APPENDIX D

PUBLIC INVOLVEMENT REPORT

Public Involvement Report

Reata Wash Flood Control Study

FINAL

Prepared by:

gci

On behalf of:

WOOD/PATEL
MISSION: CLIENT SERVICE®

CITY OF SCOTTSDALE

October 2016

Table of Contents

Executive Summary **2**

1.0 The Approach **4**

1.1 Public Involvement Goals 4

1.2 Objectives 4

1.3 Study Purpose and Need 4

1.4 Outreach Phases 4

2.0 Input Received **6**

2.1 Public Meeting #1: March 2, 2016 6

2.2 Public Meeting #2: May 18, 2016 9

3.0 Outreach/Communication Methods **13**

3.1 Small Group Meetings and Briefings 13

3.2 Study Fact Sheet and Newsletter 13

3.4 Study Website 13

3.5 Postcard Notifications 14

3.6 Information for HOAs 14

3.7 E-Mail Updates 14

3.8 Stakeholder Management System 14

4.0 Appendix **15**

4.1 Public Involvement and Communications Plan 15

4.2 Public Meetings 33

4.3 Stakeholder, HOA and Resident Meetings List 192

4.4 Study Fact Sheet and Newsletter 195

4.5 Study Website Content and Online Evaluations 206

4.6 Information Sent to HOAs 218

4.7 E-Mail Updates Sent to Distribution List 224

4.8 Stakeholder Management System Contacts 232

Executive Summary

The Reata Wash Study included an extensive Public Involvement Program. More than 300 people participated in the study by attending a stakeholder, neighborhood or public meetings, submitting online comments, or providing information via e-mail and telephone calls with study team members.

Public Input

Following is a summary of the opportunities for input provided to the community from January 2015 through August 2016.

- Reata Wash Flood Control Study page posted on City of Scottsdale website and updated before and after each meeting: **January 2015 - August 2016**
- Postcards Mailed to Residents: **8,412 households**
  - Postcard #1: February 2016
  - Postcard #2: May 2016
- Public Meeting #1, March 2, 2016: **91 attendees**
  - ***86% of people who participated stated it was important for the City to identify potential solutions to reduce the flood risk.***
  - Question Cards Received: **23**
  - Comment Forms Received: **15 (5 Completed evaluation)**
- Public Meeting #2, May 18, 2016: **105 attendees**
  - Question Cards Received: **18**
  - Comment Forms Received: **10 (9 Evaluated at least one option)**
  - Online Comments: **15**
- Study E-mail Distribution List: **226 e-mail addresses**
- Stakeholder Meetings: **18 meetings**
- Resident/HOA Meetings and Phone Calls: **13 meetings and 2 phone calls**
  - ***Residents who attended the HOA briefings were supportive of the study and the need to reduce the flood risk.***
- HOAs Offered Briefings but Declined: **9**
- HOAs Accepted Information to Distribute to Residents: **19**

Public Involvement Goals

- Create awareness of the study and opportunities for input and involvement
- Provide information on the potential for structures flooding in the Reata Wash floodplain
- Ask if residents felt the risk was high enough to pursue flood mitigation
- Obtain feedback on which options residents would prefer if flood mitigation occurred

Input Received

Phase 1 – Public Meeting – March 2, 2016

The purpose of the first meeting was to inform the community of the study purpose and need, flood risks, limitations, and overall approach for mitigation. In addition, the team sought community consensus on the need for flood mitigation.

Most attendees believed it is important for the City to develop potential options to reduce flood risk and reduce or eliminate the need for flood insurance currently required by Federal Emergency Management Agency (FEMA) regulatory requirements for the current effective flood hazard zones. This is based on responses on the comment forms received, responses to an interactive poll conducted during the first public meeting, and feedback received during neighborhood and stakeholder meetings.

- The majority – 82% of comment form responses and 86% of interactive poll responses at the public meeting – indicated it is very important or somewhat important to develop options to reduce flood risk.
- Key reasons given for identifying options to reduce the flood risk included:
  - Protecting life and property
  - Reducing flood insurance costs to property owners in the floodplain
- Key reasons given for NOT identifying options to reduce the flood risk included:
  - Belief that the FEMA floodplain is inaccurately mapped
  - Belief that homes in the floodplain are elevated and not at risk of flooding
  - Desire to not have concrete structures
  - Desire to leave the wash in its natural state
- A vocal contingent of residents believes the area is not at risk of flooding and do not support construction of new flood control infrastructure.

Phase 2 – Public Meeting – May 18, 2016

The purposes of the second meeting were to present flood control options and determine which are acceptable to the community.

Overall, there is more community support than opposition for a flood control solution for Reata Wash. Study supporters are generally in communities within reaches 3, 4 and 5. Those who oppose the study are residents in communities within reaches 1 and 2. Opponents are homeowners whose properties are adjacent to or near the wash and are concerned about direct property impacts.

1.0 The Approach

This Public Involvement Report documents the public involvement activities implemented from February 2015 through August 2016 to obtain community input into the Reata Wash Flood Control Study. The complete Public Involvement and Communications Plan is located in Appendix, Section 4.1.

1.1 Study Public Involvement Goals

- Create awareness of the study and opportunities for input and involvement
- Provide information on the potential for structures flooding in the Reata Wash floodplain
- Ask if residents felt the risk was high enough to pursue flood mitigation
- Obtain feedback on which options residents would prefer if flood mitigation occurred

1.2 Study Objectives

- Create awareness of the flood hazards/risks that exist
- Develop a common understanding of the study purpose, need, and outcomes
- Understand the community's level of desire to minimize flood risks
- Identify the potential solutions that would be effective for flood mitigation
- Determine which potential solutions can be constructed to be compatible to the surrounding community character
- Identify potential flood mitigation solutions acceptable to the community

1.3 Study Purpose and Need

The purpose of the study is to identify and recommend flood control measures that will reduce flood risks to residents, property and public infrastructure. We will work with the community to develop a solution that is cost effective, sensitive to the environment, and compliant with federal regulations and guidelines. A secondary goal is to remove or reduce the size of the current floodplain designation established by FEMA. This would eliminate or reduce the requirement for many property owners to purchase flood insurance through the National Flood Insurance Program (NFIP).

1.4 Outreach Phases

1.4.1 Phase 1: January 2016 – March 2016

Purpose: Inform community of the study purpose and need, flood risks, limitations, and overall approach for mitigation. Seek community consensus on the need for flood mitigation.

Tools used during this period to provide information and to collect input include the following:

- City of Scottsdale web page
- Study fact sheet
- E-newsletter update

- Small group meetings with key stakeholders including homeowners associations, major landowners, and community organizations
- Grassroots outreach to individuals as needed
- Public meeting #1 (March 2, 2016) to provide an introduction to the study and seek community consensus on the need for flood mitigation

1.4.2 Phase 2: April – August 2016

Purpose: Present flood control options to determine which are acceptable to the community.

Tools used during this period include the following:

- City web page
- Study newsletter
- E-newsletter update
- Small group meetings with key stakeholders (homeowners associations, major landowners, and community organizations)
- Grassroots outreach to individuals as needed
- Public meeting #2 (May 18, 2016) to review and provide input on potential options

2.0 Public Input Received

The following is an overview of the feedback received during the two public meetings.

2.1 Public Meeting #1: March 2, 2016

The first public meeting for the Reata Wash Flood Control Study was held on March 2, 2016 from 5:30-7:30 p.m. at Copper Ridge School, 10101 E. Thompson Peak Pkwy., in Scottsdale. A total of 91 community members signed in for the meeting. Meeting documents are located in the Appendix, Section 4.2.

Meeting Purpose:

- Introduce the study purpose and need
- Explain the study is not a design project and construction funding is not authorized by Council
- Provide information about flood risks and associated FEMA flood insurance requirements in the Reata Wash floodplain
- Seek input on the community's level of concern about their flood risk and the importance of identifying options to reduce flood risks and reduce or remove associated flood insurance requirements to those in the Reata Wash floodplain

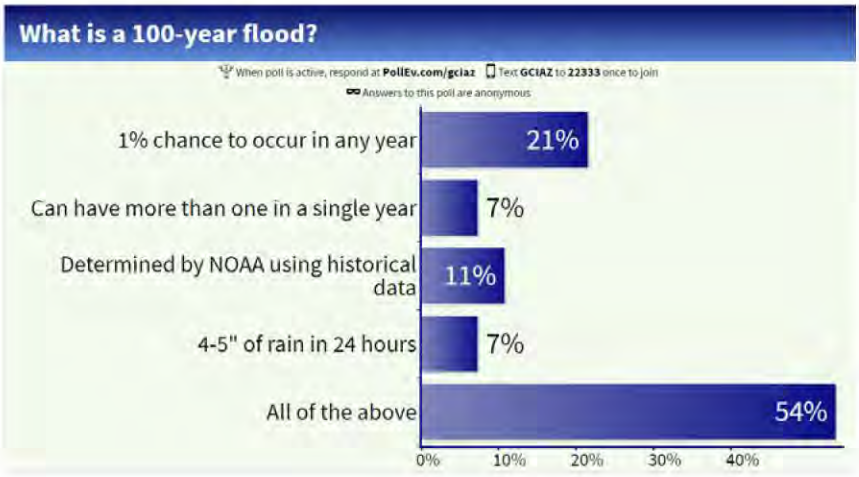
2.1.1 Key Findings

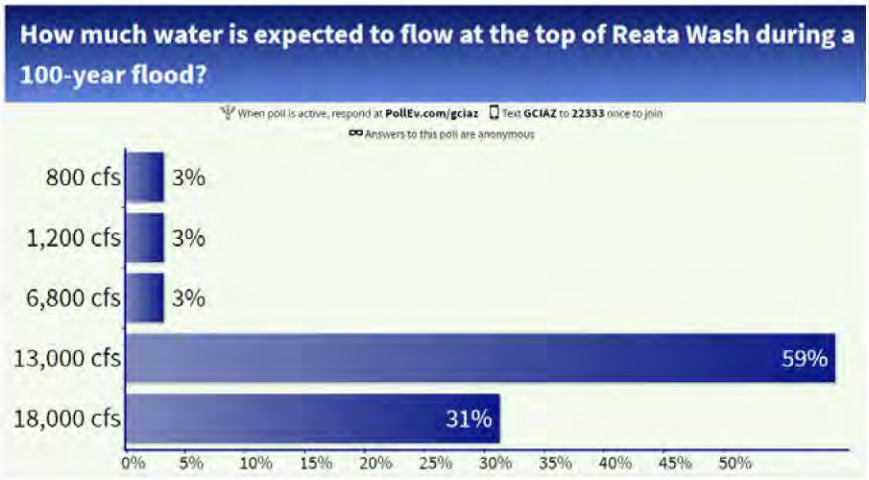
Most attendees believed it is important for the City to develop potential options to reduce flood risk and reduce or eliminate the need for flood insurance currently required by FEMA regulatory requirements for the current effective flood hazard zones. This is based on responses on the comment forms received and responses to an interactive poll conducted during the formal presentation.

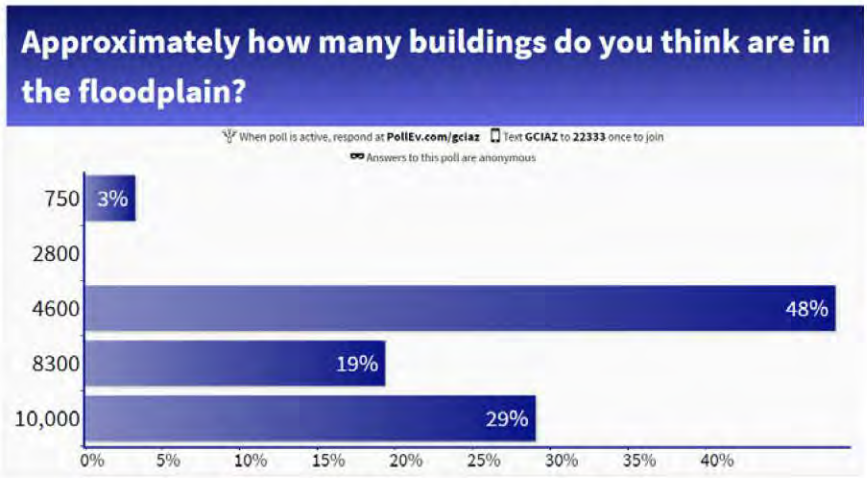
- **The majority – 82% of comment form responses and 86% of interactive poll responses – indicated it is very or somewhat important to develop options to reduce flood risk.**
    - Only 16% of comment forms and 13% of interactive poll responses indicated it is unimportant or not important at all to identify options to reduce flood risk.
    - A few indicated they don't know the importance (8% of comment forms).
- Of those who said it's important to identify options to reduce flood risk, key reasons included protecting life and property, as well as reducing flood insurance costs to property owners in the floodplain.
- Of those who indicated it's not important to reduce flood risk, key reasons cited include the belief that the FEMA floodplain is inaccurately mapped and homes in the floodplain are elevated and not at risk of flooding. Other reasons given for not thinking it is important to reduce the flood risk were the perception that it is impossible to control the power of floodwater, a desire to not have concrete structures, and the belief that the desert should be left in its natural state.
- A vocal contingent of residents believes the area is not at risk of flooding and do not support construction of new flood control infrastructure. Based on the public meeting poll results, this group is approximately 13% of the people who participated in the study.
- Some attendees complained about other participants who interrupted the presentation with questions and comments.

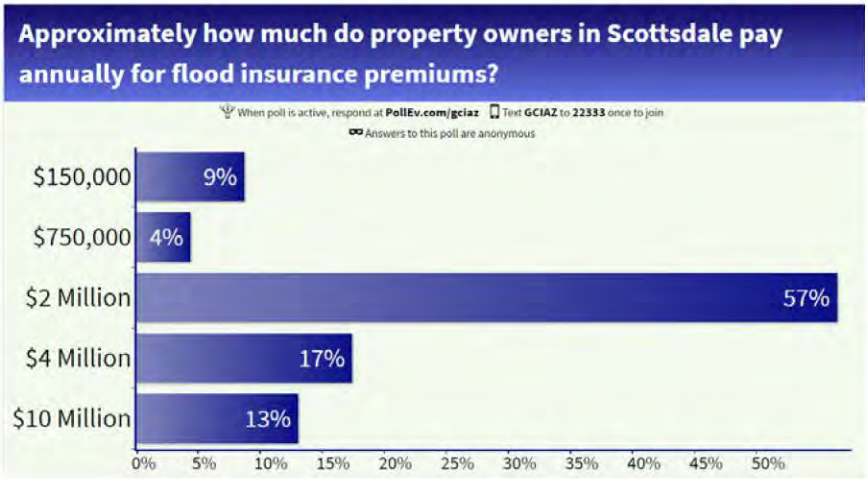
- Of those attendees who completed the meeting evaluation, most indicated they were very or extremely satisfied with the information they received (11 of 13 evaluations), as well as the knowledge, professionalism, and helpfulness of staff present (11 and 12 of 13 evaluations).

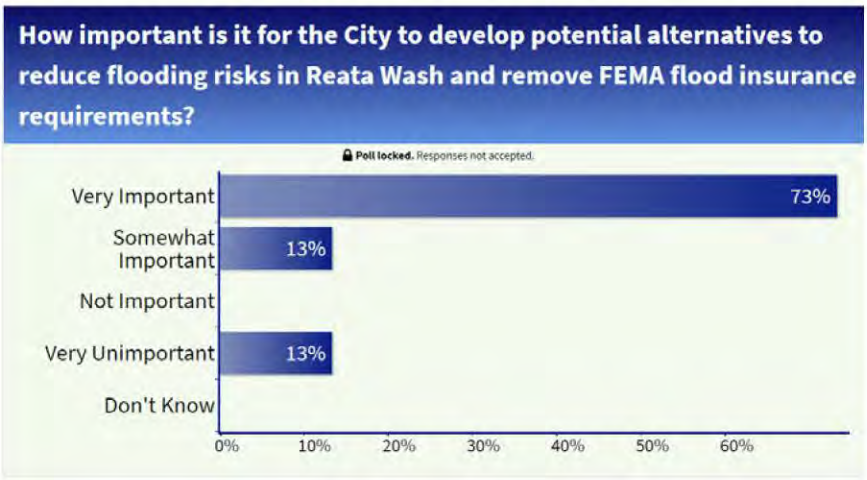
An interactive exercise was conducted during the presentation to engage the audience in understanding the potential flood risks in the Reata Wash floodplain, and explained the importance of studying options to reduce flood risk and reduce or remove flood insurance requirements for property owners. A total of 38 attendees participated in the interactive polling. Due to rounding, some totals do not appear to equal 100%. The following are the results of the polling exercises:











2.1.2 Meeting Notification

The following methods were used to notify residents about the meeting.

- Meeting invitation postcards were mailed to 8,412 households in the study area, as well as those living immediately adjacent to the study area. The postmark date was April 27, 2016.
- A notice was posted on the City of Scottsdale's website (on the home page and on the Reata Wash Study page).
- Notices were e-mailed to HOAs within the study area and association managers were asked to distribute the information to residents through their regular communications channels.

2.1.3 Format

Attendees signed in and were provided with a comment form, question card, study fact sheet, and instructions on how to participate with their cellular phones during the interactive exercise conducted during the formal presentation. The meeting was conducted in an open house format from 5:30-7:30 p.m. with a formal presentation at 6 p.m.

During the open house portion of the meeting, attendees could visit study display boards and maps and speak with study staff members. The following exhibit boards were displayed. Electronic copies of these boards are available in the Appendix, Section 4.2.

- Study area map with floodplain delineated
- Reata Wash existing drainage and flood control structures
- September 8, 2014 storm event rainfall levels
- Study area aerial from 1962 with alluvial fan diagram to illustrate alluvial fan
- Land ownership map of the study area for community members to indicate any flooding experienced

The meeting presentation provided information about the study purpose and need, flooding risks in the study area, examples of flooding experienced by residents in other north Scottsdale communities, next steps in the study process, and how the community will be involved. An interactive exercise was conducted during the presentation to engage the audience in understanding the potential flood risks in the Reata Wash floodplain.

2.2 Public Meeting #2: May 18, 2016

The second public meeting for the Reata Wash Flood Control Study was held on May 18, 2016 from 5:30-7:30 p.m. at Copper Ridge School, 10101 E. Thompson Peak Pkwy., in Scottsdale. A total of 105 people signed in for the meeting. Meeting documents are located in the Appendix, Section 4.2.

The purpose of the meeting was to:

- Provide information about flood risks in the Reata Wash floodplain and associated FEMA flood insurance requirements.
- Review and seek community input on potential flood control options to reduce the Reata Wash flood risk and the associated FEMA floodplain.

2.2.1 Key Findings

- Based on the comments received, there is more community support than opposition for a flood control solution for Reata Wash. Study supporters are generally in communities within reaches 3, 4 and 5. Study detractors are generally in communities within reaches 1 and 2 and are

homeowners whose properties are adjacent to or near the wash who are concerned about direct property impacts.

- In the reaches where there are flood control conveyance options, the small number of people (5 of the 105 attendees) who completed the evaluation scored the covered box culvert conveyance options higher than the U-channel options. In reaches 2 and 3 the average score for a covered box channel was 10.2 and 10.8 (out of a possible 15) compared to the average score for a U-channel of 8 in both reaches. Participants were asked to rate how effectively each alternative met the evaluation criteria. Higher scores indicate the alternative met or exceeded most of the evaluation criteria.
    - Reach 2 North: The grouted rock channel scored higher than the U-channel.
    - Reach 2 South: The grouted rock channel and covered box culvert were scored equally over the U-channel.
    - Reach 3 North: The grouted rock channel was scored slightly higher over the covered box channel. Both options scored higher than the U-channel.
- Respondents believed the grouted rock channel and the covered box culvert are equally acceptable to the community, and equally meet the criteria of being compatible with the character of the desert and minimizing impacts to wildlife and the environment. The covered box culvert scored slightly better on the criteria of minimizing impacts to adjacent properties versus the grouted rock channel, but scored lower in cost effectiveness.
- While the U-channel scored the lowest among the flood control options, it should be noted that this option was rated as somewhat meeting the criteria for all evaluation criteria.

The following table is the actual scoring for each alternative completed during the May 2016 public meeting.

Public Evaluation of Flood Control Options (Completed During Meeting)

Five people completed the evaluation matrix of the flood control options by reach. Participants provided a score to indicate how well each option being considered for a reach met the stated evaluation criteria. Point scale: Does Not Meet Criteria=0; Somewhat Meets Criteria=1; Meets Criteria=2; Exceeds Criteria=3. If people rated the alternative as exceeding all five evaluation criteria, the total possible score would be 15.

Evaluation Criteria	Reach 1	Reach 2 N / S A -Grouted Rock	Reach 2 N / S B - U channel	Reach 2 South C - Covered Box	Reach 3 North A - Grouted Rock	Reach 3 North B - U Channel	Reach 3 North C - Covered Box	Reach 3 South	Reach 4	Reach 5
Minimizes impacts to private properties.	10	9	9	11	10	9	11	9	9	10
Compatible with the character of the desert.	11	11	8	12	11	8	12	9	9	10
Minimizes impacts to wildlife and the environment.	11	11	7	11	11	7	11	11	11	10
Cost-effective design.	11	10	8	7	11	8	7	11	12	11
Acceptable to the community.	11	11	8	11	11	8	10	10	10	10
Total Score	54	52	40	52	54	40	51	50	51	51
Number of Responses	5	5	5	5	5	5	5	5	5	5
Average Score by Reach	**10.8**	**10.4**	**8**	**10.4**	**10.8**	**8**	**10.2**	**10**	**10.2**	**10.2**

2.2.2 Meeting Notification

The following methods were used to notify community members about the meeting.

- Meeting invitation postcards were mailed to 8,412 households in the study area, as well as those living immediately adjacent to the study area. Postcards were postmarked on May 9, 2016.
- A notice was posted on the City of Scottsdale's website (on the home page and on the Reata Wash Study page).
- Notices were e-mailed to homeowners' associations within the study area and association managers were asked to distribute the information to residents through their regular communications channels.
- An e-mail notice was sent to all 153 people on the Reata Wash mailing list with an e-mail address.

2.2.3 Format

Attendees signed in and were provided with a comment form and study newsletter. The meeting was conducted in an open house format from 5:30-7:30 p.m. with a formal presentation at 6 p.m.

During the open house portion of the meeting, attendees could visit study display boards and maps and speak with study staff members. The following exhibit boards were displayed. Electronic copies of these boards are available in the Appendix, Section 4.2.

- Study area map with existing FEMA floodplain delineated
- Study area map with proposed FEMA floodplain identified
- Study area map with proposed improvements/new floodplain
- Reata Wash existing drainage and flood control structures
- Study area aerial from 1962 with alluvial fan diagram to illustrate alluvial fan flooding
- Proposed Improvements – Reach 5
- Proposed Improvements – Reach 4
- Proposed Improvements – Reach 3S
- Proposed Improvements – Reach 3N
- Proposed Improvements – Reach 2S
- Proposed Improvements – Reach 2N
- Proposed Improvements – Reach 1
- Land ownership and easements map of the Reata Wash corridor with existing city land rights identified

The meeting presentation provided information about the study purpose and need, flooding risks, existing flood control infrastructure, flood control options evaluated and currently being considered in each reach, evaluation criteria for a flood control solution, next steps in the study process and how to provide input on the options. A question and answer period was conducted after the presentation using question cards provided to audience members.

3.0 Outreach/Communication Methods

The following is an overview of the tools and techniques used during the study.

3.1 Small Group Meetings and Briefings

Beginning in February 2015, city staff and study team members met with residents, community organizations and stakeholder groups to discuss the study and obtain additional input.

As of June 15, 2016, 18 stakeholder meetings had been conducted. Stakeholders included FEMA, Flood Control District of Maricopa County, Grayhawk Development, DMB, Catholic Diocese and Notre Dame, Toll Brothers, US Bureau of Reclamation, US Army Corps of Engineers, Central Arizona Project, Central Arizona Water Conservation District, Arizona State Land Department, and West World.

In addition, 15 meetings were held with residents and community organizations. The team met with Massoud Rezakhani, Church Road LLC (4 meetings), DC Ranch Community Council, Troon North Association, Coalition of Greater Scottsdale, Ladera Vista HOA, Pinnacle Peak Vistas III HOA, Craig and Ginger Schmersal, JD Helms and Attorney Paul Gilbert.

Nine other HOAs were contacted and asked if they would like a briefing on the study. These HOAs declined but agreed to distribute information on the study and the public meetings to their residents.

Meeting list is located in the Appendix, Section 4.3.

3.2 Study Fact Sheet and Newsletter

A study fact sheet was prepared in January 2016 and posted to the City website, e-mailed to HOA managers, handed out at the small group meetings and distributed at the first public meeting. The fact sheet included the study purpose, a description of the flood risk, overview of the existing flood control infrastructure and information about how to sign-up for the study e-mail distribution list and who to contact for more information.

An eight-page study newsletter was prepared in May 2016. The newsletter reminded the residents of the study purpose and the need for a comprehensive flood control solution. It included a list of the options evaluated, a description of the potential options in each reach, estimated costs, evaluation criteria and community benefits. Information was also provided on the input received to date and future opportunities to get involved. The newsletter was sent electronically to HOAs for distribution and posting, handed out at the public meeting and posted on the City website.

Copies of the final documents are located in the Appendix, Section 4.4.

3.4 Study Website

In January 2016, City staff updated the Reata Wash Flood Control page on the City website and posted a list of frequently asked questions and responses. Residents were able to sign-in to be on the e-mail distribution list. Following each public meeting, the meeting presentation was posted to the study webpage. After the second public meeting, the flood control options evaluation form was posted to the website for residents to provide comment online.

Documentation is located in Appendix, Section 4.5.

3.5 Postcard Notifications

Prior to each public meeting, postcards were printed and mailed to 8,412 households in the study area and those living immediately adjacent to the study area. The March 2016 meeting postcards were mailed in February 2016 and the May 2016 postcard was mailed in early May 2016. Copies of the postcards are located in the Appendix, Section 4.2.

3.6 Information for HOAs

Throughout the study, electronic updates were provided to 19 area HOAs for distribution to residents through their existing social media, websites and newsletters. Information provided included public meeting notices, notification of new postings to the website, and the study fact sheet and newsletter.

Notice for the May 18, 2016 public meeting was sent on March 18, 2016 to allow plenty of lead time for inclusion in HOA newsletters.

Documentation is located in the Appendix, Section 4.6.

