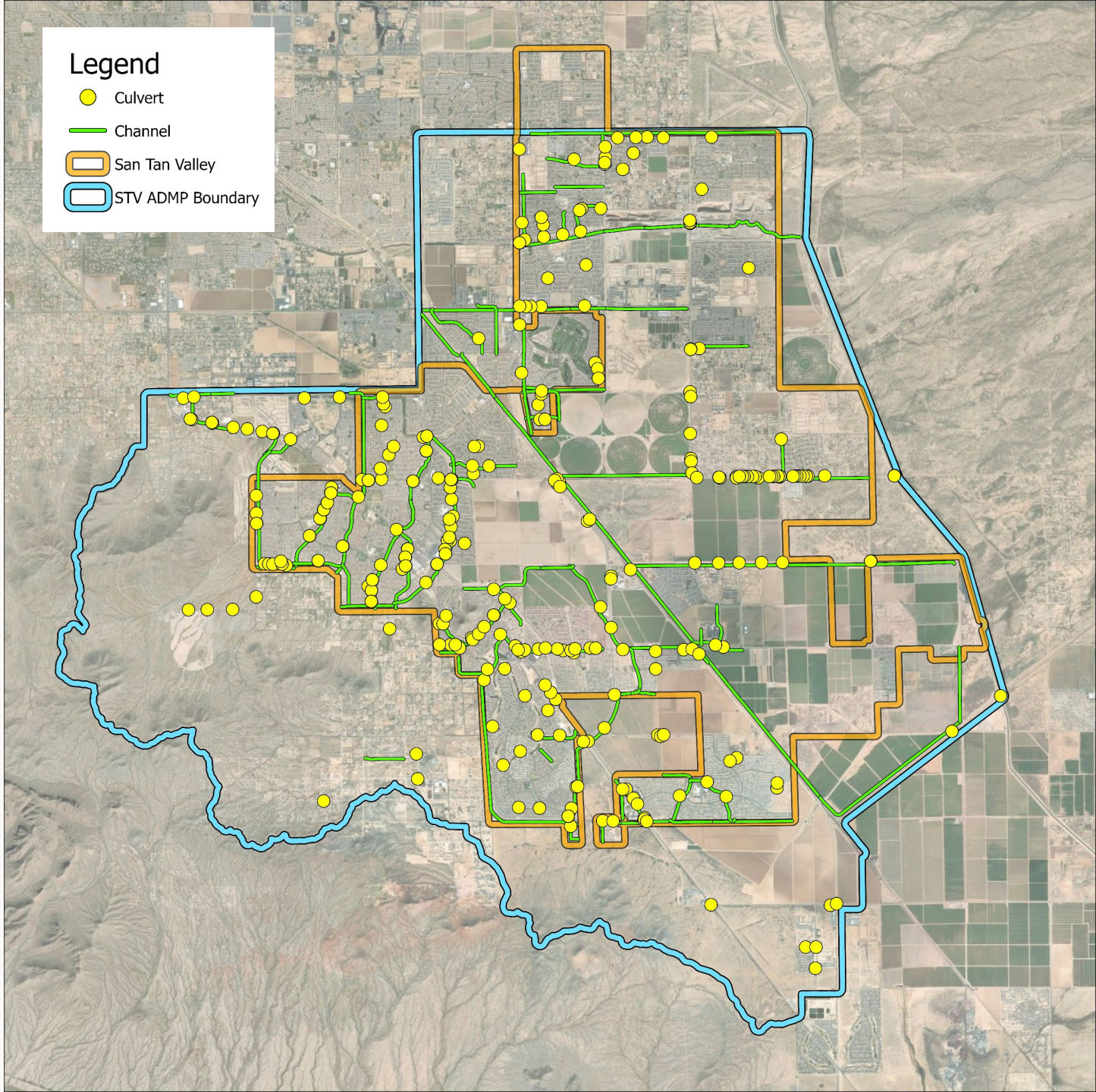
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- Adjacent Studies by the FCDMC
  - Queen Creek East Mesa ADMS/P
  - San Tan West ADMS/P Update



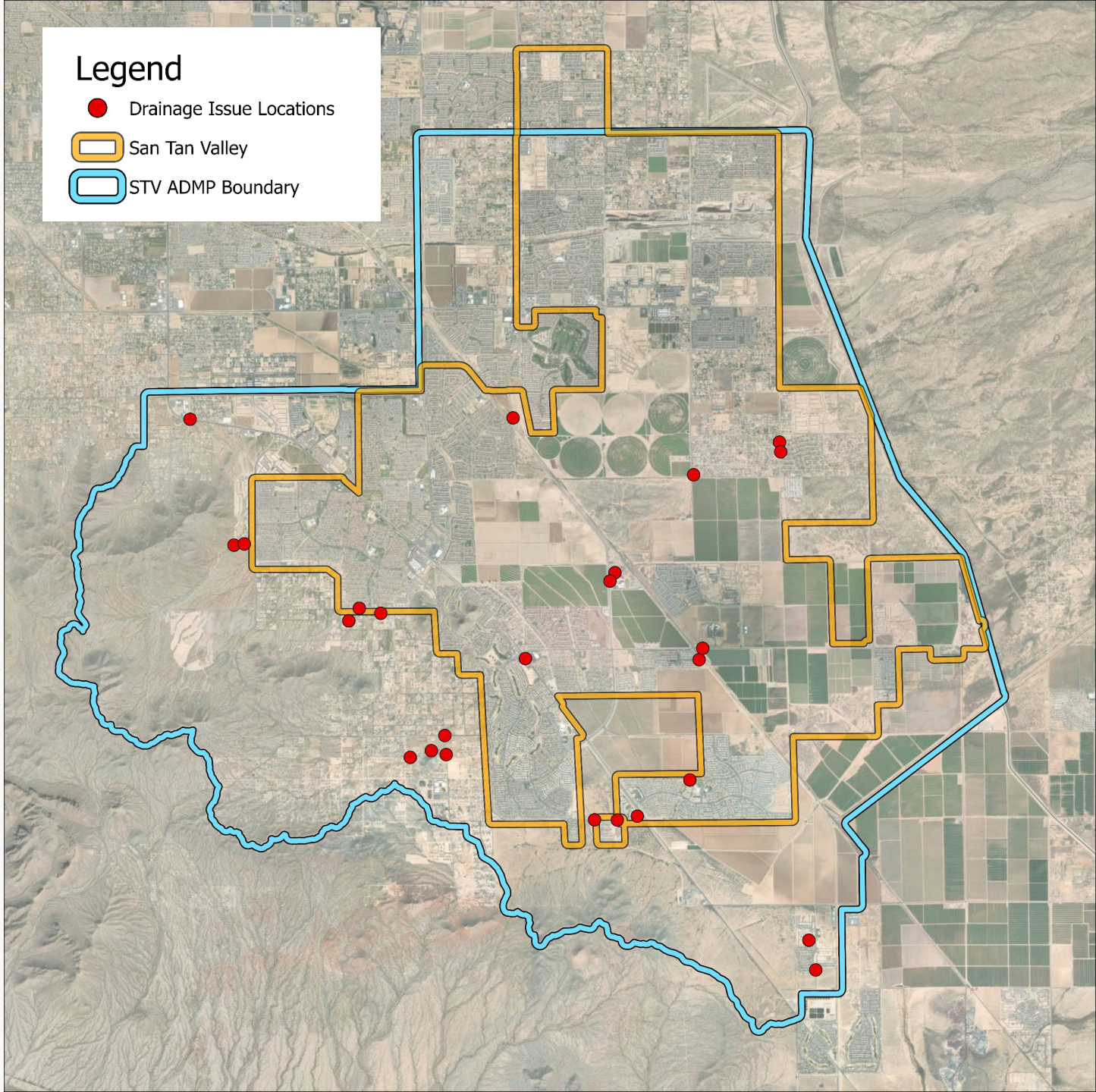
Data Collection

- **Hydraulic Structures**
  - → 267 Culverts
  - → 74.5 Miles of Channels



Data Collection

- **Drainage Issues**
  - → Compiled County's known drainage issue locations
  - → Survey 123 through NextDoor and County Social Media
  - → Held public meeting



Data Collection





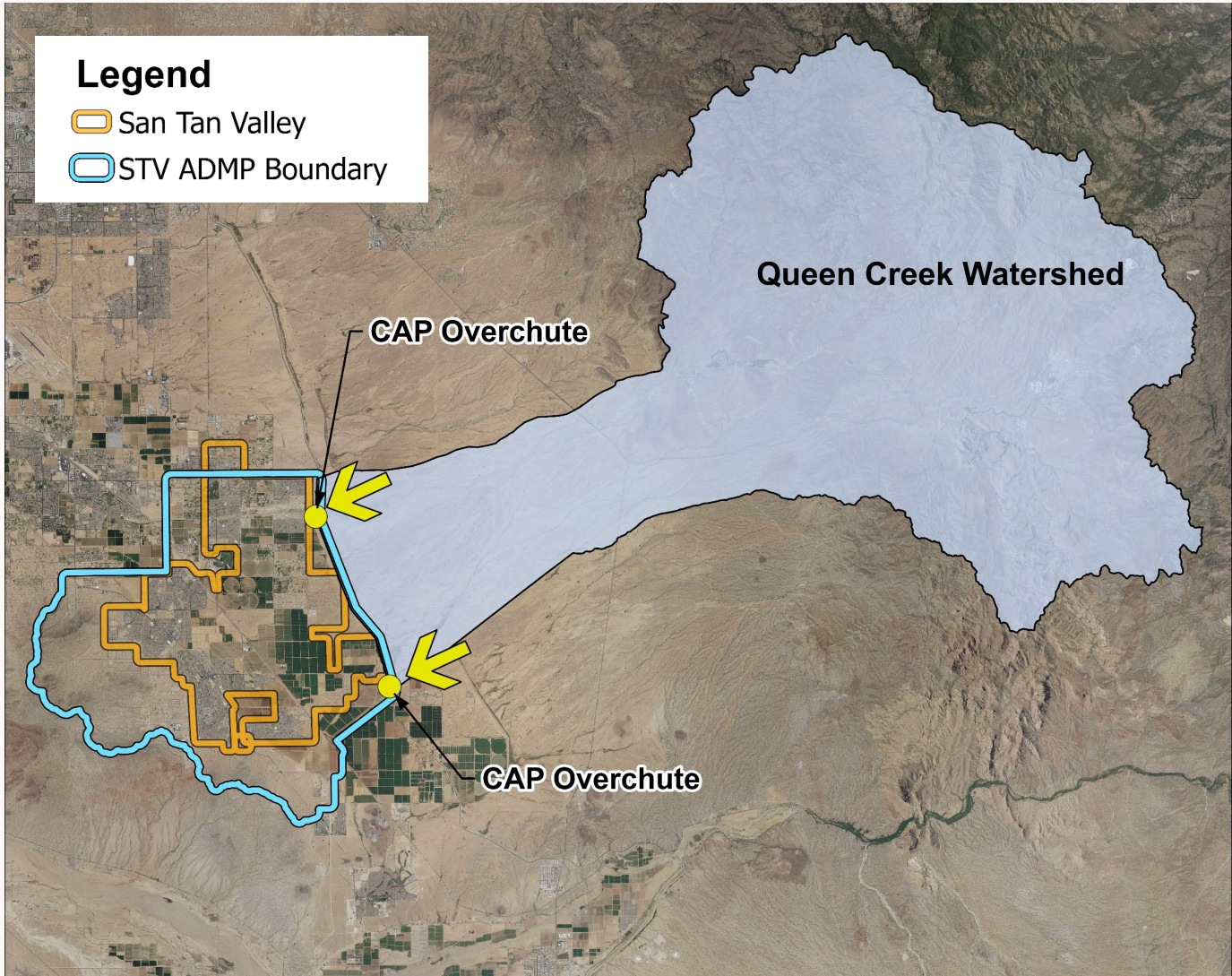






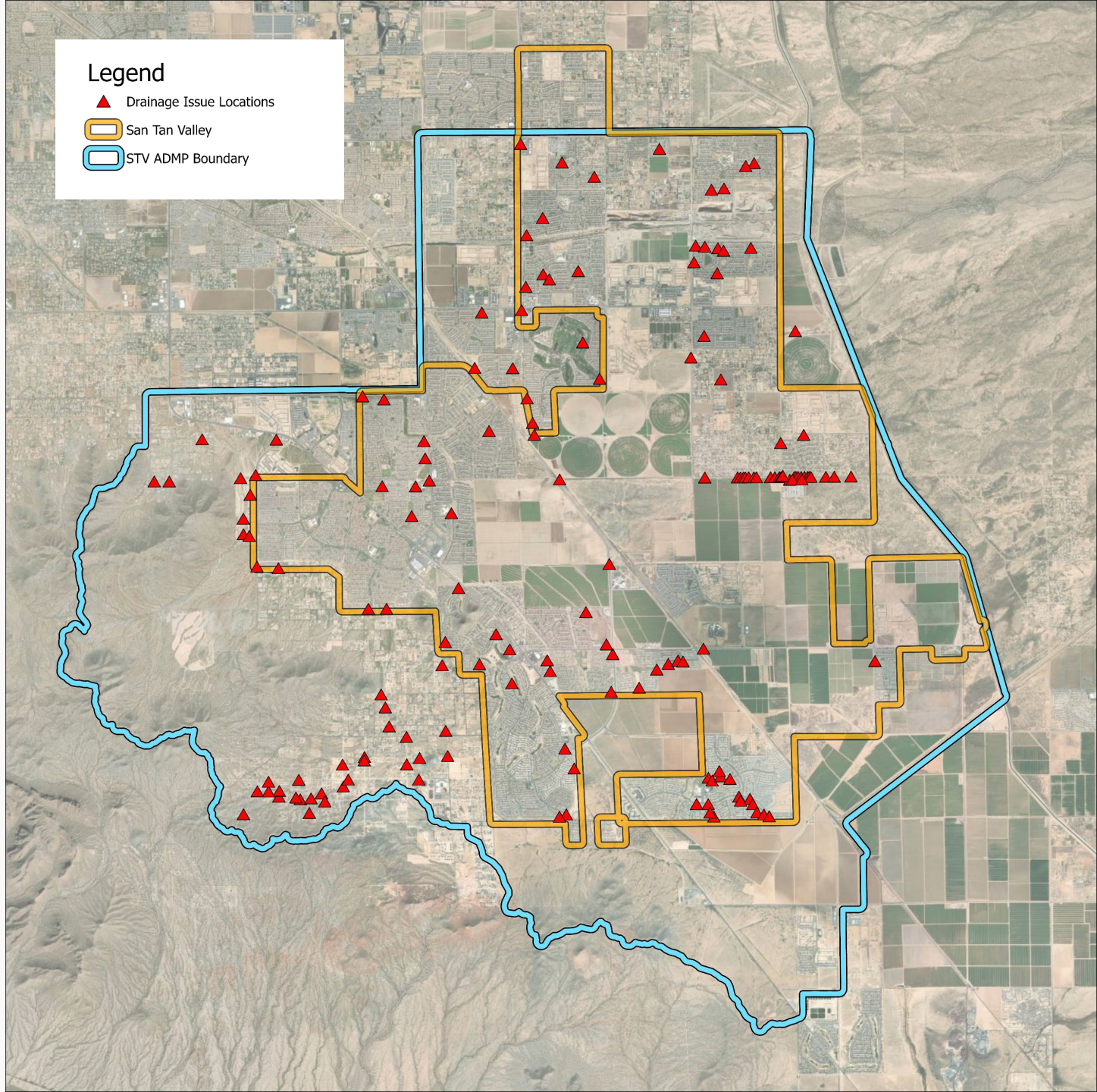
Hydrology & Hydraulics (H&H) Report

- Complex Hydraulics
- Offsite Queen Creek Watershed (~260 sq miles)
- Modeled using HEC-RAS 2D – new infiltration option
- Modeled multiple storm events
  - → 100-year, 24-hour
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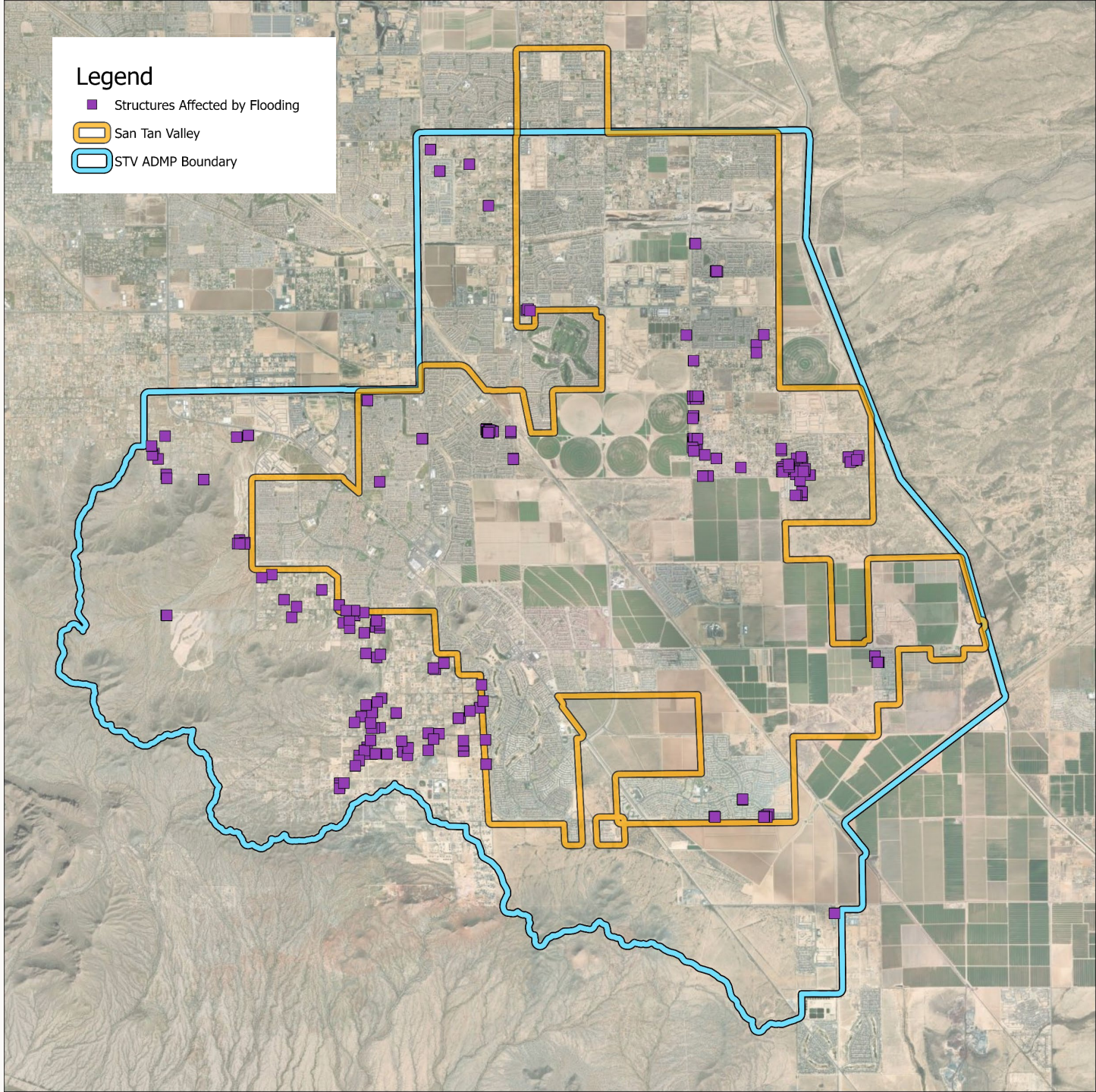
Flood Hazard Assessment

- Compare modeling results with identified issues
- Identified other potential drainage issues



