

RITTENHOUSE CHANNEL LOMR



Federal Emergency Management Agency

Washington, D.C. 20472

rec'd
Nov 2 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Fulton Brock
Chairman, Maricopa County
Board of Supervisors
301 West Jefferson, 10th Floor
Phoenix, AZ 85003

IN REPLY REFER TO:
Case No.: 99-09-1296P

Community: Maricopa County, Arizona
Community No.: 040037
Panels Affected: 04013C2695 F, 2715 E, and
3080 F

Effective Date of
This Revision: **OCT 28 1999**

102-D-A

Dear Mr. Brock:

This is in reference to a Letter of Map Revision (LOMR) issued on September 28, 1999 (Case No. 99-09-509P), that revised the effective Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas (the effective FIRM for your community). The September 28 LOMR was issued to show the effects of new hydrology and construction of Rittenhouse Road Channel from Ellsworth Road to the confluence with the East Maricopa Floodway within the City of Mesa, the Towns of Queen Creek and Gilbert, and the unincorporated areas of Maricopa County.

The September 28 LOMR revised the FIRM to modify the elevations and floodplain boundary delineations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for the flooding along the Southern Pacific Railroad (SPRR) from Ocotillo Road to the confluence with the East Maricopa Floodway. As a result of the modifications, the base flood elevations (BFEs) for the flooding along the SPRR were removed, and the width of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, decreased. The base flood is contained in Rittenhouse Road Channel. The modifications were shown on annotated copies of FIRM Panel(s) 04013C2695 F, 04013C2715 E, and 04013C3080 F that were included with the September 28 LOMR. Although the revised areas are shown on the effective FIRM as within the Town of Queen Creek and the City of Mesa, some affected areas are actually under the jurisdiction of Maricopa County.

The results of the determinations presented in the September 28 LOMR and the corresponding FIRM panel attachments remain valid for all four of the above-referenced communities. This LOMR is being issued to show the correct suffix for FIRM Panel 04013C2715 E in the letters for the Town of Queen Creek and the unincorporated areas of Maricopa County.

Because this LOMR is being issued to correct a mapping or study analysis error, fees were not assessed for the review.

Because this revision request also affects the Town of Queen Creek, a separate LOMR for that community was issued on the same date as this LOMR.

The modifications are effective as of the date shown above. The map panel(s) as listed above and as modified by this letter will be used for all flood insurance policies and renewals issued for your community.

Public notification of the modified BFEs will be published as indicated in the September 28 LOMR.

Because this LOMR will not be printed and distributed to primary users, such as local insurance agents and mortgage lenders, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR throughout the community, so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information. We also encourage you to prepare a related article for publication in your community's local newspaper. This article should describe the assistance that officials of your community will give to interested persons by providing these data and interpreting the National Flood Insurance Program (NFIP) maps.

We are processing a revised FIRM and Flood Insurance Study (FIS) report for Maricopa County and Incorporated Areas; therefore, we will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the FIRM and FIS report were submitted to your community for review on December 23, 1997. Revised preliminary copies of the FIRM and FIS report were submitted to your community for review on May 29, 1998. We will incorporate the modifications made by this LOMR into the FIRM and FIS report before they become effective.

This LOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development, and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

The basis of this LOMR is, in whole or in part, a channel-modification/culvert project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the modified channel and culvert rests with your community.

This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria are the minimum requirements and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM to which the regulations apply and the modifications described in this LOMR.

FEMA makes flood insurance available in participating communities; in addition, we encourage communities to develop their own loss reduction and prevention programs. Our Project Impact initiative, developed by FEMA Director James Lee Witt, seeks to focus the energy of businesses, citizens, and communities in the United States on the importance of reducing their susceptibility to the impact of all natural disasters, including floods, hurricanes, severe storms, earthquakes, and wildfires. Natural hazard mitigation is most effective when it is planned for and implemented at the local level, by the entities who

are most knowledgeable of local conditions and whose economic stability and safety are at stake. For your information, we are enclosing a Project Impact Fact Sheet. For additional information on Project Impact, please visit our Web site at www.fema.gov.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in San Francisco, California, at (415) 923-7177. If you have any technical questions regarding this LOMR, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,