3.7 E-Mail Updates

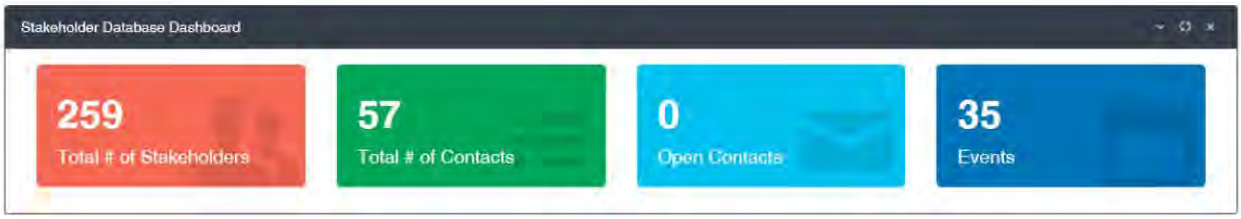
Residents were encouraged to sign up for the study's e-mail distribution list to receive meeting notices and electronic updates. An e-mail notice was sent to all 153 people on the Reata Wash mailing list with an e-mail address on May 3, 2016 as a reminder of the upcoming public meeting. The final list included 226 e-mail addresses.

Updates are included in the Appendix, Section 4.7. Distribution lists are not included in the Appendix to protect privacy of participants' contact information.

3.8 Stakeholder Management System

Contacts with residents, meeting dates, and requests for information were documented in Gunn Communications, Inc.'s online stakeholder management system. The following dashboard shows the numbers of records in the database.

The contacts are included in the Appendix, Section 4.8. Personal contact information has been removed.



4.0 Appendix

4.1 Public Involvement and Communications Plan

January 2016

Reata Wash Flood Control Study

Public Involvement and Communications Plan

Prepared for:

City of Scottsdale

Prepared by:

GCI

Prepared on behalf of:

Wood Patel

Table of Contents

1.0 Plan Overview 2

1.1 Goals 2

1.2 Objectives 3

1.3 Level of Involvement 3

1.4 Outreach Phases 3

2.0 Outreach Tools 5

2.1 Small Group Meetings and Briefings 5

2.2 Public Meetings 6

2.3 Grassroots Outreach 6

2.4 Stakeholder Management System 6

2.5 Public and Stakeholder Involvement Report 7

3.0 Communications Plan 8

3.1 Key Messages 8

3.2 Communications Tools 10

Fact Sheets 10

Website 11

E-Newsletter Updates 11

Printed Newsletters 11

Supplied Articles for Homeowners Associations 11

Social Media 11

Postcards 12

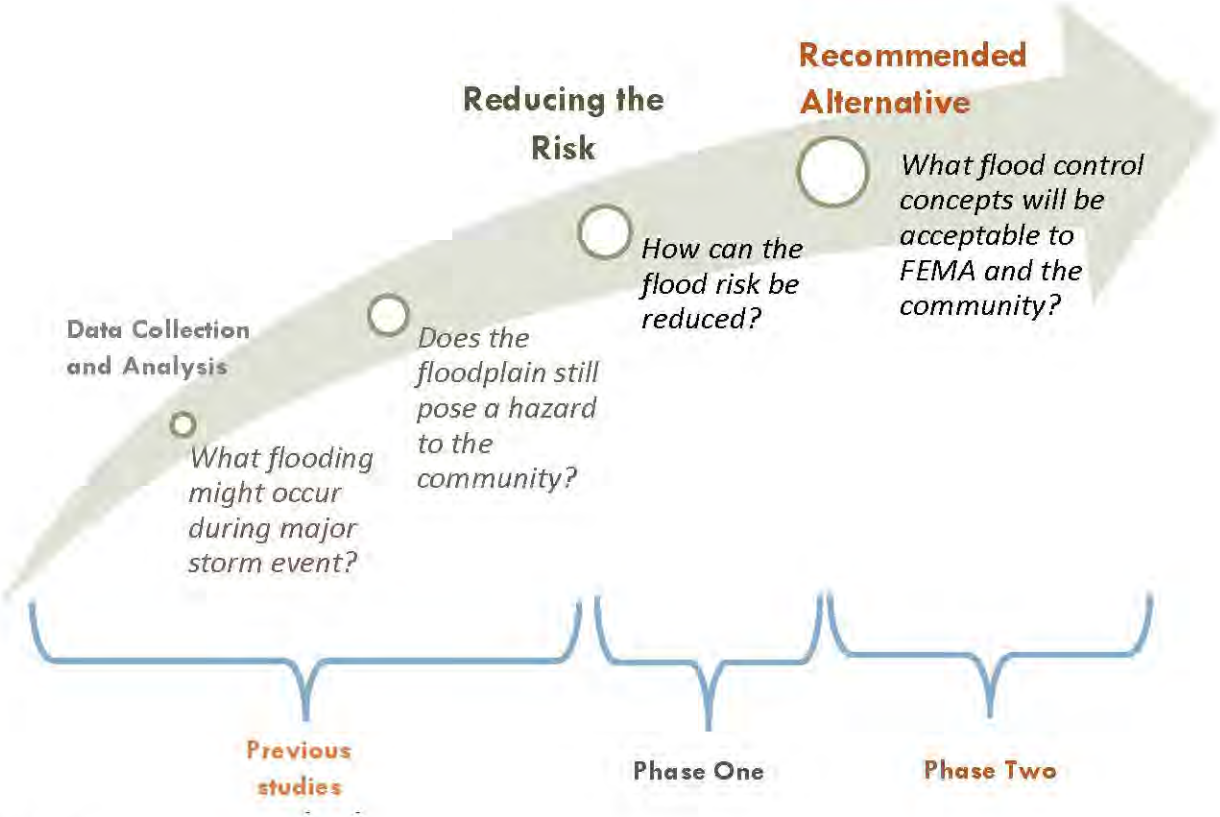
3.3 Media Strategy 12

4.0 Schedule 13

5.0 Stakeholders 14

1.0 Plan Overview

The purpose of this public and stakeholder involvement plan for the Reata Wash Flood Control Study is to detail how the community will be engaged during the two primary phases of the study: 1) identification of potential flood mitigation measures and 2) analysis and recommendation of options for reducing the flooding risk. This plan includes goals and objectives, key messages, tools to be used, schedule, and stakeholders. This is a "living" document. At the end of the first outreach phase, the plan will be evaluated and modified as needed to effectively fulfill goals and objectives.



1.1 Goals

The primary goals of the two study phases are:

Phase 1 – To generate awareness among the community and affected property owners of the potential flood risks within the Reata Wash floodplain and to develop community consensus about the need for flood control mitigation and possible strategies to reduce the risk.

Phase 2 – To evaluate community and agency acceptability of potential flood mitigation concepts and obtain community consensus on a preferred alternative to be presented to City Council.

1.2 Objectives

- Create awareness of the flood hazards/risks that exist,
- Develop a common understanding of the study purpose, need, and outcomes,
- Understand the community's desire to minimize flood risks,
- Identify the potential solutions that would be effective for flood mitigation,
- Determine which potential solutions can be constructed to be compatible to the surrounding community character, and
- Identify potential flood mitigation solutions acceptable to the community.

1.3 Level of Involvement

Inform – Educate community members about the characteristics of stormwater flows in the Reata Wash floodplain, the gaps in the existing drainage and flood control system, and hazards/risks to properties and infrastructure within the floodplain.

Consult – Achieve community acceptance of the problem and the need for flood mitigation.

Involve – Determine the flood mitigation concepts and features that the community supports.

1.4 Outreach Phases

This public and stakeholder plan includes engaging the community during two different periods during the study.

1.4.1 January 2016 – March 2016

Purpose: Inform community of the study purpose and need, flood risks, limitations, and overall approach for mitigation. Seek community consensus on the need for flood mitigation.

Tools to be used during this period include the following:

- Scottsdale web page
- Study fact sheet
- E-newsletter update
- Small group meetings with key stakeholders (homeowners associations, major landowners, and community organizations)
- Grassroots outreach to individuals as needed
- City Council Update
- Public meeting #1 (March 2016) to provide an introduction to the study and seek community consensus on the need for flood mitigation.

1.4.2 April – August 2016

Purpose: Present flood mitigation concepts and design features to determine which are acceptable to the community.

Tools to be used during this period include the following:

- City web page
- Study fact sheet update
- E-newsletter update
- Small group meetings with key stakeholders (homeowners associations, major landowners, and community organizations)
- Grassroots outreach to individuals as needed
- Public meeting #2 (May) to review and provide input on potential concepts and their features

Staff anticipates presenting the recommended alternative to City Council for approval in November/December 2016.

2.0 Outreach Tools

The following are different ways in which each of the stakeholders listed in section 4.0 will be involved in the study process, as well as communications tools to be used.

2.1 Small Group Meetings and Briefings

The team will meet to provide study briefings with key stakeholders in the area – including major landowners (e.g., developers of large residential and commercial tracts), homeowners association boards, and community groups – to provide information about the study, seek input on options being considered that affect them, invite them to upcoming public meetings, and ask them to share study information and opportunities for input with their organizations. These meetings will give the team a chance to address issues and get feedback from individual neighborhoods within the Reata Wash floodplain.

2.2 Public Meetings

Two general community meetings will be conducted – one during each phase of the public outreach process. Two meetings will be held in different locations within the study area for each phase, given that different segments of Reata Wash will have unique challenges and possibly differing solutions. These meetings will allow community members to learn about the study, ask questions, and give feedback to the assessment team.

2.2.1 Public Meeting 1: March 2016

Purpose: Provide an introduction to the study purpose and need, communicate flood hazards/risks, and seek community consensus on the need for flood mitigation.

- The meeting will include:
  - A brief overview of the study history, purpose, need, and schedule.
  - Clarification about how this study is different from and builds upon the Pinnacle Peak South ADMS, which served as a planning tool.

- An overview of flood risks within the study area, focusing on the nature of alluvial fan flooding and potential volume of water at the apex, and uncertainty of the path of stormwater.
- An overview of the existing drainage infrastructure along Reata Wash.
    - Where gaps exist in the drainage and flood control system and what effects this has with drainage and FEMA compliance.
    - What type of strategy would be needed to be effective for mitigation.
- The direct and indirect benefits of flood mitigation along Reata Wash, including number of structures likely removed from risk and the floodplain.
- Facilitation of an exercise or discussion to determine community consensus on the need for flood mitigation, and community members' specific concerns about flood mitigation that should be considered in developing potential concepts.

2.2.2 Public Meeting 2: May 2016

Objective: Present potential concepts for flood mitigation, seek input on preferred design elements, and seek community consensus to determine a preferred alternative.

The meeting will include:

- A presentation of flood control concepts and features (e.g., context sensitive solutions, landscaping, etc.), as well as cost.
- A representation of the potential floodplain area with the flood mitigation.
- Interactive exercise to provide input on the concepts and features, and reach consensus on which concepts/features are preferred.

2.0 Outreach Tools

2.3 Grassroots Outreach

Throughout this process, the study team understands that individual residents will have questions that may arise outside of other planned outreach meetings above. More individualized communication methods of telephone calls and e-mails will be provided to give residents the personal attention that may be required.

2.4 Stakeholder Management System

We will utilize the online Stakeholder Management System (SMS) to manage the stakeholders, contact information, meetings, communications and input received throughout the study. Team members will have access to the project database and may add their own contacts. The SMS allows contacts to be categorized by issue and tracks level of project support.

2.5 Public and Stakeholder Involvement Report

A Public and Stakeholder Involvement Report will be prepared detailing the public outreach efforts implemented during the two phases. An initial summary will be developed following public meeting #1 and a final summary will be developed after meeting #2.

3.0 Communications Plan

The communications plan for the study addresses how the City and study team will communicate with the public, stakeholders, and the media, and the messaging to be used during each phase of the public involvement process.

3.1 Key Messages

Key messages will be used by the City and study team in communicating with the public and project stakeholders. These messages ensure all stakeholders are given consistent, clear information about the study purpose and need, flood risks, options for mitigation, and what input is being asked for.

Given the history of the study area and the previous studies that have been conducted, it will be important for residents to clearly understand what this study entails. In addition, based on previous engagement conducted, there are likely varying levels of understanding among residents regarding flooding risk.

It is critical that residents understand the flood risks that may affect them, and that these risks are presented in such a way that provides realistic scenarios about flooding hazards in any given storm.

Phase I Messages

Why Are We Conducting the Study?

- The Reata Wash floodplain poses significant flood risks to people, properties and public infrastructure in north Scottsdale.
    - There are approximately 4,600 residential and commercial structures and public facilities within the floodplain currently at potential risk of flood damage from a 100-year rainfall event.
    - Several major transportation arterials – including Pima Road, Thompson Peak Parkway and Pinnacle Peak Road – are likely to be impassible and potentially damaged following a major storm. This situation would create access issues for residents and emergency providers, and these flood hazards create a public health and safety risk to the north Scottsdale community.

3.0 Communications Plan

- A previous study, the Pinnacle Peak South Area Drainage Master Study (PPS ADMS) identified significant flooding hazards in the Reata Wash floodplain. Both the Flood Control District of Maricopa County (FCDMC) and the city agreed that an extensive public involvement effort would be necessary to address future mitigation of the flooding hazards. As a result, in 2014 City Council approval was obtained and the current Reata Wash Flood Control Improvement Study was started.

What is the Study Purpose?

- The purpose of the study is to identify and recommend flood control measures that will reduce flood risks to residents, property and public infrastructure. We will work with the community to develop a solution that is cost effective, sensitive to the environment, and compliant with federal regulations and guidelines. A secondary goal is to remove or reduce the size of the current floodplain designation established by FEMA. This would eliminate or reduce the requirement for many property owners to purchase flood insurance through the NFIP.

How Will the Community Be Involved?

- The study team will coordinate with a number of governmental agencies, including the City of Scottsdale, Flood Control District of Maricopa County, the Bureau of Reclamation, the US Army Corps of Engineers, and FEMA.

- Public involvement and input is a key element of this study. Community and stakeholder input will be used to help define flood control mitigation best suited for each section of Reata Wash.

- We anticipate holding two public meetings during the study process – the first to provide information about the flood risks and potential mitigation strategies and the second to seek input on possible flood mitigation concepts and features.

- We also plan to meet with homeowners' associations and other key stakeholders to provide information about the flood hazards and risks in their communities and seek input on flood mitigation strategies.

Phase Two Messages

- Based on the significant flood risks to resident; and input from the community, the city will develop several alternative concepts for flood mitigation. An alternative to not proceed with any flood mitigation will be an option.
- Input from the community, as well as technical factors and cost considerations, will be used to determine the preferred alternative.
- The community will provide input regarding the potential trade- offs of costs, impact to adjacent properties and community sensitive design features.

3.2 Communications Tools

The following communications tools will be used to inform the public and key stakeholders about the study and opportunities for input.

Fact Sheet

A study fact sheet will be developed to provide community members with pertinent information about the study purpose and need, characteristics of flooding within the Reata watershed, study findings, study process and schedule, and how to provide input. The fact sheet will be used as a handout at the community meetings and uploaded to the city web page.

Website

A landing page on the City of Scottsdale website has been created for the study and will be used to complement many of the other outreach tools. The web page will include study information (purpose and need, flood risks identified, FAQs and glossary, maps and concept graphics, etc.), notices of community meetings and other outreach opportunities, contact information for the city, a form to sign up for the study e-newsletter, and a form to send comments directly to the assessment team. Public meeting materials, including maps and exhibits, presentations, handouts, and comment forms, will be posted on the web page for those who are unable to attend. The goal is to provide easily-accessible information about the study, while creating a two-way communication link with the study team and the city.

E-newsletter Updates

A periodic e-mail newsletter will be distributed to those residents who have signed up for this information tool. Content will include: an introduction to the study, the study process, flood hazard and risk information, proposed flood mitigation concepts, description of the outreach program, dates and locations of public meetings, how to provide input, and where to get more information or ask questions. The newsletters will have links to the project web page for graphics and more information.

Printed Newsletters

Two project newsletters will be developed prior to each of the two project phases and will provide more detailed information than will be included in the shorter e-newsletter updates. These newsletters will use city-approved designs and templates. Newsletters will be provided as handouts at the two public meetings, posted to the web page, and distributed electronically to the study e-mail list with a link to the document on the web page.

Supplied Articles for Homeowners Associations

The team will provide short articles to homeowners associations to provide information about the study and public meetings for their use in Homeowners Association (HOA) communications materials.

Social Media

The team will provide content for HOAs and organizations to promote the public meetings and city decisions on the alternatives.

Postcards

The City of Scottsdale will print and distribute postcards within the study area to promote the study and the public meetings.

3.3 Media Strategy

The City of Scottsdale Public Information Office will lead the media relations for the study, send materials to the media, and serve as the primary point of contact for the study. The Scottsdale Capital Projects representative may also serve as a media spokesperson for

the study. Consultant team members will not speak to the media about the study without prior permission from the Scottsdale Project Manager, will notify any media representatives that they are not authorized spokespersons, and will direct media to Scottsdale Public Information Office for study information and comments.

Media relations will be used to help promote the public meetings. Local publications within the study area will be targeted to provide this information.

The study team will provide key messages, news releases, and other needed information to the Scottsdale Public Information Office (PIO). Scottsdale staff will send news releases and respond to media inquiries.

4.0 Schedule

The planned schedule for public outreach activities and development of outreach materials is listed below:

Jan 2016

- Approve Public Involvement and Communication Plan
- Finalize fact sheet layout and Q&A, place on website, and distribute
- Identify public meeting #1 date/location
- Begin contacting individual key stakeholders (HOA managers, developers, etc.) to arrange meetings in January/February
- Begin contacting HOAs to attend January/February 2015 board meetings
- Prepare initial fact sheet

Jan/March 2016

- Meet with HOA boards
- Continue individual meetings with key stakeholders
- Promote public meeting through e-newsletters, social media, postcards, and media relations
- Hold Public Meeting #1
- Prepare Phase I outreach summary

March/April 2016

- Adjust Public Involvement/Communications Plan as needed
- Identify date for public meeting #2
- Begin promoting public meeting #2
- Prepare printed newsletter # 2

May/June 2016

- Continue individual meetings with key stakeholders
- Promote public meeting through e-newsletters, social media, postcards, and media relations
- Hold Public Meeting #2
- Prepare Phase Two outreach summary

Aug-Dec 2016

- Present recommendation to Council for approval
- Communicate decision to public/stakeholders

5.0 Stakeholders

We will compile a list of interested individuals, property owners, key stakeholders, and HOAs in the project area and upload this information to our project SMS. We will identify community stakeholders and determine the best methods of contact and communication moving forward. We will make initial contact with HOA's in the project area to understand how and when they communicate with their communities. We will also identify key communities and areas which could benefit from a more personalized, smaller discussion relative to their neighborhood.

Key stakeholders currently identified for the project include:

Stakeholders: Includes government agencies (regional, state, federal) and large property owners (public and private)

- Federal Emergency Management Agency
- Flood Control District of Maricopa County
- Bureau of Reclamation
- Central Arizona Water Conservation District
- Arizona State Land Department
- WestWorld of Scottsdale
- Catholic Diocese/Notre Dame High School
- DMB Associates
- Grayhawk Development
- Toll Brothers

Community Groups and Homeowners Associations:

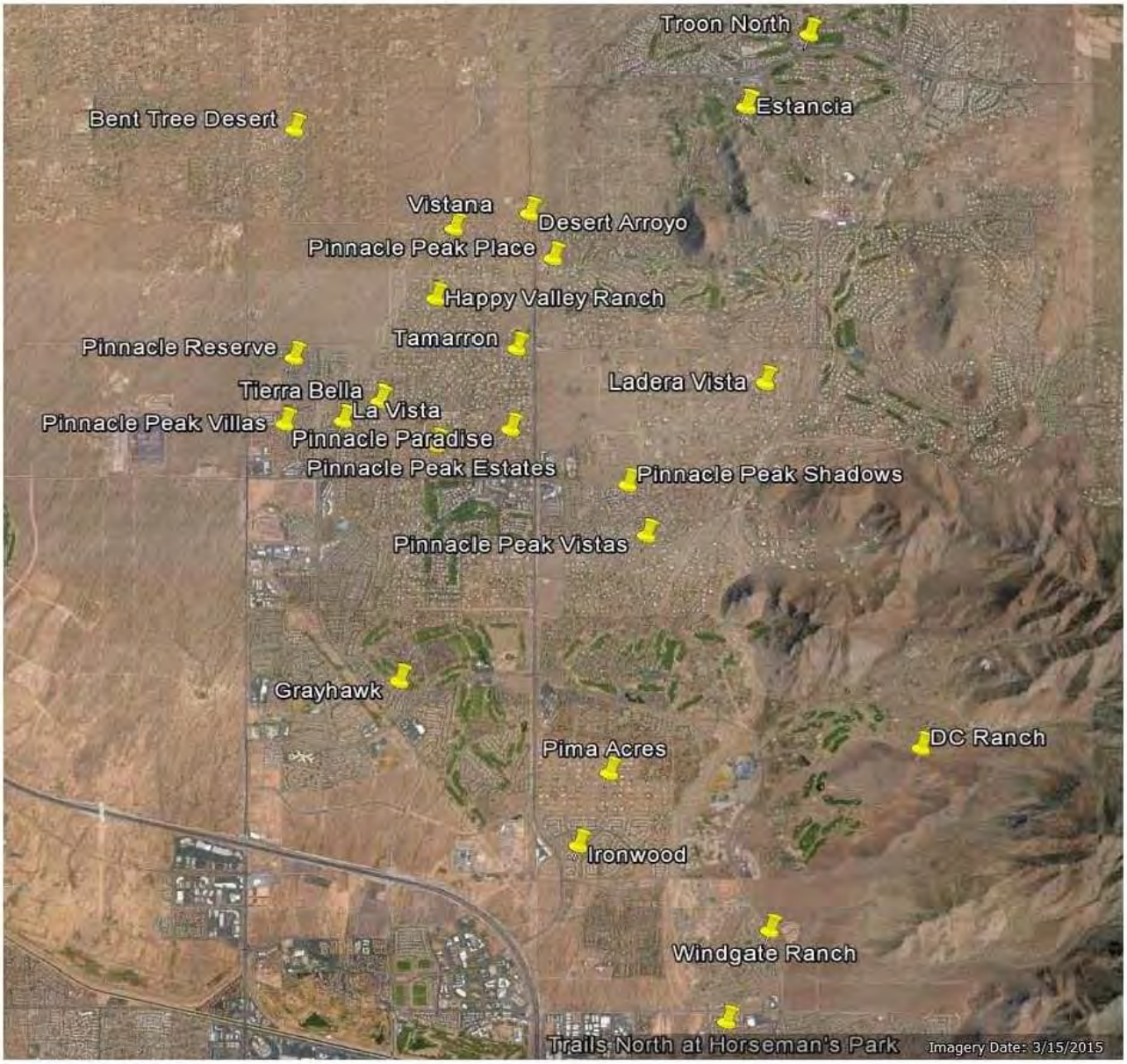
- Church Road LLC
- Coalition of Greater Scottsdale Meeting
- DC Ranch Community Council
- Estancia HOA
- Greater Pinnacle Peak HOA
- Ironwood Village HOA
- Ladera Vista HOA
- La Vista HOA
- Pinnacle Paradise HOA
- Pinnacle Peak HOA
- Pinnacle Peak Reserve HOA

5.0 Stakeholders

- Pinnacle Peak Vistas III HOA
- Tierra Bella HOA
- Troon North Association
- Windgate HOA

5.0 Stakeholders

Targeted Reata Wash HOAs



4.2 Public Meetings

- Public Meeting #1: March 2, 2016
  - Meeting Notice – electronic postcard
  - Exhibits
  - Presentation
  - Summary
  - Comment Forms
  - Sign-In Sheets (not included to protect personal contact information)

- Public Meeting #2: May 18, 2016
  - Meeting Notice – electronic postcard
  - Exhibits
  - Presentation
  - Summary
  - Comment forms
  - Sign-In Sheets (not included to protect personal contact information)

Reata Wash Flood Control Study

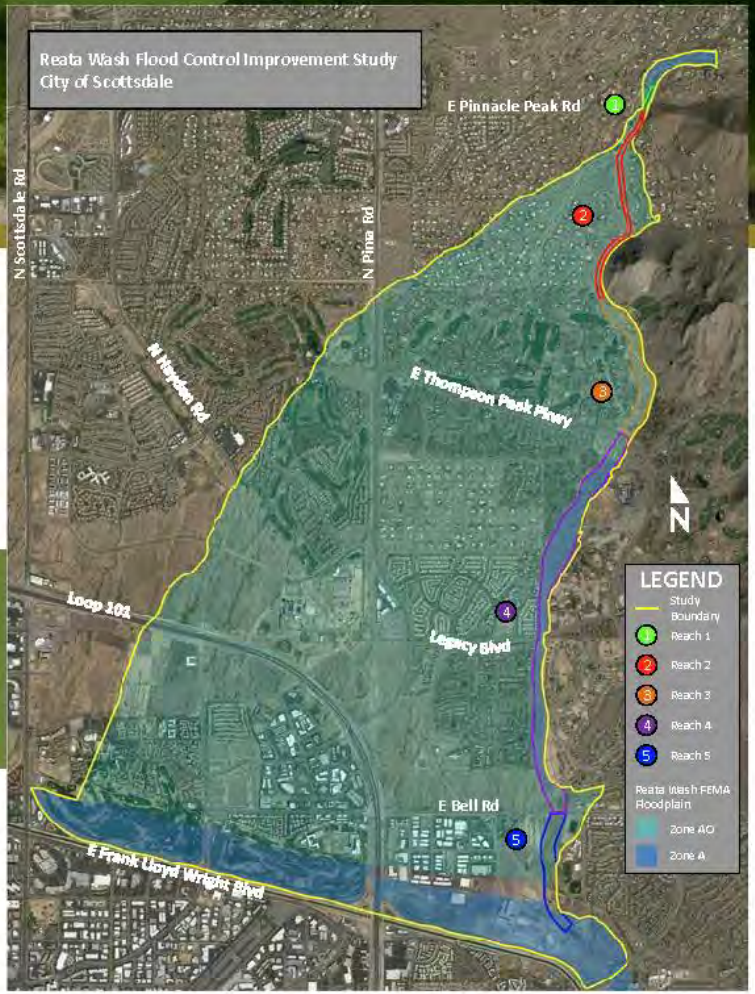
JOIN US FOR A COMMUNITY MEETING TO:

- Learn about flood risks to residents, properties, public buildings and streets in the Reata Wash floodplain.
- Provide input on possible flood control strategies to reduce the community's flood risk, which could remove or reduce the size of the current FEMA floodplain designation.

Wednesday, March 2
5:30 – 7:30 p.m., presentation at 6 p.m.
Copper Ridge School, Cafeteria
10101 E. Thompson Peak Pkwy., Scottsdale

MORE INFORMATION/EMAIL LIST

City Of Scottsdale Stormwater Management:
480.312.7328
www.scottsdaleaz.gov, Search "Reata" for more information or to sign up for the study email list to receive updates.