Flood Hazard Assessment

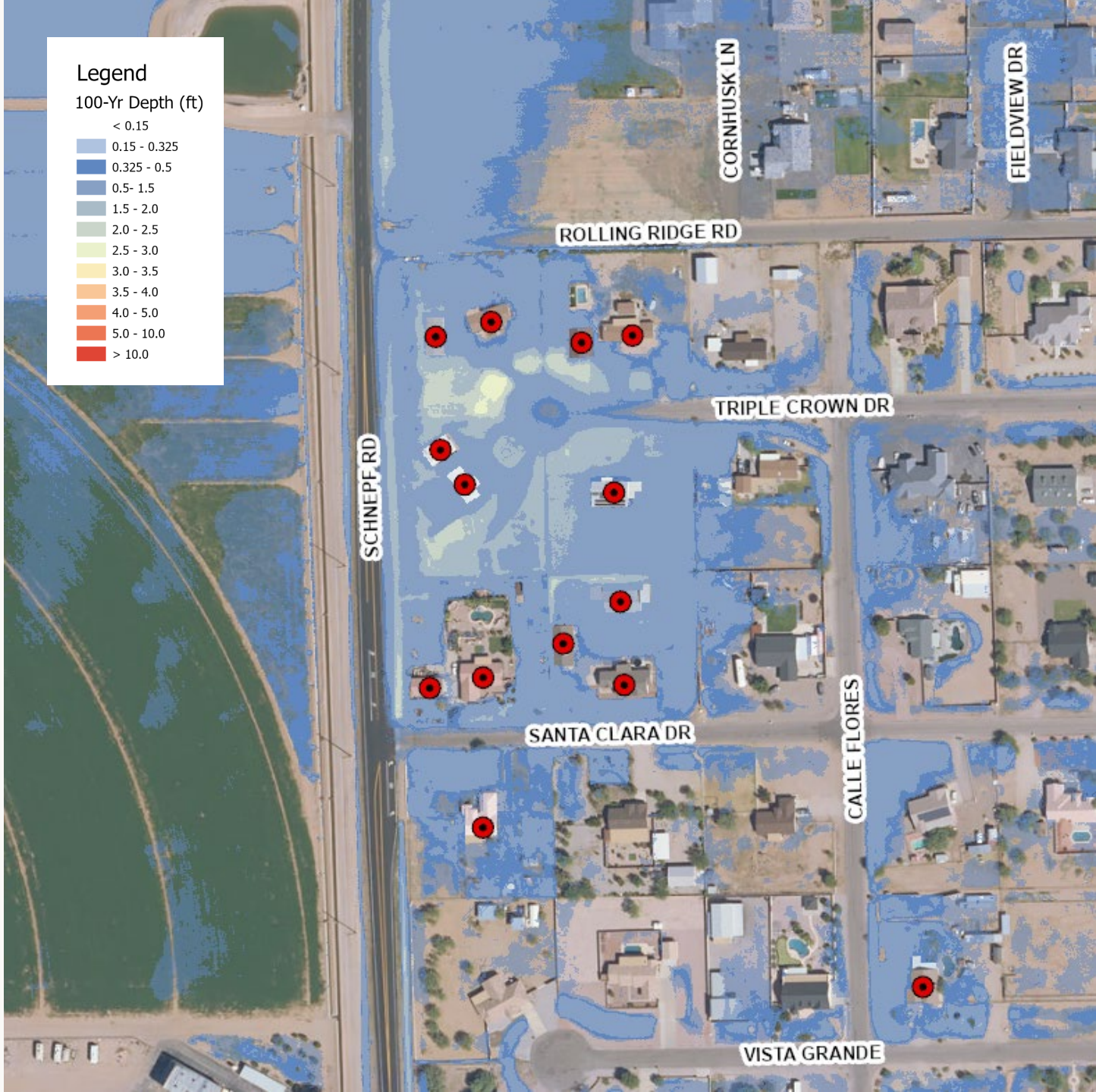
- Identified structures impacted by flooding



Flood Hazard Assessment

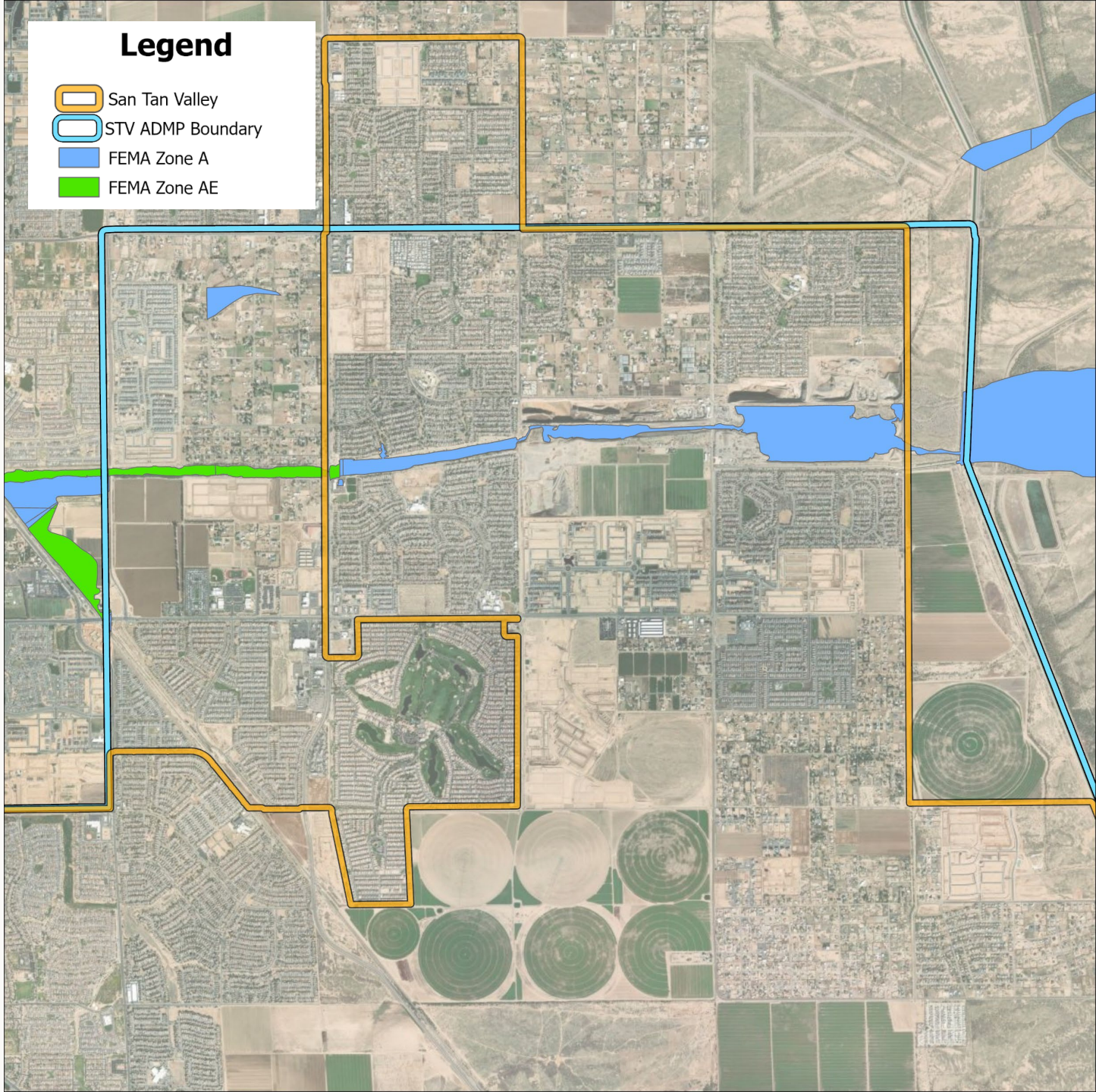
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Storm Event	Number of Structures
10-Year, 6-Hour	43
10-Year, 24-Hour	66
100-Year, 6-Hour	147
100-Year, 24-Hour	222
Total Unique Structures Identified	222



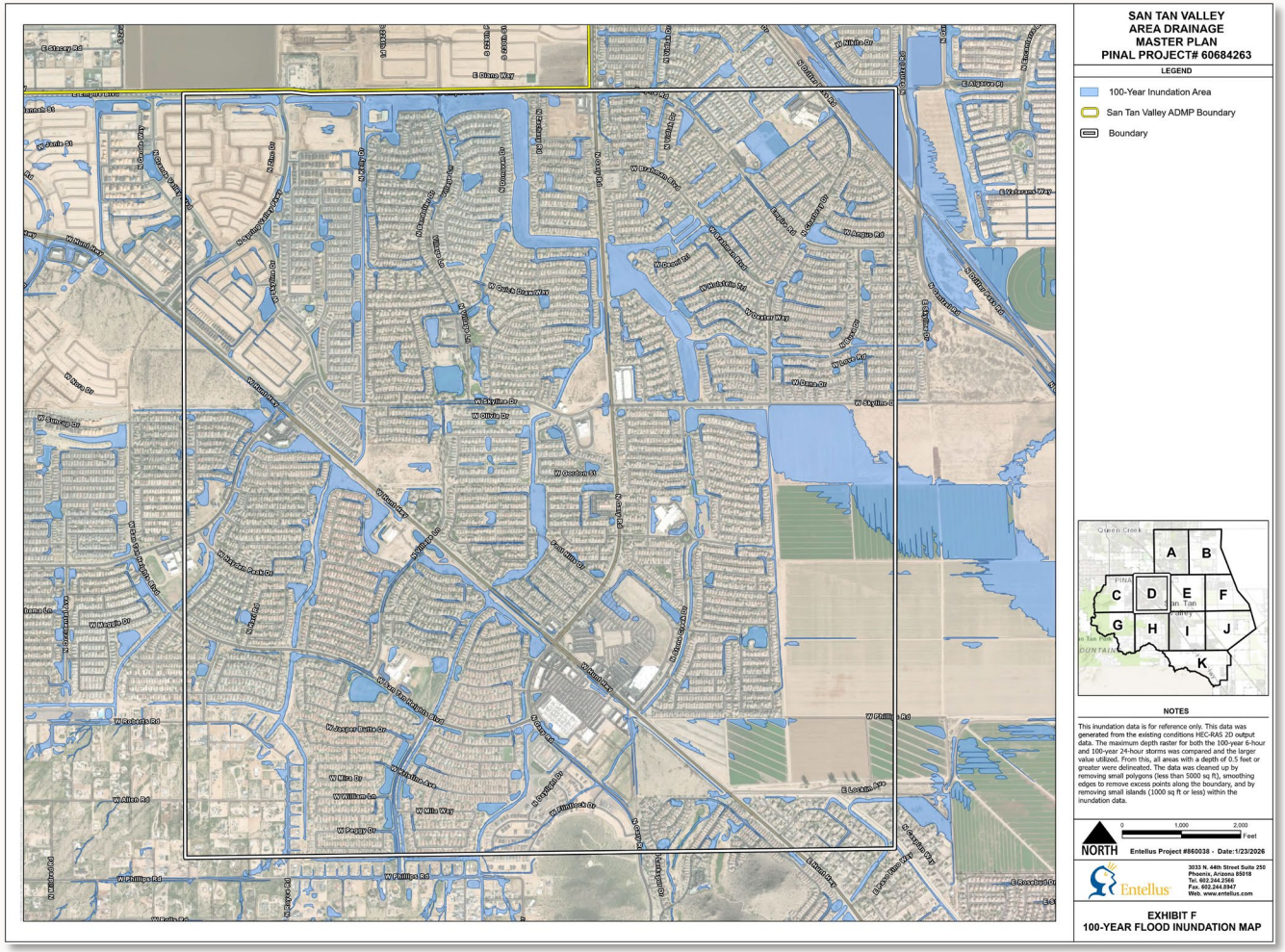
Flood Hazard Assessment

- Existing FEMA Floodplain Maps
- Only Queen Creek Wash is Currently Mapped



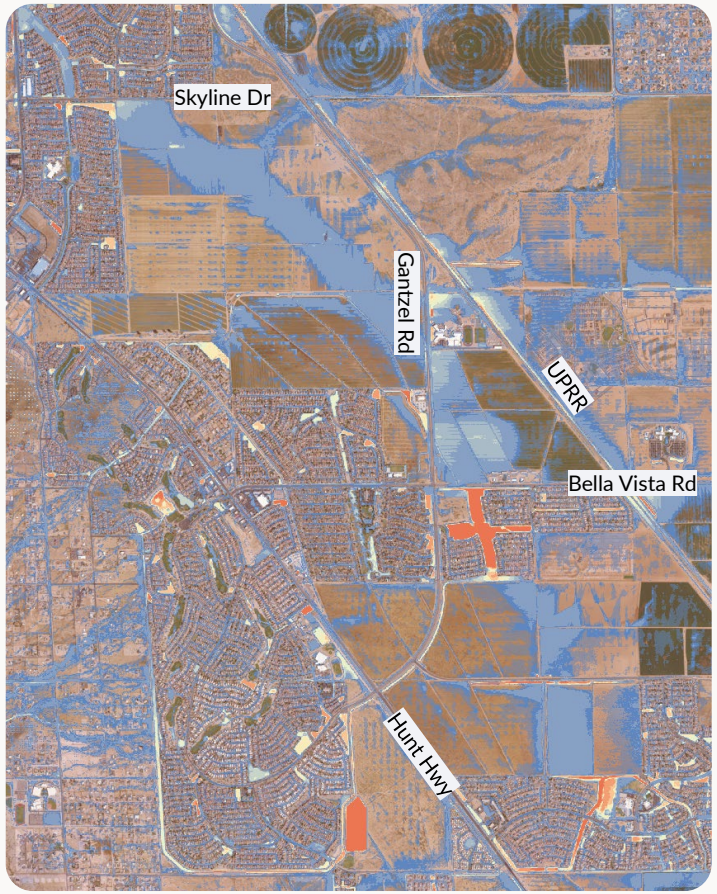
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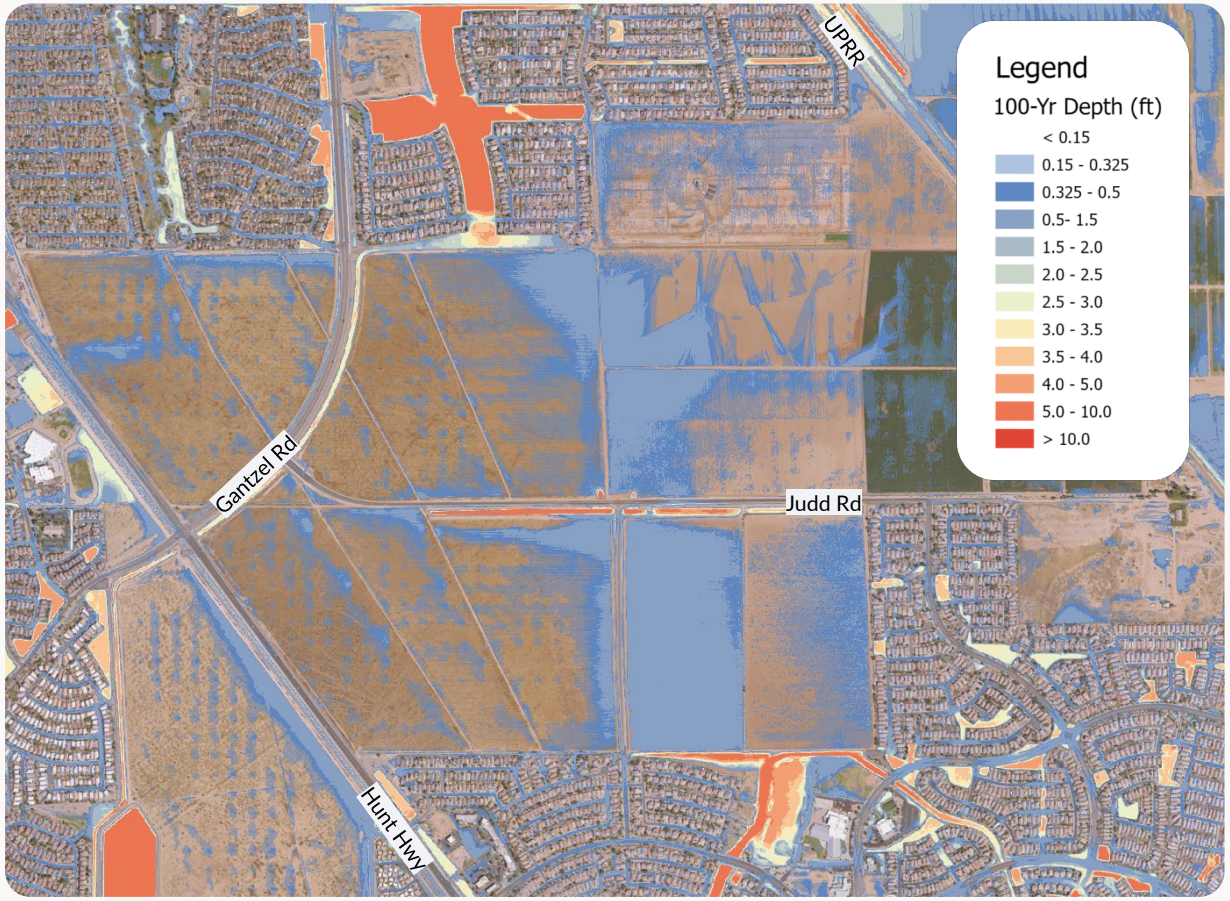
- Inundation Mapping (100-year)