Max H. Yuan, P.E., Project Engineer
Hazards Study Branch
Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

cc: The Honorable Cynthia Dunham
Mayor, Town of Gilbert

The Honorable Wayne Brown
Mayor, City of Mesa

The Honorable Mark Schnepf
Mayor, Town of Queen Creek

Mr. Bill Jenkins
State Coordinator, NFIP
Arizona Department of Water Resources

Hasan Mushtaq, Ph.D., P.E. ✓
Engineering Division
Flood Control District of Maricopa County



Federal Emergency Management Agency

Washington, D.C. 20472

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 99-09-1296P

The Honorable Mark Schnepf
Mayor, Town of Queen Creek
22350 South Ellsworth Road
Queen Creek, AZ 85242

Community: Town of Queen Creek, Arizona
Community No.: 040132
Panels Affected: 04013C2695 F, 2715 E, and
3080 F

Effective Date of **OCT 28 1999**
This Revision:

102-D-A

Dear Mayor Schnepf:

This is in reference to a Letter of Map Revision (LOMR) issued on September 28, 1999 (Case No. 99-09-509P), that revised the effective Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas (the effective FIRM for your community). The September 28 LOMR was issued to show the effects of new hydrology and construction of Rittenhouse Road Channel from Ellsworth Road to the confluence with the East Maricopa Floodway within the City of Mesa, the Towns of Queen Creek and Gilbert, and the unincorporated areas of Maricopa County.

The September 28 LOMR revised the FIRM to modify the elevations and floodplain boundary delineations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for the flooding along the Southern Pacific Railroad (SPRR) from Ocotillo Road to the confluence with the East Maricopa Floodway. As a result of the modifications, the base flood elevations (BFEs) for the flooding along the SPRR were removed, and the width of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, decreased. The base flood is contained in Rittenhouse Road Channel. The modifications were shown on annotated copies of FIRM Panel(s) 04013C2695 F, 04013C2715 E, and 04013C3080 F that were included with the September 28 LOMR.

The results of the determinations presented in the September 28 LOMR and the corresponding FIRM panel attachments remain valid for all four of the above-referenced communities. This LOMR is being issued to show the correct suffix for FIRM Panel 04013C2715 E in the letters for the Town of Queen Creek and the unincorporated areas of Maricopa County.

Because this LOMR is being issued to correct a mapping or study analysis error, fees were not assessed for the review.

Because this revision request also affects the unincorporated areas of Maricopa County, a separate LOMR for that community was issued on the same date as this LOMR.

The modifications are effective as of the date shown above. The map panel(s) as listed above and as modified by this letter will be used for all flood insurance policies and renewals issued for your community.

Public notification of the modified BFEs will be published as indicated in the September 28 LOMR.

Because this LOMR will not be printed and distributed to primary users, such as local insurance agents and mortgage lenders, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR throughout the community, so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information. We also encourage you to prepare a related article for publication in your community's local newspaper. This article should describe the assistance that officials of your community will give to interested persons by providing these data and interpreting the National Flood Insurance Program (NFIP) maps.

We are processing a revised FIRM and Flood Insurance Study (FIS) report for Maricopa County and Incorporated Areas; therefore, we will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the FIRM and FIS report were submitted to your community for review on December 23, 1997. Revised preliminary copies of the FIRM and FIS report were submitted to your community for review on May 29, 1998. We will incorporate the modifications made by this LOMR into the FIRM and FIS report before they become effective.

This LOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development, and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

The basis of this LOMR is, in whole or in part, a channel-modification/culvert project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the modified channel and culvert rests with your community.

This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria are the minimum requirements and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM to which the regulations apply and the modifications described in this LOMR.