Reata Wash Flood Control Study

COMMUNITY MEETING

Wednesday, March 2

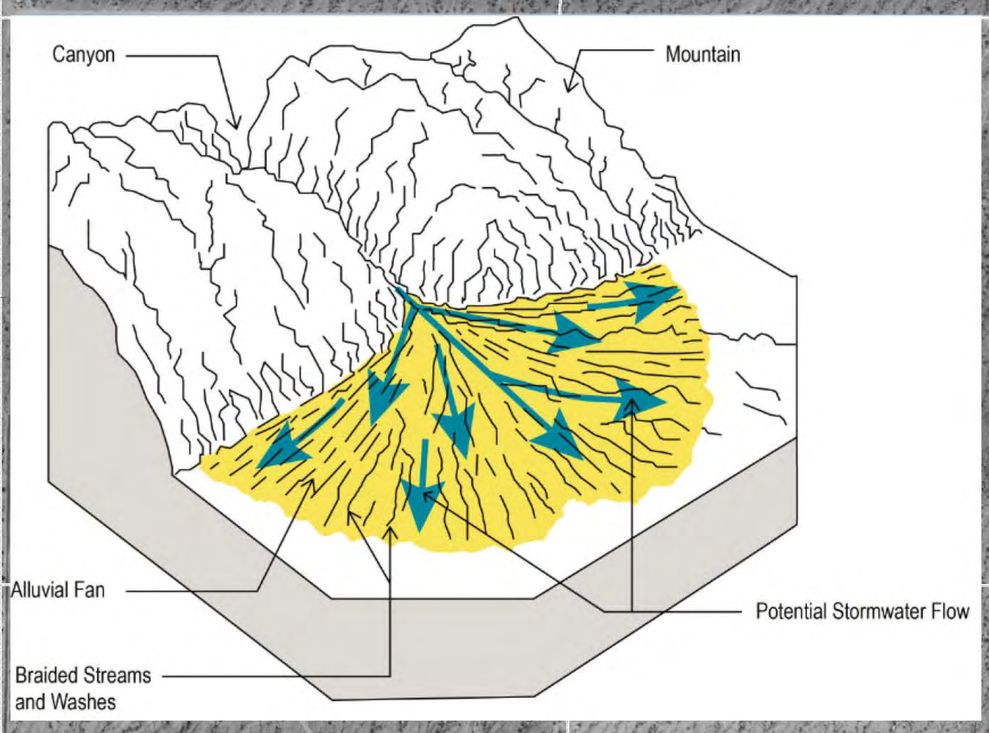
5:30 – 7:30 p.m., presentation at 6 p.m.

Copper Ridge School, Cafeteria
10101 E. Thompson Peak Pkwy., Scottsdale

Learn about flood risks in the Reata Wash floodplain and provide input on possible strategies to reduce the community's flood risk.

City of Scottsdale
Capital Project Management
7447 E. Indian School Road
Scottsdale, AZ 85251

Reata Wash Flood Control Improvement Study
City of Scottsdale 1962 Aerial



Pinnacle Peak Road Alignment

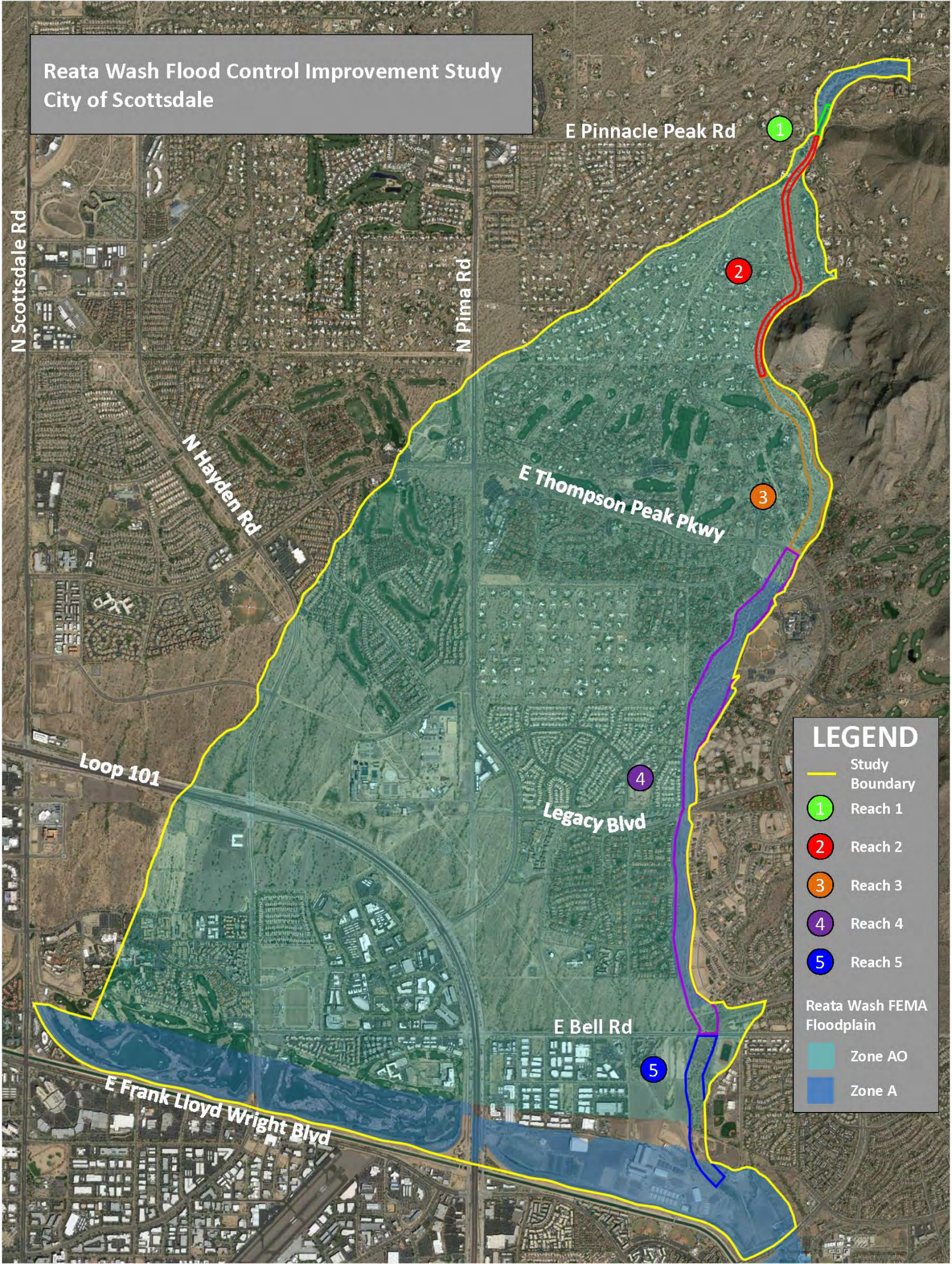
Pima Road Alignment

Scottsdale Road Alignment

Bell Road Alignment

Legend

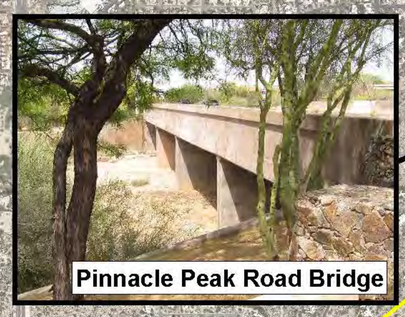
- Reach 1
- Reach 2
- Reach 3
- Reach 4
- Reach 5
- Reata Wash Study Limits
- Township Range Section


Reata Wash Flood Control Improvement Study
City of Scottsdale
E Pinnacle Peak Rd
N Scottsdale Rd
N Pima Rd
N Hayden Rd
E Thompson Peak Pkwy
Loop 101
Legacy Blvd
E Bell Rd
E Frank Lloyd Wright Blvd
1
2
3
4
5
LEGEND
Study Boundary
Reach 1
Reach 2
Reach 3
Reach 4
Reach 5
Reata Wash FEMA Floodplain
Zone AO
Zone A

Reata Wash Drainage and Flood Control Structures
City of Scottsdale

Pinnacle Peak Road Bridge

Pinnacle Peak Rd


Pinnacle Peak Road Bridge

Foothills Drive Culvert

Pima Rd

Hayden Rd

Thompson Peak Parkway Bridge

Thompson Peak Pkwy

Buried Bank Protection

Culvert

Scottsdale Rd

Loop 101

Culvert

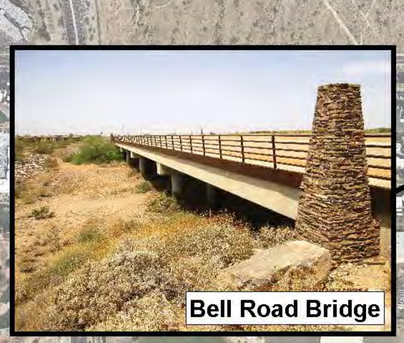
Legacy Blvd

Legacy Boulevard Bridge

Bell Road Levee

Typical Channel

Bell Rd


Bell Road Bridge

Bell Road Bridge

Frank Lloyd Wright Blvd

McDowell Mountain Ranch Road

Regional Retention Facility

Legend

- Reach 1
- Reach 2
- Reach 3
- Reach 4
- Reach 5
- Reata Wash Study Limits

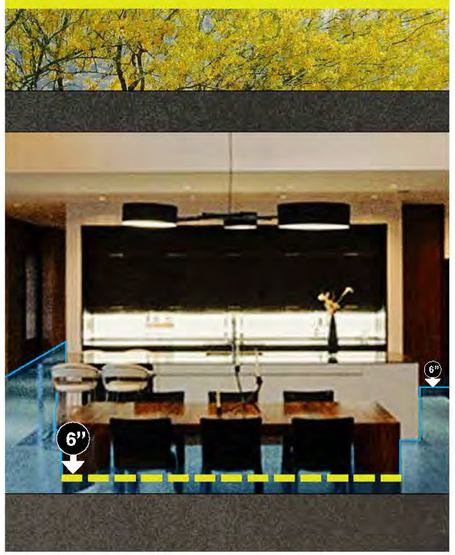
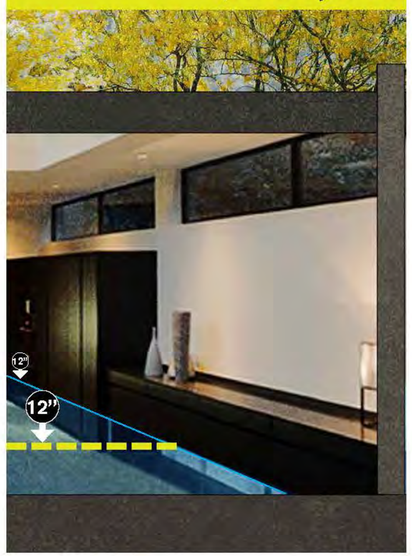
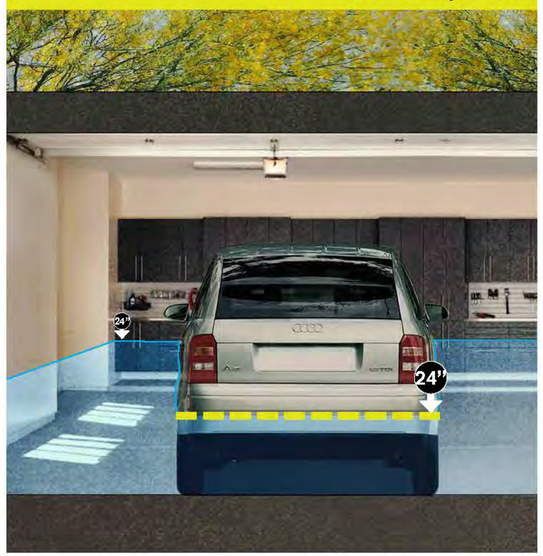
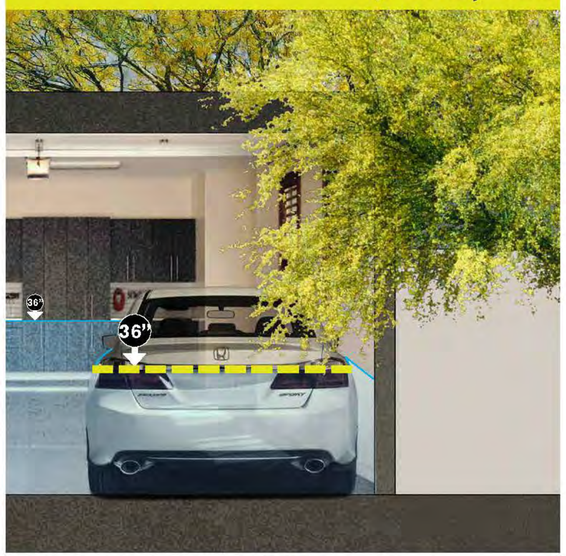
Reata Wash Flood Control Improvement Study
Community Facilities

Pinnacle Peak Rd
Pima Rd
Hayden Rd
Thompson Peak Pkwy
Scottsdale Rd
Loop 101
Legacy Blvd
Bell Rd
Frank Lloyd Wright Blvd

Legend

City Owned Facility
Park
Police
Fire Station
Hospital
School

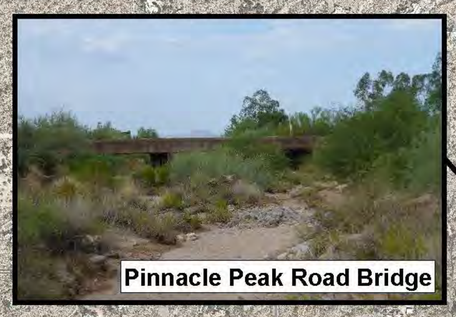
DAMAGE COST

$41,840	$78,300	$104,440	$125,760	$136,200
				
1” Depth of Water	**6”** Depth of Water	**12”** Depth of Water	**24”** Depth of Water	**36”** Depth of Water
▪ Flooring ▪ Carpeting	▪ Baseboards ▪ Drywall	▪ Electrical Outlets ▪ Computers	▪ Furniture ▪ Cabinets	▪ Appliances ▪ AC / Furnace

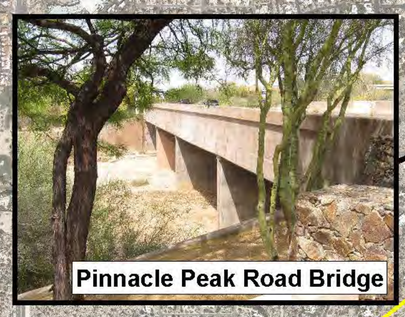
* Damage estimates based on national average flood damage. (source: floodsmart.gov). From 2010 to 2014, the average flood claim amounted to nearly $42,000. (source: fema.com).

ESTIMATED COST OF FLOODING [4,000 sq.ft. HOUSE]

Reata Wash Drainage and Flood Control Structures
City of Scottsdale


Pinnacle Peak Road Bridge

Pinnacle Peak Rd


Pinnacle Peak Road Bridge

Foothills Drive Culvert

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Culvert

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Typical Channel

Scottsdale Rd

Loop 101

Bell Rd

Bell Road Bridge

Bell Road Bridge

Frank Lloyde Wright Blvd

McDowell Mountain Ranch Road

Regional Retention Facility

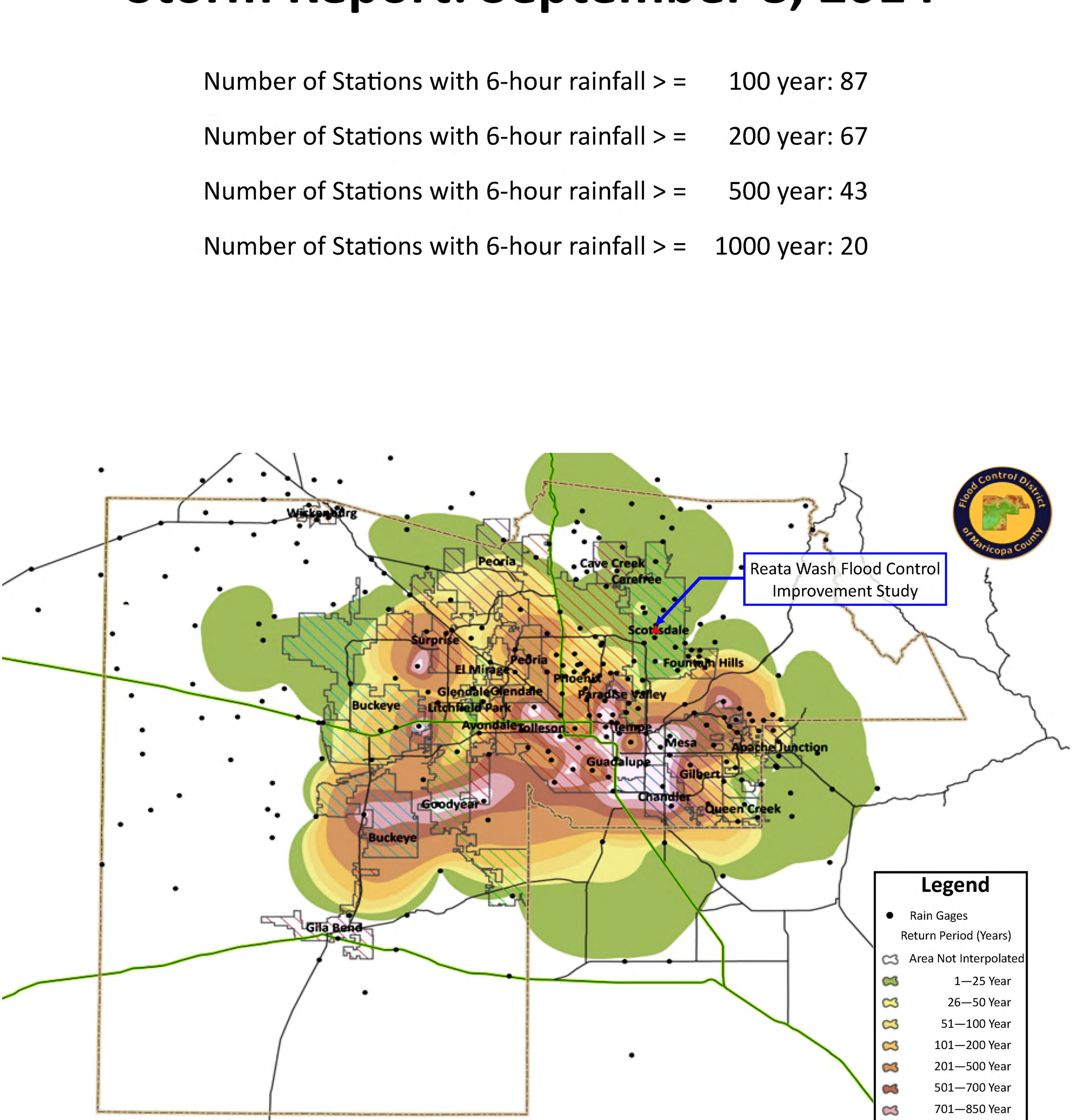
Legend

- Reach 1
- Reach 2
- Reach 3
- Reach 4
- Reach 5
- Reata Wash Study Limits

Reata Wash Flood Control Improvement Study
City of Scottsdale

Storm Report: September 8, 2014

Number of Stations with 6-hour rainfall > =	100 year: 87
Number of Stations with 6-hour rainfall > =	200 year: 67
Number of Stations with 6-hour rainfall > =	500 year: 43
Number of Stations with 6-hour rainfall > =	1000 year: 20



Source: Flood Control District of Maricopa County

Reata Wash Flood Control Study

Get Ready to Participate:

- Send TEXT message
  - TO: 22333
  - MESSAGE: gciaz
- You will receive a reply:
  - You've joined Theresa Gunn's session (GCIAZ)

1

Reata Wash Flood Control Study

Public Meeting

March 2, 2016

2

Tonight's Agenda

- **Interactive Exercise: The Reata Wash Floodplain**
- **Overview of the Reata Wash Flood Control Study**
- **Discussion:**
  - *Importance of reducing flood risks*
- **Next Steps**
- **Questions via "Poll Everywhere" & question cards**
- **Open House**

3

Tips for a Good Meeting

- Silence phones but keep available to participate
- Everyone encouraged to participate
  - Public discussion, not a debate
- Allow time for others (no long speeches)
- Be respectful of others' opinions
  - Do not interrupt other participants
- Listen with an open mind

4

Reata Wash Flood Control Study

Purpose

- Protect residents and property
- Protect community facilities & infrastructure
- Maintain emergency access

How

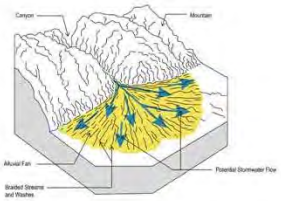
- Identify existing flood control structures
  - Determine Federal Emergency Management Agency (FEMA) compliance
- Identify potential flood control measures and their cost
- Engage public/seek input

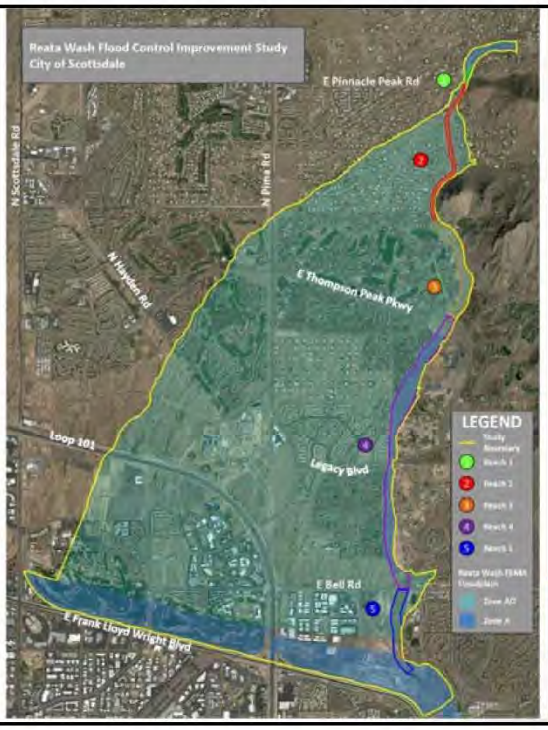
Results

- Recommend alternative solutions to Council
  - Reduce risk of flooding
  - Remove or reduce current FEMA floodplain
- No funding currently identified for improvements
  - Council would need to allocate $ to move forward

5

Reata Wash Floodplain





6

Q: What is a 100-year flood?

Desert Mountain subdivision, Scottsdale
Aug. 2014 storm

7

Your poll will show here

1

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pollev.com/app

2

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Slide Show mode

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or
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A: All of the Above

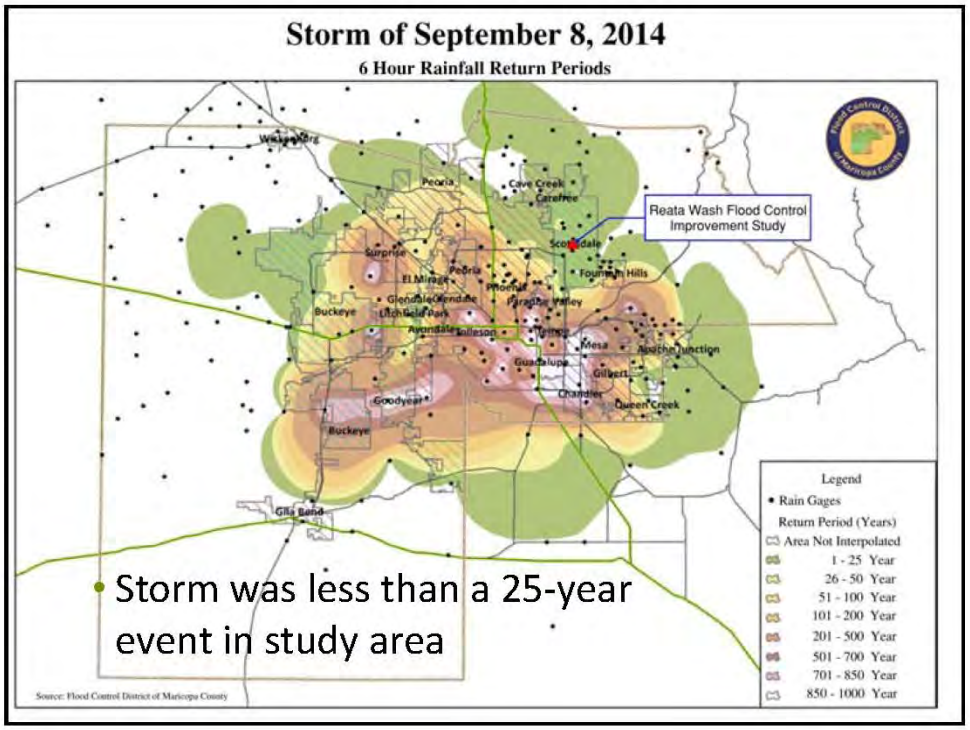
- 1% chance to occur in any year
- Can have more than one in a single year
- Determined by National Oceanic and Atmospheric Administration (NOAA) using historical rainfall data
- 4-5" of rain in 24 hours over this watershed

9

Why We Care About the 100-Year Flood

- Used to determine the FEMA floodplain hazard areas
- Federal and local standard for structural flood protection measures

10



Q: ***How much water is expected to flow at the top of Reata Wash during a 100-year flood?***

Measured in cubic feet per second (CFS)

12

Your poll will show here

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or
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A: 13,000 cfs

14

Q: *Approximately how many buildings do you think are in the floodplain?*

- Includes homes, businesses, schools, fire stations, post offices, hospitals, etc.