Flood Hazard Assessment

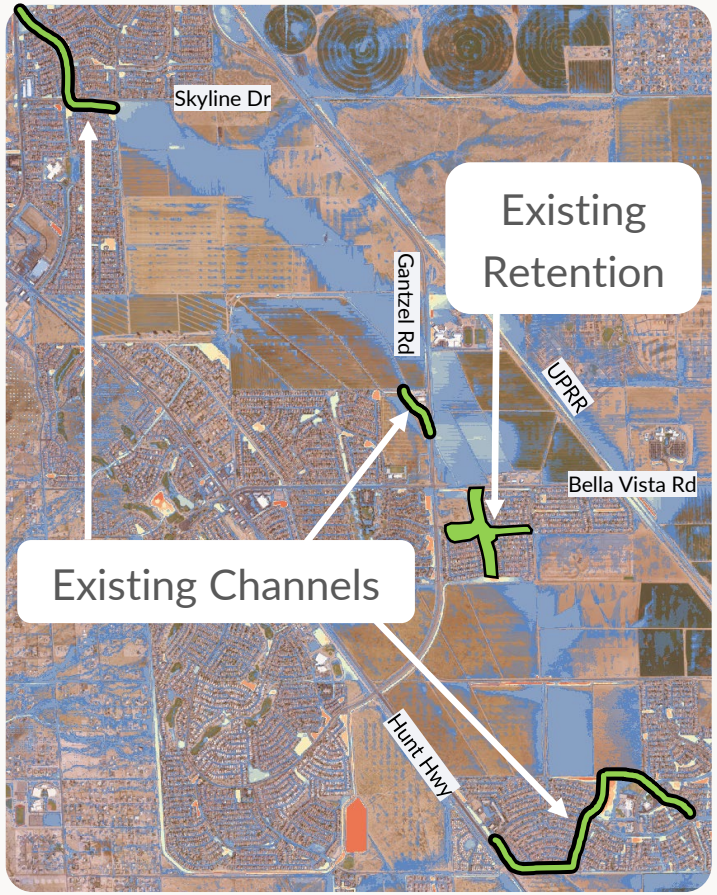
- Discontinuous Drainage Infrastructure

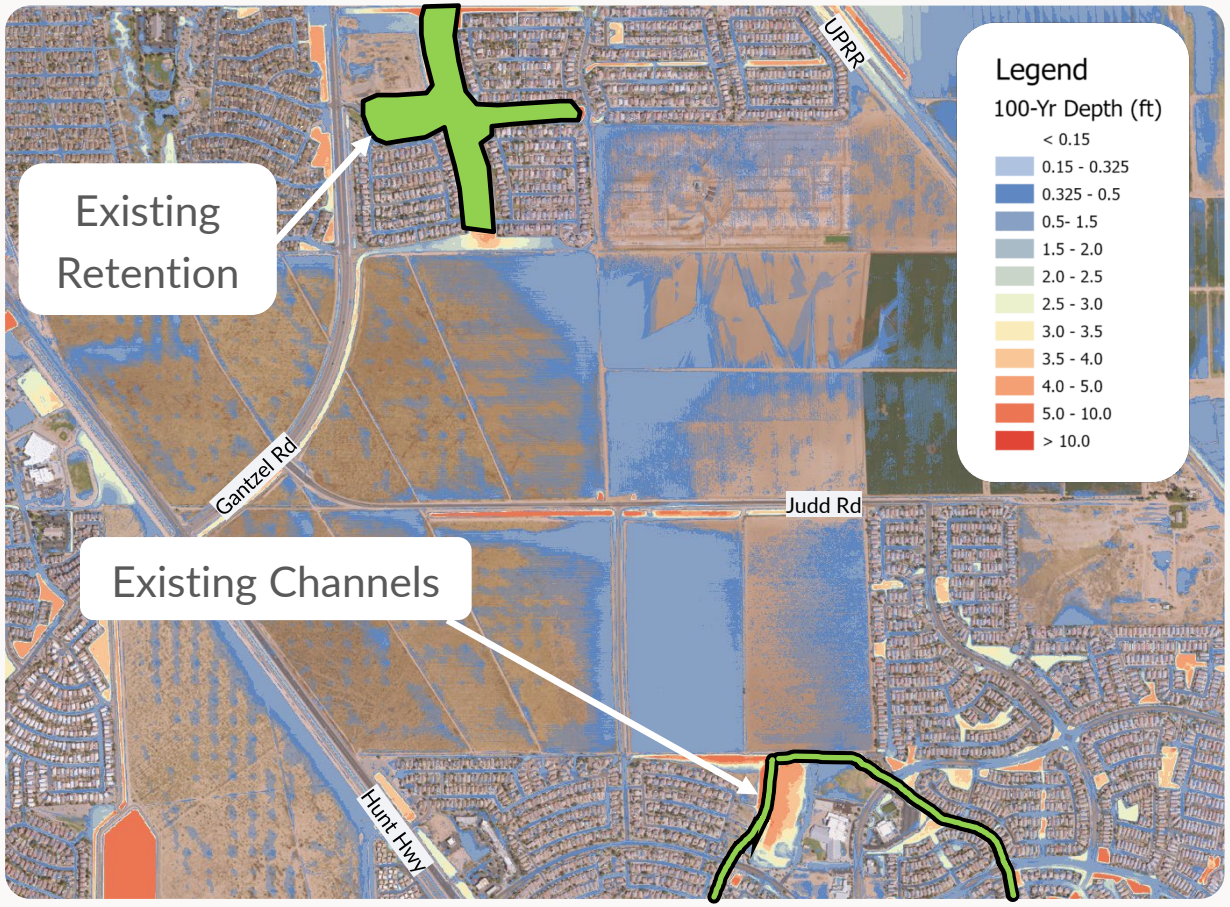




Flood Hazard Assessment

- Discontinuous Drainage Infrastructure

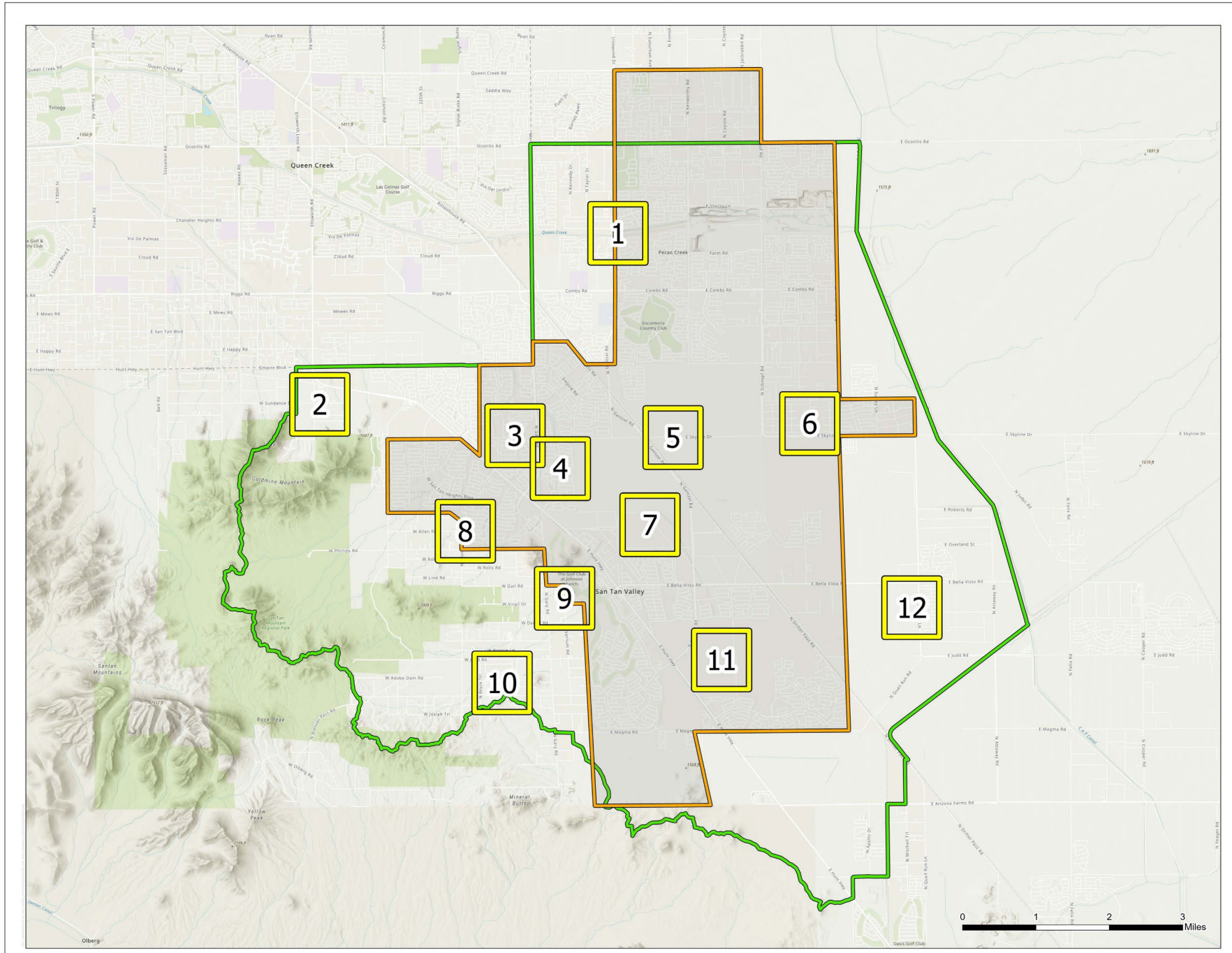




Flood Hazard Study

- **Regional versus local drainage issues**
- **Developed solution concepts**
  - → Culverts
  - → Channels
  - → Retention Basins
  - → Storm drains
- **Modeled and determined impacts**
- **Meetings with major stakeholders**





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SAN TAN VALLEY
AREA DRAINAGE MASTER PLAN
PINAL PROJECT #60684263

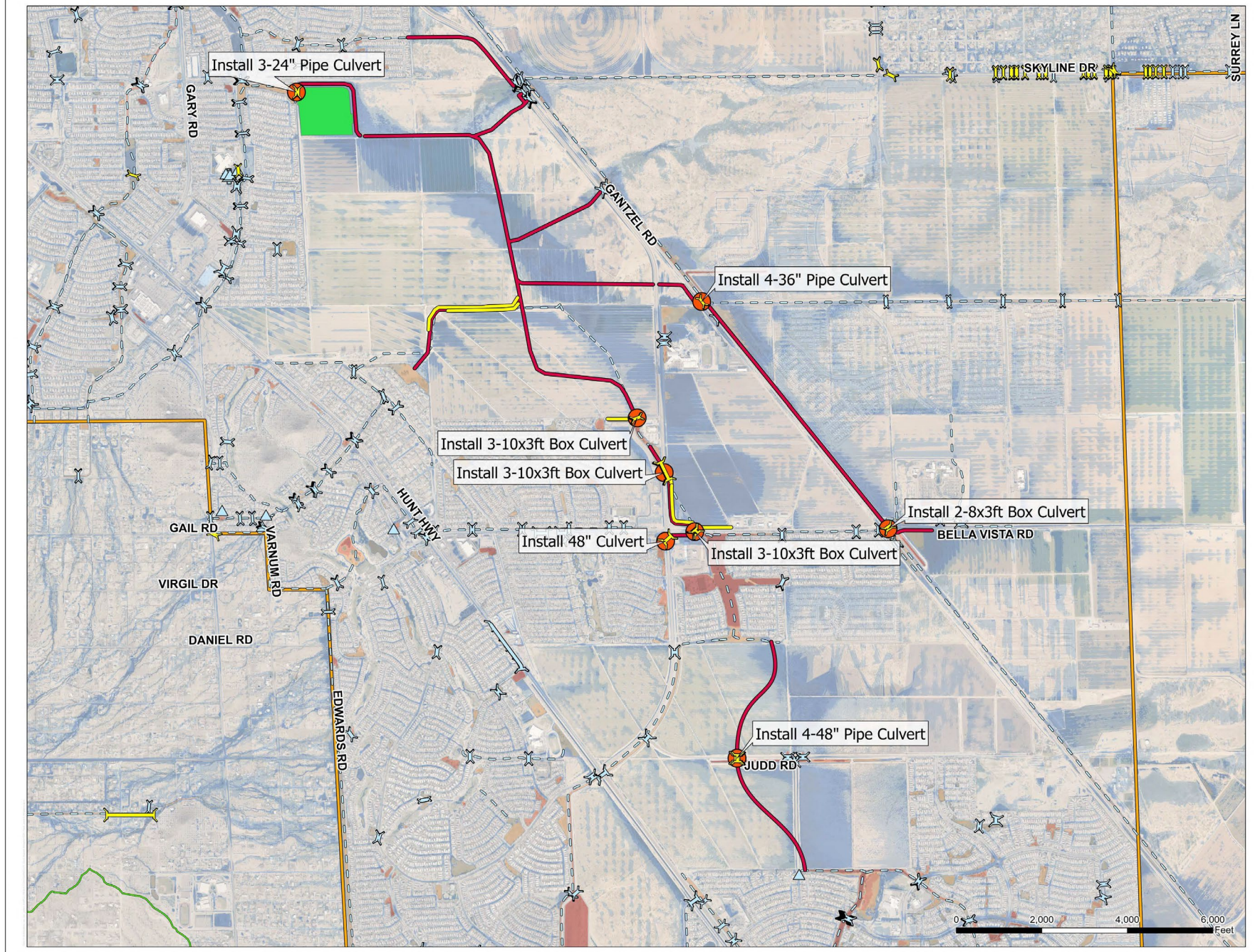
LEGEND

- Area of Interest (AOI) Location
- Town of San Tan Valley
- ADMP Study Boundary

NORTH

Date:6/16/2026

RECOMMENDED ALTERNATIVES
ALL LOCATIONS



PINAL COUNTY
WIDE OPEN OPPORTUNITY

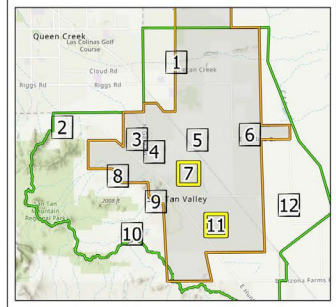
SAN TAN VALLEY
AREA DRAINAGE MASTER PLAN
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LEGEND

Recommended Solutions
- Culvert Location
- Culvert Barrel
- Proposed/Regraded Channel
- Proposed Embankments
- Construct Retention Basin

Existing Features
- Catch Basin
- Headwall
- Scupper
- Culvert Barrel
- Channel

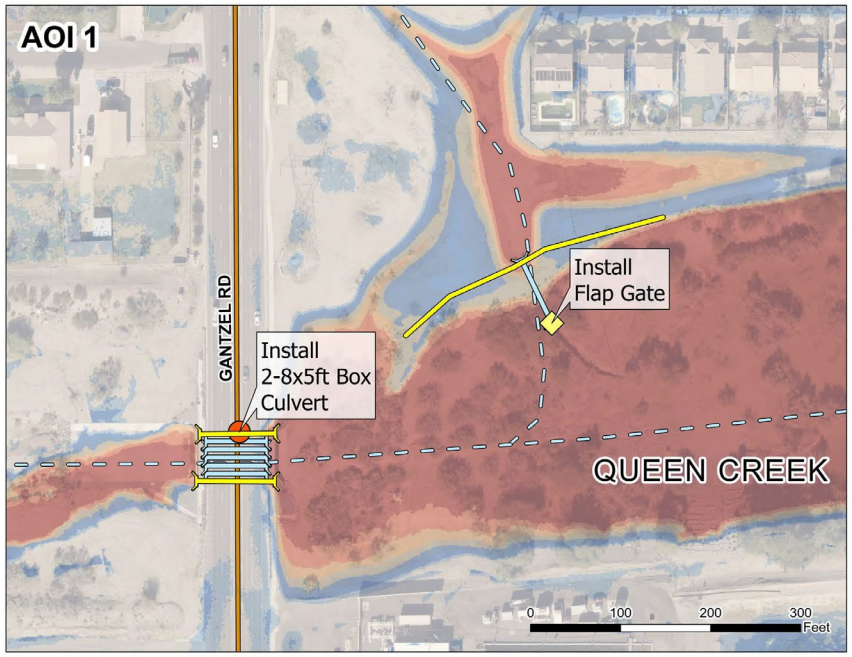
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- ADMP Study Boundary
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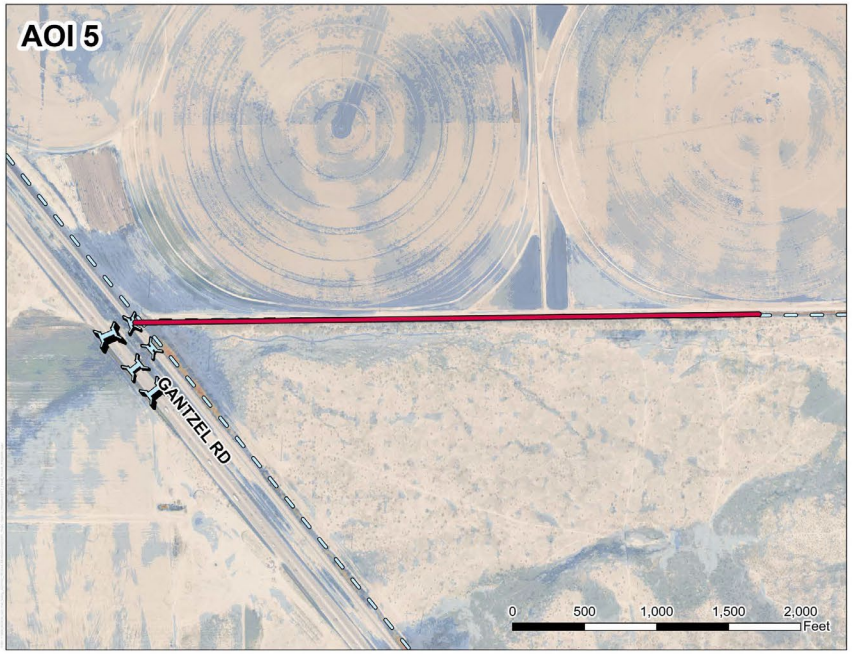
NORTH

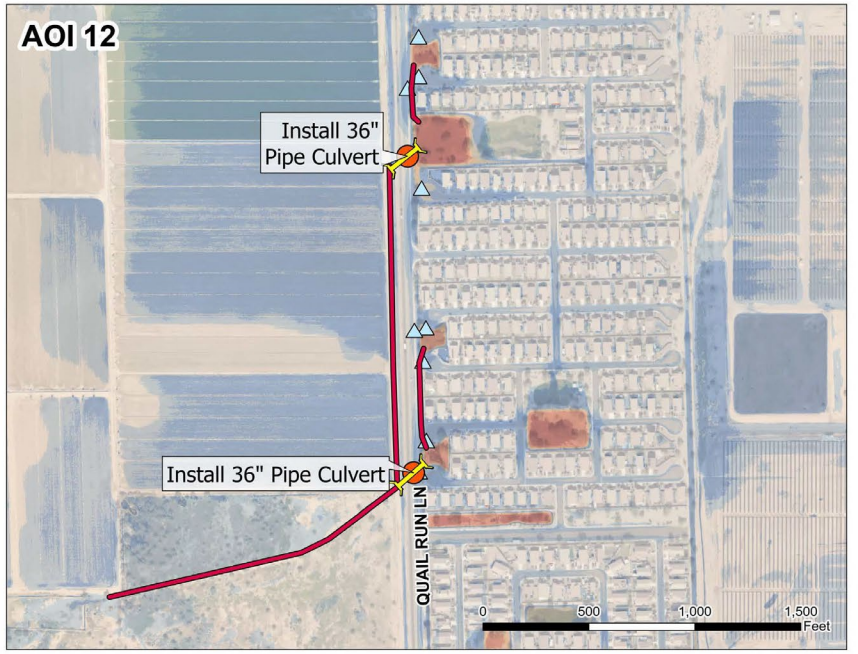
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RECOMMENDED ALTERNATIVES
AOI 7 AND 11









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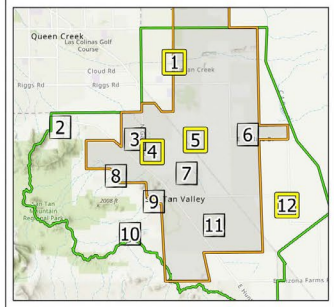
SAN TAN VALLEY
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LEGEND

Recommended Solutions
- Culvert Location
- Flap Gate
- Culvert Barrel
- Proposed/Regraded Channel
- Proposed Embankments

Existing Features
- Catch Basin
- Headwall
- Scupper
- Channel

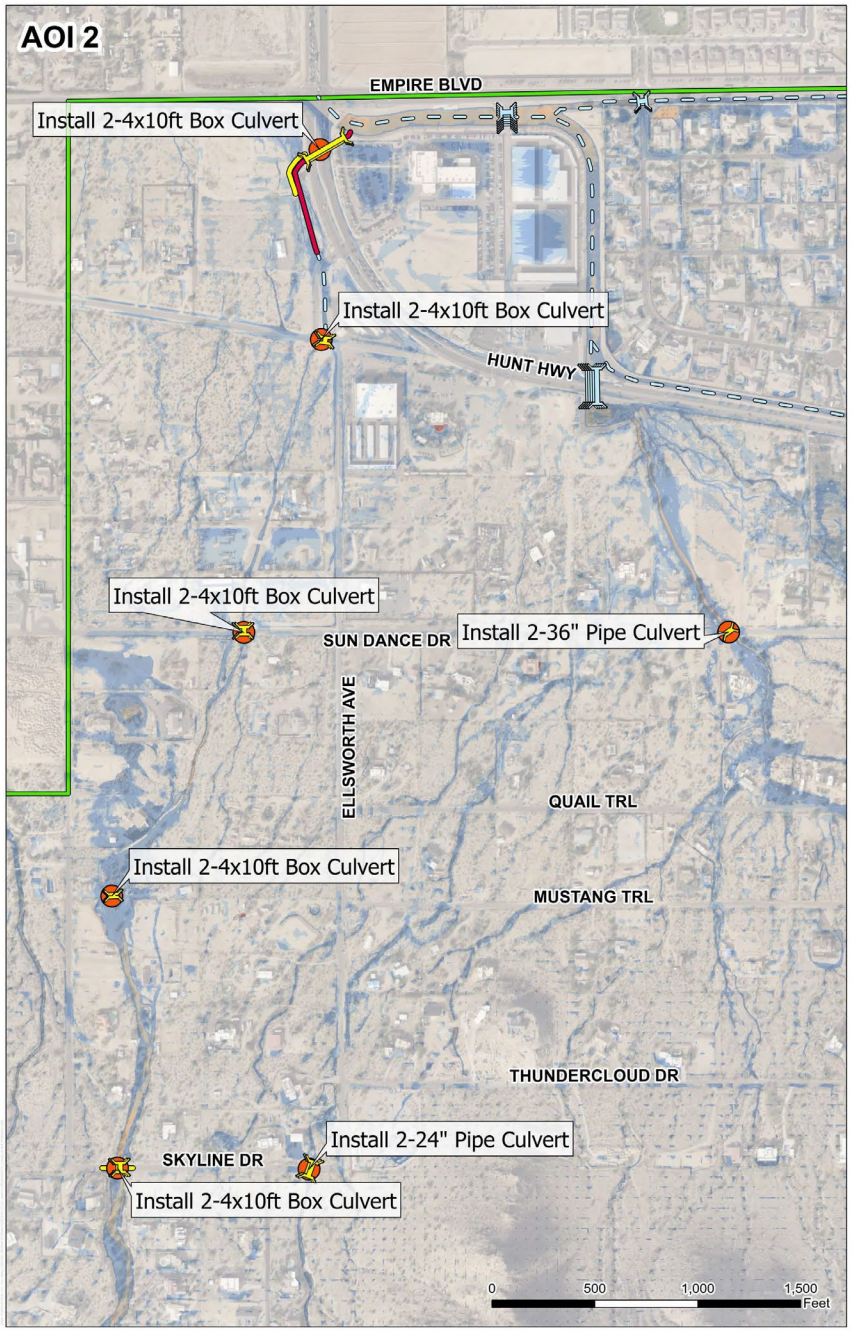
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NORTH