FEMA makes flood insurance available in participating communities; in addition, we encourage communities to develop their own loss reduction and prevention programs. Our Project Impact initiative, developed by FEMA Director James Lee Witt, seeks to focus the energy of businesses, citizens, and communities in the United States on the importance of reducing their susceptibility to the impact of all

natural disasters, including floods, hurricanes, severe storms, earthquakes, and wildfires. Natural hazard mitigation is most effective when it is planned for and implemented at the local level, by the entities who are most knowledgeable of local conditions and whose economic stability and safety are at stake. For your information, we are enclosing a Project Impact Fact Sheet. For additional information on Project Impact, please visit our Web site at www.fema.gov.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in San Francisco, California, at (415) 923-7177. If you have any technical questions regarding this LOMR, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,


 Max H. Yuan, P.E., Project Engineer
 Hazards Study Branch
 Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
 Hazards Study Branch
 Mitigation Directorate

cc: The Honorable Cynthia Dunham
 Mayor, Town of Gilbert

The Honorable Wayne Brown
 Mayor, City of Mesa

The Honorable Fulton Brock
 Chairman, Maricopa County
 Board of Supervisors

Mr. Bill Jenkins
 State Coordinator, NFIP
 Arizona Department of Water Resources

Hasan Mushtaq, Ph.D., P.E. ✓
 Engineering Division
 Flood Control District of Maricopa County

Mr. Richard Shaner, P.E.
 Town Engineer
 Town of Queen Creek



Federal Emergency Management Agency

Washington, D.C. 20472

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Wayne Brown
Mayor, City of Mesa
P.O. Box 1466
Mesa, AZ 85211-1466

IN REPLY REFER TO:
Case No.: 99-09-509P

Community: City of Mesa, Arizona
Community No.: 040048
Panel Affected: 04013C2695 F
Effective Date of **SEP 28 1999**
This Revision:

102-D-A

Dear Mayor Brown:

This responds to a request that the Federal Emergency Management Agency (FEMA) revise the effective Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas (the effective FIRM for your community), in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated February 17, 1999, Hasan Mushtaq, Ph.D, P.E., Engineering Division, Flood Control District of Maricopa County, requested that FEMA revise the FIRM to show the effects of new hydrology and construction of Rittenhouse Road Channel from Ellsworth Road to the confluence with the East Maricopa Floodway.

All data required to complete our review of this request were submitted with letters from Dr. Mushtaq.

We have completed our review of the submitted data and the flood data shown on the effective FIRM. We have revised the FIRM to modify the elevations and floodplain boundary delineations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for the flooding along the Southern Pacific Railroad from Ocotillo Road to the confluence with the East Maricopa Floodway. As a result of the modifications, the base flood elevations (BFEs) for the flooding along the Southern Pacific Railroad were removed, and the width of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, decreased. The base flood is contained in Rittenhouse Road Channel. The modifications are shown on the enclosed annotated copy of FIRM Panel(s) 04013C2695 F. This Letter of Map Revision (LOMR) hereby revises the above-referenced panel(s) of the effective FIRM dated December 3, 1993.

Because this revision request also affects the Towns of Queen Creek and Gilbert and the unincorporated areas of Maricopa County, separate LOMRs for those communities were issued on the same date as this LOMR.

The modifications are effective as of the date shown above. The map panel(s) as listed above and as modified by this letter will be used for all flood insurance policies and renewals issued for your community.

The following table is a partial listing of existing and modified BFEs:

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 300 feet upstream of Power Road	1,334	None
Approximately 150 feet downstream of Germann Road	1,356	None

*Referenced to the National Geodetic Vertical Datum, rounded to the nearest whole foot

Public notification of the modified BFEs will be given in the *Mesa Tribune* on or about October 20 and October 27, 1999. A copy of this notification is enclosed. In addition, a notice of changes will be published in the *Federal Register*. Within 90 days of the second publication in the *Mesa Tribune*, a citizen may request that FEMA reconsider the determination made by this LOMR. Any request for reconsideration must be based on scientific or technical data. All interested parties are on notice that, until the 90-day period elapses, the determination to modify the BFEs presented in this LOMR may itself be modified.

Because this LOMR will not be printed and distributed to primary users, such as local insurance agents and mortgage lenders, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR throughout the community, so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information. We also encourage you to prepare a related article for publication in your community's local newspaper. This article should describe the assistance that officials of your community will give to interested persons by providing these data and interpreting the NFIP maps.

We are processing a revised FIRM and Flood Insurance Study (FIS) report for Maricopa County and Incorporated Areas; therefore, we will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the FIRM and FIS report were submitted to your community for review on December 23, 1997. Revised preliminary copies of the FIRM and FIS report were submitted to your community for review on May 29, 1998. We will incorporate the modifications made by this LOMR into the FIRM and FIS report before they become effective.

This LOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development, and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

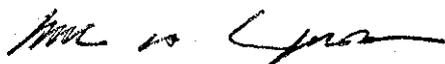
The basis of this LOMR is, in whole or in part, a channel-modification/culvert project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the modified channel and culvert rests with your community.

This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria are the minimum requirements and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM to which the regulations apply and the modifications described in this LOMR.

FEMA makes flood insurance available in participating communities; in addition, we encourage communities to develop their own loss reduction and prevention programs. Our Project Impact initiative, developed by FEMA Director James Lee Witt, seeks to focus the energy of businesses, citizens, and communities in the United States on the importance of reducing their susceptibility to the impact of all natural disasters, including floods, hurricanes, severe storms, earthquakes, and wildfires. Natural hazard mitigation is most effective when it is planned for and implemented at the local level, by the entities who are most knowledgeable of local conditions and whose economic stability and safety are at stake. For your information, we are enclosing a Project Impact Fact Sheet. For additional information on Project Impact, please visit our Web site at www.fema.gov.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in San Francisco, California, at (415) 923-7177. If you have any technical questions regarding this LOMR, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,



Max H. Yuan, P.E., Project Engineer
Hazards Study Branch
Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

Enclosure(s)

cc: The Honorable Cynthia Dunham
Mayor, Town of Gilbert

The Honorable Mark Schnepf
Mayor, Town of Queen Creek

The Honorable Fulton Brock
Chairman, Maricopa County
Board of Supervisors

Mr. Bill Jenkins
State Coordinator, NFIP
Arizona Department of Water Resources

Hasan Mushtaq, Ph.D., P.E. ✓
Engineering Division
Flood Control District
of Maricopa County

Mr. Keith Nath, P.E.
City Engineer
City of Mesa

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF MESA, MARICOPA COUNTY, ARIZONA, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On December 3, 1993, the Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in the City of Mesa, Maricopa County, Arizona, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Directorate has determined that modification of the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for certain locations in this community is appropriate. The modified base flood elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

A hydraulic analysis was performed to incorporate new hydrology and construction of Rittenhouse Road Channel from Ellsworth Road to the confluence with the East Maricopa Floodway and has resulted in a decrease in SFHA width and removal of BFEs for the flooding along the Southern Pacific Railroad from Ocotillo Road to the confluence with the East Maricopa Floodway. The aforementioned channel contains the base flood. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding source(s) cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 300 feet upstream of Power Road	1,334	None
Approximately 150 feet downstream of Germann Road	1,356	None

*National Geodetic Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Directorate must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Directorate reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Directorate's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Wayne Brown
Mayor, City of Mesa
P.O. Box 1466
Mesa, Arizona 85211-1466



Federal Emergency Management Agency

Washington, D.C. 20472

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Cynthia Dunham
Mayor, Town of Gilbert
1025 South Gilbert Road
Gilbert, AZ 85296

IN REPLY REFER TO:
Case No.: 99-09-509P

Community: Town of Gilbert, Arizona
Community No.: 040044
Panels Affected: 04013C2690 F and 2695 F
Effective Date of **SEP 28 1999**
This Revision:

102-D-A

Dear Mayor Dunham:

This responds to a request that the Federal Emergency Management Agency (FEMA) revise the effective Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas (the effective FIRM for your community), in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated February 17, 1999, Hasan Mushtaq, Ph.D, P.E., Engineering Division, Flood Control District of Maricopa County, requested that FEMA revise the FIRM to show the effects of new hydrology and construction of Rittenhouse Road Channel from Ellsworth Road to the confluence with the East Maricopa Floodway.

All data required to complete our review of this request were submitted with letters from Dr. Mushtaq.

We have completed our review of the submitted data and the flood data shown on the effective FIRM. We have revised the FIRM to modify the elevations and floodplain boundary delineations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for the flooding along the Southern Pacific Railroad from Ocotillo Road to the confluence with the East Maricopa Floodway. As a result of the modifications, the base flood elevations (BFEs) for the flooding along the Southern Pacific Railroad were removed, and the width of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, decreased. The base flood is contained in Rittenhouse Road Channel. The modifications are shown on the enclosed annotated copies of FIRM Panel(s) 04013C2690 F and 04013C2695 F. This Letter of Map Revision (LOMR) hereby revises the above-referenced panel(s) of the effective FIRM dated December 3, 1993.