15

Your poll will show here

1

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or

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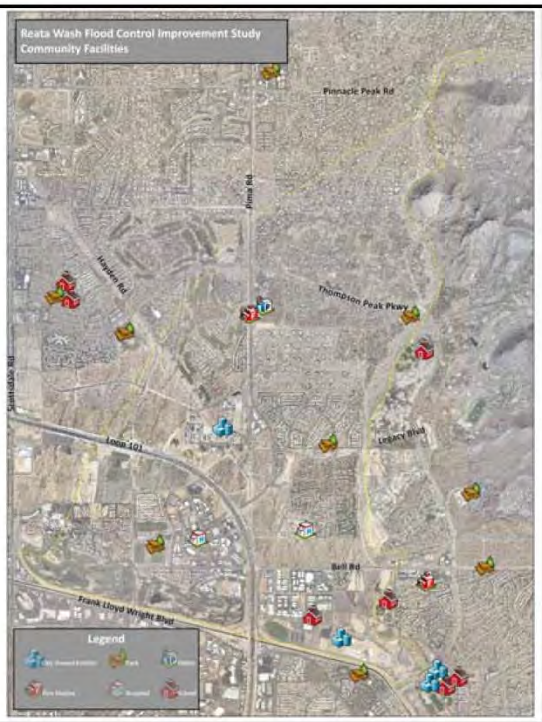
A:

4,600 Structures

Some of these include:

- 3,200 homes
- 229 multi-family
- 7 schools
- 2 fire stations
- 2 hospitals
- 1 police station
- 4 city owned facilities
- 8 parks



17

The Power of Floodwater

18

- Videos taken by Scottsdale property owner and provided to City

Estimated Cost of Flood Damage

ESTIMATED COST OF FLOODING [4,000 sq.ft. HOUSE]

19

Flood Damage

Desert Mountain subdivision
$250k storm damage – Aug. 2014 storm

20

Flood Damage

Desert Mountain subdivision

21

Flood Damage

Sandflower subdivision

22

Q: *Approximately how much do property owners in Scottsdale pay annually for flood insurance premiums?*

Flooded pool area

23

Your poll will show here

1

Install the app from pollev.com/app

2

Make sure you are in Slide Show mode

Still not working? Get help at pollev.com/app/help

or

Open poll in your web browser

A: $ 4 Million

- The total annual premiums paid by Scottsdale policyholders: $4,047,883* annually
- The total coverage: $2.3 billion*
- 35% of these policies are for properties in the Reata Wash floodplain+
  - 3,052 policies, $1.8 million in premiums

*Data as of May 15, 2015 for 8,798 policies per FEMA records

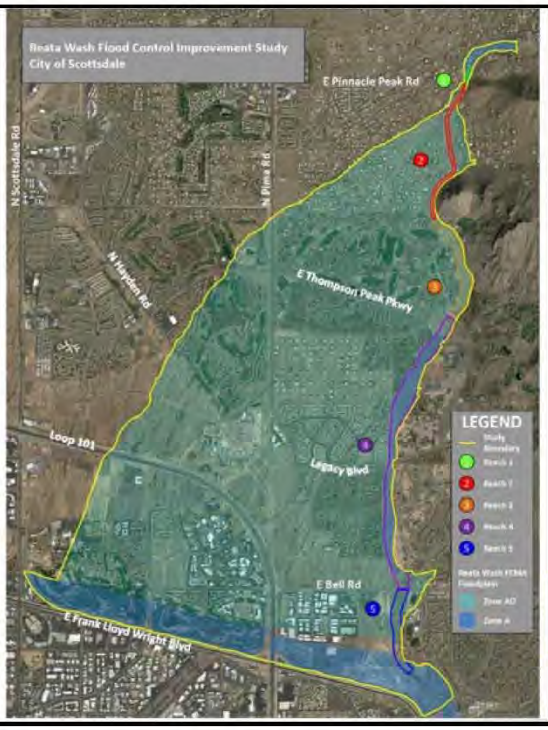
+ Source: Flood Control District of Maricopa County based on 2012 flood insurance data from FEMA

NATIONAL FLOOD INSURANCE PROGRAM

25

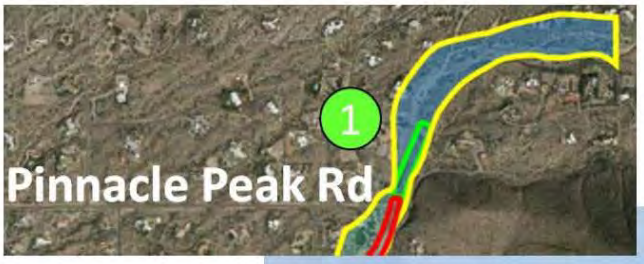
Study Corridor

- Need holistic solution for entire drainage corridor
- Has to connect to protect everyone



26

Reach 1



Pinnacle Peak Bridge

27

Reach 2

Foothills Drive Culvert

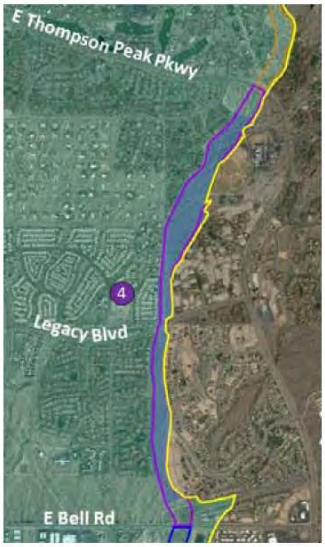
28

Reach 3

Thompson Peak Parkway bridge

29

Reach 4



Culvert

Bell Road Bridge

30

Reach 5

Dike 4 – East of WestWorld

Reach 11 Basin

31

Flood control can look like this

Buried bank protection
South of Thompson Peak Parkway – east bank

32

...and this

33

...and this

34

...and this

Thompson Peak Parkway bridge

35

Yes, and even this

DC Ranch Market Street

36

Q: ***How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?***

Property flooding, Sandflower subdivision

37

Your poll will show here

1

Install the app from pollev.com/app

2

Make sure you are in Slide Show mode

Still not working? Get help at pollev.com/app/help

or

Open poll in your web browser

Reata Wash Study - Next Steps

- Conduct technical and environmental analysis
- Develop alternatives within the corridor
- Input from community on alternatives
- Present alternatives to City Council for consideration and possible action
- If approved, funding would need to be identified for a project

Stormwater Damage
Desert Mountain Golf Course Clubhouse
Photo taken June 2015

39

Q: Text your questions or complete question card……

40

Reata Wash
Flood Control Study
Thank YOU!
• www.scottsdaleaz.gov
• Search "Reata"
• Phone: 480-312-7328
41

Reata Wash Flood Control Study
Phase 1 Public Meeting Summary

Overview

The first public meeting for the Reata Wash Flood Control Study was held on **March 2, 2016** from 5:30-7:30 p.m. at Copper Ridge School, 10101 E. Thompson Peak Pkwy., in Scottsdale.

The purpose of the meeting was to:

- Introduce the study purpose and need.
    - Explain the study is not a design project and construction funding is not authorized by Council.
- Provide information about flood risks and associated Federal Emergency Management Agency (FEMA) flood insurance requirements in the Reata Wash floodplain.
- Seek input on the community's level of concern about their flood risk and the importance of identifying options to reduce flood risks and reduce or remove associated flood insurance requirements to those in the Reata Wash floodplain.

A total of 91 community members signed in for the meeting.

Key Findings

Most attendees believed it is important for the City to develop potential options to reduce flood risk and remove FEMA flood insurance requirements. This information is based on responses received on both comment forms and an interactive poll conducted during the formal presentation.

- **The majority – 82% of comment form responses and 86% of interactive poll responses – indicated it is very or somewhat important to develop options to reduce flood risk.**
    - Only 16% of comment forms and 13% of interactive poll responses indicated it is unimportant or not important at all to identify options to reduce flood risk.
    - A few indicated they don't know the importance (8% of comment forms).
- Of those who said it's important to identify options to reduce flood risk, key reasons included protecting life and property, as well as reducing flood insurance costs to property owners in the floodplain.
- Of those who indicated it's not important to reduce flood risk, key reasons cited included the belief that the FEMA floodplain is inaccurately mapped and homes in the floodplain are elevated and not at risk of flooding. Other reasons were the perception that it is impossible to control the power of floodwater, a desire to not have concrete structures, and the belief that the desert should be left in its natural state.
- There was a small, vocal contingent of attendees who were concerned that this study will be similar to the Desert Greenbelt Flood Control Project proposed in the 1990s. Staff explained that the Desert Greenbelt Project was rejected by Council and included a major recreational component and covered a larger area than the current study. This study will look at context

sensitive solutions that blend with the natural environment as much as possible, and will not include a recreational or multi-use component.

- Some attendees complained about other participants who interrupted the presentation with questions and comments.
- Of those attendees who completed the meeting evaluation, most indicated they were very or extremely satisfied with the information they received (11 of 13 evaluations), as well as the knowledge, professionalism, and helpfulness of staff present (11 or 12 of 13 evaluations).

Staff in Attendance

The following study consultant team, City staff, and study partner staff were in attendance:

- Jon Ahern, JE Fuller
- Nerijus Baronas, City of Scottsdale
- Susan Bitter-Smith, Technical Solutions
- Jeremy Casteel, Logan Simpson Design
- Michael Clack, City of Scottsdale
- Ashley Couch, City of Scottsdale
- Ashley Dunn, GCI
- Randy Grant, City of Scottsdale
- Theresa Gunn, GCI
- Daina Mann, GCI
- Scott Mars, City of Scottsdale
- Ash Patel, Wood/Patel
- Theresa Pinto, Flood Control District of Maricopa County
- James Taillon, Wood/Patel
- Greg Toth, City of Scottsdale
- Erin Walsh, City of Scottsdale
- Darrel Wood, Wood/Patel
- Dan Worth, City of Scottsdale

Meeting Notification

The following methods were used to notify community members about the meeting.

- Meeting invitation postcards were mailed to 8,412 households in the study area, as well as those living immediately adjacent to the study area. The postmark date was April 27, 2016.
- A notice was posted on the City of Scottsdale's website (on the home page and on the Reata Wash Study page).
- Notices were e-mailed to homeowners' associations within the study area and association managers were asked to distribute the information to residents through their regular communications channels.

Format

Attendees signed in and were provided with a comment form, question card, study fact sheet, and instructions on how to participate with their cellular phones during the interactive exercise conducted during the formal presentation. The meeting was conducted in an open house format from 5:30-7:30 p.m. with a formal presentation at 6 p.m.

During the open house portion of the meeting, attendees could visit study display boards and maps and speak with study staff members. The following exhibit boards were displayed:

- Study area map with floodplain delineated
- Reata Wash existing drainage and flood control structures
- September 8, 2014 storm event rainfall levels
- Study area aerial from 1962 with alluvial fan diagram to illustrate alluvial fan

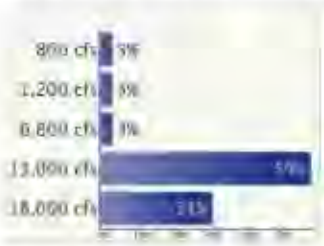
- Land ownership map of the study area for community members to indicate any flooding experienced

The meeting presentation provided information about the study purpose and need, flooding risks in the study area, examples of flooding experienced by residents in other north Scottsdale communities, next steps in the study process, and how the community will be involved. An interactive exercise was conducted during the presentation to engage the audience in understanding the potential flood risks in the Reata Wash floodplain, and explained the importance of studying options to reduce flood risk and reduce or remove flood insurance requirements for property owners. A total of 38 attendees participated in the interactive polling. Due to rounding, some totals do not appear to equal 100%. The following are the results of the polling exercises:

What is a 100-year flood?

Answers	Percentage
1% chance to occur in any year	21%
Can have more than one in a single year	7%
Determined by NOAA using historical data	11%
4-5" of rain in 24 hours	7%
All of the above	54%

How much water is expected to flow at the top of Reata Wash during a 100-year flood?

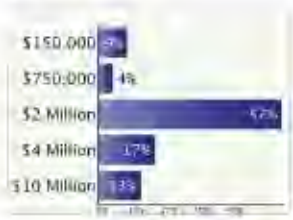


Answers	Percentage
800 cfs	3%
1,200 cfs	3%
6,800 cfs	3%
13,000 cfs	59%
18,000 cfs	31%

Approximately how many buildings do you think are in the floodplain?

Answers	Percentage
750	3%
2800	0%
4600	48%
8300	19%
10,000	29%

Approximately how much do property owners in Scottsdale pay annually for flood insurance premiums?



Answers	Percentage
$150,000	9%
$750,000	4%
$2 Million	57%
$4 Million	17%
$10 Million	13%

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

Answers	Percentage
Very Important	73%
Somewhat Important	13%
Not Important	0%
Very Unimportant	13%
Don't Know	0%

A question and answer period was conducted after the presentation using question cards provided by audience members.

Questions/Comments Received

City staff and study team members responded to the following questions during the presentation and the Q&A session.

The following questions and comments were asked during the presentation:

- Of course preventing flooding is important. But the presentation also referenced removing flood insurance requirements. Do we know for sure what we might propose will eliminate that requirement and what will that cost?
- Has anyone looked at the previous Desert Greenbelt study done from 1996-1998?
- The only reason why it's being done again is because if you reduce the floodplain then flood insurance won't be required.
- When will the study be complete?
- There was a previous study by TY Lin. That modeling showed 1,400 homes at risk. In the current study there are 3,200 homes at risk. Why the difference?
- Why do we need to be doing anything in Reach 2? We have not experienced any flooding.

The following questions and comments were received on question cards and appear verbatim:

- There are over 1,000 structures not identified on the list of 4,000 structures – what are these?
- When was the Pinnacle Peak Bridge built? Does the bridge meet current codes?
- How was the 13,000 cfm determined?
- How will you protect the wildlife and preserve the beauty of the Reata Wash?
- How to you protect my property value if you make the wash concrete and not accessible for horse trails, etc.? What about increase in foot traffic from my property.
- Who will pay for this? More taxes? No guarantee for no flood insurance.
- Are there any guarantees that there would be no flood insurance? What would you have to do to get the floodplain removed?
- Please comment on the prior Army Corps. Of Engineers study of this question done in 1998.
- What two hospitals are located within the floodplain? (question asked twice)
- How precise are the floodplain corridor boundaries?
- Is the alluvial fan for Reata Wash a greater risk than the risk from Rawhide Wash? Grayhawk homes reside in both wash areas. Or are the risks from both the same?

- Will this project be put up a vote to the tax payers?
- Where have we had an alluvial fan in this area? What determines that we are in a floodplain?
- Why build in a floodplain?
- What is a flood event?
- Have you provided solutions elsewhere and if so what did you do?
- Will you recommend that the City stop zoning for higher densities which contributes to flooding?
- Will you perform a rigorous cost analysis? What is the procedure you will follow?
- Tonight the City and the consultants did everything they could to scare people. Is it to make sure the study will continue?
- Your photos of flood damage were all from Desert Mountain subdivision. That is not in the Reata Pass Wash floodplain, correct?
- Can we learn about the flooding danger to specific neighborhoods/housing developments within the Reata study? Ironwood Village has washes around the perimeter and within our neighborhood. Are those areas adequately protected?
- What are the parameters to make an area compliant? How deep does the wash have to be for compliancy for FEMA?
- How often does FEMA change their compliance requirements?

Comment Forms

A total of 15 comment forms were returned. Two verbal comments were also recorded on comment forms by those who chose not to complete a form. Comments appear verbatim where applicable.

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- Very Important: 9
- Somewhat Important: 1
- Unimportant: 1
- Not important At All: 0
- Don't Know: 1
- Did Not Respond: 3

Why is it important to develop potential alternatives?

Reduce Flooding Risk

- Keeping the people and the buildings in this area safe is critical. Please don't only go along with the residents, as many don't understand the risks involved.
- Because we need to protect our home and family.
- To safeguard our homes.

Reduce Costs of Flood Insurance and Damage

- To remove FEMA requirement for insurance (to ensure FEMA approve any work).
- Benefits of flood control saving money on insurance and damage costs could far exceed costs to control water.
- Reducing flood risk as defined by FEMA is a valuable objective. Reducing the potential expenses of post flood restoration is also an excellent reason to pursue this study.
- FEMA flood insurance is a wasted expense. If you can construct structures that will eliminate AO designation from Reata Wash, I would support a bond issue for this area if the cost is less than the flood insurance premium I pay.

- Flood insurance is outrageously expensive and offers very poor coverage. The area I live in already has drainage washes and anti-flooding provisions, but we get no relief from FEMA's usury and blackmail.

Not Important to Reduce Risk

- We do not know how many structures are affected—being in the floodplain does not mean that the structure is at risk—it may be built at a higher elevation than the flood water.
- Impossible to control Mother Nature's power with water. We've lived here for 25 years and know this power. Advice—don't try building a dam or thinking you could build a structure big enough to hold water no matter the storm's rainfall. Can't be built and shouldn't ever be tried! Leave desert alone to handle her own water.
- The presentation, particularly the facilitation, were very patronizing. If the purpose was to get all questions to be answered at the next meeting it would have been helpful for her to listen to the questions. Videos and pictures of flooding and damage not in the Reata Wash are intended only to cause fear and are otherwise useless!

Meeting Evaluation

A total of 13 meeting evaluations forms were returned. Not all respondents answered all questions. Comments appear verbatim where applicable.

	Not at All	Slightly	Moderately	Very	Extremely
1. How satisfied were you with the **information** you received?	0	2	0	7	4
2. How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	0	1	0	8	4
3. How satisfied were you with the **professionalism** of the staff members?	0	0	2	6	5
4. How satisfied were you with the **helpfulness** of the staff members?	0	1	0	7	4

Comments

- After 30 years of participating on both sides of public meetings, this was among the most poorly designed and delivered public meetings I've seen. Staff was poorly prepared, overly simplistic and in cases inaccurate. Questions they should have known the answer to they did not. The material in the slides was misleading. Questions and concerns of the audience were not anticipated or rehearsed. It may be a useful study but as presented it comes across as a railroad job. A sophisticated audience caught that and reacted. A blown opportunity.
- Excellent signage and presentation and handout info. Dealt with hostility very professionally. Impressive professionals and so many of you! Congrats!
- Felt facilitator dumber it down and was repetitive; room full of college educated people; didn't need facilitator.

- Handled very well.
- I apologize for leaving early, but I feel the audience seemed hostile and disruptive, if not rude. My presence is to not waste my time on such foolishness. My apologies to the City and its consultants for the community behavior.
- I don't think I've ever been to something like this where there were so many professionals present to answer questions. You guys did an awesome job.
- Our audience was impatient and rude. Sorry for that but people react negatively if think they're threatened and/or their homes are in danger.
- People were annoying.
- The audience participation format was a waste of time. I would have rather appreciated a presentation with questions afterward, without the extra time for participation slides.
- The interactive portion was a waste of time. The audience is more intelligent than the facilitator assumed!

How did you learn about this meeting?

- Mailer: 8
- HOA: 2
- Friend/Neighbor: 2
- Signage/Other: 1 (Coalition of Greater Scottsdale)
- Newspaper: 0

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
Copper Ridge School

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- ☐ Very Important
- ☐ Somewhat Important
- ☐ Unimportant
- ☐ Not important At All
- ☐ Don't Know

Why?

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	○	○
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	○	○	○	○
3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	○	○
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	○	○

5. General Comments:

Verbal Comment:
Felt facilitator dumbed it down & was repetative – room full of mostly college graduates – didn't need facilitator

6. How did you learn about this meeting?

☐ Newspaper
☐ Mailer
☐ HOA
☐ Friend/Neighbor
☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

PUBLIC MEETING

March 2, 2016
Copper Ridge School

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- ☒ Very Important
- ☐ Somewhat Important
- ☐ Unimportant
- ☐ Not important At All
- ☐ Don't Know

Why?

Keeping the people + the buildings in this area safe is critical.

Please don't only go along with the residents, as many don't understand the risks involved.

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	◉	○
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	○	○	◉	○
3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	◉	○
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	◉	○

5. General Comments:

The audience participation format was a waste of time. I would have rather appreciated a presentation with questions afterward, without the extra time for participation slides.

6. How did you learn about this meeting?

- ☐ Newspaper
- ☒ Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
Copper Ridge School

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- [x] Very Important
- [ ] Somewhat Important
- [ ] Unimportant
- [ ] Not important At All
- [ ] Don't Know

Why?

Because we need to protect our home + FAMILY

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	⊘	○
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	○	○	⊘	○
3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	○	⊘
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	○	⊘

5. General Comments:

People were Annoying

6. How did you learn about this meeting?

- ☐ Newspaper
- ☒ Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
Copper Ridge School

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- ☐ Very Important
- ☑ Somewhat Important
- ☐ Unimportant
- ☐ Not important At All
- ☐ Don't Know

Why?

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	○	✓
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	○	○	○	✓
3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	○	✓
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	○	✓

5. General Comments:

6. How did you learn about this meeting?

- ☐ Newspaper
- ☐ Mailer
- ☐ HOA
- ☑ Friend/Neighbor
- ☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
Copper Ridge School

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- [x] Very Important
- [ ] Somewhat Important
- [ ] Unimportant
- [ ] Not important At All
- [ ] Don't Know

Why?

Benefits of flood control saving $ on insurance + damage costs could far exceed costs to control water

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	●	○
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	○	○	○	●
3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	○	●
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	●	○

5. General Comments:

6. How did you learn about this meeting?

- ☐ Newspaper
- ☒ Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
Copper Ridge School

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- [x] Very Important
- [ ] Somewhat Important
- [ ] Unimportant
- [ ] Not important At All
- [ ] Don't Know

Why?

FLOOD INSURANCE IS OUTRAGEOUSLY EXPENSIVE AND OFFERS VERY POOR COVERAGE. THE AREA I LIVE IN ALREADY HAS DRAINAGE WASHES AND ANTI-FLOODING PROVISIONS, BUT WE GET NO RELIEF FROM FEMA'S USURY + BLACKMAIL.

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	●	○
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	○	○	●	○
3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	●	○
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	●	○

5. General Comments:

6. How did you learn about this meeting?

☐ Newspaper
☒ Mailer
☐ HOA
☐ Friend/Neighbor
☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

PUBLIC MEETING

March 2, 2016
Copper Ridge School

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- ☒ Very Important
- ☐ Somewhat Important
- ☐ Unimportant
- ☐ Not important At All
- ☐ Don't Know

Why?

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	○	◉
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	○	○	◉	○
3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	◉	○
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	◉	○

5. General Comments:

6. How did you learn about this meeting?

☐ Newspaper
☐ Mailer
☒ HOA
☐ Friend/Neighbor
☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
Copper Ridge School

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- ☐ Very Important
- ☐ Somewhat Important
- ☒ Unimportant
- ☐ Not important At All
- ☐ Don't Know

Why?

Impossible to control mother nature's power w/ water. We've lived here for 25 years & know this power.

Advice – don't try building a dam or thinking you could build a structure big enough to hold water no matter the storm's rainfall. Can't be built, shouldn't ever be tried! Leave desert alone to handle her own water.

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	⊘	○	○	○
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	⊘	○	○	○
3.	How satisfied were you with the **professionalism** of the staff members?	○	○	⊘	○	○
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	⊘	○	○

5. General Comments:

Our audience was impatient & rude. Sorry for that, but people react negatively if they think they're threatened and/or their homes are in danger.

6. How did you learn about this meeting?

- ☐ Newspaper
- ☐ Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☑ Signage/Other COGS

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
Copper Ridge School

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- ☐ Very Important
- ☐ Somewhat Important
- ☐ Unimportant
- ☐ Not important At All
- ☐ Don't Know

Why?

THE PRESENTATION, PARTICULARLY THE FACILITATOR, WERE VERY PATRONIZING.

IF THE PURPOSE WAS TO GET ALL QUESTIONS TO BE ANSWERED AT THE NEXT MEETING IT WOULD HAVE BEEN HELPFUL FOR HER TO LISTEN TO THE QUESTIONS.

VIDEOS AND PICTURES OF FLOODING AND DAMAGE NOT IN THE REATA WASH ARE INTENDED ONLY TO CAUSE FEAR AND ARE OTHERWISE USELESS.

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	○	○
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	○	○	○	○
3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	○	○
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	○	○

5. General Comments:

6. How did you learn about this meeting?

- ☐ Newspaper
- ☐ Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
Copper Ridge School

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- ☐ Very Important
- ☐ Somewhat Important
- ☐ Unimportant
- ☐ Not important At All
- ☐ Don't Know

Why? COMMENTS

After 30 years of participating on both sides of public meetings, this was the among poorly designed and delivered public meetings I've seen. Staff was poorly prepared, overly simplistic and in cases inaccurate. Questions they should have known the answer to they did not. The material in the slides was misleading. Questions & concerns of the audience were not anticipated or addressed.

It may be a useful study but as presented it came across as a RAILROAD JOB. A sophisticated audience caught that and reacted. A blown opportunity

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	⊗	○	○	○
2.	How satisfied were you with the **knowledge** of the staff members on the topic of the meeting?	○	⊗	○	○	○
3.	How satisfied were you with the **professionalism** of the staff members?	○	⊗	○	○	○
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	⊗	○

5. General Comments:

6. How did you learn about this meeting?

- ☐ Newspaper
- ☒ Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☐ Signage/Other

[redacted]

PUBLIC MEETING

March 2, 2016
Copper Ridge School

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Why?

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	○	◉
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4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	○	◉

5. General Comments:

- Excellent Signage and Presentation and handout info.
- Dealt with hostility very professionally
- Impressive professionals and So many of You!

Congrats!

6. How did you learn about this meeting?

☐ Newspaper ☒ HOA ☐ Signage/Other
☐ Mailer ☐ Friend/Neighbor

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
Copper Ridge School

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4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	○	○

5. General Comments:

"I don't think I've ever been to something like this where there were so many professional present to answer questions. You guys did an awesome job"
— verbal comment made to Ashley from lady in teal shirt w/ glasses

She left comment form that said "Excellent signage... congrats!"

6. How did you learn about this meeting?

☐ Newspaper ☐ HOA ☐ Signage/Other
☐ Mailer ☐ Friend/Neighbor

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Reata Wash Flood Control Study

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- [ ] Not important At All
- [ ] Don't Know

Why?

Reducing flood risk as defined by FEMA is a valuable objective.
Reducing the potential expense of post flood restoration is also an excellent reason to pursue this study.

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	⊗	○
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4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	⊗	○

5. General Comments:

6. How did you learn about this meeting?

- ☐ Newspaper
- ☒ Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☐ Signage/Other

[redacted]

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- ☐ Somewhat Important
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- ☐ Not important At All
- ☐ Don't Know

Why?

2. To remove FEMA requirement for insurance (to ensure FEMA approve any work
1. To safeguard our homes!

(Continued on reverse)

		Not at All	Slightly	Moderately	Very	Extremely
1.	How satisfied were you with the **information** you received?	○	○	○	✓	○
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4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	✓	○

5. General Comments:

6. How did you learn about this meeting?

- ☐ Newspaper
- ☑ Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☐ Signage/Other

[redacted]

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Why?

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3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	○	⊗
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	○	⊗

5. General Comments:

Handled very well

6. How did you learn about this meeting?

☐ Newspaper
☒ Mailer
☐ HOA
☐ Friend/Neighbor
☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

Phone number: _____ E-mail: _____

Reata Wash Flood Control Study

PUBLIC MEETING

March 2, 2016
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- [x] Very Important
- [ ] Somewhat Important
- [ ] Unimportant
- [ ] Not important At All
- [ ] Don't Know

Why?

- FEMA Flood Insurance is a wasted expense.
- If you can construct structures that will eliminate AO DESIGNATION FROM REATA WASH, I WOULD SUPPORT A BOND ISSUE FOR THIS AREA IF THE COST IS LESS THAN THE FLOOD INSURANCE PREMIUM I PAY.

(Continued on reverse)

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3.	How satisfied were you with the **professionalism** of the staff members?	○	○	○	◉	○
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	○	◉	○

5. General Comments:

I APOLOGIZE FOR LEAVING EARLY, BUT I FEEL THE AUDIENCE SEEMED HOSTILE & DISRUPTIVE, IF NOT RUDE. MY PREFERENCE IS TO NOT WASTE MY TIME ON SUCH FOOLISHNESS.

MY APOLOGIES TO THE CITY AND ITS CONSULTANTS FOR THE COMMUNITY BEHAVIOR..

6. How did you learn about this meeting?

- ☐ Newspaper
- ☒ Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☐ Signage/Other

Optional – To be added to the study notification list:

Name: _____

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Address: _____

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Reata Wash Flood Control Study

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Why?