Date:6/16/2026

RECOMMENDED ALTERNATIVES
AOI 1, 4, 5, AND 12





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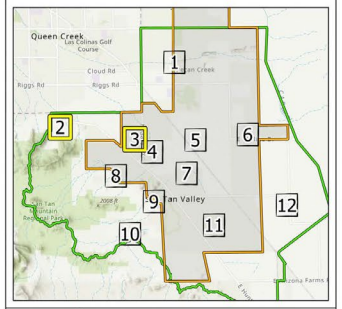
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LEGEND

Recommended Solutions
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- Culvert Barrel
- Proposed/Regraded Channel
- Proposed Embankments
- Regrade Basin

Existing Features
- Catch Basin
- Headwall
- Scupper
- Culvert Barrel
- Channel

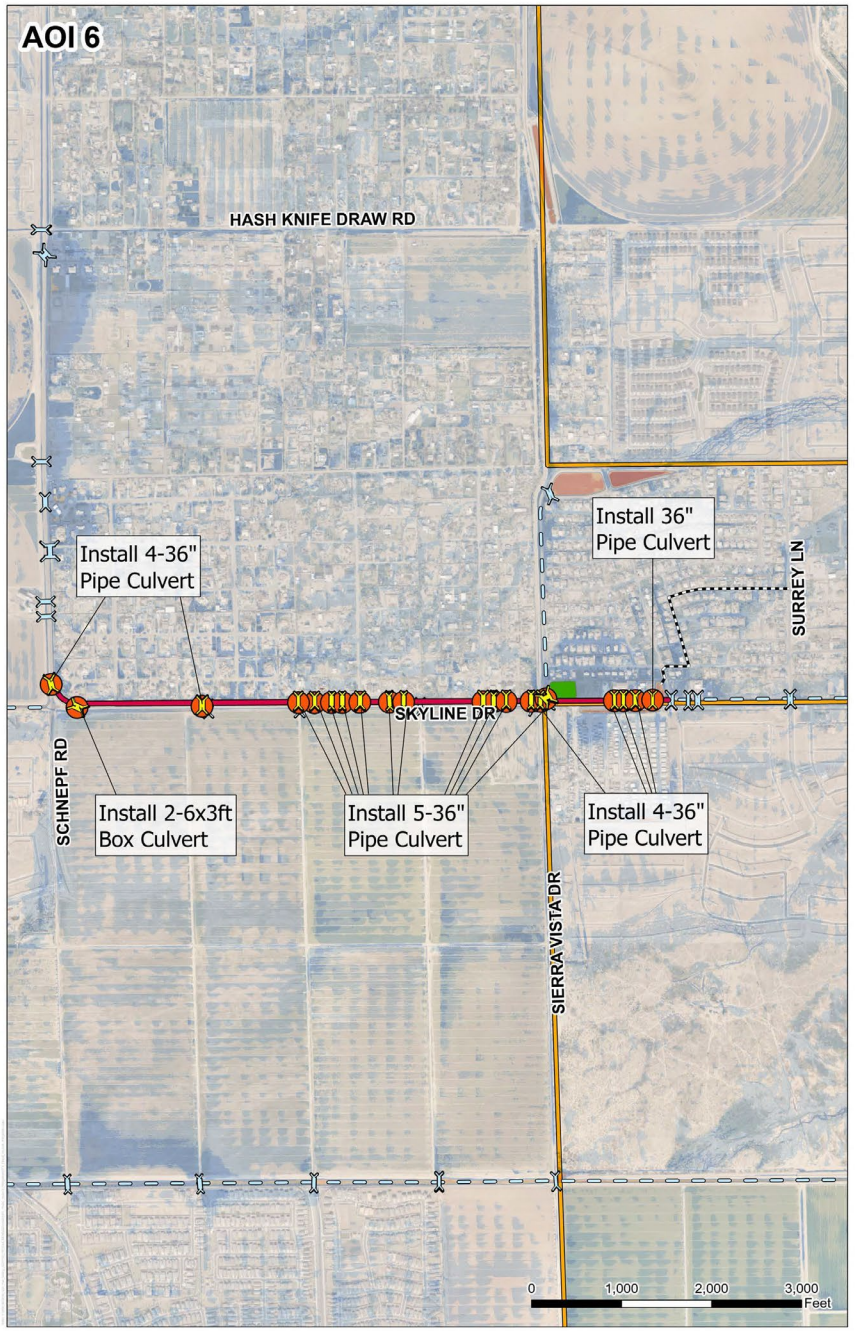
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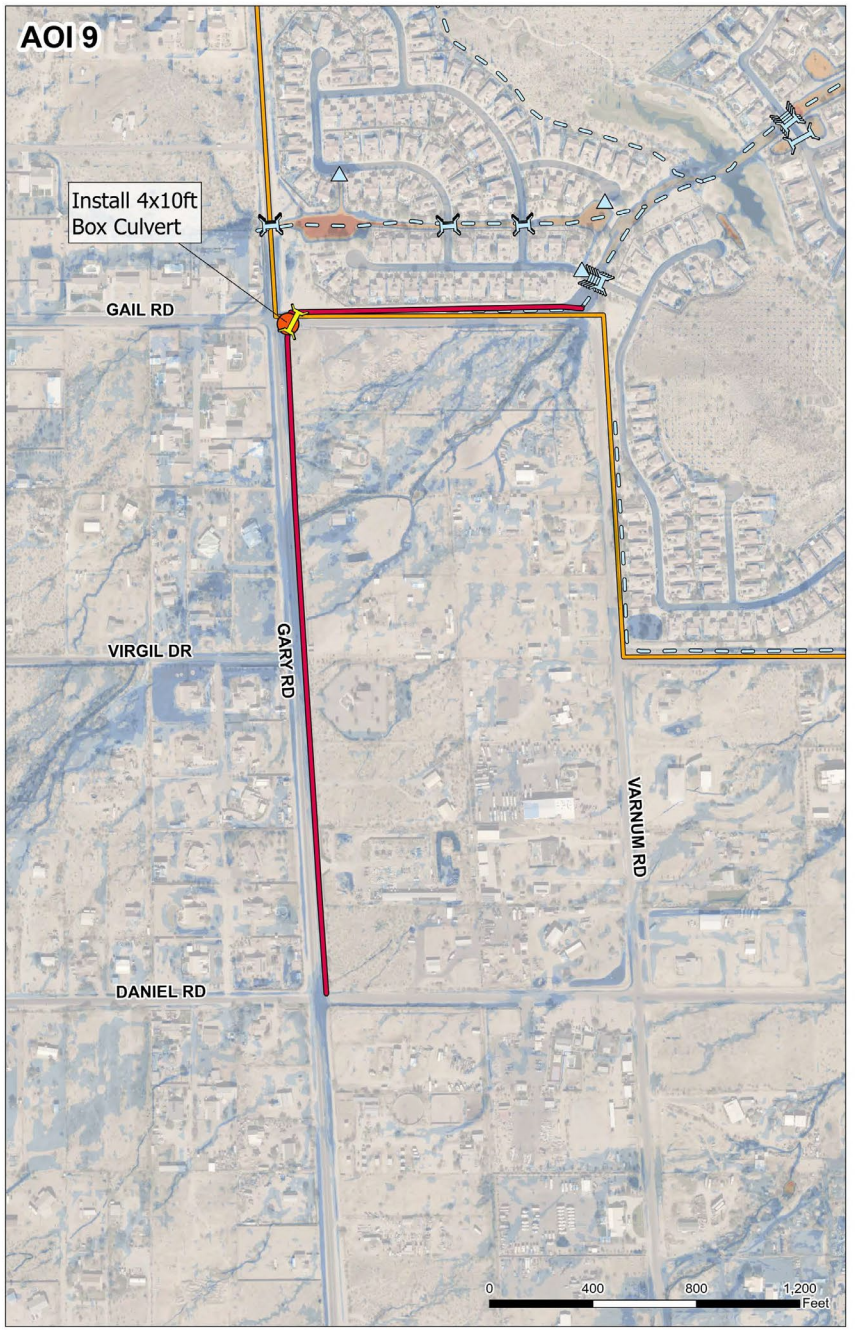


NORTH

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RECOMMENDED ALTERNATIVES
AOI 2 AND 3





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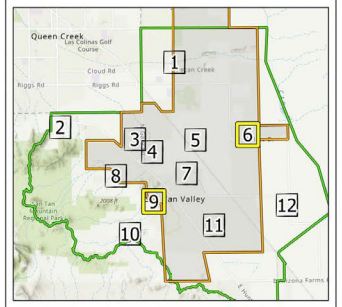
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LEGEND

Recommended Solutions
- Culvert Location
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- Construct Retention Basin

Existing Features
- Scupper
- Culvert Barrel
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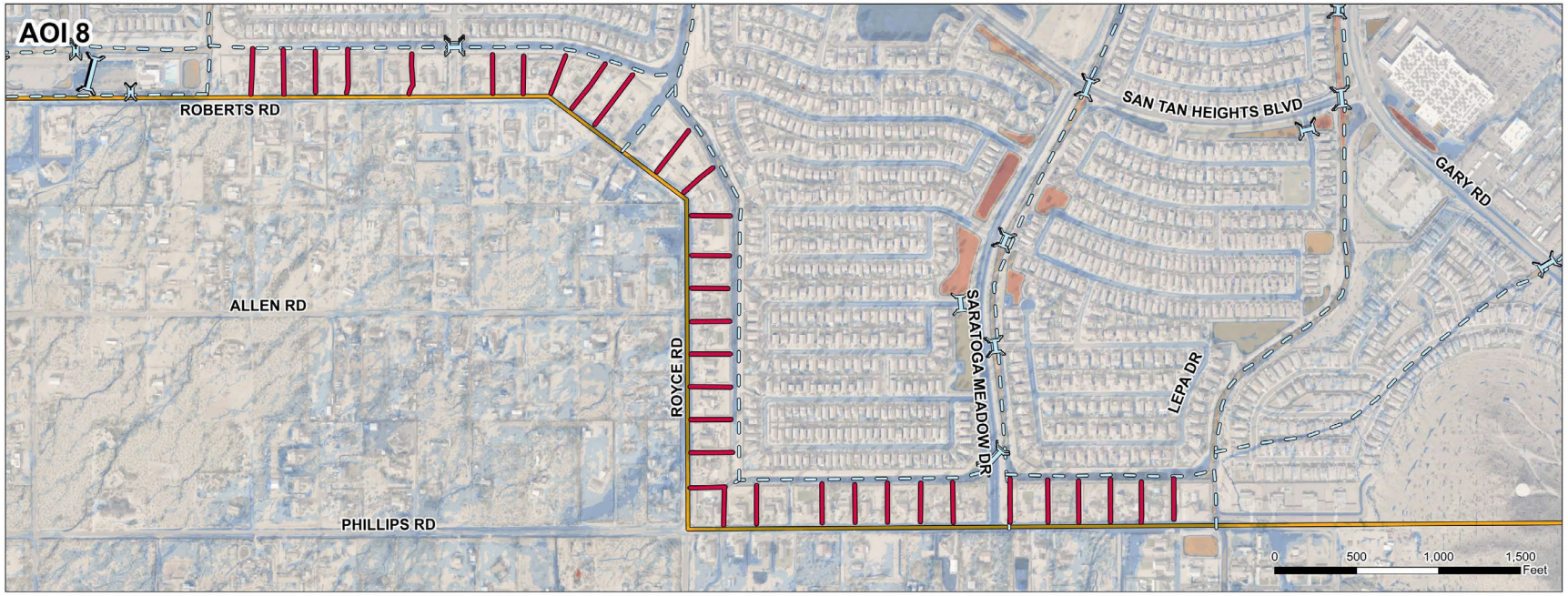
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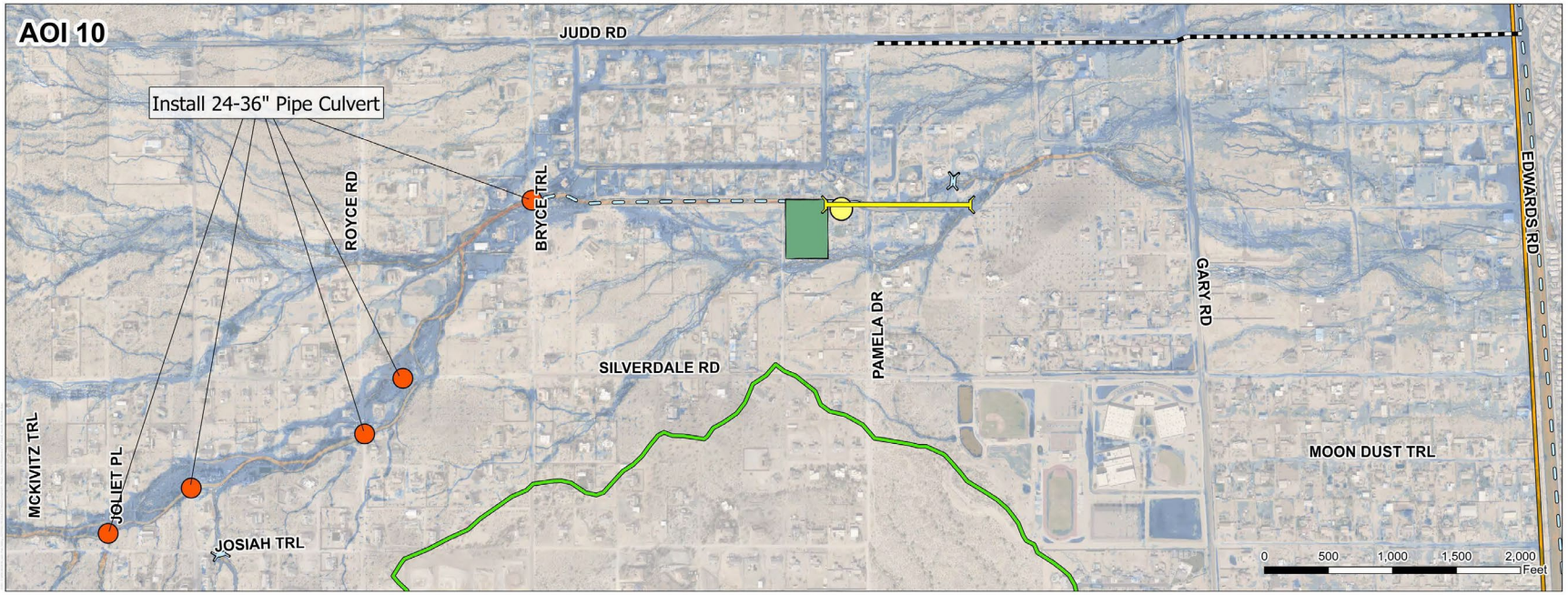


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RECOMMENDED ALTERNATIVES AOI 6 AND 9





PINAL COUNTY
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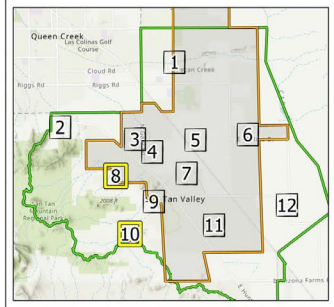
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LEGEND

Recommended Solutions
- Culvert Location
- Culvert By Others
- Culvert Barrels
- Proposed/Regraded Channel
- Proposed Storm Drain
- Proposed Embankments
- Retention Basin by Others

Existing Features
- Culvert Barrel
- Channel

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NORTH

Date:6/16/2026

RECOMMENDED ALTERNATIVES AOI 8 AND 10

Next Steps

- County Adoption
- CIP Updated for Unincorporated Pinal County



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Thank You!