Because this revision request also affects the City of Mesa, the Town of Queen Creek, and the unincorporated areas of Maricopa County, separate LOMRs for those communities were issued on the same date as this LOMR.

The modifications are effective as of the date shown above. The map panel(s) as listed above and as modified by this letter will be used for all flood insurance policies and renewals issued for your community.

The following table is a partial listing of existing and modified BFEs:

Location	Existing BFE (feet)*	Modified BFE (feet)*
Just upstream of confluence with East Maricopa Floodway	1,322	None
Just downstream of Power Road	1,332	None

*Referenced to the National Geodetic Vertical Datum, rounded to the nearest whole foot

Public notification of the modified BFEs will be given in the *Tribune Newspapers* on or about October 20 and October 27, 1999. A copy of this notification is enclosed. In addition, a notice of changes will be published in the *Federal Register*. Within 90 days of the second publication in the *Tribune Newspapers*, a citizen may request that FEMA reconsider the determination made by this LOMR. Any request for reconsideration must be based on scientific or technical data. All interested parties are on notice that, until the 90-day period elapses, the determination to modify the BFEs presented in this LOMR may itself be modified.

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We are processing a revised FIRM and Flood Insurance Study (FIS) report for Maricopa County and Incorporated Areas; therefore, we will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the FIRM and FIS report were submitted to your community for review on December 23, 1997. Revised preliminary copies of the FIRM and FIS report were submitted to your community for review on May 29, 1998. We will incorporate the modifications made by this LOMR into the FIRM and FIS report before they become effective.

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This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C.

4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria are the minimum requirements and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM to which the regulations apply and the modifications described in this LOMR.

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If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in San Francisco, California, at (415) 923-7177. If you have any technical questions regarding this LOMR, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,



Max H. Yuan, P.E., Project Engineer
Hazards Study Branch
Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

Enclosure(s)

cc: The Honorable Wayne Brown
Mayor, City of Mesa

The Honorable Mark Schnepf
Mayor, Town of Queen Creek

The Honorable Fulton Brock
Chairman, Maricopa County
Board of Supervisors

Mr. Bill Jenkins
State Coordinator, NFIP
Arizona Department of Water Resources

Hasan Mushtaq, Ph.D., P.E. ✓
Engineering Division
Flood Control District
of Maricopa County

Mr. Lonnie Frost
Floodplain Administrator
Town of Gilbert

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE TOWN OF GILBERT AND THE UNINCORPORATED AREAS OF MARICOPA COUNTY, ARIZONA, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On December 3, 1993, the Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in the Town of Gilbert, Maricopa County, Arizona, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Directorate has determined that modification of the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for certain locations in this community is appropriate. The modified base flood elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

A hydraulic analysis was performed to incorporate new hydrology and construction of Rittenhouse Road Channel from Ellsworth Road to the confluence with the East Maricopa Floodway and has resulted in a decrease in SFHA width and removal of BFEs for the flooding along the Southern Pacific Railroad from Ocotillo Road to the confluence with the East Maricopa Floodway. The aforementioned channel contains the base flood. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding source(s) cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Just upstream of confluence with East Maricopa Floodway	1,322	None
Just downstream of Power Road	1,332	None

*National Geodetic Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Directorate must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Directorate reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Directorate's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Cynthia Dunham
Mayor, Town of Gilbert
1025 South Gilbert Road
Gilbert, Arizona 85296



Federal Emergency Management Agency

Washington, D.C. 20472

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 99-09-509P

The Honorable Fulton Brock
Chairman, Maricopa County
Board of Supervisors
301 West Jefferson, 10th Floor
Phoenix, AZ 85003

Community: Maricopa County, Arizona
Community No.: 040037
Panels Affected: 04013C2695 F, 2715 F, and
3080 F
Effective Date of **SEP 28 1999**
This Revision:

102-D-A

Dear Mr. Brock:

This responds to a request that the Federal Emergency Management Agency (FEMA) revise the effective Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas (the effective FIRM for your community), in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated February 17, 1999, Hasan Mushtaq, Ph.D, P.E., Engineering Division, Flood Control District of Maricopa County, requested that FEMA revise the FIRM to show the effects of new hydrology and construction of Rittenhouse Road Channel from Ellsworth Road to the confluence with the East Maricopa Floodway.