WE DO NOT KNOW HOW MANY STRUCTURES ARE AFFECTED - BEING IN THE FLOOD PLAIN DOES NOT MEAN THAT THE STRUCTURE IS AT RISK - IT MAY BE BUILT AT A HIGHER ELEVATION THAN THE WATER LEVEL -

(Continued on reverse)

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3.	How satisfied were you with the **professionalism** of the staff members?	○	○	●	○	○
4.	How satisfied were you with the **helpfulness** of the staff members?	○	○	●	○	○

5. General Comments:

THE INTERACTIVE PORTION WAS A WASTE OF TIME. THE AUDIENCE IS MORE INTELLIGENT THAN THE FACILITATOR ASSUMED!

6. How did you learn about this meeting?

☐ Newspaper
☐ Mailer
☐ HOA
☒ Friend/Neighbor
☐ Signage/Other

[redacted]

Reata Wash Flood Control Study Public Meeting

March 2, 2016, 5:30-7:30 p.m., Copper Ridge School Cafeteria, 10101 E. Thompson Peak Pkwy., Scottsdale

Please sign in to indicate you are attending today's meeting.

NAME	COMPANY/ORGANIZATION	ADDRESS	EMAIL	PHONE	ADD TO MAIL LIST
DORIS/JAMES WIGINGTON		[redacted]	[redacted]		X
Vince DeLuga					
MARCIA TAREN					
JON CHOATE					
Nick & Joanne Desien					X
Craig + Ginger Schmersal					X
JAMES Bzu					X
Mel Steele					
Judy Helms					
J.D. Helms					✓
DANNY ITUM					✓
HARLAN STRATTON					✓
Ken Gessler					
FRANCOIS-MARIA CASTAING					
MariLyn & Don Andrews					
Linda Peshkin					✓
Maurice Grunfeld					

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NAME	COMPANY/ORGANIZATION	ADDRESS	EMAIL	PHONE	ADD TO MAIL LIST
Margo Bullock	Grayhawk Tesoro at Grayhawk	[redacted]	[redacted]		✓
ANTHONY COATES	CASITAS @ IRONWOOD HOA PRE				✓
DIANA FRANKOWSKI	WINDGATE RANCH				✓
Vicki Casteel	Logan Simpson				✓
Jeremy Casteel	Logan Simpsn				—
Marlene Puhlmann					—
MICHAEL FISHER					
Yolanda Baker.					
MIKE PAKE					
Adolph Luso	MRC				
WALTER RIEGE					—
Nancy Vaughan					✓
STAN VAUGHAN					
BILL RAU					✓
GREG SORKNES					
Dale Robertson	windgate Ranch				✓
Gail Eilenbecker	Pima Acres				✓

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NAME	COMPANY/ORGANIZATION	ADDRESS	EMAIL	PHONE	ADD TO MAIL LIST
MARTHA TROY	GRAYHAWK	[redacted]			✓
Kelli Wright	DC Ranch				
Theresa Pinto	FCDMC				✓
ROGER MANN	GRAY HAWK				✓
DAVID + LEENIE EYGER	PIMA ACRES				✓
[illegible]	DCR				
Lolita Spiro	Canyon Heights				✓
Vim DAVIS	ESTANCIA				✓
Loreen Wood	Grayhawk				
[illegible]	Grayhawk				
[illegible]	DC Ranch				✓
DAVID NEWELL	PIMA ACRES				✓
GLENDA SAPEK					✓
JOHN HENRICKSON	DC RANCH				✓
LARRY LASPISA	Grayhawk Talon				
Jim Booth	Pima Acres				
Judy Hall	Columbia Comm.				✓

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Please sign in to indicate you are attending today's meeting.

NAME	COMPANY/ORGANIZATION	ADDRESS	EMAIL	PHONE	ADD TO MAIL LIST
Jeremy Mueller	State Farm	[redacted]	[redacted]	[redacted]	✓
Matt Halverson	"	[redacted]	[redacted]	[redacted]	✓
Laura + Mark Gilliland		[redacted]	[redacted]	[redacted]	✓
LESLIE BRUN	HOMEOWNER	[redacted]	[redacted]	[redacted]	✓
Kevin + Lathie Needham	Home Owner	[redacted]	[redacted]	[redacted]	✓
Allan + DIANA WINSTON	Home Own	[redacted]	[redacted]	[redacted]	
Leslie Jones	Homeowner / HOA President	[redacted]	[redacted]	[redacted]	
PAUL HARPER	HOMEOWNER	[redacted]	[redacted]	[redacted]	✓
Betty Janik	Homeowner	[redacted]	[redacted]	[redacted]	✓
Lorita A Winfield	Homeowner	[redacted]	[redacted]	[redacted]	
Linda Eberle	Homeowner	[redacted]	[redacted]	[redacted]	✓
Mark "	"	[redacted]	[redacted]	[redacted]	
Donita Beckham	homeowner	[redacted]	[redacted]	[redacted]	✓
Marc LatO		[redacted]	[redacted]	[redacted]	
Jeanette Griswold	Homeowner	[redacted]	[redacted]	[redacted]	
Felecu Clark	HOMEOWNER	[redacted]	[redacted]	[redacted]	
Linda Ambrose	Homeowner	[redacted]	[redacted]	[redacted]	✓

Reata Wash Flood Control Study Public Meeting

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Please sign in to indicate you are attending today's meeting.

NAME	COMPANY/ORGANIZATION	ADDRESS	EMAIL	PHONE	ADD TO MAIL LIST
Jack/Pat Thomas		[redacted]			yes
Ed MARKLOW					YES
Matthew Smiley					yes
Massud Rezakhani					1,
Arleen Rau					
RANDALL SMITH					YES
Dan Frigard					yes
Linda Frigard					yes
Constance Grunfeld					Yes
KATHLEEN WEBER					Yes
Dette Persm					
Mark Spiro					
RITA Frank Inguisi					yes
JAY BYRON					

Reata Wash Flood Control Study Public Meeting

March 2, 2016, 5:30-7:30 p.m., Copper Ridge School Cafeteria, 10101 E. Thompson Peak Pkwy., Scottsdale

Please sign in to indicate you are attending today's meeting.

NAME	COMPANY/ORGANIZATION	ADDRESS	EMAIL	PHONE	ADD TO MAIL LIST
Lynn Miller		[redacted]			✓

Reata Wash Flood Control Study
COMMUNITY MEETING

JOIN US FOR A COMMUNITY MEETING TO:

Review and seek public input on potential options to reduce the community's flood risk and remove or reduce the size of the current FEMA floodplain designation.

Wednesday, May 18, 2016
5:30 – 7:30 p.m., presentation at 6 p.m.
Copper Ridge School, Cafeteria
10101 E. Thompson Peak Pkwy., Scottsdale

MORE INFORMATION/EMAIL LIST

City of Scottsdale Stormwater Management
480.312.7328
www.scottsdaleaz.gov, Search "Reata" for more information or to sign up for the study email list to receive updates.

Reata Wash Flood Control Study

COMMUNITY MEETING

Wednesday, May 18, 2016

5:30 – 7:30 p.m., presentation at 6 p.m.

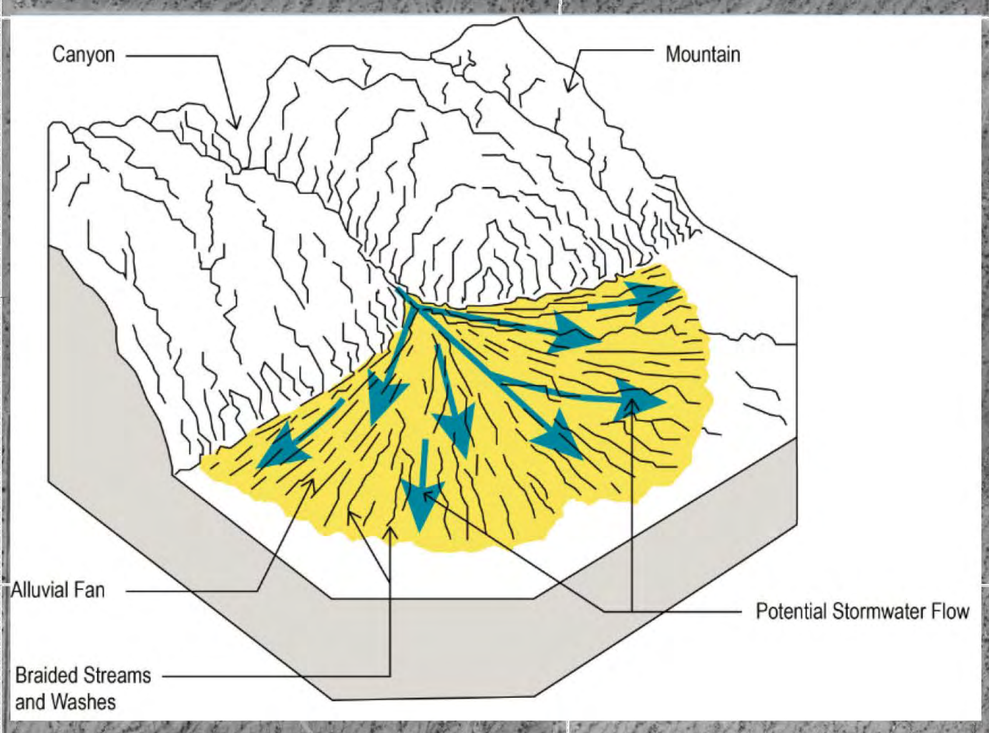
Copper Ridge School, Cafeteria

10101 E. Thompson Peak Pkwy., Scottsdale

Provide input on potential options to reduce the community's flood risk.

City of Scottsdale
Capital Project Management
7447 E. Indian School Road, Suite 205
Scottsdale, AZ 85251

Reata Wash Flood Control Improvement Study
City of Scottsdale 1962 Aerial



Pinnacle Peak Road Alignment

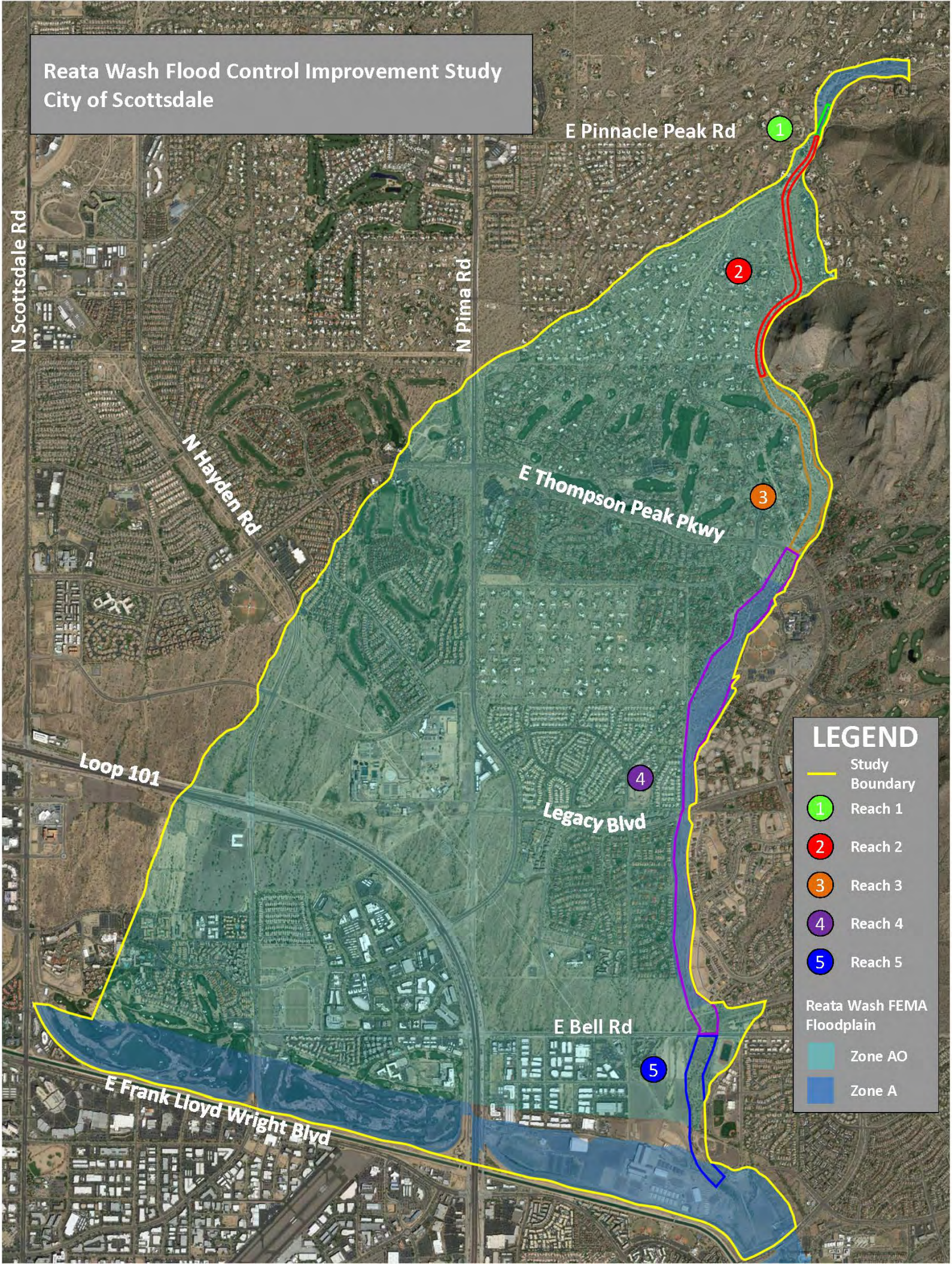
Pima Road Alignment

Scottsdale Road Alignment

Bell Road Alignment

Legend

- Reach 1
- Reach 2
- Reach 3
- Reach 4
- Reach 5
- Reata Wash Study Limits
- Township Range Section


Reata Wash Flood Control Improvement Study
City of Scottsdale
E Pinnacle Peak Rd
N Scottsdale Rd
N Pima Rd
N Hayden Rd
E Thompson Peak Pkwy
Loop 101
Legacy Blvd
E Bell Rd
E Frank Lloyd Wright Blvd
1
2
3
4
5
LEGEND
Study Boundary
Reach 1
Reach 2
Reach 3
Reach 4
Reach 5
Reata Wash FEMA Floodplain
Zone AO
Zone A

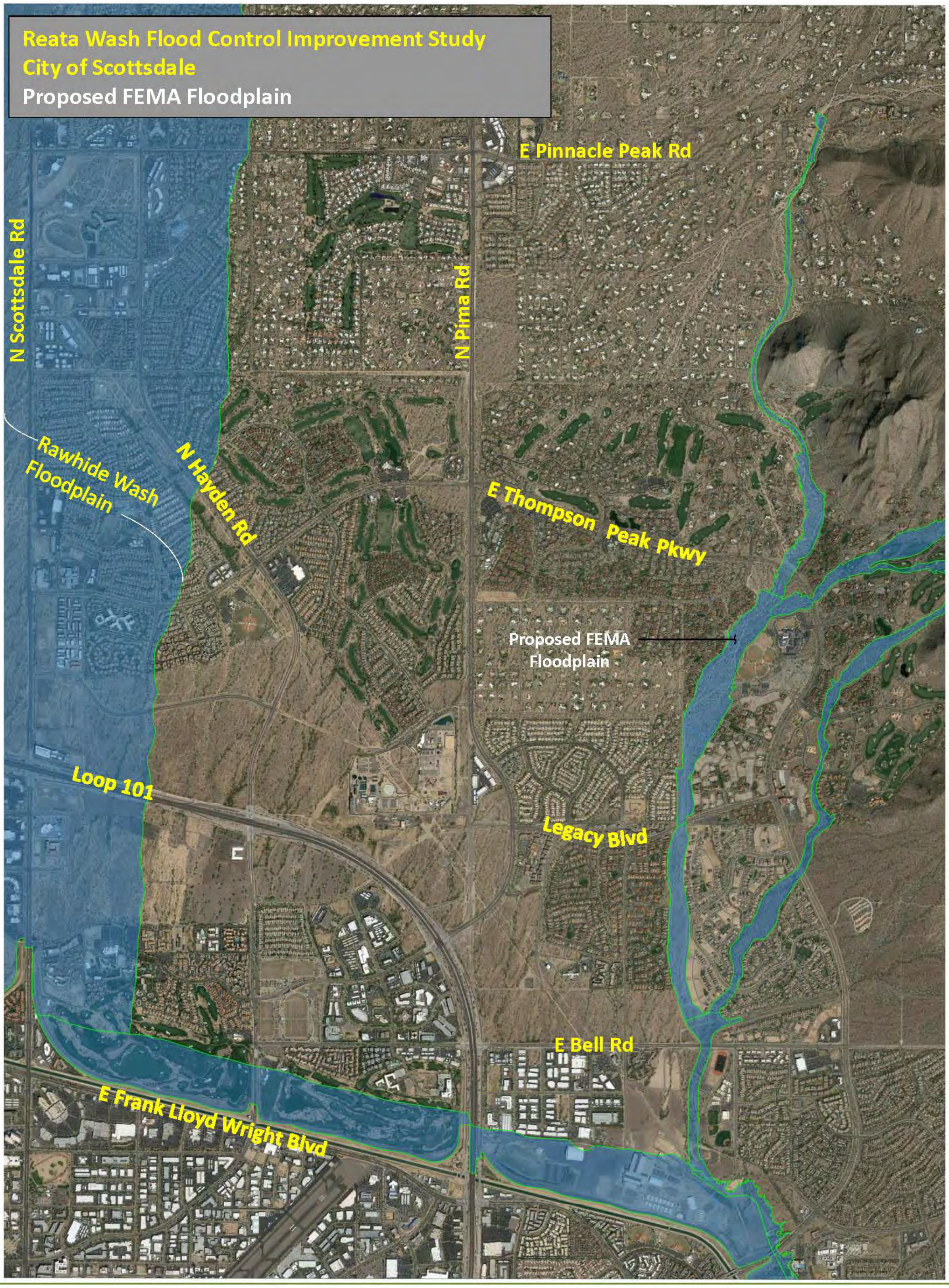
Reata Wash Flood Control Improvement Study
City of Scottsdale
Existing FEMA Floodplain and Proposed FEMA Floodplain after Flood Control Improvements

LEGEND

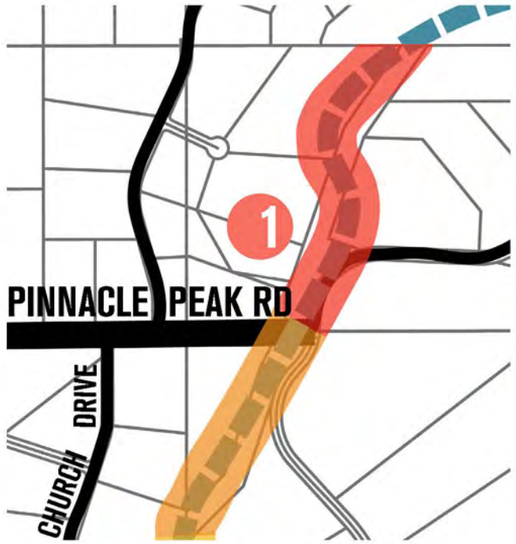
- Proposed Reata Wash FEMA Floodplain
- Existing FEMA Floodplain – Outside Study Boundary
- Existing FEMA Floodplain – Study Boundary

N Scottsdale Rd
N Pima Rd
E Pinnacle Peak Rd
E Thompson Peak Pkwy
N Hayden Rd
Loop 101
Legacy Blvd
E Bell Rd
E Frank Lloyd Wright Blvd
Proposed Reata Wash FEMA Floodplain
Beardsley Wash Floodplains
Rawhide Wash Floodplain

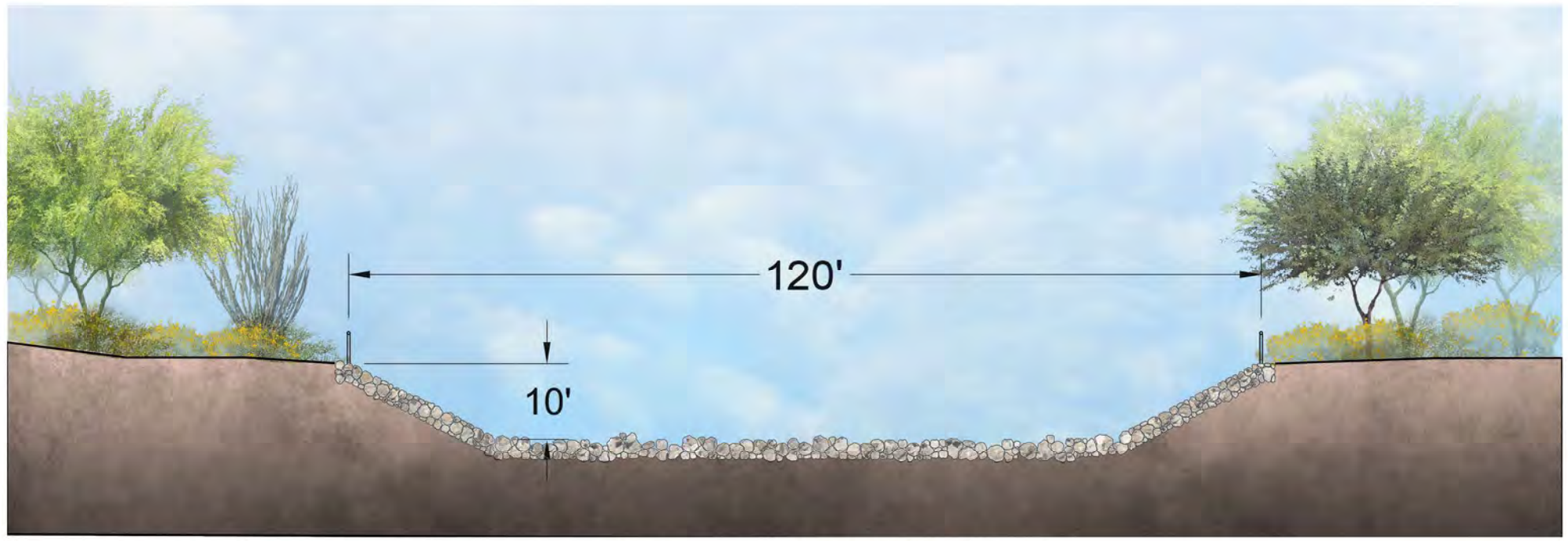
Reata Wash Flood Control Improvement Study
City of Scottsdale
Proposed FEMA Floodplain