PINAL COUNTY

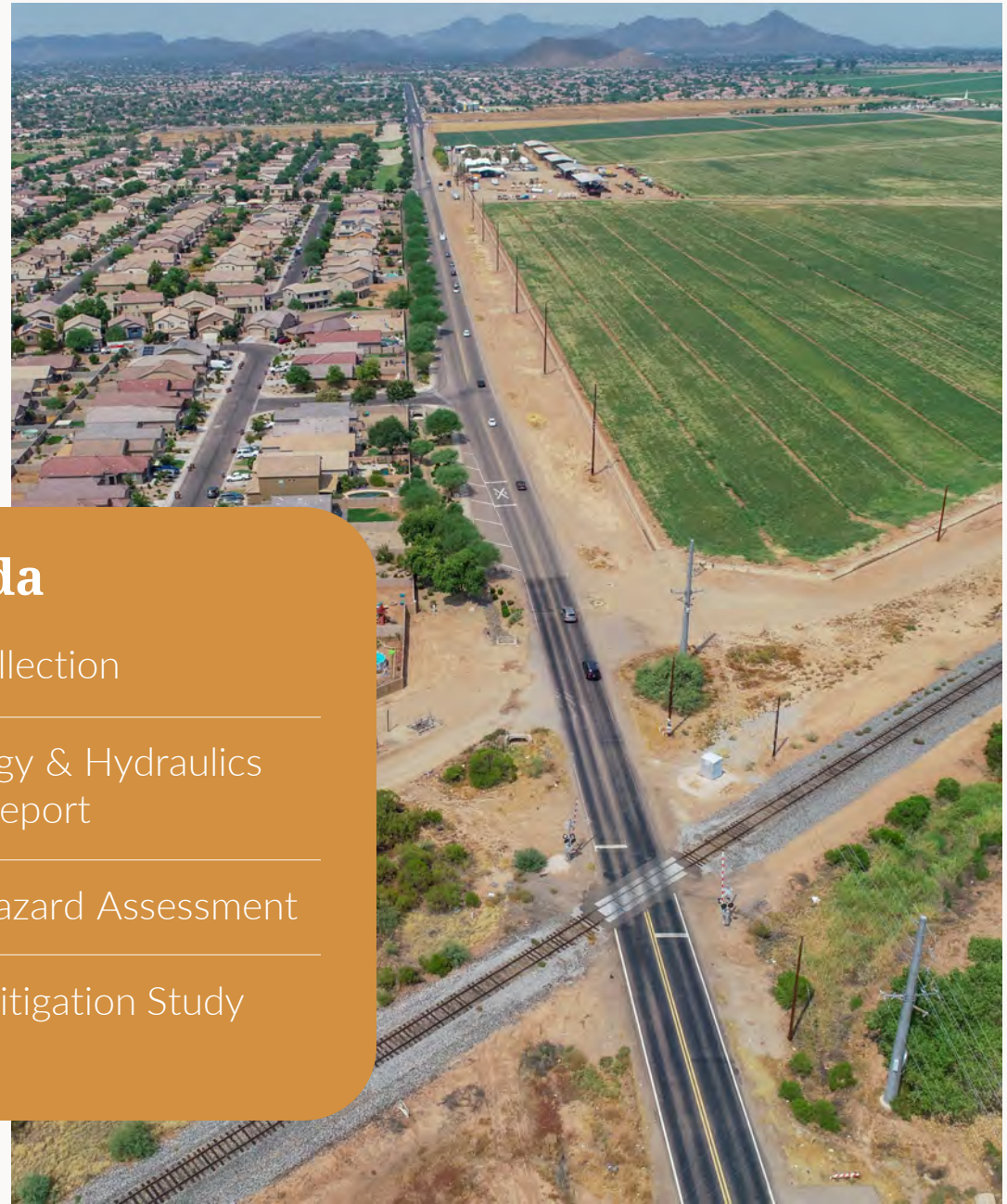
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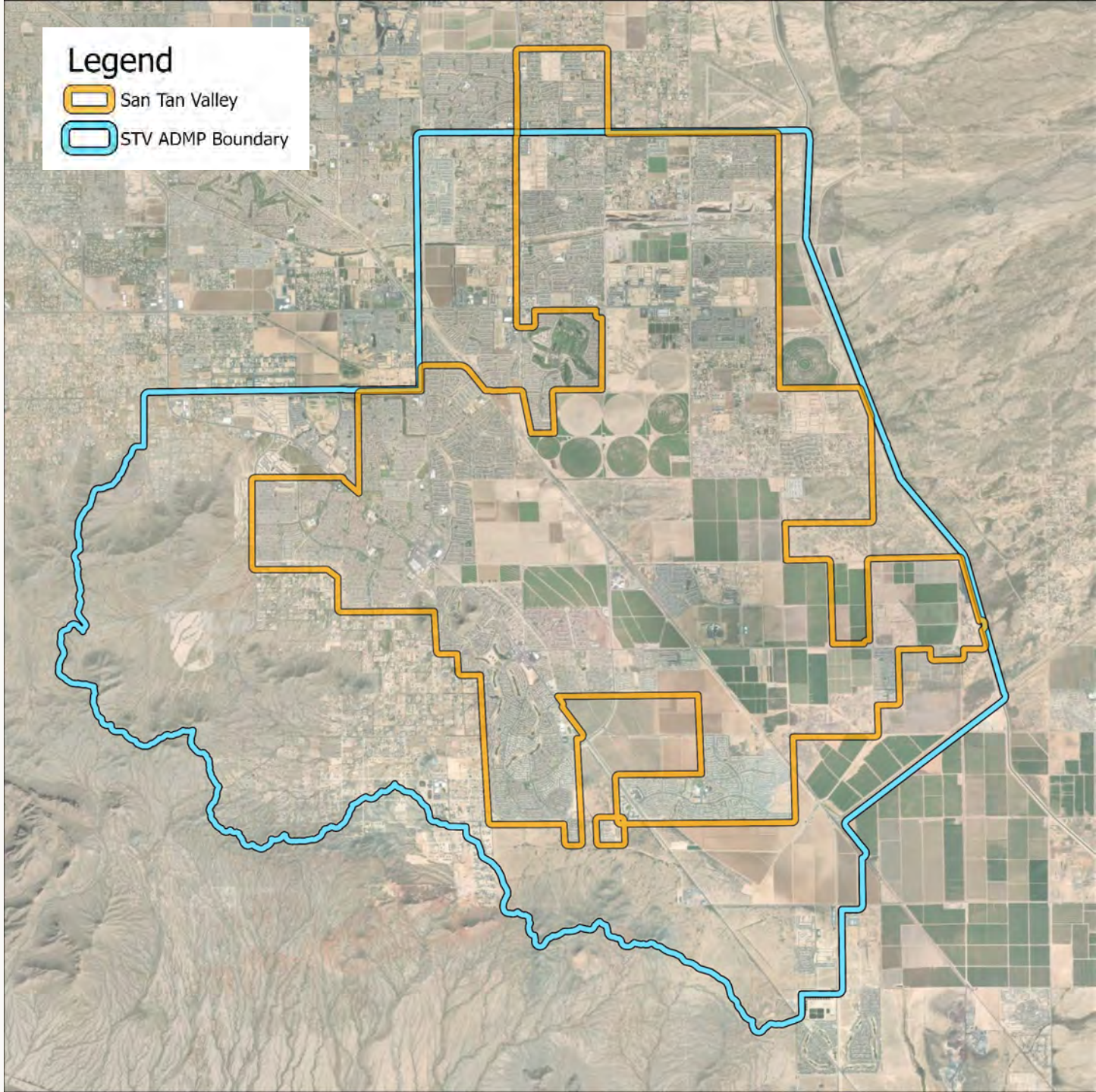
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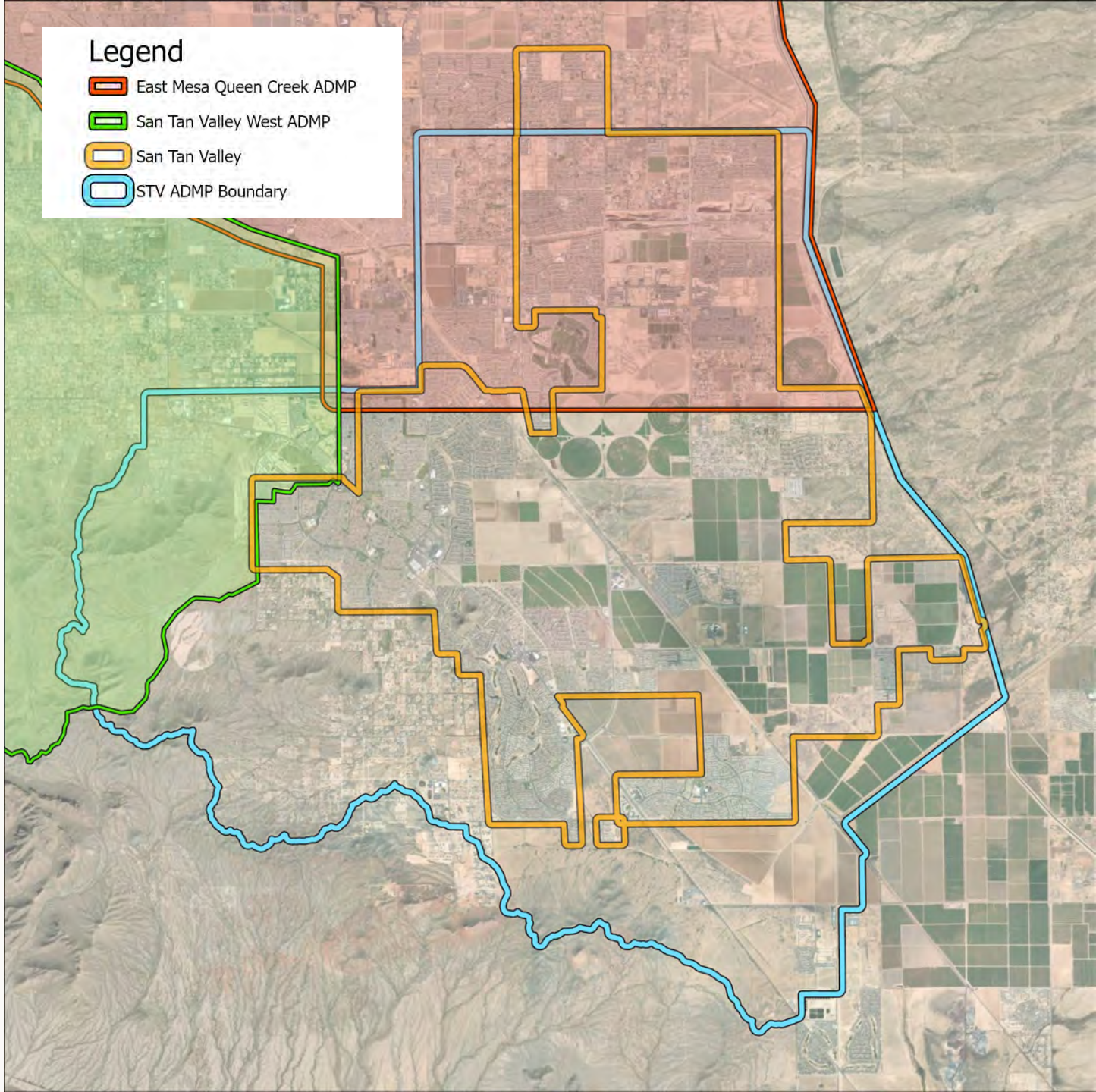
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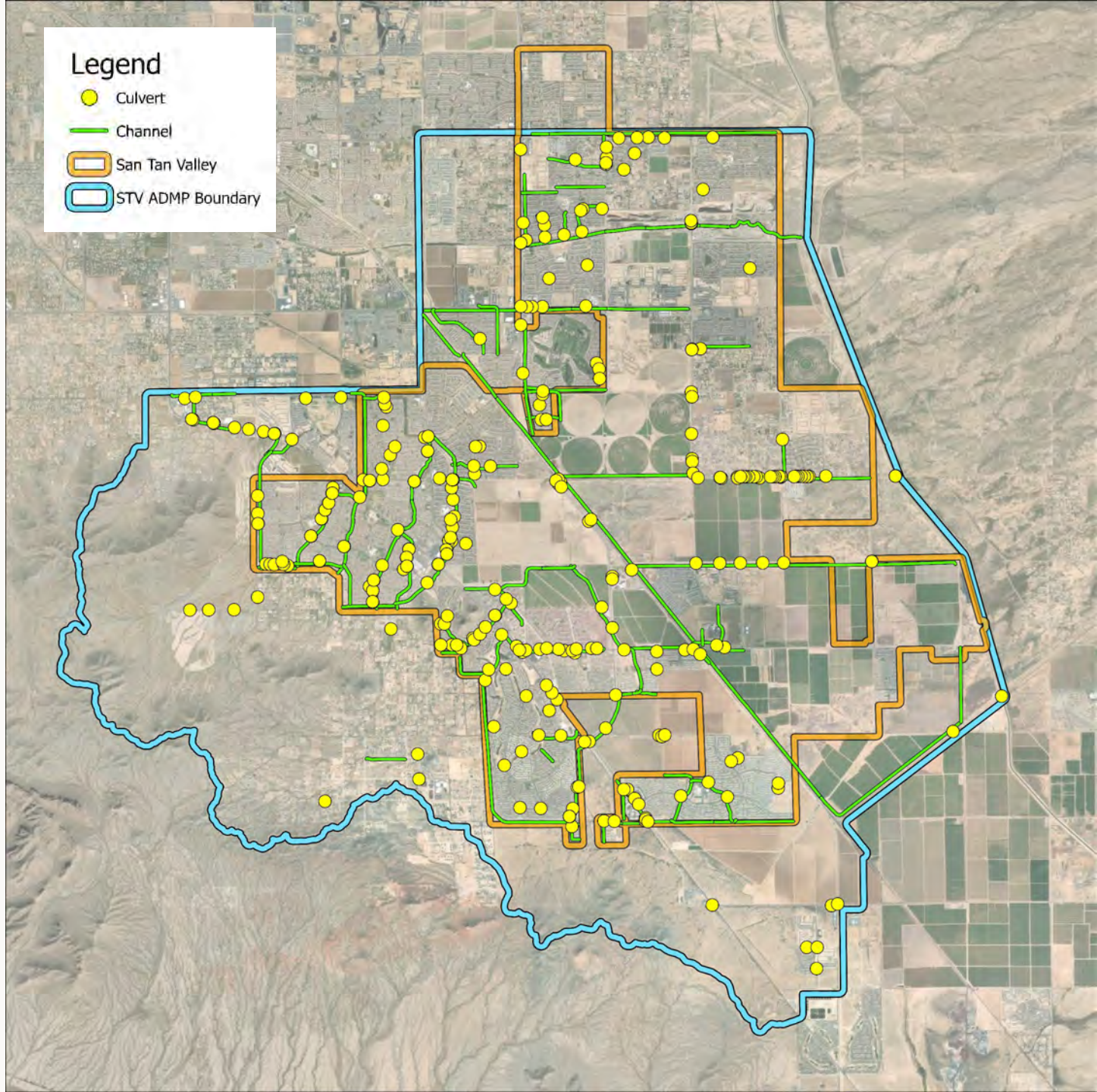
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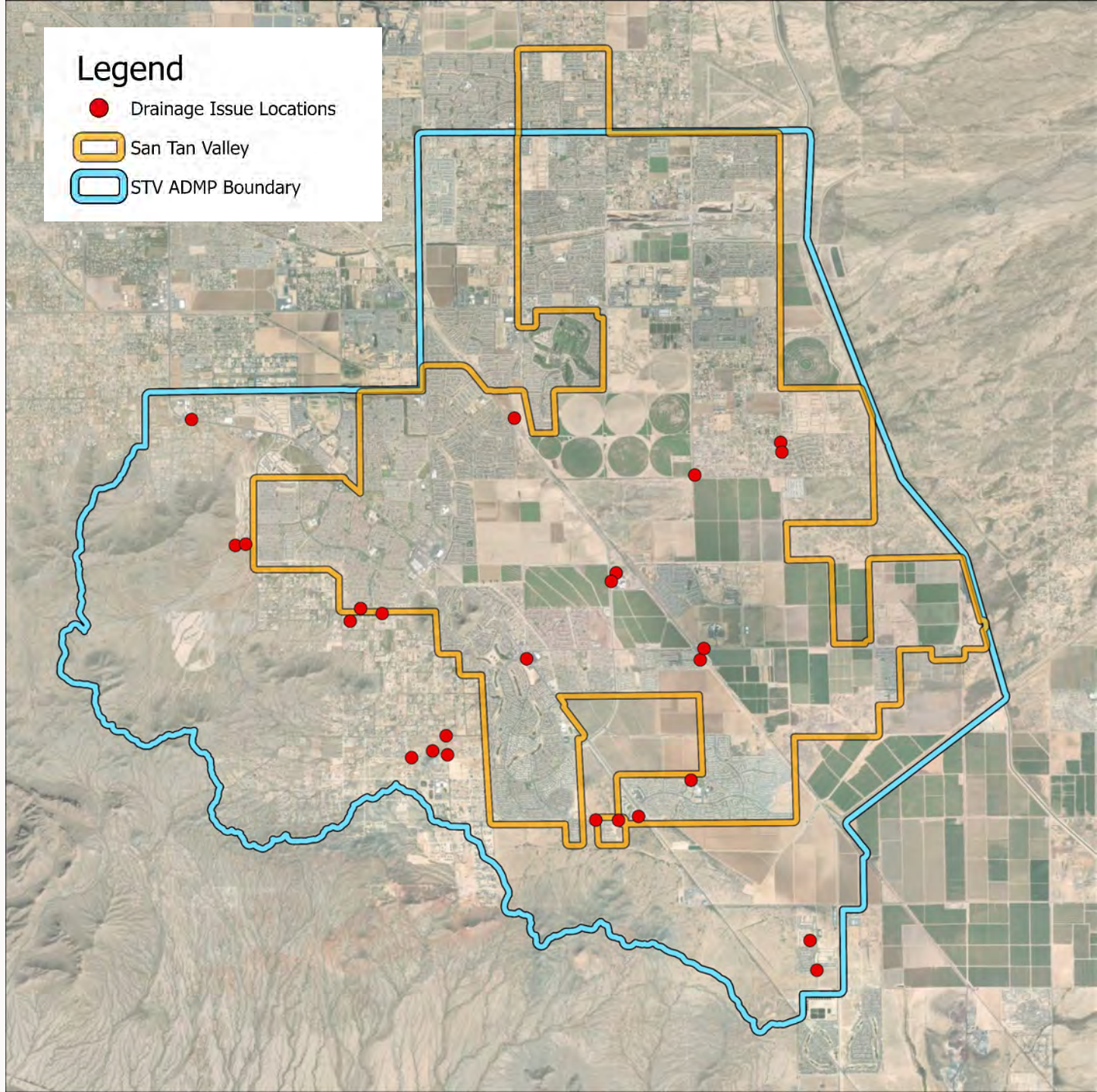
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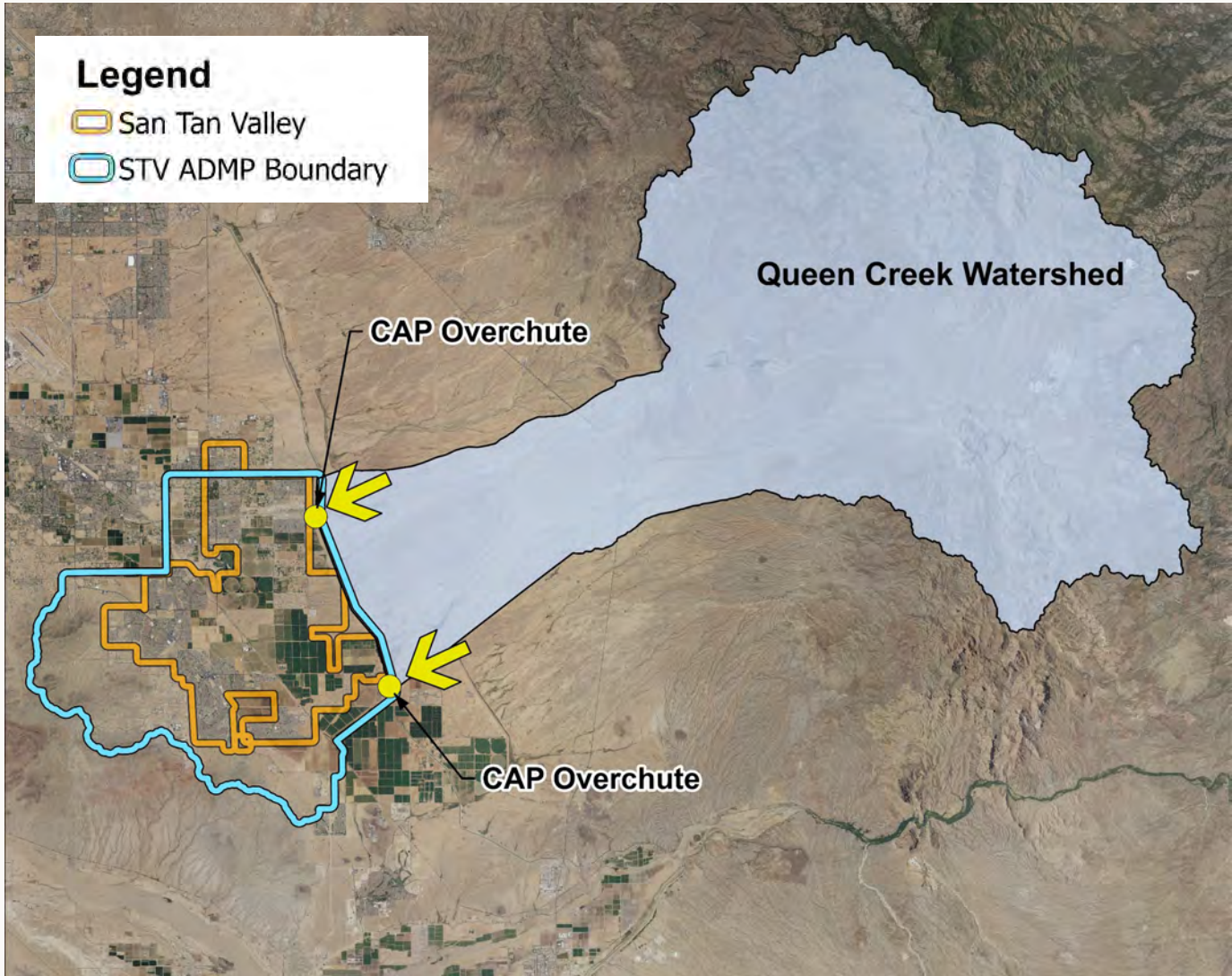