All data required to complete our review of this request were submitted with letters from Dr. Mushtaq.

We have completed our review of the submitted data and the flood data shown on the effective FIRM. We have revised the FIRM to modify the elevations and floodplain boundary delineations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for the flooding along the Southern Pacific Railroad from Ocotillo Road to the confluence with the East Maricopa Floodway. As a result of the modifications, the base flood elevations (BFEs) for the flooding along the Southern Pacific Railroad were removed, and the width of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, decreased. The base flood is contained in Rittenhouse Road Channel. The modifications are shown on the enclosed annotated copies of FIRM Panel(s) 04013C2695 F, 04013C2715 F, and 04013C3080 F. Although the revised areas are shown on the effective FIRM as within the Town of Queen Creek and the City of Mesa, some affected areas are actually under the jurisdiction of Maricopa County. This Letter of Map Revision (LOMR) hereby revises the above-referenced panel(s) of the effective FIRM dated December 3, 1993.

Because this revision request also affects the City of Mesa and the Towns of Gilbert and Queen Creek, separate LOMRs for those communities were issued on the same date as this LOMR.

The modifications are effective as of the date shown above. The map panel(s) as listed above and as modified by this letter will be used for all flood insurance policies and renewals issued for your community.

The following table is a partial listing of existing and modified BFEs:

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 300 feet upstream of Power Road	1,334	None
Approximately 700 feet downstream of Ocotillo Road	1,411	None

*Referenced to the National Geodetic Vertical Datum, rounded to the nearest whole foot

Public notification of the modified BFEs will be given in the *Arizona Republic* on or about October 20 and October 27, 1999. A copy of this notification is enclosed. In addition, a notice of changes will be published in the *Federal Register*. Within 90 days of the second publication in the *Arizona Republic*, a citizen may request that FEMA reconsider the determination made by this LOMR. Any request for reconsideration must be based on scientific or technical data. All interested parties are on notice that, until the 90-day period elapses, the determination to modify the BFEs presented in this LOMR may itself be modified.

Because this LOMR will not be printed and distributed to primary users, such as local insurance agents and mortgage lenders, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR throughout the community, so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information. We also encourage you to prepare a related article for publication in your community's local newspaper. This article should describe the assistance that officials of your community will give to interested persons by providing these data and interpreting the NFIP maps.

We are processing a revised FIRM and Flood Insurance Study (FIS) report for Maricopa County and Incorporated Areas; therefore, we will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the FIRM and FIS report were submitted to your community for review on December 23, 1997. Revised preliminary copies of the FIRM and FIS report were submitted to your community for review on May 29, 1998. We will incorporate the modifications made by this LOMR into the FIRM and FIS report before they become effective.

This LOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development, and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

The basis of this LOMR is, in whole or in part, a channel-modification/culvert project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the modified channel and culvert rests with your community.

This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria are the minimum requirements and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM to which the regulations apply and the modifications described in this LOMR.

FEMA makes flood insurance available in participating communities; in addition, we encourage communities to develop their own loss reduction and prevention programs. Our Project Impact initiative, developed by FEMA Director James Lee Witt, seeks to focus the energy of businesses, citizens, and communities in the United States on the importance of reducing their susceptibility to the impact of all natural disasters, including floods, hurricanes, severe storms, earthquakes, and wildfires. Natural hazard mitigation is most effective when it is planned for and implemented at the local level, by the entities who are most knowledgeable of local conditions and whose economic stability and safety are at stake. For your information, we are enclosing a Project Impact Fact Sheet. For additional information on Project Impact, please visit our Web site at www.fema.gov.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in San Francisco, California, at (415) 923-7177. If you have any technical questions regarding this LOMR, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,



Max H. Yuan, P.E., Project Engineer
Hazards Study Branch
Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

Enclosure(s)

cc: The Honorable Cynthia Dunham
Mayor, Town of Gilbert

The Honorable Wayne Brown
Mayor, City of Mesa

The Honorable Mark Schnepf
Mayor, Town of Queen Creek

Mr. Bill Jenkins
State Coordinator, NFIP
Arizona Department
of Water Resources

Hasan Mushtaq, Ph.D., P.E. ✓
Engineering Division
Flood Control District
of Maricopa County