REACH 1

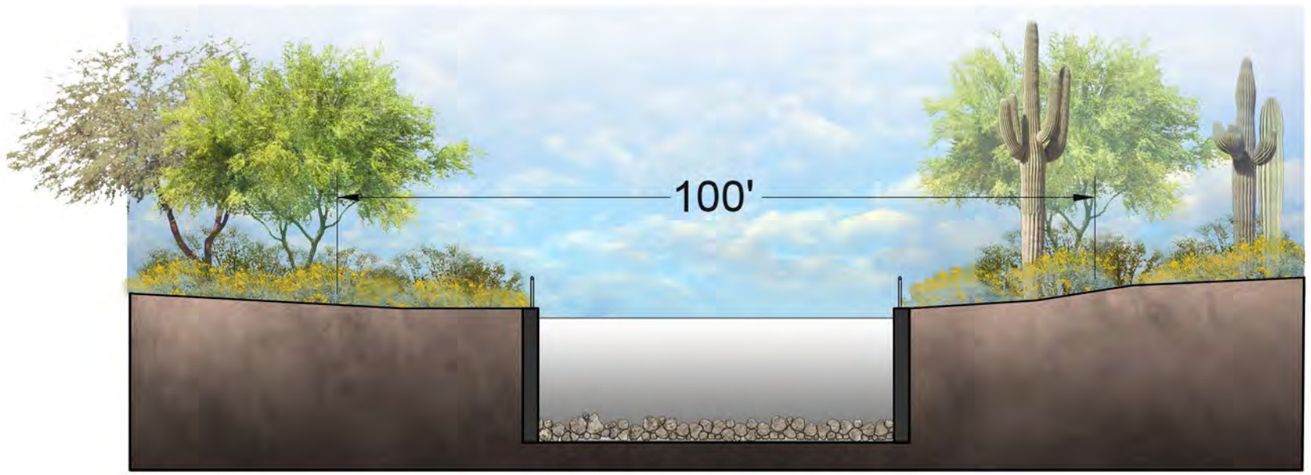


KEY MAP



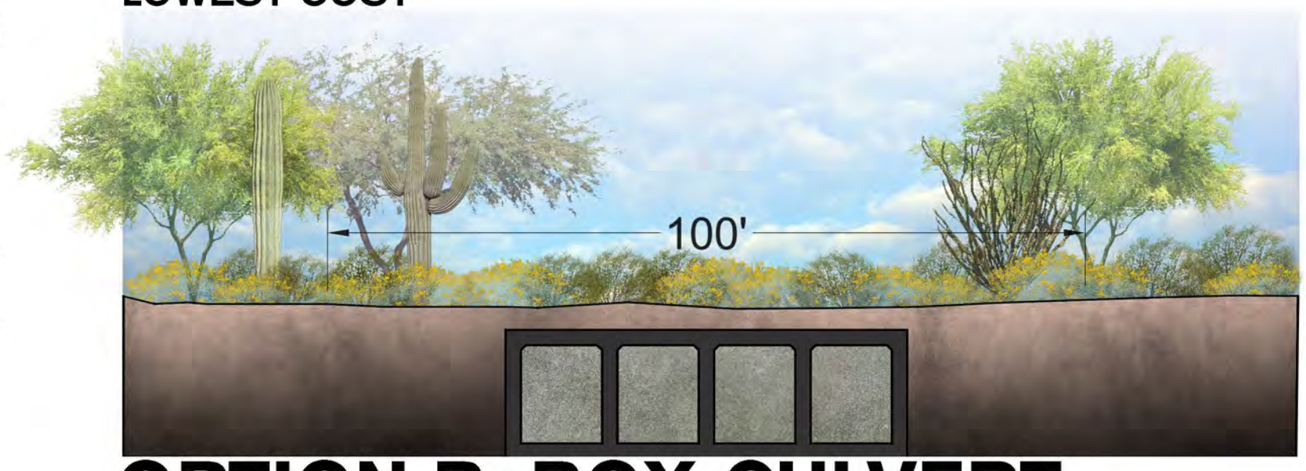
GROUTED ROCK CHANNEL

REACH 2 NORTH



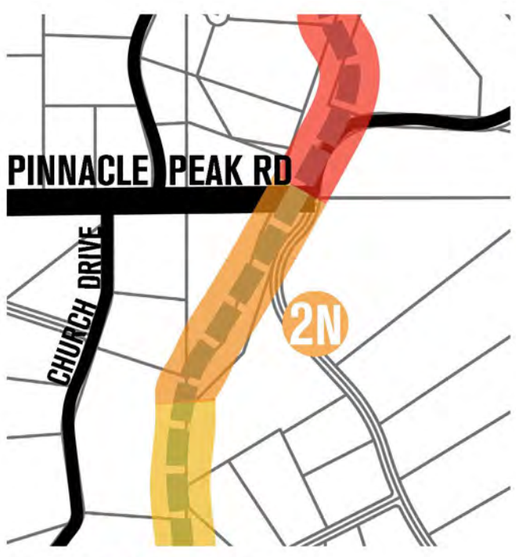
OPTION A: U-CHANNEL

LOWEST COST



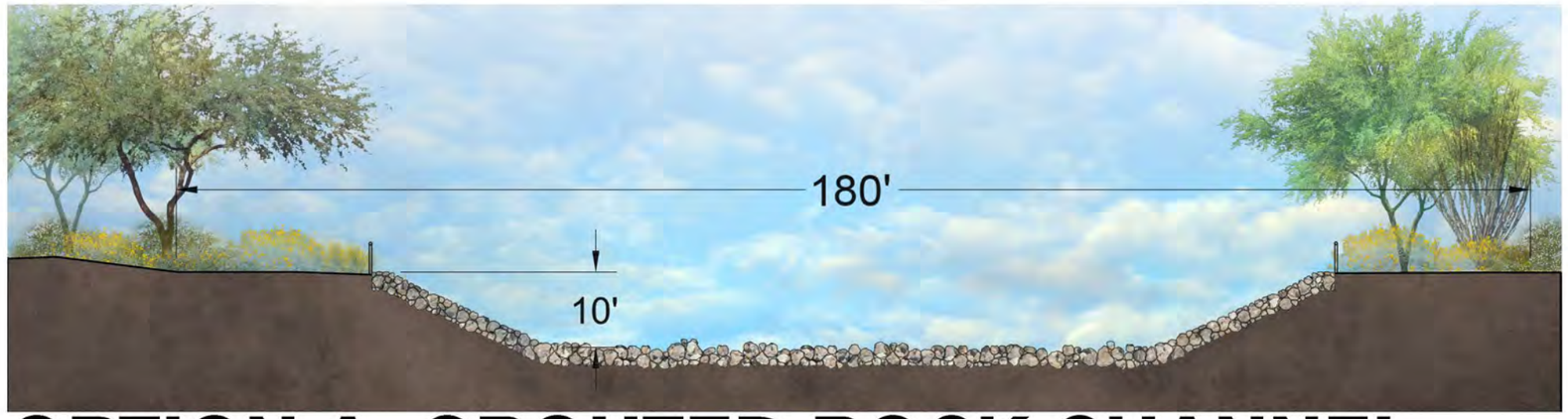
OPTION B: BOX CULVERT

1.5 X MORE $ THAN A



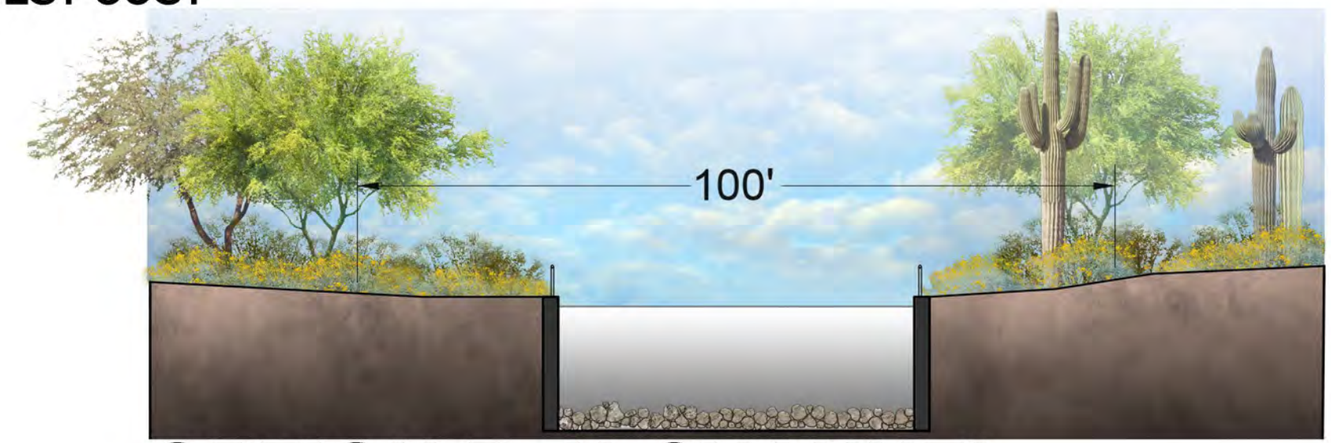
KEY MAP

REACH 2 SOUTH



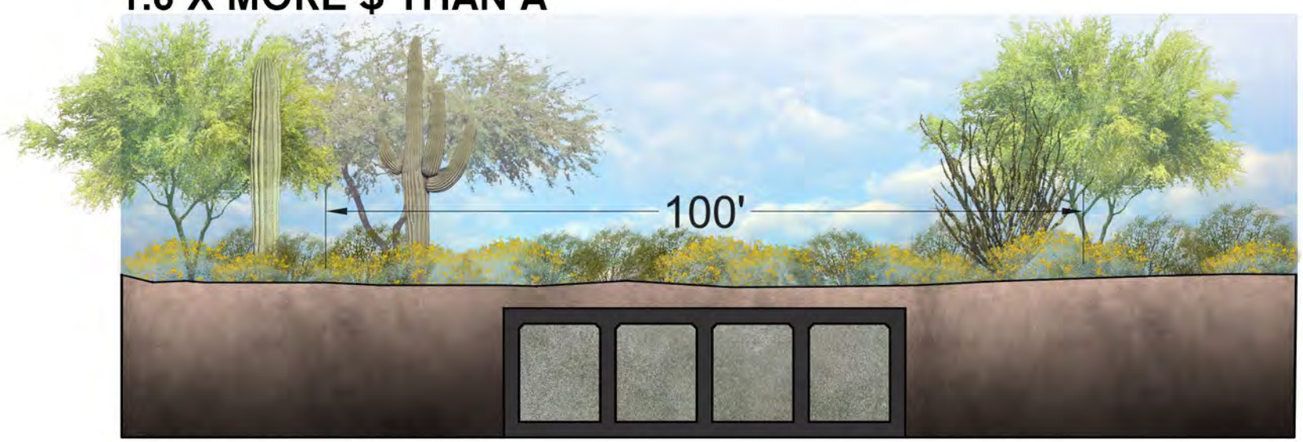
OPTION A: GROUTED ROCK CHANNEL

LOWEST COST



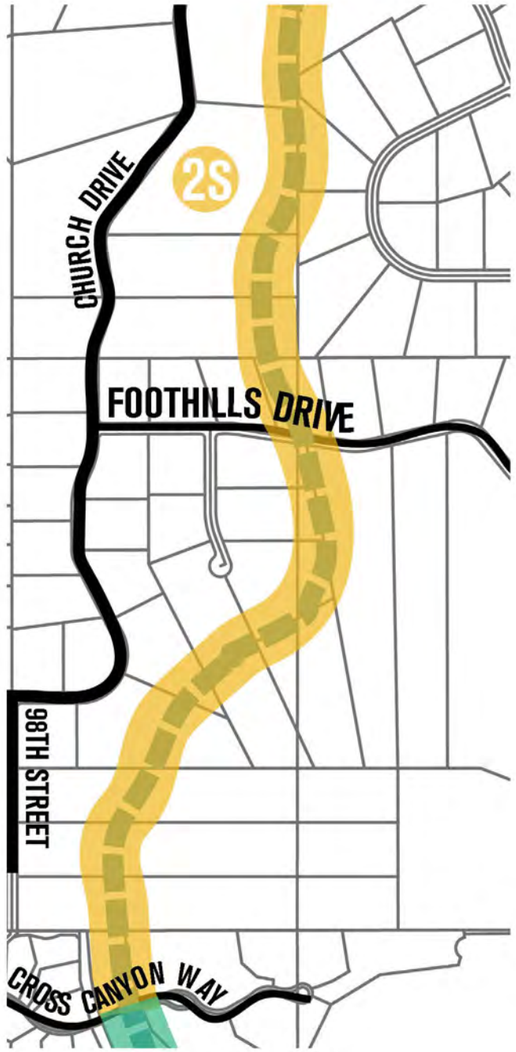
OPTION B: U-CHANNEL

1.6 X MORE $ THAN A



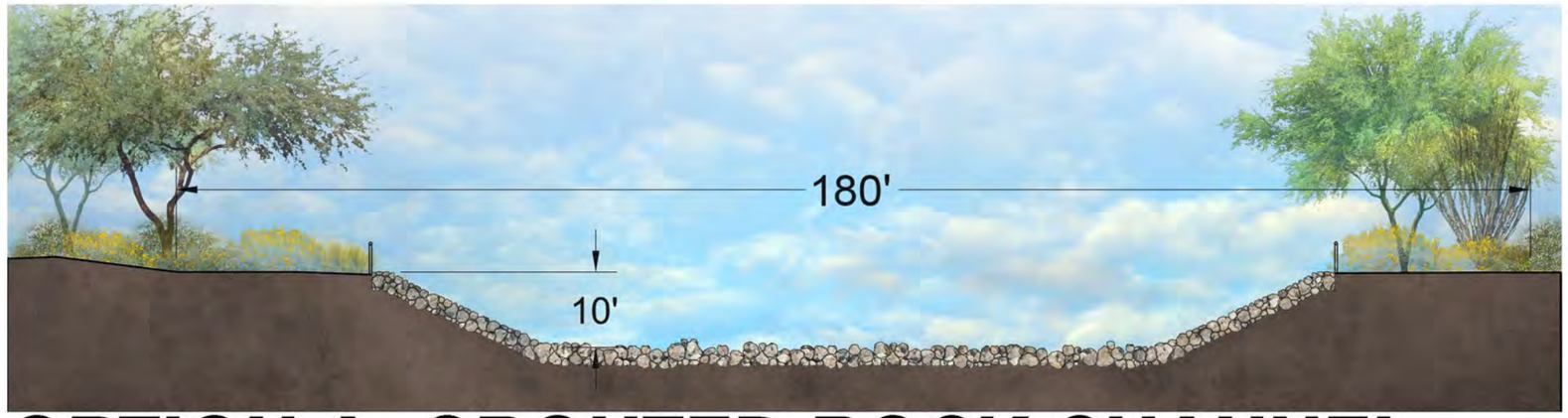
OPTION C: BOX CULVERT

2.3 X MORE $ THAN A

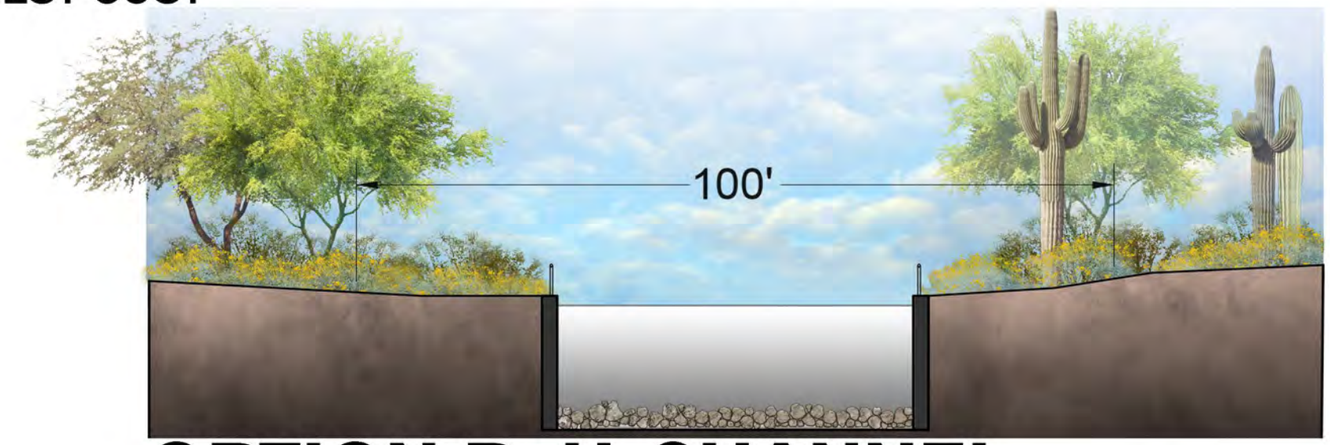


KEY MAP

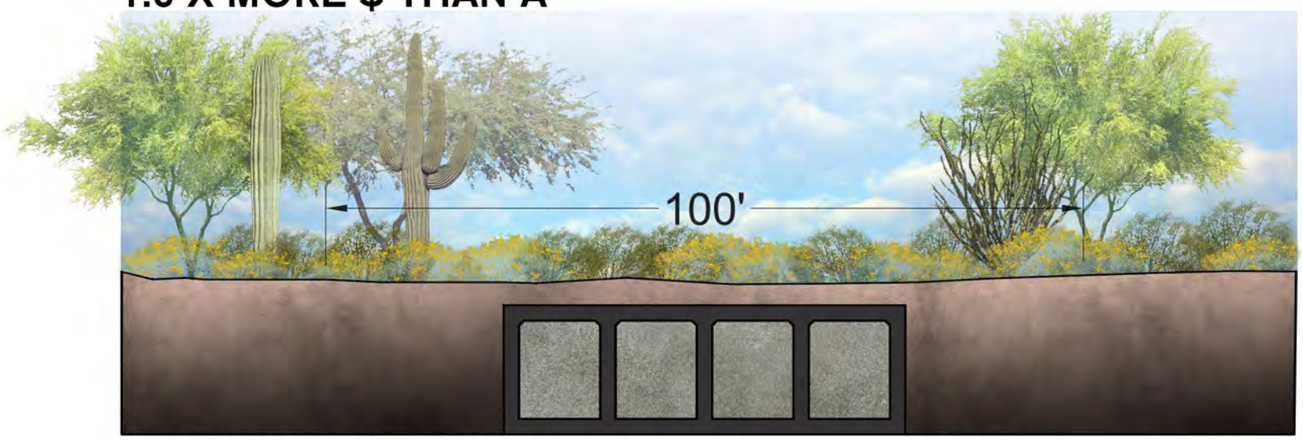
REACH 3 NORTH



OPTION A: GROUTED ROCK CHANNEL
LOWEST COST



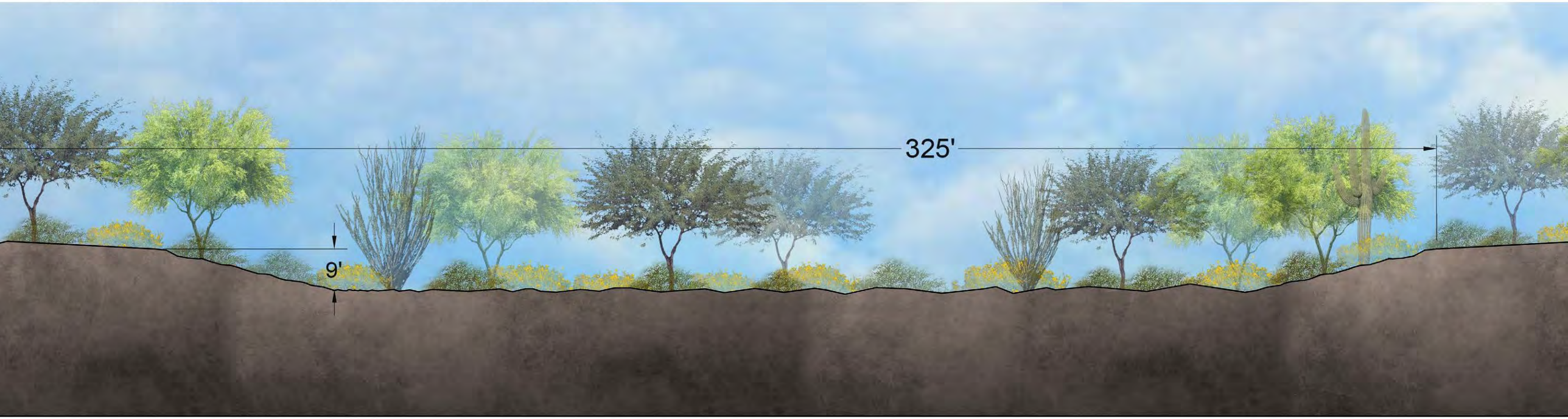
OPTION B: U-CHANNEL
1.6 X MORE $ THAN A



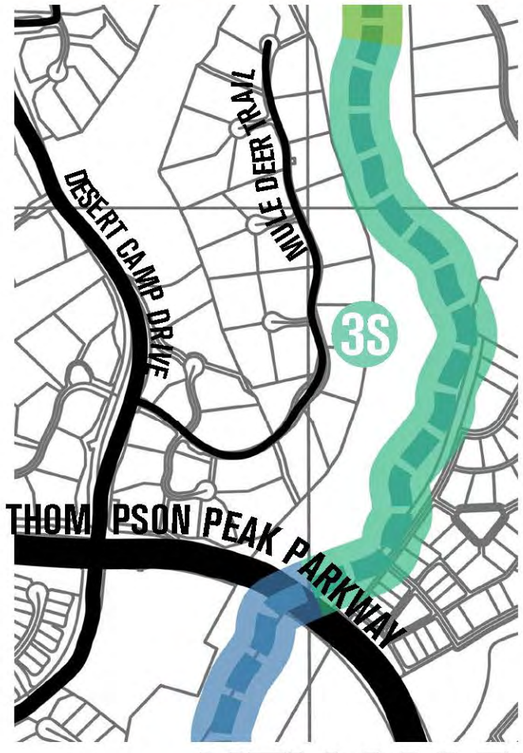
OPTION C: BOX CULVERT
2.3 X MORE $ THAN A

KEY MAP

REACH 3 SOUTH

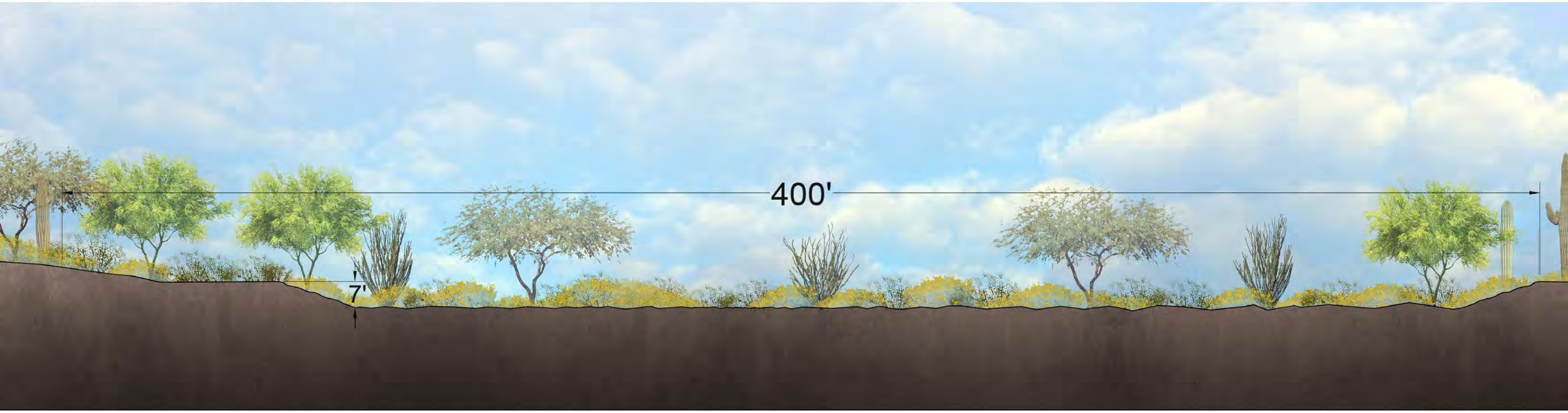


EXISTING EARTHEN CHANNEL



KEY MAP

REACH 4



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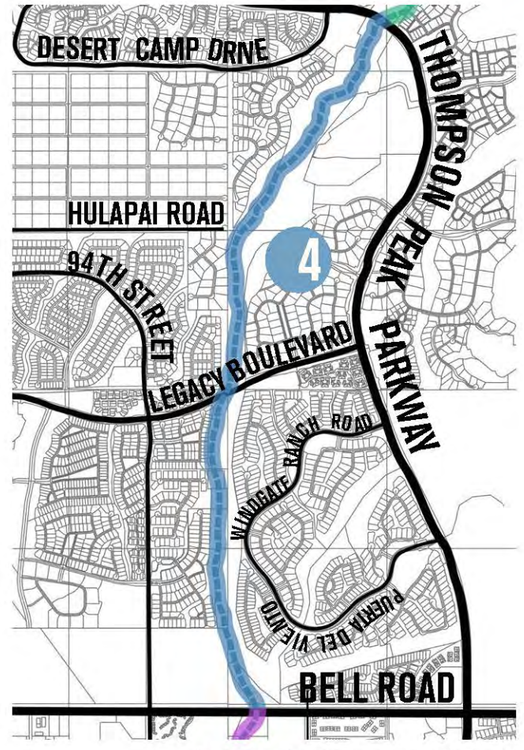
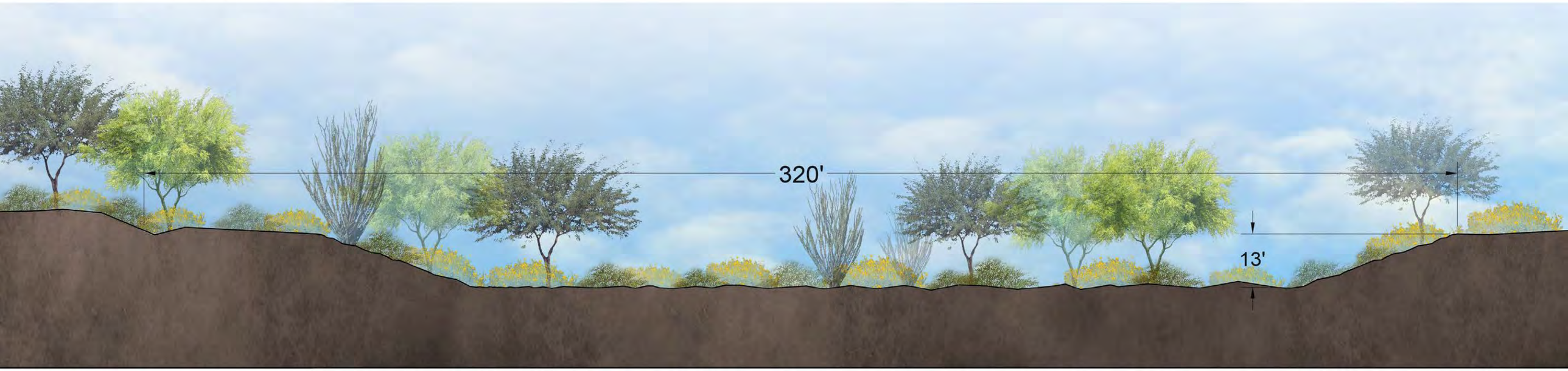
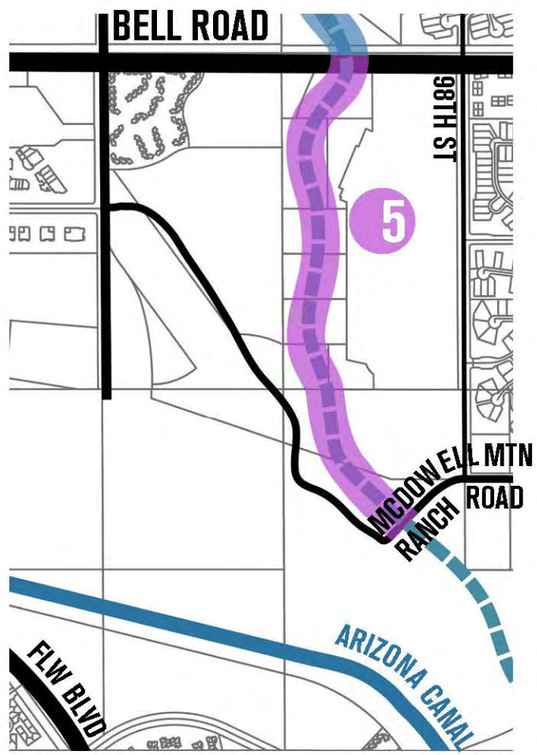


KEY MAP

REACH 5

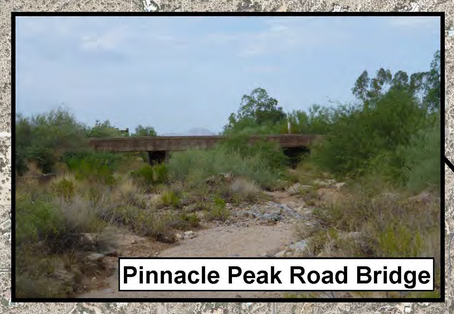


EARTHEN CHANNEL

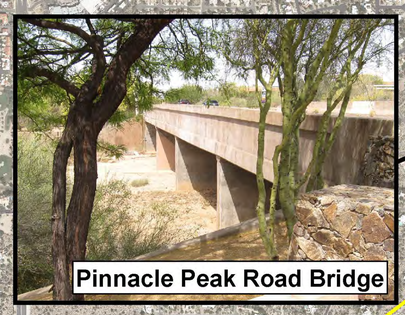


KEY MAP

Reata Wash Drainage and Flood Control Structures
City of Scottsdale


Pinnacle Peak Road Bridge

Pinnacle Peak Rd


Pinnacle Peak Road Bridge

Foothills Drive Culvert

Pima Rd

Hayden Rd

Thompson Peak Parkway Bridge

Thompson Peak Pkwy

Culvert

Buried Bank Protection

Scottsdale Rd

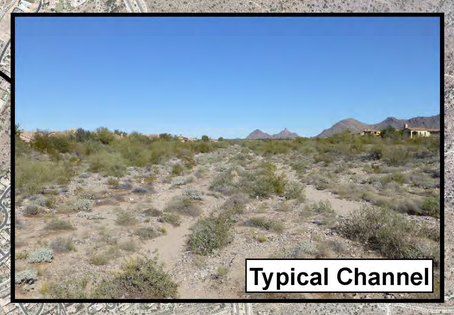
Loop 101

Culvert

Legacy Boulevard Bridge

Legacy Blvd

Bell Road Levee


Typical Channel

Bell Rd

Bell Road Bridge

Bell Road Bridge

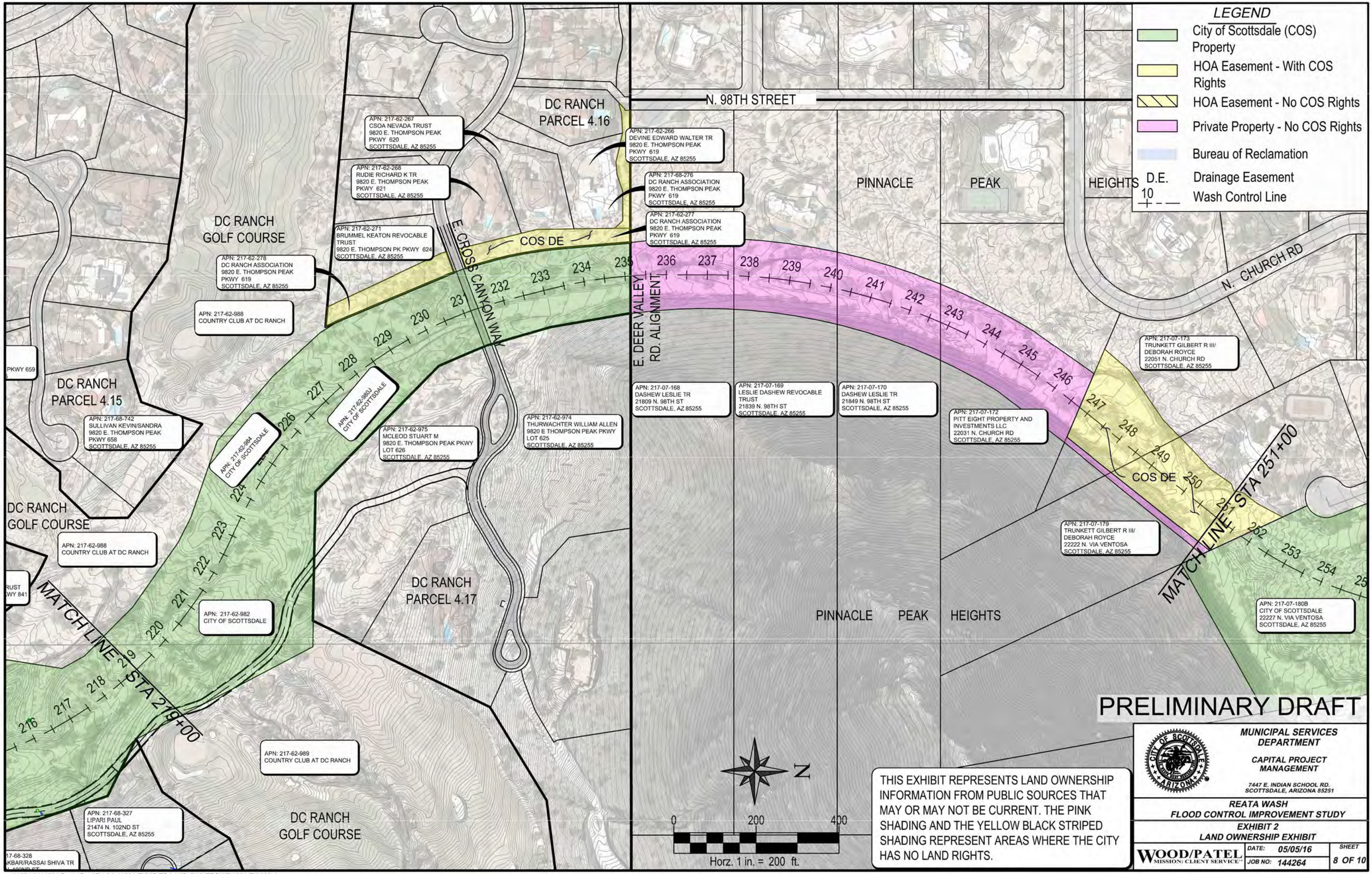
Frank Lloyde Wright Blvd

McDowell Mountain Ranch Road

Regional Retention Facility

Legend

- Reach 1
- Reach 2
- Reach 3
- Reach 4
- Reach 5
- Reata Wash Study Limits



PRELIMINARY DRAFT

THIS EXHIBIT REPRESENTS LAND OWNERSHIP INFORMATION FROM PUBLIC SOURCES THAT MAY OR MAY NOT BE CURRENT. THE PINK SHADING AND THE YELLOW BLACK STRIPED SHADING REPRESENT AREAS WHERE THE CITY HAS NO LAND RIGHTS.