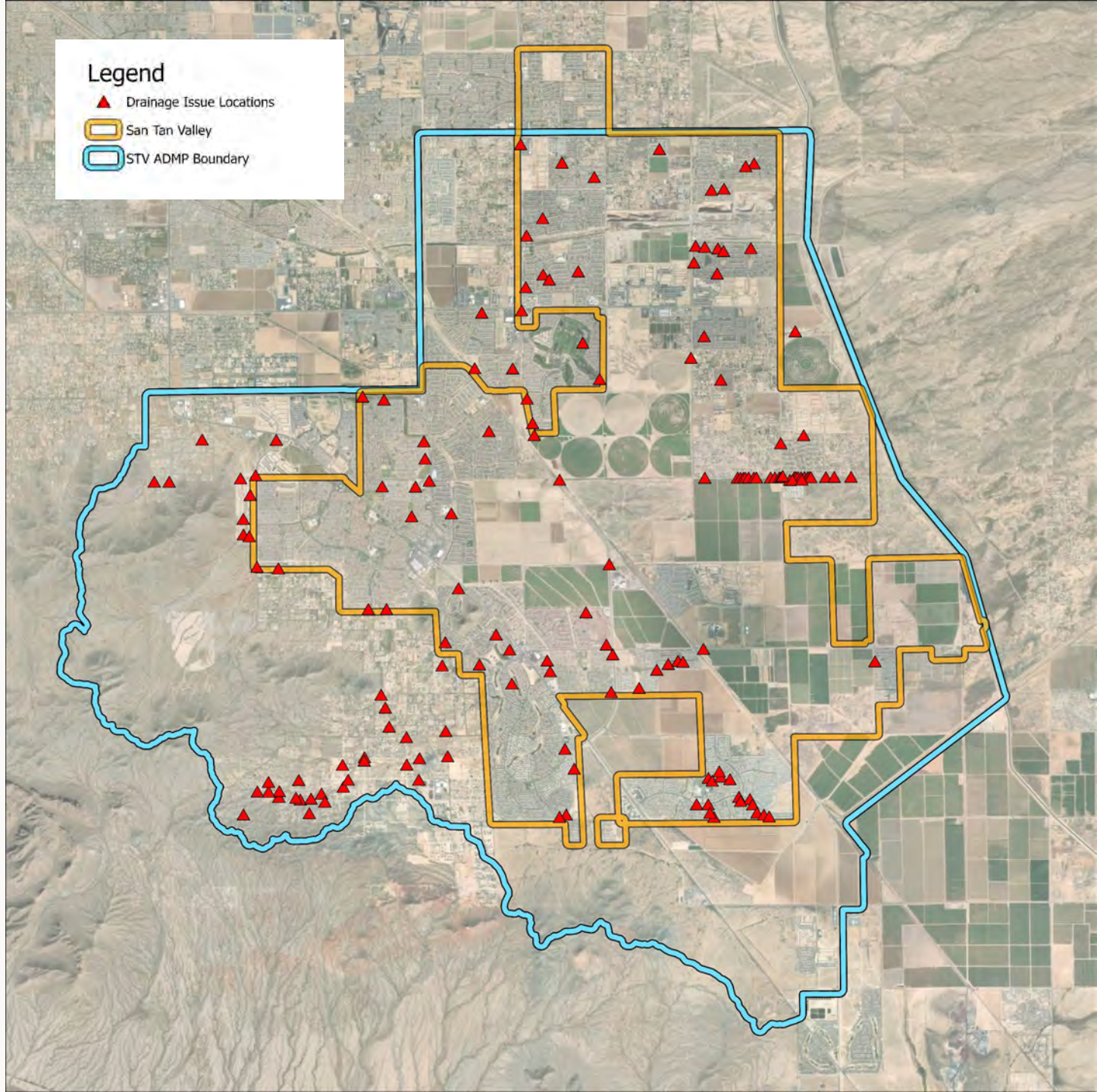
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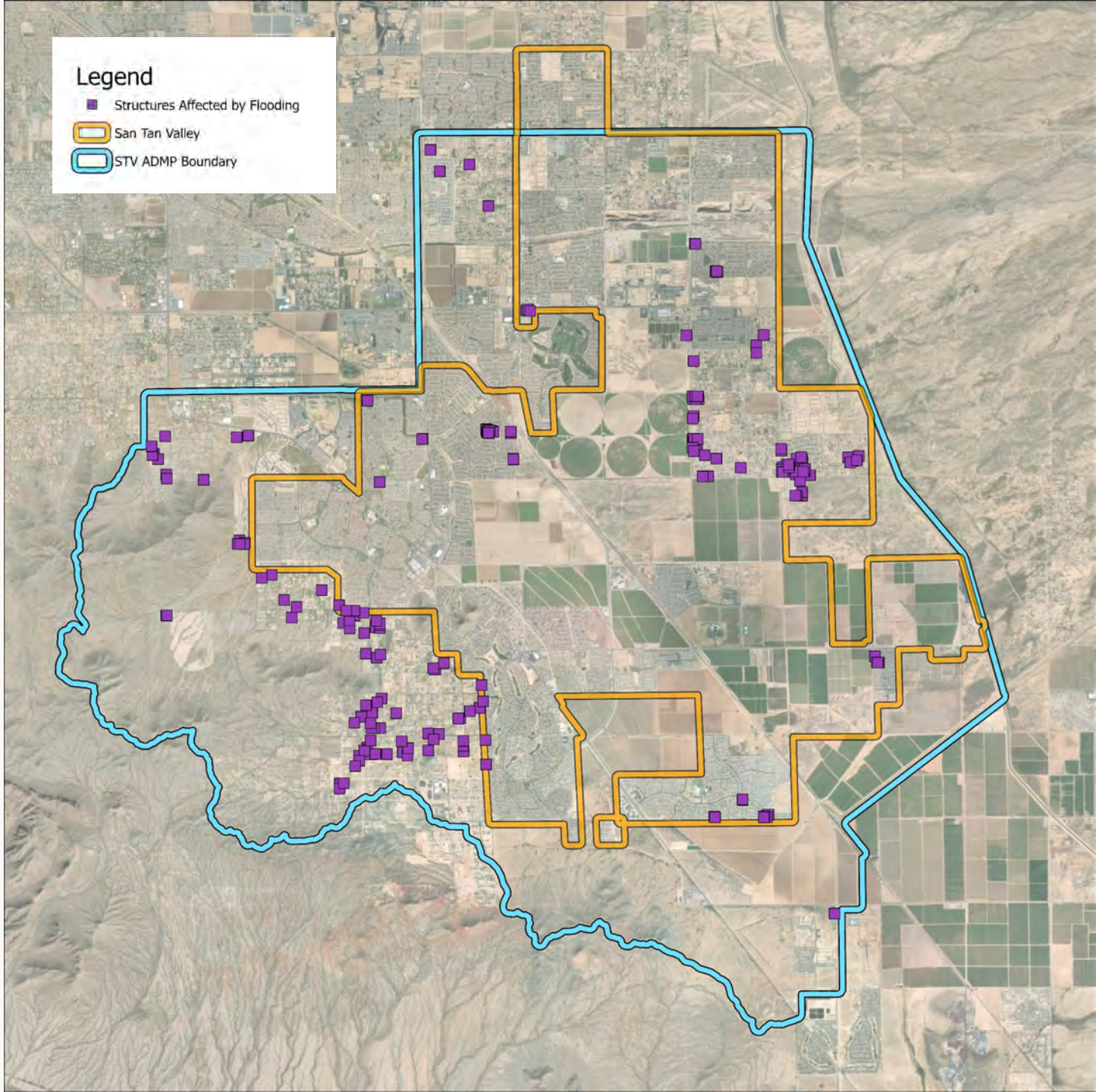
Flood Hazard Assessment

- Compare modeling results with identified issues
- Identified other potential drainage issues



Flood Hazard Assessment

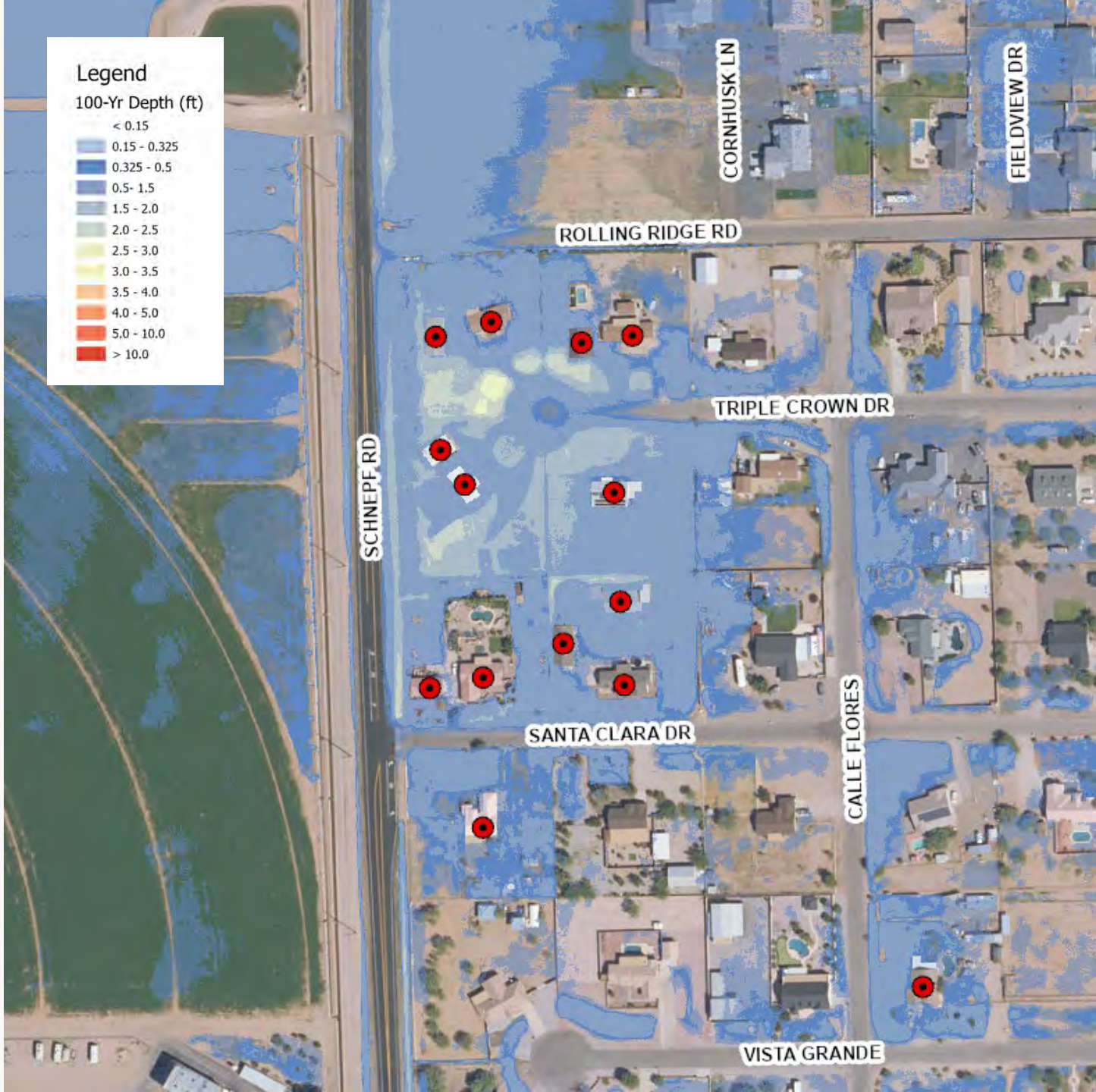
- Identified structures impacted by flooding



Flood Hazard Assessment

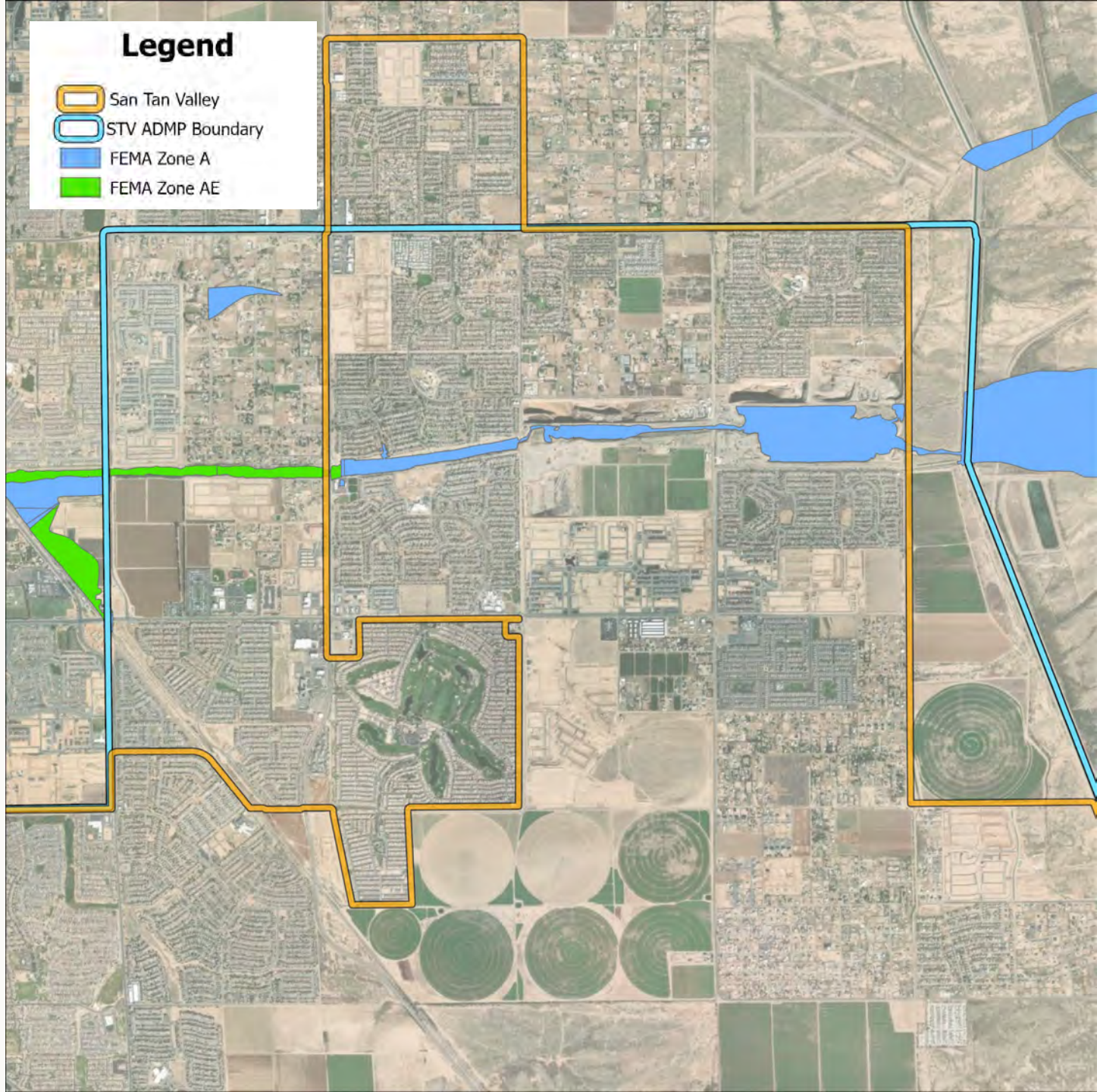
- Identified structures impacted by flooding

Storm Event	Number of Structures
10-Year, 6-Hour	43
10-Year, 24-Hour	66
100-Year, 6-Hour	147
100-Year, 24-Hour	222
Total Unique Structures Identified	222



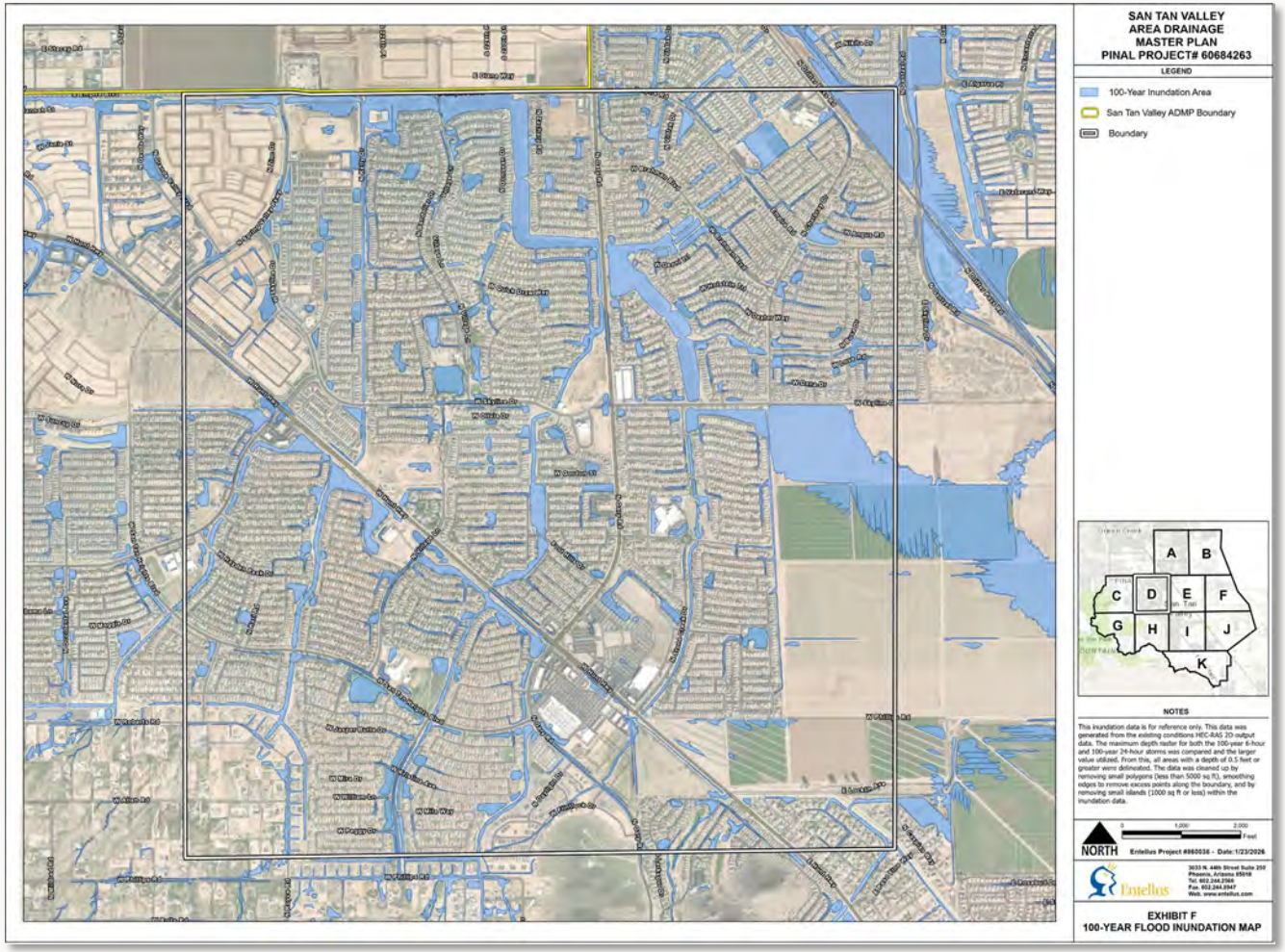
Flood Hazard Assessment

- Existing FEMA Floodplain Maps
- Only Queen Creek Wash is Currently Mapped



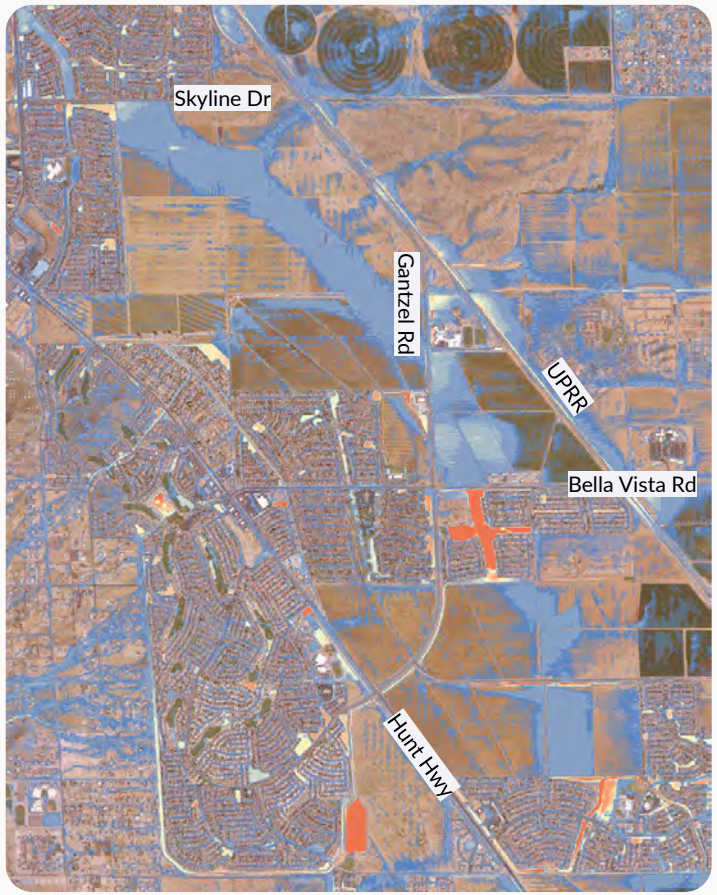
Flood Hazard Assessment

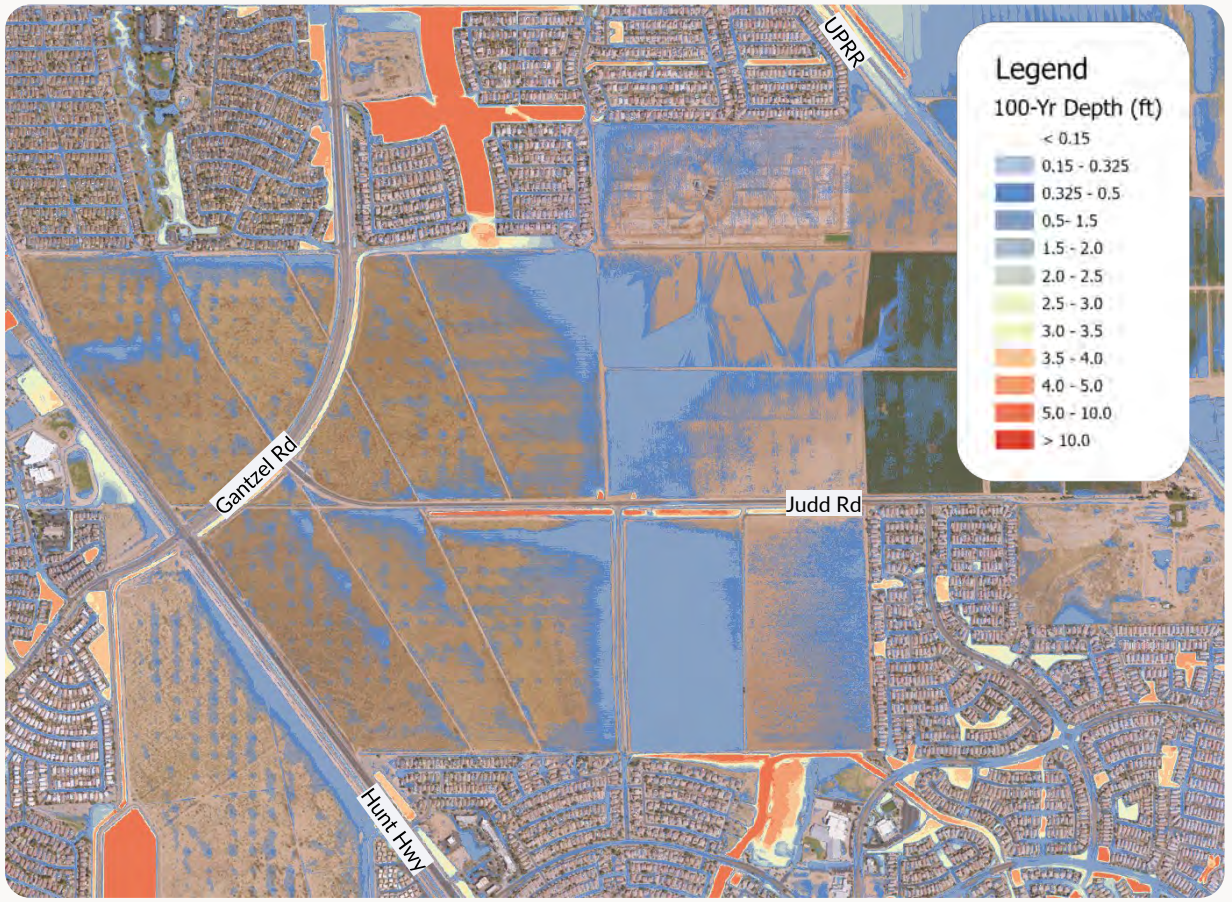
- Inundation Mapping (100-year)