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE TOWN OF QUEEN CREEK AND THE UNINCORPORATED AREAS OF MARICOPA COUNTY, ARIZONA, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On December 3, 1993, the Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in the Town of Queen Creek and the unincorporated areas of Maricopa County, Arizona, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Directorate has determined that modification of the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for certain locations in these communities is appropriate. The modified base flood elevations (BFEs) revise the FIRM for the communities.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

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Location	Existing BFE (feet)*	Modified BFE (feet)*
² Approximately 300 feet upstream of Power Road	1,334	None
¹ Approximately 1,250 feet upstream of Germann Road	1,360	None
^{1,2} Approximately 700 feet downstream of Ocotillo Road	1,411	None

*National Geodetic Vertical Datum, rounded to nearest whole foot

¹Town of Queen Creek

²Unincorporated areas of Maricopa County

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Directorate must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Directorate reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Directorate's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Mark Schnepf
Mayor, Town of Queen Creek
22350 South Ellsworth Road
Queen Creek, Arizona 85242

OR

The Honorable Fulton Brock
Chairman, Maricopa County
Board of Supervisors
301 West Jefferson, 10th Floor
Phoenix, Arizona 85003



Federal Emergency Management Agency

Washington, D.C. 20472

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Mark Schnepf
Mayor, Town of Queen Creek
22350 South Ellsworth Road
Queen Creek, AZ 85242

IN REPLY REFER TO:
Case No.: 99-09-509P

Community: Town of Queen Creek, Arizona
Community No.: 040132
Panels Affected: 04013C2695 F, 2715 F, and
3080 F

Effective Date of **SEP 28 1999**
This Revision:

102-D-A

Dear Mayor Schnepf:

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We have completed our review of the submitted data and the flood data shown on the effective FIRM. We have revised the FIRM to modify the elevations and floodplain boundary delineations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for the flooding along the Southern Pacific Railroad from Ocotillo Road to the confluence with the East Maricopa Floodway. As a result of the modifications, the base flood elevations (BFEs) for the flooding along the Southern Pacific Railroad were removed, and the width of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, decreased. The base flood is contained in Rittenhouse Road Channel. The modifications are shown on the enclosed annotated copies of FIRM Panel(s) 04013C2695 F, 04013C2715 F, and 04013C3080 F. This Letter of Map Revision (LOMR) hereby revises the above-referenced panel(s) of the effective FIRM dated December 3, 1993.

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Sincerely,



Max H. Yuan, P.E., Project Engineer
Hazards Study Branch
Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

Enclosure(s)

cc: The Honorable Cynthia Dunham
Mayor, Town of Gilbert

The Honorable Wayne Brown
Mayor, City of Mesa

The Honorable Fulton Brock
Chairman, Maricopa County
Board of Supervisors

Mr. Bill Jenkins
State Coordinator, NFIP
Arizona Department of Water Resources

Hasan Mushtaq, Ph.D., P.E. ✓
Engineering Division
Flood Control District
of Maricopa County

Mr. Richard Shaner, P.E.
Town Engineer
Town of Queen Creek

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE TOWN OF QUEEN CREEK AND THE UNINCORPORATED AREAS OF MARICOPA COUNTY, ARIZONA, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

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*National Geodetic Vertical Datum, rounded to nearest whole foot

¹Town of Queen Creek

²Unincorporated areas of Maricopa County

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Directorate must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

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Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Mark Schnepf
Mayor, Town of Queen Creek
22350 South Ellsworth Road
Queen Creek, Arizona 85242