CITY OF SCOTTSDALE ARIZONA

MUNICIPAL SERVICES DEPARTMENT

CAPITAL PROJECT MANAGEMENT

7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251

REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY

EXHIBIT 2
LAND OWNERSHIP EXHIBIT

WOOD/PATEL MISSION: CLIENT SERVICE

DATE: 05/05/16
JOB NO: 144264
SHEET 8 OF 10

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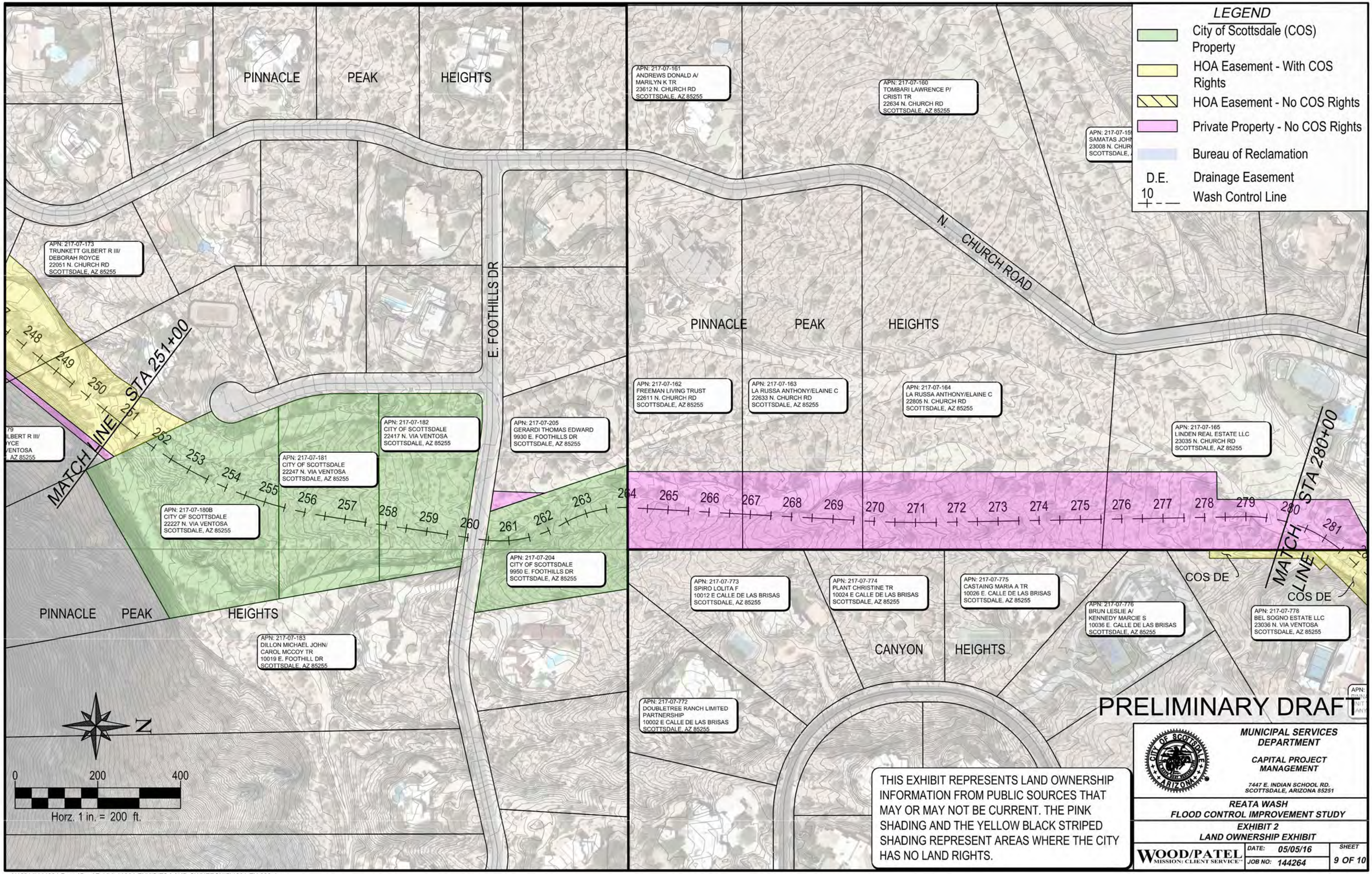

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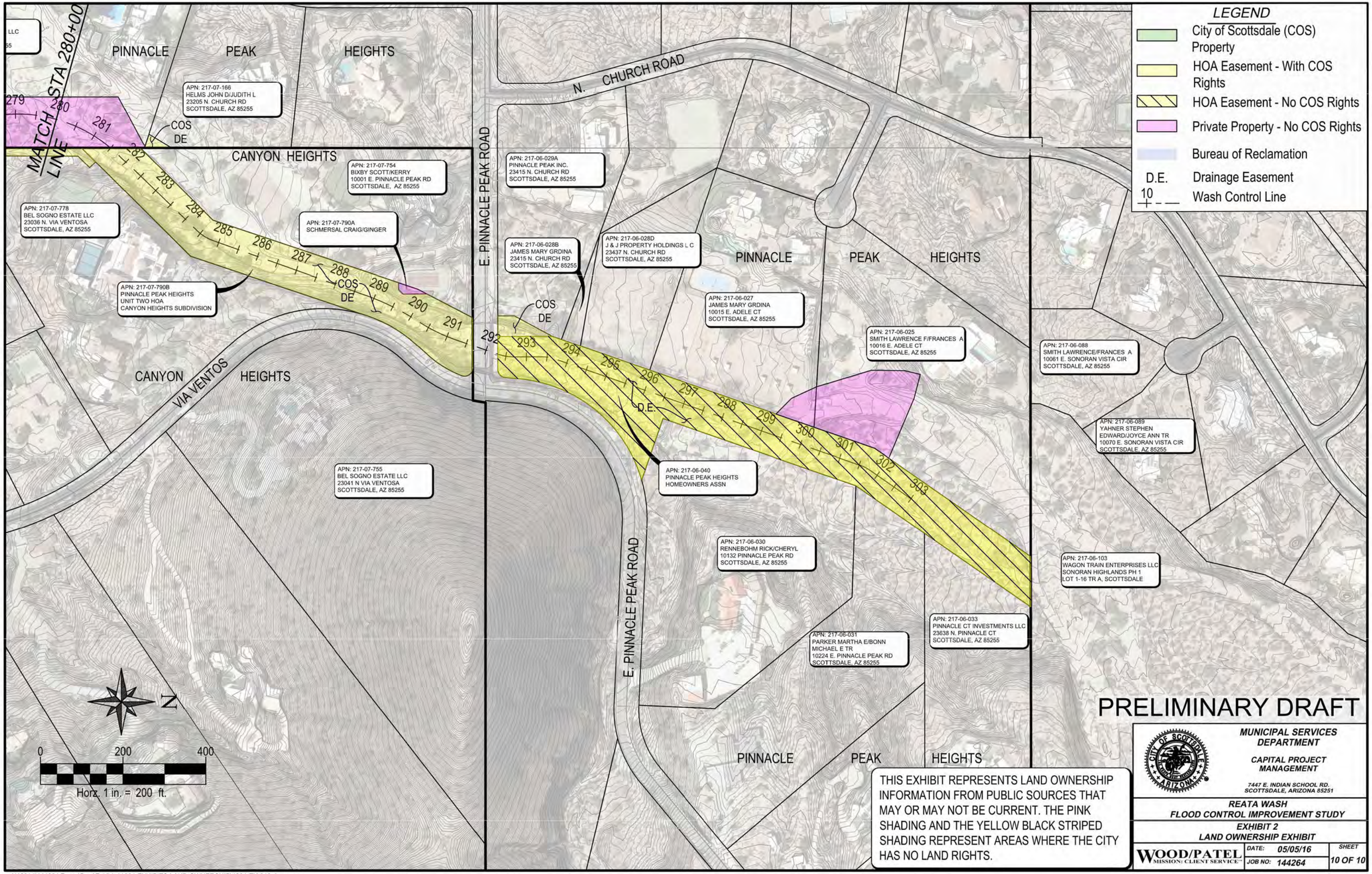

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CITY OF SCOTTSDALE ARIZONA

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N:\2014\144264 Reata\Dwg\Exhibits\4264-EXHIBITS-LAND OWNERSHIP\4264-EX-010.dwg

Reata Wash Flood Control Study

Public Meeting

Wednesday, May 18, 2016

1

Welcome! Ground Rules

- Be respectful of speakers and other attendees
- Hold all questions/comments until after the presentation
- Silence cell phones
- Q&A session following presentation
  - Question cards available

2

Tonight's Agenda

- Reata Wash study goals
- Community input received
- Criteria for flood control improvements
- Proposed improvement options
- Next steps
- Questions /open house

3

Study Area

- Study boundary is Reata Wash FEMA floodplain
- 4,600 structures at risk of flooding
- NOAA revised rainfall data, results in higher flows (13,000 cfs)
  - Need to account for increased flows to meet FEMA criteria for flood protection

4

Reata Wash Flood Study Goals

Purpose

- Protect residents and property
- Protect community facilities & infrastructure
- Maintain emergency access

How

- Identify existing flood control structures
  - Determine Federal Emergency Management Agency (FEMA) compliance
- Identify potential flood control measures and their cost
- Engage public/seek input

Results

- Recommend solution to Council
  - Reduce risk of flooding
  - Remove or reduce current FEMA floodplain

5

Update on Local Flooding Events

- August and September 2014 storms caused major damage in many areas of Valley that that were not in a previously-designated flood hazard area
  - $17.5 million damage in south Phoenix alone*
  - $10 million private property, $7.5 million city infrastructure*
- No 100-year storm events in Reata study area

6

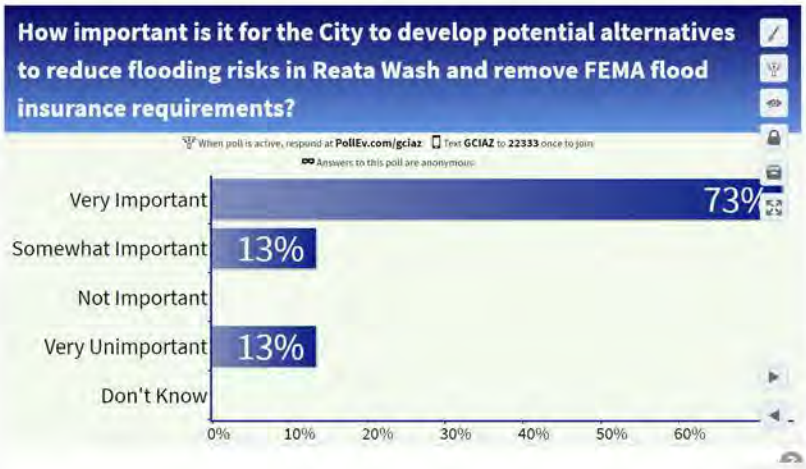
*Source: City of Phoenix, *South Mountain 2014 Flood Recovery* Report

Community Outreach Conducted to Date

- March 2016 public meeting
- Meetings with homeowners associations and key stakeholders

7

March Public Meeting Input



8

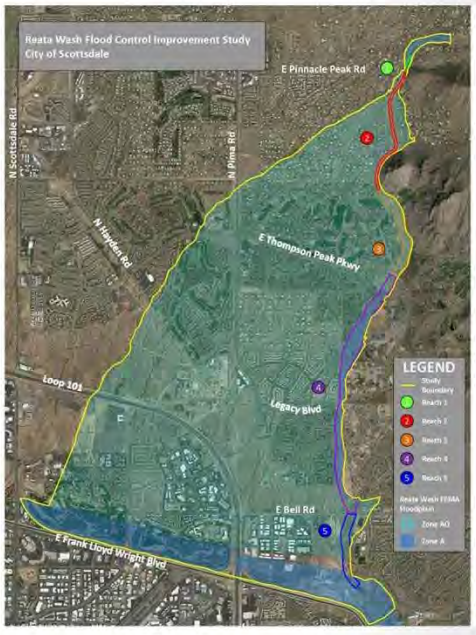
Key Issues Identified by Residents

- Important to reduce flood risk and protect residents and infrastructure
- Eliminating mandated flood insurance
- Concerns about potential project impacts
- Perception flood control not needed
- Costs vs. benefits
- Land use contributing to flooding

9

Existing Conditions

- More than half the drainage infrastructure is built
  - Existing improved drainage channels in Reaches 3 and 4
  - 4 bridges
- Gaps in drainage infrastructure prevent flood protection
- Divided into 5 reaches to evaluate needs



10

Comprehensive Solution is Needed

- High volume/velocity of stormwater predicted in large storm
- Unpredictable stormwater flows
- Need to contain stormwater within wash to protect properties
- Cannot be a partial fix
- Solution required to re-delineate FEMA floodplain

11

Criteria for Improvements

- **Technical criteria**
  - **Comprehensive solution** throughout the drainage corridor
  - **FEMA compliant solution** for reducing flood risks
  - **Maximize acres and properties removed from FEMA floodplain** based on reduced risk
  - Compliant with **environmental requirements**
  - Meet **Flood Control District of Maricopa County (FCDMC) guidelines**

12

Criteria for Improvements

- **Community criteria**
  - **Minimize adverse private property impacts**
  - **Minimize impacts to wildlife and environment**
  - **Compatible** with character of desert environment
  - **Cost-effective** design that maximizes use of funds
  - **Acceptable** to community

13

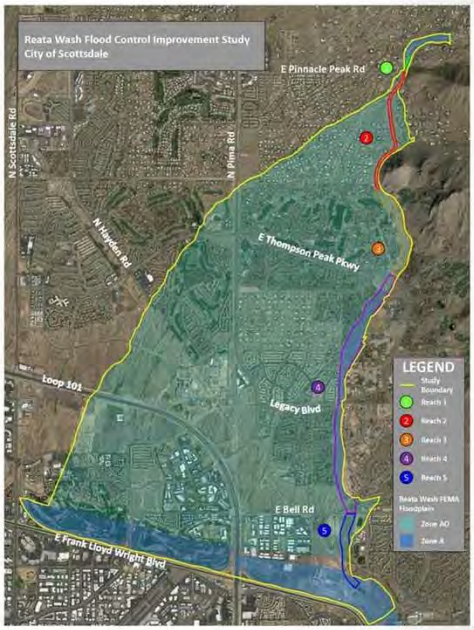
Proposed Improvements

- New conveyance improvements
- Minor improvements to bank protection, floodwalls, levees

14

Existing Floodplain

- ~5,200 acres
- ~4,600 structures



15

Proposed New Floodplain

- <600 acres
- ~80 structures likely remaining
- Eliminates federal flood insurance requirement for properties no longer in floodplain
- Would receive approval from FEMA on revised floodplain before a project is built

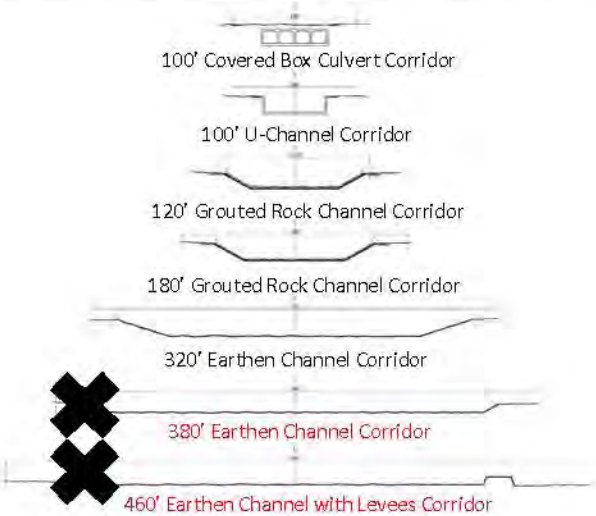
Map includes floodplains outside study area

16

Typical Conveyance Options

17

Conveyance Options Being Considered for Reata Wash



18

Potential Improvements

- Presenting feasible options for each reach
- These are study-level concepts, not final designs
- Seeking public input on options

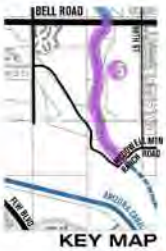
19

Potential Improvements

REACH 5

EARTHEN CHANNEL

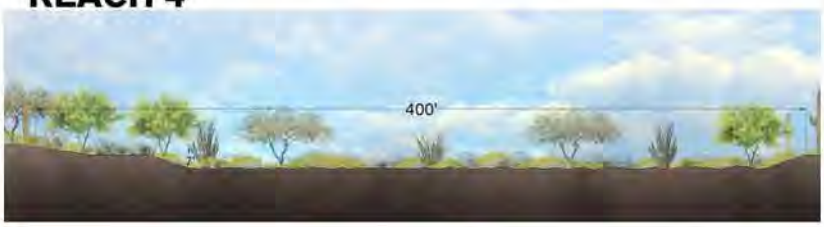
- No existing improvements
- New conveyance:
  - Earthen channel with buried bank protection
  - Concrete drop structure – energy dissipater
  - Sediment collection basin



20

Potential Improvements

REACH 4



EXISTING EARTHEN CHANNEL

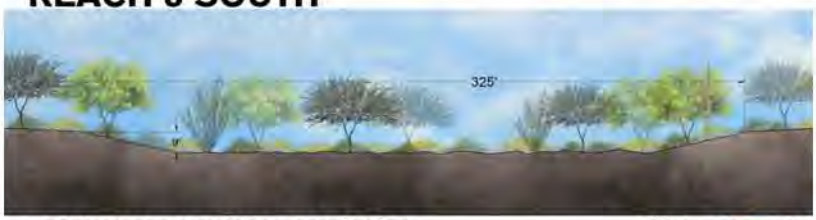
- Minor improvements to existing bank protection and levees needed in some locations to meet FEMA criteria
- Additional field investigation required to verify

KEY MAP

21

Potential Improvements

REACH 3 SOUTH



EXISTING EARTHEN CHANNEL

- Minor improvements to existing bank protection and levees needed in some locations to meet FEMA criteria
- Additional field investigation required to verify

KEY MAP

22

Potential Improvements

REACH 3 NORTH

KEY MAP

OPTION A: GROUTED ROCK CHANNEL
LOWEST COST

OPTION B: U-CHANNEL
1.6 X MORE $ THAN A

OPTION C: BOX CULVERT
2.3 X MORE $ THAN A

- No existing improvements
- New conveyance
  - 3 options for public's input

23

Potential Improvements

REACH 2 SOUTH

KEY MAP

OPTION A: GROUTED ROCK CHANNEL
LOWEST COST

OPTION B: U-CHANNEL
1.6 X MORE $ THAN A

OPTION C: BOX CULVERT
2.3 X MORE $ THAN A

- No existing improvements
- New conveyance
  - 3 options for public's input

24

Potential Improvements

REACH 2 NORTH

KEY MAP

OPTION B: U-CHANNEL
LOWEST COST

OPTION C: BOX CULVERT
1.5 X MORE $ THAN B

- No existing improvements
- New conveyance
  - 2 options for public's input

25

Potential Improvements

REACH 1

KEY MAP

GROUTED ROCK CHANNEL

- Some existing improvements
- New:
  - Grouted Rock Channel
  - Floodwall

26

Complete Solution

27

Summary

- Estimated $47-69 million design and construction cost (not including land acquisition)
  - City will seek County, State, Federal partners
- Benefits
  - Protects thousands of residents from flood risk to life and property
  - Eliminates FEMA flood insurance for most property owners (currently $1.8 million/year)
  - Reduces City cost to clean up storm damage
  - Improves emergency access in storms

28

Next Steps

- Complete technical and environmental analysis
- Identify recommended alternative
- Prepare cost/benefit analysis for recommended alternative
- Continue to coordinate with local, state, and federal agencies
- Council consideration/action – late 2016

29

Questions/Open House

- Remain in the room if you have questions
- Visit open house stations for details, talk with staff
- Complete the evaluation matrix and return tonight

30

Reata Wash
Flood Control Study
Contact Us
• www.scottsdaleaz.gov
• Search "Reata"
• Project Information Line: 480-312-7328
31

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

What is the Status of the Toll Brothers vs Scottsdale Law Suite & ~~why did~~ does this project have any relationship to that Law Suite?

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s): Please explain the "Dobson Wash" Detailed INFORMATION - I Don't understand your explanation - Specifically is Dobson Wash Still going to be in the Flood plain for FEMA insurance Requirements?

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

As More Water May go through the Wash & Some smaller Vegitation will be Removed would the Project include threes on the edge of the wash to Preserve the look and hide the dry sandy look?

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

What is the projected increase of property tax (a range) per $100K in value. To make sense, it would have to be less than the projected flood insurance paid per year.

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

THERE ARE 2 WASHES THAT FEED INTO REATA WASH FROM THE EAST. IS THIS WATER VOLUMES TAKEN INTO ACCOUNT IN THIS STUDY?

CITY OF SCOTTSDALE

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

THE ORIGINAL FLOOD PLAIN DESIGNATION IS FROM ~ 1960'S ? SUBSEQUENTLY MASTER PLANNED COMMUNITIES WERE DEVELOPED – DC RANCH & GOLDHAWK. IS IT POSSIBLE TO "REDEFINE" THE FLOOD PLAIN UNDER EXISTING IMPROVEMENTS TO REDUCE AREA WITHOUT THE "FULL" EXTENT OF PROPOSED MITIGATION FOR THE STUDY AREA. ?

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

① What if FEMA changes or "adjusts" their recommendations / guidelines and we are deemed in a Flood plain because we are no longer compliant?

② How long (in years) would the project take?

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

Are there any Federal or state fund available to subsidize construction of option selected?

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

WHAT ARE MAINTENANCE COSTS (ANNUALLY ASSOCIATED WITH EACH APPROACH /TO REMOVE SEDIMENT DEPOSITS, ETC.)

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

WHAT IS THE AVERAGE COST OF FEMA INSURANCE PAID BY HOUSHOLD IN THE REATA WASH

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

What sources of funding are being considered for the $47-69M costs?

- City operating funds
- Need taxes
- Bond issue? If so, when?

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

WILL FUTURE DEVELOPMENT IMPACT RUN OFF WATER VOLUMES?

CITY OF SCOTTSDALE

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

~~If the inhabitants of the Reata Wash have to be worried about higher~~

The city has approved the Cavaliere Flat project which will triple the amount of water flowing in the Reata Wash; why.

CITY OF SCOTTSDALE

Reata Wash Flood Control Study

Public Meeting - May 18, 2016

Question(s):

When you say the culverts will be covered in dirt so plants will grow on the wash - what plants will grow in 2 feet of dirt assuming it does not erode?

Have you contacted the home + property owners whos land will be affected directly and how will you value their land to buy it from them? - Also the impact of having to live with this major construction?

Is a similar study
underway for the
Rawhide Wash flood zone
?

Reata Wash Flood Control Study
Phase 2 Public Meeting Summary

Overview

The second public meeting for the Reata Wash Flood Control Study was held on **May 18, 2016** from 5:30-7:30 p.m. at Copper Ridge School, 10101 E. Thompson Peak Pkwy., in Scottsdale. A total of 105 people signed in for the meeting.

The purpose of the meeting was to:

- Provide information about flood risks in the Reata Wash floodplain and associated Federal Emergency Management Agency (FEMA) flood insurance requirements.
- Review and seek community input on potential flood control options to reduce the Reata Wash flood risk and the associated FEMA floodplain.