Flood Hazard Assessment

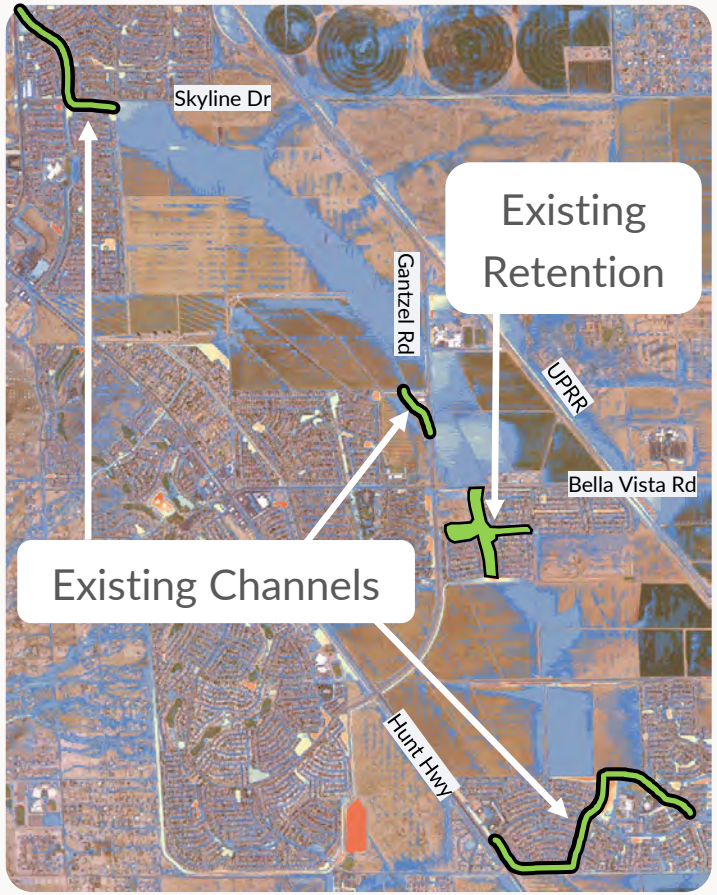
- Discontinuous Drainage Infrastructure

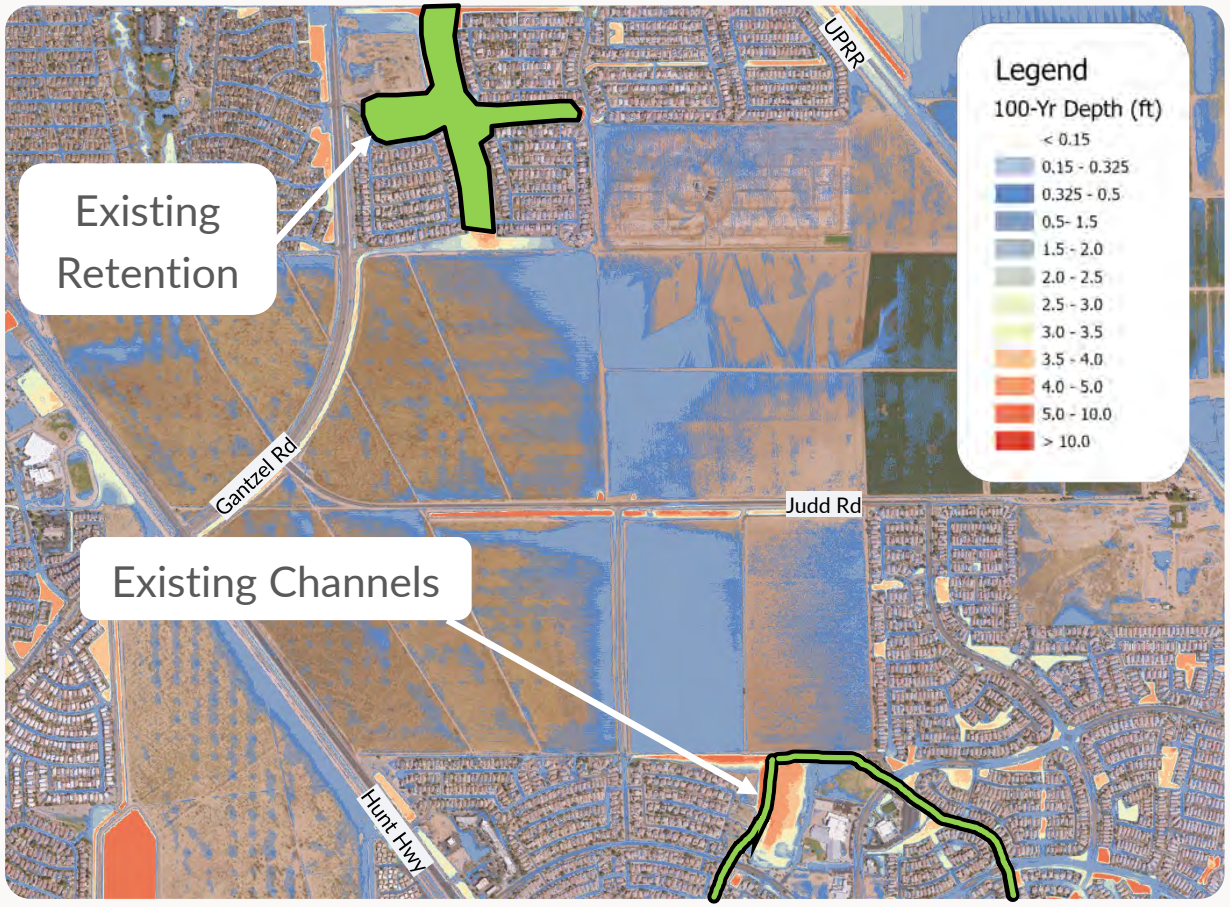




Flood Hazard Assessment

- Discontinuous Drainage Infrastructure

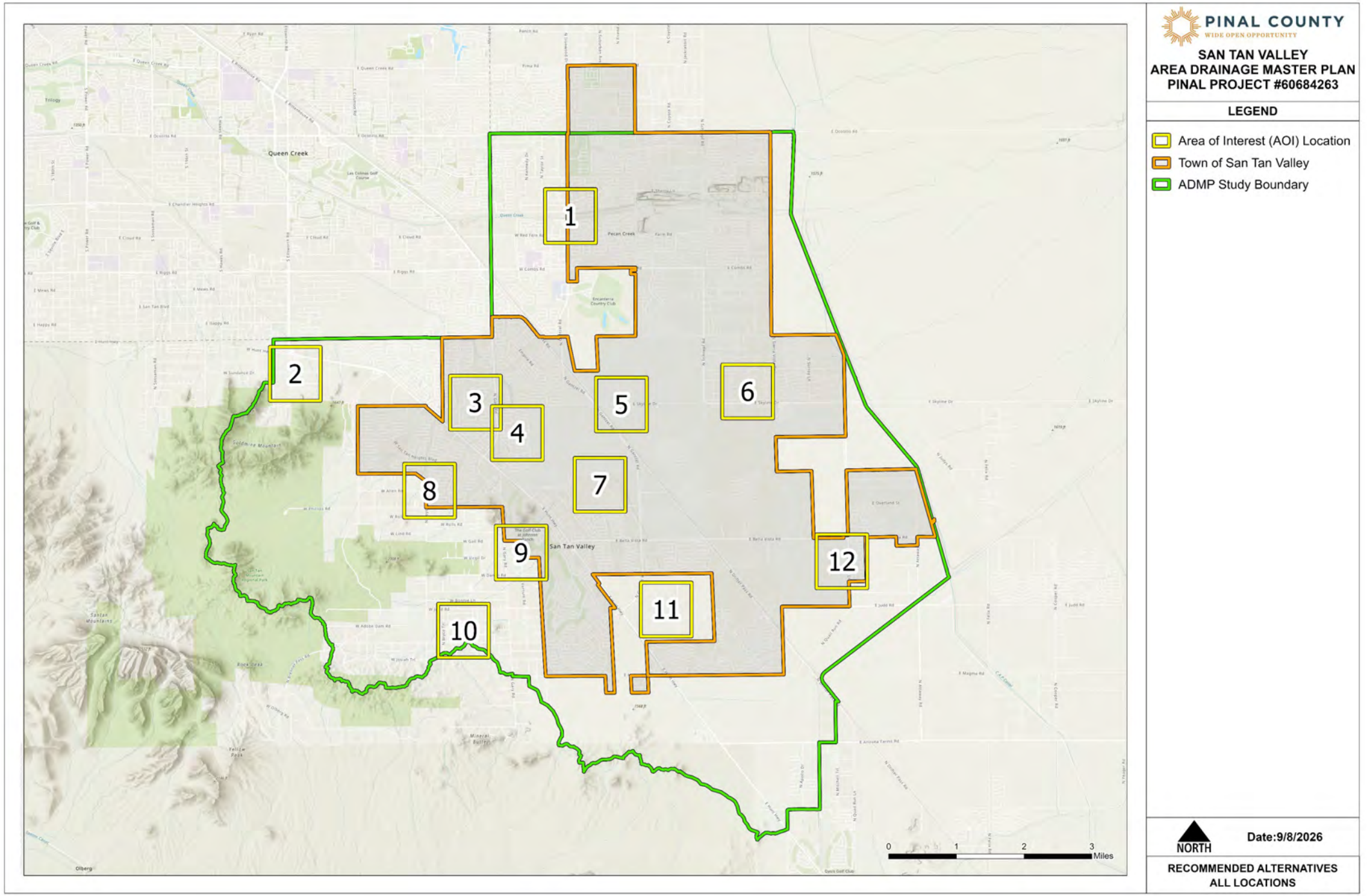


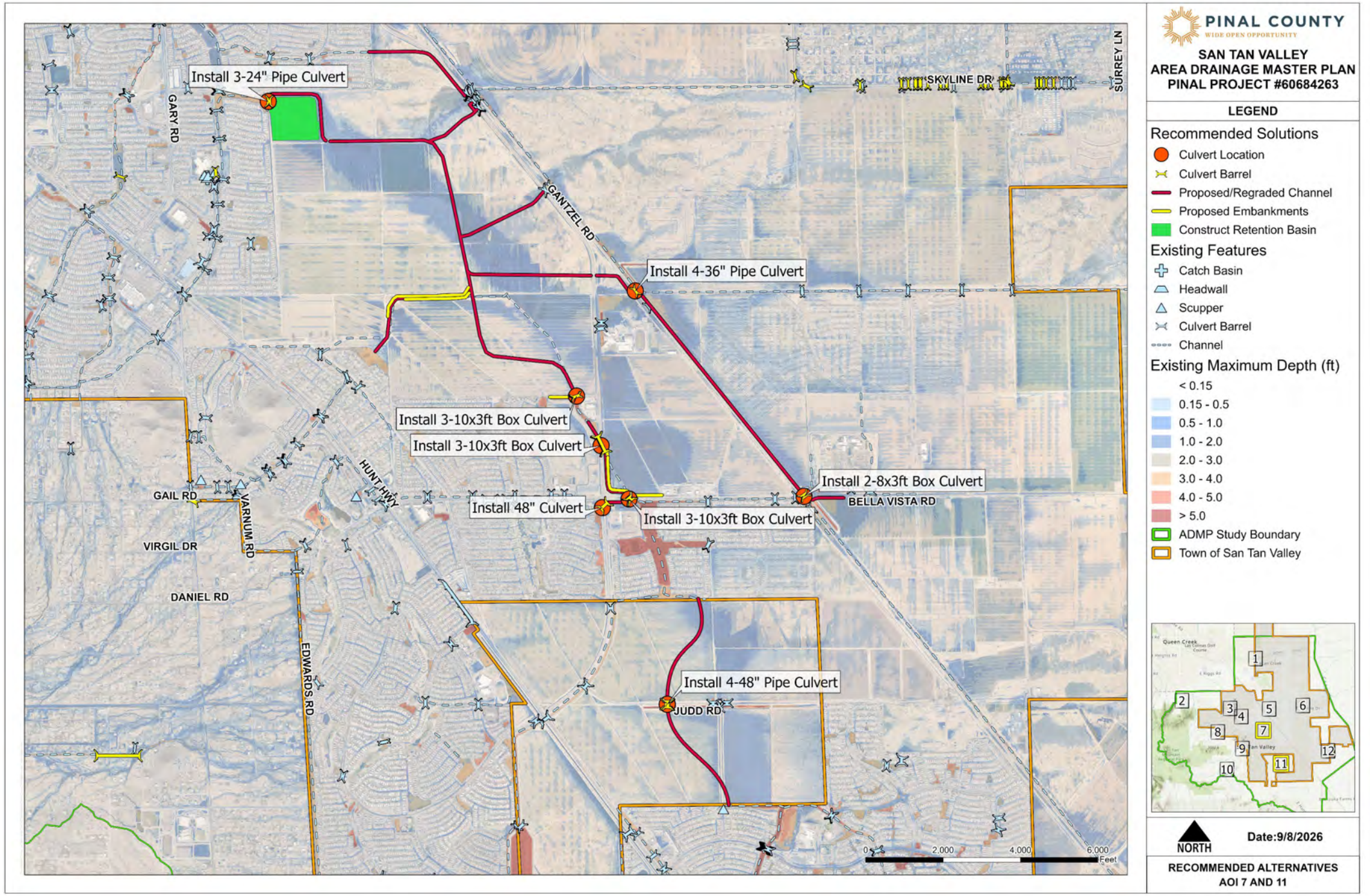


Flood Hazard Study

- **Regional versus local drainage issues**
- **Developed solution concepts**
  - → Culverts
  - → Channels
  - → Retention Basins
  - → Storm drains
- **Modeled and determined impacts**
- **Meetings with major stakeholders**




PINAL COUNTY
WIDE OPEN OPPORTUNITY
SAN TAN VALLEY
AREA DRAINAGE MASTER PLAN
PINAL PROJECT #60684263
LEGEND
Area of Interest (AOI) Location
Town of San Tan Valley
ADMP Study Boundary
1
2
3
4
5
6
7
8
9
10
11
12
Queen Creek
San Tan Valley
Pecan Creek
Encanterra Country Club
Goldmine Mountain
Santan Mountains
Mineral Butte
Olberg
0 1 2 3 Miles
NORTH
Date:9/8/2026
RECOMMENDED ALTERNATIVES
ALL LOCATIONS



PINAL COUNTY
WIDE OPEN OPPORTUNITY

SAN TAN VALLEY
AREA DRAINAGE MASTER PLAN
PINAL PROJECT #60684263

LEGEND

Recommended Solutions
- Culvert Location
- Culvert Barrel
- Proposed/Regraded Channel
- Proposed Embankments
- Construct Retention Basin

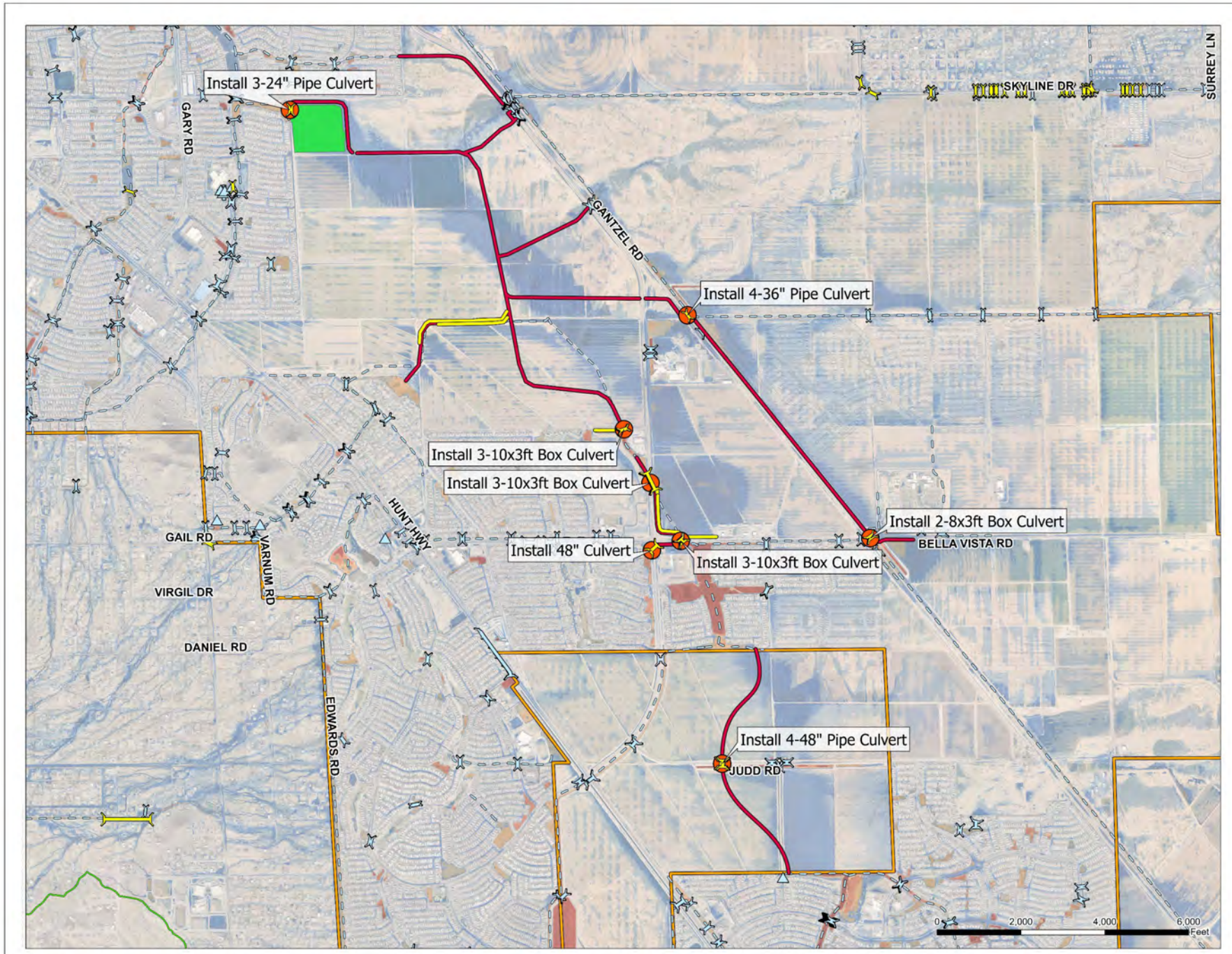
Existing Features
- Catch Basin
- Headwall
- Scupper
- Culvert Barrel
- Channel

Existing Maximum Depth (ft)
- < 0.15
- 0.15 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- 4.0 - 5.0
- > 5.0
- ADMP Study Boundary
- Town of San Tan Valley

NORTH

Date:9/8/2026

RECOMMENDED ALTERNATIVES
AOI 7 AND 11



PINAL COUNTY
WIDE OPEN OPPORTUNITY

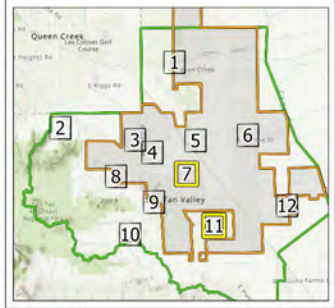
SAN TAN VALLEY
AREA DRAINAGE MASTER PLAN
PINAL PROJECT #60684263

LEGEND

Recommended Solutions
- Culvert Location
- Culvert Barrel
- Proposed/Regraded Channel
- Proposed Embankments
- Construct Retention Basin

Existing Features
- Catch Basin
- Headwall
- Scupper
- Culvert Barrel
- Channel

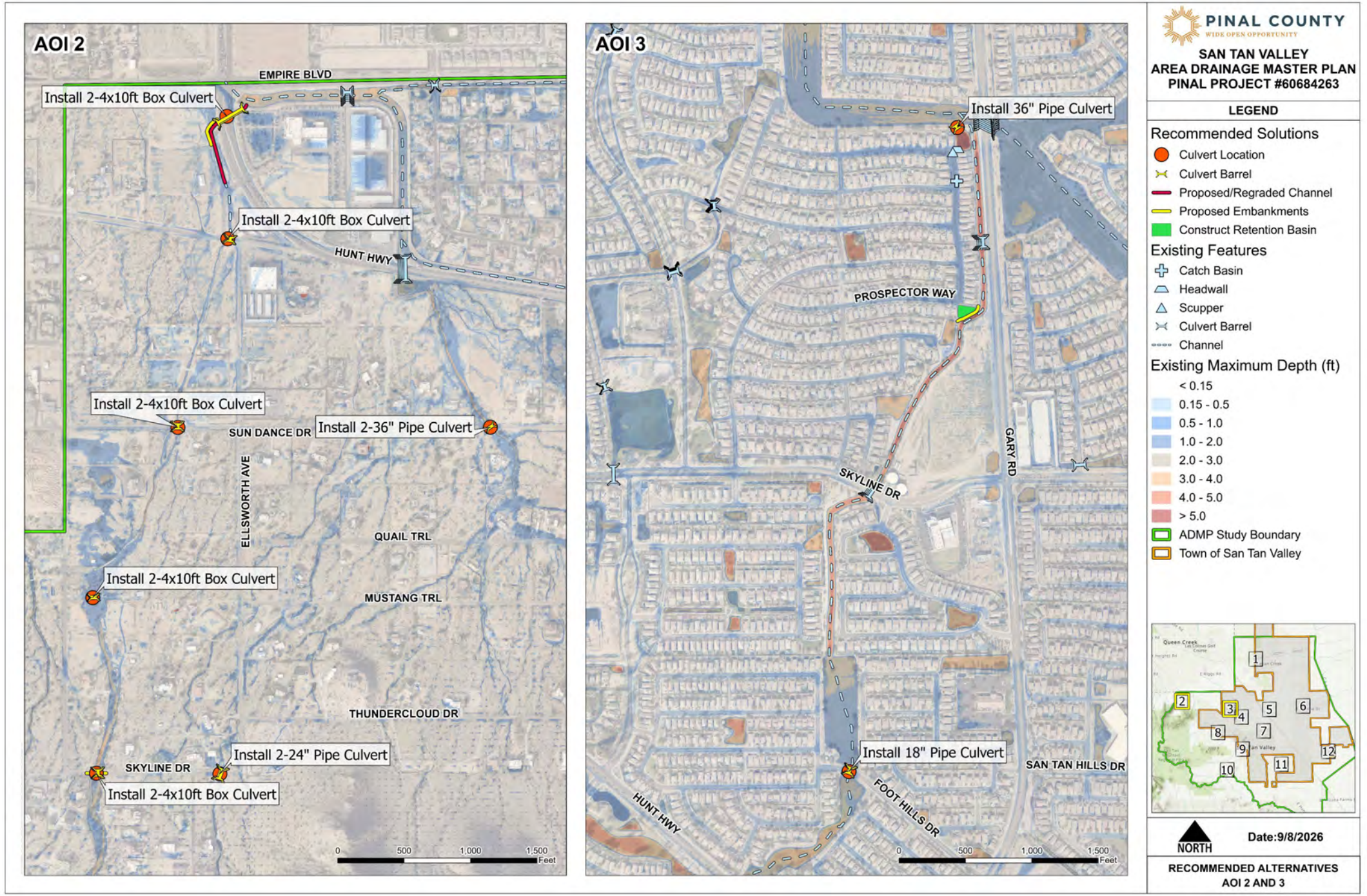
Existing Maximum Depth (ft)
- < 0.15
- 0.15 - 0.5
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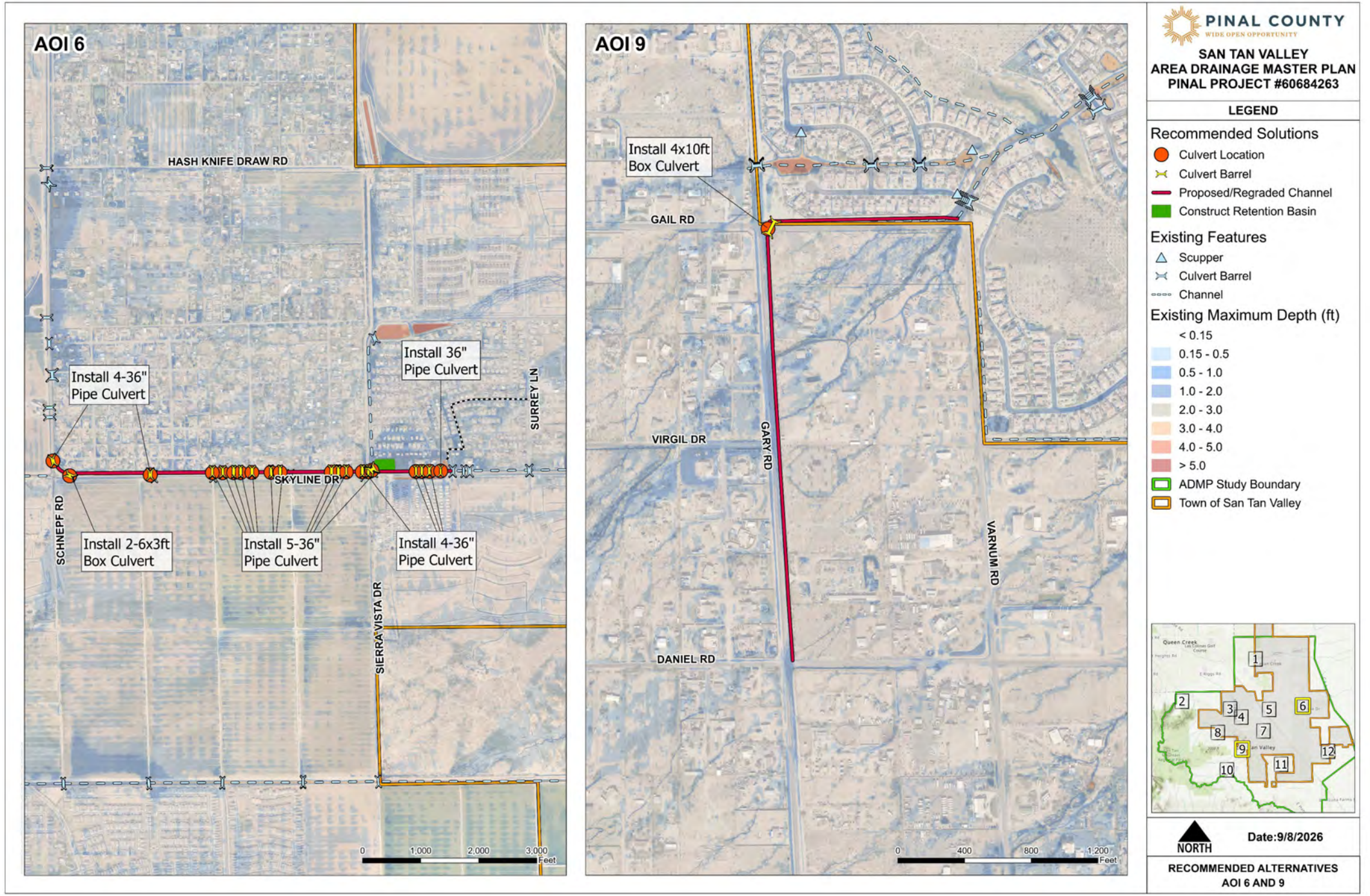


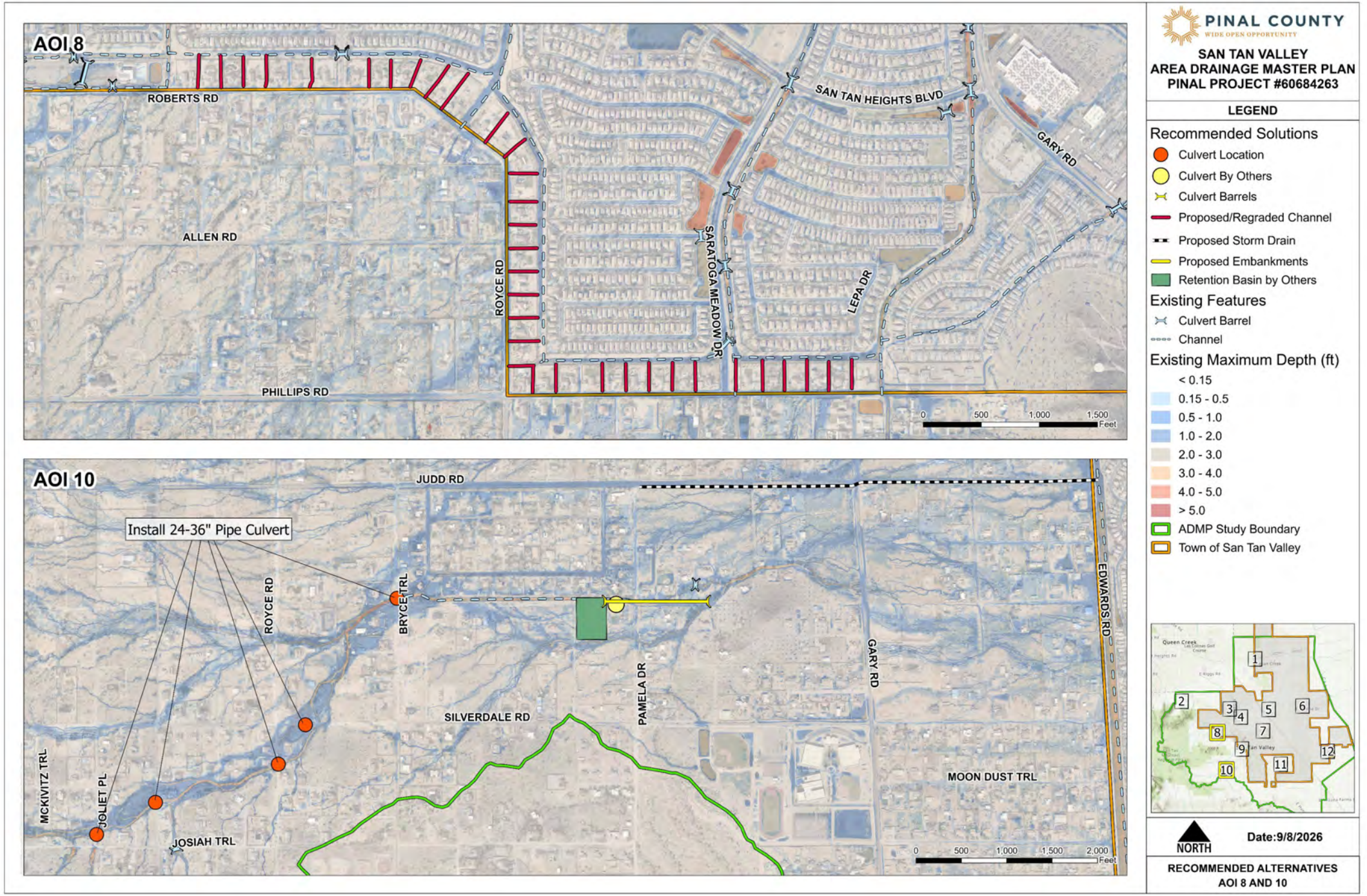
NORTH

Date:9/8/2026

RECOMMENDED ALTERNATIVES
AOI 7 AND 11


AOI 2
EMPIRE BLVD
Install 2-4x10ft Box Culvert
Install 2-4x10ft Box Culvert
HUNT HWY
Install 2-4x10ft Box Culvert
SUN DANCE DR
Install 2-36" Pipe Culvert
ELLSWORTH AVE
QUAIL TRL
Install 2-4x10ft Box Culvert
MUSTANG TRL
THUNDERCLOUD DR
SKYLINE DR
Install 2-24" Pipe Culvert
Install 2-4x10ft Box Culvert
0 500 1,000 1,500 Feet
AOI 3
Install 36" Pipe Culvert
PROSPECTOR WAY
GARY RD
SKYLINE DR
Install 18" Pipe Culvert
SAN TAN HILLS DR
FOOT HILLS DR
HUNT HWY
0 500 1,000 1,500 Feet
PINAL COUNTY
WIDE OPEN OPPORTUNITY
SAN TAN VALLEY
AREA DRAINAGE MASTER PLAN
PINAL PROJECT #60684263
LEGEND
Recommended Solutions
Culvert Location
Culvert Barrel
Proposed/Regraded Channel
Proposed Embankments
Construct Retention Basin
Existing Features
Catch Basin
Headwall
Scupper
Culvert Barrel
Channel
Existing Maximum Depth (ft)
< 0.15
0.15 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
3.0 - 4.0
4.0 - 5.0
> 5.0
ADMP Study Boundary
Town of San Tan Valley
NORTH
Date:9/8/2026
RECOMMENDED ALTERNATIVES
AOI 2 AND 3


AOI 6
HASH KNIFE DRAW RD
Install 4-36" Pipe Culvert
Install 36" Pipe Culvert
SURREY LN
SKYLINE DR
SCHNEPF RD
Install 2-6x3ft Box Culvert
Install 5-36" Pipe Culvert
Install 4-36" Pipe Culvert
SIERRA VISTA DR
0 1,000 2,000 3,000 Feet
AOI 9
Install 4x10ft Box Culvert
GAIL RD
VIRGIL DR
GARY RD
VARNUM RD
DANIEL RD
0 400 800 1,200 Feet
PINAL COUNTY
WIDE OPEN OPPORTUNITY
SAN TAN VALLEY
AREA DRAINAGE MASTER PLAN
PINAL PROJECT #60684263
LEGEND
Recommended Solutions
Culvert Location
Culvert Barrel
Proposed/Regraded Channel
Construct Retention Basin
Existing Features
Scupper
Culvert Barrel
Channel
Existing Maximum Depth (ft)
< 0.15
0.15 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
3.0 - 4.0
4.0 - 5.0
> 5.0
ADMP Study Boundary
Town of San Tan Valley
NORTH
Date:9/8/2026
RECOMMENDED ALTERNATIVES
AOI 6 AND 9


AOI 8
ROBERTS RD
ALLEN RD
PHILLIPS RD
ROYCE RD
SARATOGA MEADOW DR
LEPA DR
SAN TAN HEIGHTS BLVD
GARY RD
0 500 1,000 1,500 Feet
AOI 10
JUDD RD
Install 24-36" Pipe Culvert
ROYCE RD
BRYCE TRL
PAMELA DR
GARY RD
EDWARDS RD
SILVERDALE RD
MOON DUST TRL
MCKIVITZ TRL
JOLIET PL
JOSIAH TRL
0 500 1,000 1,500 2,000 Feet
PINAL COUNTY
WIDE OPEN OPPORTUNITY
SAN TAN VALLEY
AREA DRAINAGE MASTER PLAN
PINAL PROJECT #60684263
LEGEND
Recommended Solutions
Culvert Location
Culvert By Others
Culvert Barrels
Proposed/Regraded Channel
Proposed Storm Drain
Proposed Embankments
Retention Basin by Others
Existing Features
Culvert Barrel
Channel
Existing Maximum Depth (ft)
< 0.15
0.15 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
3.0 - 4.0
4.0 - 5.0
> 5.0
ADMP Study Boundary
Town of San Tan Valley
NORTH
Date:9/8/2026
RECOMMENDED ALTERNATIVES
AOI 8 AND 10

Next Steps

- County Adoption
- CIP Updated for Unincorporated Pinal County



PINAL COUNTY

WIDE OPEN OPPORTUNITY

Thank You!

PINAL COUNTY
WIDE OPEN OPPORTUNITY

AGENDA ITEM

09/09/2026
Flood Control District Work Session Meeting

Funds #:
Dept. #:
Dept. Name: Clerk of the Board
Requested By: Kelsey Pickard/Natasha Kennedy

AGENDA ITEM AND REQUESTED BOARD ACTION:

Meeting Notice of Posting

MOTION:

Public Notice.

Attachments

Meeting Notice of Posting

PINAL COUNTY
WIDE OPEN OPPORTUNITY

MEETING NOTICE OF POSTING

STATE OF ARIZONA

COUNTY OF PINAL

I, Natasha Kennedy, being duly sworn upon her oath, says as follows:

I am the appointed Clerk of the Pinal County Board of Supervisors.

In my position as Clerk of the Board of Supervisors and Board of Directors, I am responsible for posting all Agendas.

Pursuant to A.R.S. 38-431.02 notice is hereby given that the Pinal County Board of Supervisors and Pinal County Board of Directors will hold a Work Session meeting on **Wednesday, September 9, 2026, at 9:30 AM** in the Board Hearing Room, 1891 Historic Courthouse, Administrative Complex, located at 135 N. Pinal Street, Florence, Arizona 85132. The public will have physical access to the meeting room at 9:15 AM.

Major Construction Notice Impacting Board Meeting Parking (including accessible parking and routes).
View the Parking Details

Notice of Possible Recess: The Board may take a recess for lunch at approximately 12:30 p.m. for around 30 minutes. No official Pinal County Board of Supervisors/Pinal County Board of Directors business will be conducted. No action will be taken.

Board Meetings are broadcasted live and the public may access the meeting on the County Website at Pinal.gov under "Meeting Videos."

Board Agendas are available on the County Website at Pinal.gov under "Agendas & Minutes."

At any time during business hours, citizens may reach the Clerk of the Board Office at (520) 866-6068 or via email at **ClerkoftheBoard@pinal.gov** for information about Board meeting participation.

Note: One or more members of the Board may participate in this meeting by telephonic conference call.

I hereby further certify that I caused to be posted this Friday, September 4, 2026, around 11:00 AM the Board of Supervisors Work Session Agenda, and Flood Control District Work Session Agenda, as follows:

1. A kiosk located outside the front entrance to The Old Historical Courthouse, Administrative Complex Building, 135 North Pinal Street, Florence, Arizona 85132
2. County Website under Agendas & Meetings located at Pinal.gov
3. Emailed the AgendaQuick Agenda Distribution List

IN WITNESS WHEREOF, I have hereunto set my hand and caused to be affixed the Official Pinal County, Arizona Seal this 4th day of September, 2026.

THE SEAL OF PINAL COUNTY ARIZONA 1875

Natasha Kennedy
Clerk of the Board of Supervisors
Pinal County, Arizona