Key Findings

- There is more community support than opposition for a flood control solution for Reata Wash. Study supporters are generally in communities within reaches 3, 4 and 5. Study detractors are generally in communities within reaches 1 and 2 and are homeowners whose properties are adjacent to or near the wash who are concerned about direct property impacts.

- In the reaches where there are flood control conveyance options, the small number of people (5 of the 105 attendees) who completed the evaluation scored the covered box culvert conveyance options higher than the U-channel options. In reaches 2 and 3 the average score for a covered box channel was 10.2 and 10.8 (out of a possible 15) compared to the average score for a U-channel of 8 in both reaches. Participants were asked to rate how effectively each alternative met the evaluation criteria. Point scale was: Does Not Meet Criteria=0; Somewhat Meets Criteria=1; Meets Criteria=2; Exceeds Criteria=3. If people rated the alternative as exceeding all five evaluation criteria, the total possible score would be 15. Higher scores indicate the alternative met or exceeded most of the evaluation criteria.

    - Reach 2 North: The grouted rock channel scored higher than the U-channel.
    - Reach 2 South: The grouted rock channel and covered box culvert were scored equally over the U-channel.
    - Reach 3 North: The grouted rock channel was scored slightly higher over the covered box channel. Both options scored higher than the U-channel.

- Respondents believed the grouted rock channel and the covered box culvert are equally acceptable to the community, and equally meet the criteria of being compatible with the character of the desert and minimizing impacts to wildlife and the environment. The covered box culvert scored slightly better on the criteria of minimizing impacts to adjacent properties versus the grouted rock channel, but scored lower in cost effectiveness.

- While the U-channel scored the lowest among the flood control options, it should be noted that this option was rated as somewhat meeting the criteria for all evaluation criteria.

Staff in Attendance

The following study consultant team, City staff, and study partner staff were in attendance:

- Jon Ahern, JE Fuller
- Nerijus Baronas, City of Scottsdale
- Susan Bitter-Smith, Technical Solutions
- Chris Brown, Floor Associates
- Jeremy Casteel, Logan Simpson Design
- Michael Clack, City of Scottsdale
- Albert Granillo, GCI
- Randy Grant, City of Scottsdale
- Theresa Gunn, GCI
- Daina Mann, GCI
- Scott Mars, City of Scottsdale
- Ash Patel, Wood/Patel
- Theresa Pinto, Flood Control District of Maricopa County
- Doug Williams, Flood Control District of Maricopa County
- James Taillon, Wood/Patel
- Greg Toth, City of Scottsdale
- Erin Walsh, City of Scottsdale
- Darrel Wood, Wood/Patel
- Dan Worth, City of Scottsdale

Meeting Notification

The following methods were used to notify community members about the meeting.

- Meeting invitation postcards were mailed to 8,412 households in the study area, as well as those living immediately adjacent to the study area. Postcards were postmarked on May 9, 2016.
- A notice was posted on the City of Scottsdale's website (on the home page and on the Reata Wash Study page).
- Notices were e-mailed to homeowners' associations within the study area and association managers were asked to distribute the information to residents through their regular communications channels.
- An e-mail notice was sent to all 153 people on the Reata Wash mailing list with an e-mail address.

Format

Attendees signed in and were provided with a comment form and study newsletter. The meeting was conducted in an open house format from 5:30-7:30 p.m. with a formal presentation at 6 p.m.

During the open house portion of the meeting, attendees could visit study display boards and maps and speak with study staff members. The following exhibit boards were displayed:

- Study area map with existing FEMA floodplain delineated
- Study area map with proposed FEMA floodplain identified
- Study area map with proposed improvements/new floodplain
- Reata Wash existing drainage and flood control structures
- Study area aerial from 1962 with alluvial fan diagram to illustrate alluvial fan
- Proposed Improvements – Reach 5
- Proposed Improvements – Reach 4
- Proposed Improvements – Reach 3S
- Proposed Improvements – Reach 3N
- Proposed Improvements – Reach 2S

- Proposed Improvements – Reach 2N
- Proposed Improvements – Reach 1
- Land ownership and easements map of the Reata Wash corridor with existing city land rights identified

The meeting presentation provided information about the study purpose and need, flooding risks, existing flood control infrastructure, flood control options evaluated and currently being considered in each reach, evaluation criteria for a flood control solution, next steps in the study process and how to provide input on the options. A question and answer period was conducted after the presentation using question cards provided to audience members.

Questions/Comments Received

The following questions and comments were received on question cards following the presentation. Responses appear verbatim.

- Will the presentation be on the website?
- What are maintenance costs (annually) associated with each approach (to remove sediment deposits, etc.)?
- Is a similar study underway for Rawhide Wash?
- What sources of funding are being considered for the $47-69 million cost? City operating funds? New taxes? Bond issue? If so, when?
- As more water may go through the wash and some smaller vegetation will be removed, would the project include trees on the edge of the wash to preserve the look and hide the dry sandy look?
- What if FEMA changes or "adjusts" their recommendations/guidelines and we are deemed in a flood plain because we are no longer compliant?
- How long (in years) would a project take?
- What is the projected increase of property tax (a range) per $100K in value? To make sense, it would have to be less than the projected flood insurance paid per year.
- What is the average cost of FEMA insurance paid by a household in the Reata Wash?
- Are there any federal or state funds available to subsidize construction of option selected?
- There are two washes that feed into Reata Wash from the east. Is this water volume taken into account in this study?
- The original floodplain designation is from the 1960s? Subsequently master planned communities were developed—DC Ranch and Grayhawk. Is it possible to "redefine" the floodplain over existing improvements to reduce area without the "full" extent of proposed mitigation for the study area?
- When you say the culverts will be covered in dirt so plants will grow on the wash—what plants will grow in two feet of dirt assuming it does not erode?
- Have you contacted the home and property owners whose land will be affected directly and how will you value their land to buy it from them? Also, the impact of having to live with this major construction?
- The city has approved the Cavalliere Flat Project which will triple the amount of water flowing in the Reata Wash. Why?
- Will future development impact runoff water volumes?
- What is the status of the Toll Brothers vs. Scottsdale lawsuit? Does this project have any relationship to that lawsuit?

- Please explain the Dobson Wash information—I don't understand your explanation. Specifically, is Dobson Wash still going to be in the floodplain for FEMA insurance requirements?

Verbal Comments

Verbal comments received during the open house portion of the meeting are summarized below.

Support Study

- Generally, the team heard from more supporters of a flood control solution than detractors. Many homeowners stated they were in favor of the study advancing to a project. Approximately 20 people stated their support during the open house. The team reported numerous positive discussions with homeowners.
- Of those who support a project who provided their location, three live in DC Ranch, three live in Ironwood Village, two live in Grayhawk, two live in Reach 5, and one lives in the northern portion of the study area.
- Many of those who expressed their support indicated it is because they do not want to continue to pay flood insurance.

Do Not Support Study

- Several homeowners indicated they did not support a flood control project. Ten residents stated their lack of support during the open house. Generally, these residents live in reaches 1 and 2 and are concerned about direct impacts to their property (property acquisition, viewsheds, construction, property/recreational access). Many of them indicated they don't believe a project is needed.
- Several Canyon Heights homeowners (Foothills Dr. to Pinnacle Peak Rd.) questioned the need for the study based on the flows they have seen in the wash, the impact of the cost of a project to City taxpayers, the alignment (too close to their property) and the perceived impact of any project to their property value.

Project Element Options

- There were some positive comments about the box culvert from homeowners in Reach 3 north near the golf course.
- A homeowner indicated that he would like to see the vegetation within the wash augmented with a project.
- Several people commented on their desire that the proposed system is kept friendly to equestrians and hikers.
- A resident questioned the Pinnacle Road Bridge capacity.
- One person indicated they liked the boards but didn't understand some of the terms/language and would have preferred some actual photos of some of the flood control elements presented.

Floodplain

- Several people in attendance lived outside the floodplain area, indicated their relief, and did not stay for the presentation. A few of those indicated they live in Windgate Ranch. Staff explained that they received the information because their community is adjacent to Reata Wash.
- A resident of Ironwood Village asked if it was possible to remove that area from the floodplain with a partial implementation of one of the reaches.

Study Schedule/Funding

- One person wanted to know how fast a project would be implemented and built.
- One person wanted to know if funding in place or how a project would be funded.

Project Impacts

- One person wanted to know why the City doesn't place the corridor further away from their home.
- One person commented that it never floods here and they don't want to see the beautiful area damaged.
- Someone asked if there is an Environmental Impact Statement done for wildlife impacts. He was informed that once we have a recommended concept, our environmental team member will provide wildlife corridor mitigation suggestions for the recommended concept.
- A homeowner member of the Pinnacle Peak HOA (north of Pinnacle Peak Road) indicated that they want to dissolve the HOA and were very interested in discussing the potential of the City taking over the drainage easements. He also indicated he believed that the previous drainage improvements done north of Pinnacle Peak Road in the mid-1990s were done without HOA approval.

Comment Forms

A total of 10 comment forms were returned. Respondents indicated a particular reach where noted. Comments appear verbatim below.

- Very good meeting today. Disappointed that engineers don't have a recommended options (stated it's a community and cost decision). If all options are equal quality as a solution, then it's a no-brainer isn't it? See my scores overlap.
- I am in favor of a flood control project that would protect private property and eliminate the flood area designation currently assigned by FEMA.
- Presentation needed real life pics of what these improvements might look like. Covered U-box? Buried box culvert? Box culvert? Etc. Listener cannot envision what these improvements actually are. Pics needed from existing examples. Doesn't matter if they're in Oregon, etc.
- Assuming you need to quantify the increase in property tax per average household. Cannot give an opinion on back (evaluation of flood control options) without knowing this.
- My property is adjacent to Reach 3 south. I would like the City to consider vegetation to cover the dry, sandy look of the wash. This project will cause more water which will kill smaller vegetation. Having trees on edge of wash will be nice.
- (Comment applies to Reach 2) - Oppose this project in its entirety. The need for flood control in the Reata Wash has never been established. This project is developer driven.

How did you learn about this meeting?

- Postcard: 6
- HOA: 0
- Friend/Neighbor: 0
- Newspaper: 0
- Signage/Other: 0

Public Evaluation of Flood Control Options (Completed During Meeting)

Five people completed the evaluation matrix of the flood control options by reach. Participants provided a score to indicate how well each option being considered for a reach met the stated evaluation criteria. Scoring options included: Does Not Meet Criteria = 0; Somewhat Meets Criteria=1; Meets Criteria=2; Exceeds Criteria=3.

The top section of the table below is the total of the points for each option by criteria. The bottom section is the total points for each option divided by the number of responses to provide an average score for each option. The maximum score possible for each option was 15.

Evaluation Criteria	Reach 1	Reach 2 N / S A -Grouted Rock	Reach 2 N / S B - U channel	Reach 2 South C - Covered Box	Reach 3 North A - Grouted Rock	Reach 3 North B - U Channel	Reach 3 North C - Covered Box	Reach 3 South	Reach 4	Reach 5
Minimizes impacts to private properties.	10	9	9	11	10	9	11	9	9	10
Compatible with the character of the desert.	11	11	8	12	11	8	12	9	9	10
Minimizes impacts to wildlife and the environment.	11	11	7	11	11	7	11	11	11	10
Cost-effective design.	11	10	8	7	11	8	7	11	12	11
Acceptable to the community.	11	11	8	11	11	8	10	10	10	10
Total Score	54	52	40	52	54	40	51	50	51	51
Number of Responses	5	5	5	5	5	5	5	5	5	5
Average Score by Reach	**10.8**	**10.4**	**8**	**10.4**	**10.8**	**8**	**10.2**	**10**	**10.2**	**10.2**

PUBLIC MEETING COMMENT FORM **May 18, 2016 Copper Ridge School**

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

City: _____ ZIP _____

Phone number: _____ E-mail: _____

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ___ Reach 2 ___ Reach 3 __ Reach 4 ___ Reach 5 ___ N/A

General Comments

_____

_____

_____

_____

_____

If your comment applies to a particular reach, please indicate below:

___ Reach 1 ___ Reach 2 ___ Reach 3 __ Reach 4 ___ Reach 5 ___ All

If you need more room for comments please use an additional comment form.

How did you learn about this meeting?

- ☐ Newspaper
- ☒ Postcard/Mailer
- ☐ HOA
- ☐ Friend/Neighbor
- ☐ Signage/Other

Criteria for Recommended Flood Control Solution

All flood control improvements being considered are equally effective in providing a FEMA-compliant solution to reduce flood risk throughout the FEMA floodplain and maximize the acres and properties removed from the FEMA floodplain.

Please rate each option using the evaluation criteria listed below. Write the number in the box corresponding to each reach.

Does Not Meet Criteria = 0 Somewhat Meets Criteria = 1 Meets Criteria = 2 Exceeds Criteria = 3

Evaluation Criteria	Reach 1 Grouted Rock Channel, floodwall	Reach 2 N / S A: Grouted Rock Channel	Reach 2 N / S B: U-Channel (1.6X more $ than A)	Reach 2 South C: Box Culvert (2.3x more $ than A)	Reach 3 North A: Grouted Rock Channel	Reach 3 North B: U-Channel (1.6X more $ than A)	Reach 3 North C: Box Culvert (2.3x more $ than A)	Reach 3 South Improve existing bank protection, levees, walls	Reach 4 Improve existing bank protection, levees, walls	Reach 5 Earthen Channel, Sediment basin
Minimizes impacts to private properties.	2	2	1	2	2	1	2	2	2	2
Compatible with the character of the desert.	2	2	0	2	2	0	2	2	2	2
Minimizes impacts to wildlife and the environment.	2	2	0	2	2	0	2	2	2	2
Cost-effective design.	3	3	1	1	3	1	1	3	3	3
Acceptable to the community.	3	3	0	3	3	0	3	3	3	3

Reata Wash Flood Control Study

PUBLIC MEETING COMMENT FORM May 18, 2016 Copper Ridge School

[redacted]

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ___ Reach 2 ___ Reach 3 __ Reach 4 ___ Reach 5 ___ N/A

General Comments

Presentation needed real life pics of what these improvements might look like. - Covered VBX? - Buried box culvert? - Box Culvert? etc. improvements actually. Listener cannot envision what these are. Pics needed from existing examples. Doesn't matter if they're in Oregon etc.

If your comment applies to a particular reach, please indicate below:

___ Reach 1 ___ Reach 2 ___ Reach 3 __ Reach 4 ___ Reach 5 ___ All

If you need more room for comments please use an additional comment form.

How did you learn about this meeting?

- ☐ Newspaper
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- ☐ HOA
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- ☐ Signage/Other

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Cost-effective design.										
Acceptable to the community.										

Reata Wash Flood Control Study

PUBLIC MEETING COMMENT FORM May 18, 2016 Copper Ridge School

[redacted]

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ___ Reach 2 ___ Reach 3 ✓ Reach 4 ___ Reach 5 ___ N/A

General Comments

Very good meeting today. Lower Disappointed that engineers don't have a recommended option (stated its a community + cost decision.) If all options are equal quality as a solution, then it's a no-brainer isn't it. See my scores overleaf.

If your comment applies to a particular reach, please indicate below:

___ Reach 1 ___ Reach 2 ___ Reach 3 ___ Reach 4 ___ Reach 5 ✓ All

If you need more room for comments please use an additional comment form.

How did you learn about this meeting?

- ☐ Newspaper
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Minimizes impacts to private properties.	2	2	2	1	2	2	1	2	2	2
Compatible with the character of the desert.	2	2	1	1	2	1	1	2	2	2
Minimizes impacts to wildlife and the environment.	2	2	0	0	2	0	0	2	2	2
Cost-effective design.	2	2	1	0	2	1	0	2	2	2
Acceptable to the community.	2	2	1	1	2	1	1	2	2	2

4600 Acres
1.8 premium
$400/Ac

Reata Wash Flood Control Study

PUBLIC MEETING COMMENT FORM May 18, 2016 Copper Ridge School

[redacted]

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ___ Reach 2 ___ Reach 3 X Reach 4 ___ Reach 5 ___ N/A

General Comments

I am in favor of a flood control project that would protect private property and eliminate the flood area designation currently assigned by FEMA.

If your comment applies to a particular reach, please indicate below:

___ Reach 1 ___ Reach 2 ___ Reach 3 ___ Reach 4 ___ Reach 5 X All

If you need more room for comments please use an additional comment form.

How did you learn about this meeting?

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- ☐ HOA
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Cost-effective design.										
Acceptable to the community.										

Reata Wash Flood Control Study

PUBLIC MEETING COMMENT FORM May 18, 2016 Copper Ridge School

[redacted]

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ___ Reach 2 ___ Reach 3 X Reach 4 ___ Reach 5 ___ N/A

General Comments

Assuming you need to quantify the increase in property tax per average household. Cannot give an opinion on back without knowing this

If your comment applies to a particular reach, please indicate below:

___ Reach 1 ___ Reach 2 ___ Reach 3 ___ Reach 4 ___ Reach 5 X All

If you need more room for comments please use an additional comment form.

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- ☐ Newspaper
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Compatible with the character of the desert.										
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Cost-effective design.										
Acceptable to the community.										

Reata Wash Flood Control Study

PUBLIC MEETING COMMENT FORM May 18, 2016 Copper Ridge School

[redacted]

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ___ Reach 2 ✓ Reach 3 ___ Reach 4 ___ Reach 5 ___ N/A

General Comments

My property is Adjacent to Reach 3 south. I would like the city considering vegitation to cover the dry sandy look of the wash. ~~The~~ This project will cause more water which will kill smaller vegitation. Having trees on edge of wash will be nice.

If your comment applies to a particular reach, please indicate below:

___ Reach 1 ___ Reach 2 ___ Reach 3 ___ Reach 4 ___ Reach 5 ___ All

If you need more room for comments please use an additional comment form.

How did you learn about this meeting?

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☐ Postcard/Mailer ☐ Friend/Neighbor

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Minimizes impacts to private properties.	2	2	2	2	2	2	2	1	1	2
Compatible with the character of the desert.	3	3	3	3	3	3	3	1	1	3
Minimizes impacts to wildlife and the environment.	3	3	3	3	3	3	3	3	3	3
Cost-effective design.	2	2	2	2	2	2	2	2	2	2
Acceptable to the community.	2	2	2	2	2	2	2	1	1	2

PUBLIC MEETING COMMENT FORM **May 18, 2016 Copper Ridge School**

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

City: _____ ZIP _____

Phone number: _____ E-mail: _____

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ___ Reach 2 ___ Reach 3 __ Reach 4 ___ Reach 5 ___ N/A

General Comments

_____

_____

_____

_____

_____

If your comment applies to a particular reach, please indicate below:

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Minimizes impacts to private properties.	2	1	1	3	2	1	3	2	2	3
Compatible with the character of the desert.	2	2	1	3	2	1	3	2	2	2
Minimizes impacts to wildlife and the environment.	2	2	1	3	2	1	3	2	2	2
Cost-effective design.	2	2	1	1	2	1	1	2	3	3
Acceptable to the community.	2	2	2	2	2	1	2	2	2	2

Reata Wash Flood Control Study

PUBLIC MEETING COMMENT FORM May 18, 2016 Copper Ridge School

[redacted]

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ✓ Reach 2 ___ Reach 3 ___ Reach 4 ___ Reach 5 ___ N/A

General Comments

Oppose this project in its entirety.
The need for flood control in the Reata
Wash has never been established.
This project is developer driven.

If your comment applies to a particular reach, please indicate below:

___ Reach 1 ✓ Reach 2 ___ Reach 3 ___ Reach 4 ___ Reach 5 ___ All

If you need more room for comments please use an additional comment form.

How did you learn about this meeting?

- ☐ Newspaper
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Acceptable to the community.										

PUBLIC MEETING COMMENT FORM **May 18, 2016 Copper Ridge School**

Optional – To be added to the study notification list:

Name: _____

Organization/Affiliation: _____

Address: _____

City: _____ ZIP _____

Phone number: _____ E-mail: _____

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ___ Reach 2 ___ Reach 3 __ Reach 4 ___ Reach 5 ___ N/A

General Comments

_____

_____

_____

_____

_____

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Minimizes impacts to private properties.	2	2	3	3	2	3	3	2	2	1
Compatible with the character of the desert.	2	2	3	3	2	3	3	2	2	1
Minimizes impacts to wildlife and the environment.	2	2	3	3	2	3	3	2	2	1
Cost-effective design.	2	2	3	3	2	3	3	2	2	1
Acceptable to the community.	2	2	3	3	2	3	3	2	2	1

PUBLIC MEETING COMMENT FORM **May 18, 2016 Copper Ridge School**

[redacted]

If your property is adjacent to or near the wash please indicate which reach you are in:

___ Reach 1 ___ Reach 2 ___ Reach 3 X Reach 4 ___ Reach 5 ___ N/A

General Comments

_____

_____

_____

_____

_____

If your comment applies to a particular reach, please indicate below:

___ Reach 1 ___ Reach 2 ___ Reach 3 __ Reach 4 ___ Reach 5 ___ All

If you need more room for comments please use an additional comment form.

How did you learn about this meeting?

- ☐ Newspaper
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Compatible with the character of the desert.										
Minimizes impacts to wildlife and the environment.										
Cost-effective design.										
Acceptable to the community.										

Reata Wash Flood Control Study Public Meeting

May 18, 2016, 5:30-7:30 p.m., Copper Ridge School Cafeteria, 10101 E. Thompson Peak Pkwy., Scottsdale

Please sign in to indicate you are attending today's meeting.

NAME	COMPANY/ORGANIZATION	ADDRESS	EMAIL	PHONE	ADD TO MAIL LIST
Mike & Lin Lawrence		[redacted]	[redacted]	[redacted]	✓
JEFF WOGAN					
Jim DAVIS					
Katherine & Burney					
JOHN HENRICKSON					
Jeanette Grisworld					
MARK EDELMAN	ASLD				
Ralph Reid					

Reata Wash Flood Control Study Public Meeting

May 18, 2016, 5:30-7:30 p.m., Copper Ridge School Cafeteria, 10101 E. Thompson Peak Pkwy., Scottsdale

Please sign in to indicate you are attending today's meeting.

NAME	COMPANY/ORGANIZATION	ADDRESS	EMAIL	PHONE	ADD TO MAIL LIST
Lukas aka Miles	Victor's 3	[redacted]	[redacted]	[redacted]	Yes
Justin Wagman	P.P.V. III				
Shelly Wagman	PPV III				I
BILL RAU	—				yes
JAMES KOLENDA	RESIDENT				YES
STAN VAUGHAN	RESIDENT				YES
Lynn Miller	Resident				21
DAN THOMPSON					YES
ANTHI KOUKIOUS	EAST WEST Holding Group				YES
Becky Rand	resident				
SCOT EDWARDS	RESIDENT				YES

Reata Wash Flood Control Study Public Meeting

May 18, 2016, 5:30-7:30 p.m., Copper Ridge School Cafeteria, 10101 E. Thompson Peak Pkwy., Scottsdale

Please sign in to indicate you are attending today's meeting.

NAME	COMPANY/ORGANIZATION	ADDRESS	EMAIL	PHONE	ADD TO MAIL LIST
Dennis Newcombe	Beus Gilbert PLLC	[redacted]			Yes.
RALPH ROSSBOROUGH	IRONWOOD VILLAGE				Yes
Kevin Moshier	CellTrust				Yes
SAM HAWKINS	Self				Yes
ROBIN WALKER, SR.	SELF				YES
Craig + Ginger Schmersal	self				Yes
Massand Rezakhani	Homeowner				Yes
GORDON E JANSEN	SELF				YES
Chris Dubay	homeowner				Yes
Mark Miller	Homeowner				Yes
DON HOFFMAN	Home Owner				Yes
Marilyn Andrews					✓
Don Andrews					
Tom Headley	Home Owner				✓
Jody Leinenweber	Home Owner				✓
Renée Mishelof	" "				
Richard Mishelof	" "				

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DENIS FRANK	IRONWOOD Village	[redacted]	[redacted]	[redacted]	Yes
CHRISTIAN AGUIRRE	SELF				NO.
JOSEPH GUIDA	Self				yes
DAVID N SMITH	COS				
SCOTT FINKELMEYER	SELF				YES
Spencer Baker	Self				Yes
Catherine Curry	Self				Yes
Joe DeCarlo	Self				No
Chuck Wells	Self				No
ED TURNER	Self				No
DAVID VAN OMEN	GRAYHAWK-BOARD				Y
TONY COATES	CASITAS HOA PRESIDENT				✓
STEVE STUTTLE	self				
LARRY LASPISA	SELF				
MIKE BAKER	CANYON HEIGHTS PRESIDENT HOA				
Vicki Casteel	Logan Simpson				
DUC DAO	WOOD PATEL				

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Vince DeLuga	Ironwood Village	[redacted]	[redacted]	[redacted]	
Helen Schmucker		[redacted]	[redacted]	[redacted]	
David Personne		[redacted]	[redacted]	[redacted]	✓
Judy & J.D. Helms	Pinnacle Peak Heights	[redacted]	[redacted]	[redacted]	✓
Ardie Downing	Candlewood Estates	[redacted]	[redacted]	[redacted]	✓
Ed Swanson	DC Ranch	[redacted]	[redacted]	[redacted]	✓
Simon Carr	Grayhawk	[redacted]	[redacted]	[redacted]	X
Amy Santoni	Windgate Ranch	[redacted]	[redacted]	[redacted]	X
Kathy Littlefield	City Council	[redacted]	[redacted]	[redacted]	X
Andy Andrews	DC Ranch Assoc.	[redacted]	[redacted]	[redacted]	X
Molly Schwarz		[redacted]	[redacted]	[redacted]	X
Jack Thomas	Pima Acres	[redacted]	[redacted]	[redacted]	X
Susan & Tom Grace		[redacted]	[redacted]	[redacted]	X
Lolita Spiro	Canyon Heights	[redacted]	[redacted]	[redacted]	✓
Nancy Voorhees	Homeowner	[redacted]	[redacted]	[redacted]	
DANNY HUM		[redacted]	[redacted]	[redacted]	
		[redacted]	[redacted]	[redacted]	

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Jeremy Casteel	Logan Simpson	[redacted]			
Becki Molt					
Frank Kohler					
Rich Perry					
Roger Mann					
June Kollenda					
Jim Kollenda					
Victoria Kawlewich					
Joel Peterson					
Sandy Mills					
Kevan Millstein					
Sheryl Lowenthal					
Poppy Amaratidis					
Craig Cherney					✓
Gloria Reid					
Ralph Reid					

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RANDY ROGERS	RESIDENT	[redacted]			
Ed MARKLOV	RESIDENT				
GREG & MARCIA SORKNES	RESIDENT				
Theresa Pinto	FCDMC				
ERNIE NOWLIN	RESIDENT.				
Cliff Klima	Resident				✓
Toni Klima	Resident				✓
JOHN BEELMANN	"				
FRANCOIS (& MARIA) CASTAING	"				
Leslie Diamond	Resident				✓
PAT + Jim GOESSling	Resident				✓
UMBERTO SANTORI	"				—
Steve Wiede	Resident				✓