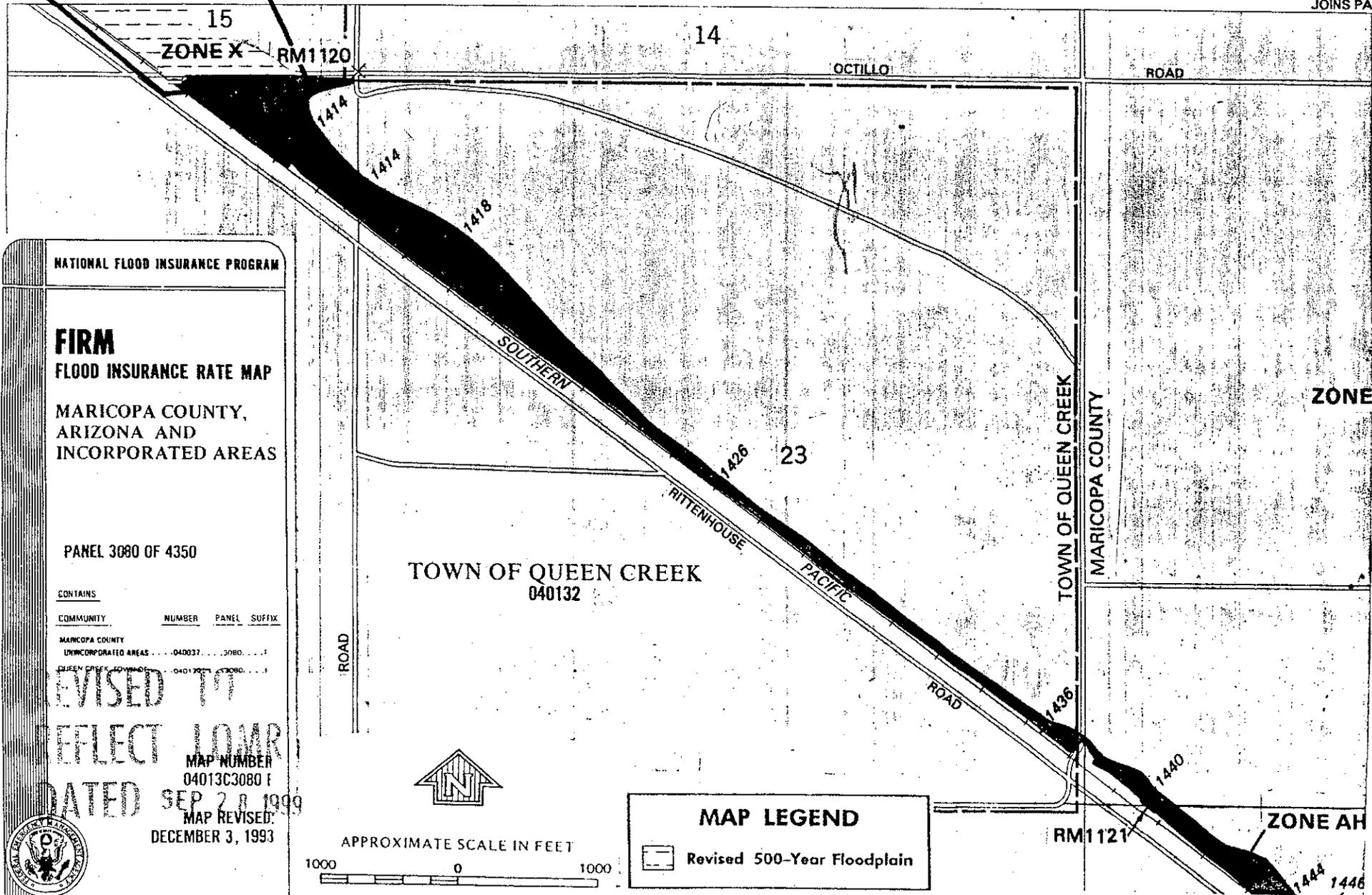
OR

The Honorable Fulton Brock
Chairman, Maricopa County
Board of Supervisors
301 West Jefferson, 10th Floor
Phoenix, Arizona 85003

REVISED AREA

JOINS PANEL 2715

JOINS PA



NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

MARICOPA COUNTY,
ARIZONA AND
INCORPORATED AREAS

PANEL 3080 OF 4350

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
MARICOPA COUNTY			
UNINCORPORATED AREAS	040037	3080	F
QUEEN CREEK, TOWN OF	040130	3080	F

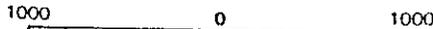
REVISED TO
REFLECT LOWER
MAP NUMBER
0401303080 F
DATED SEP 28 1999
MAP REVISED:
DECEMBER 3, 1993



Federal Emergency Management Agency

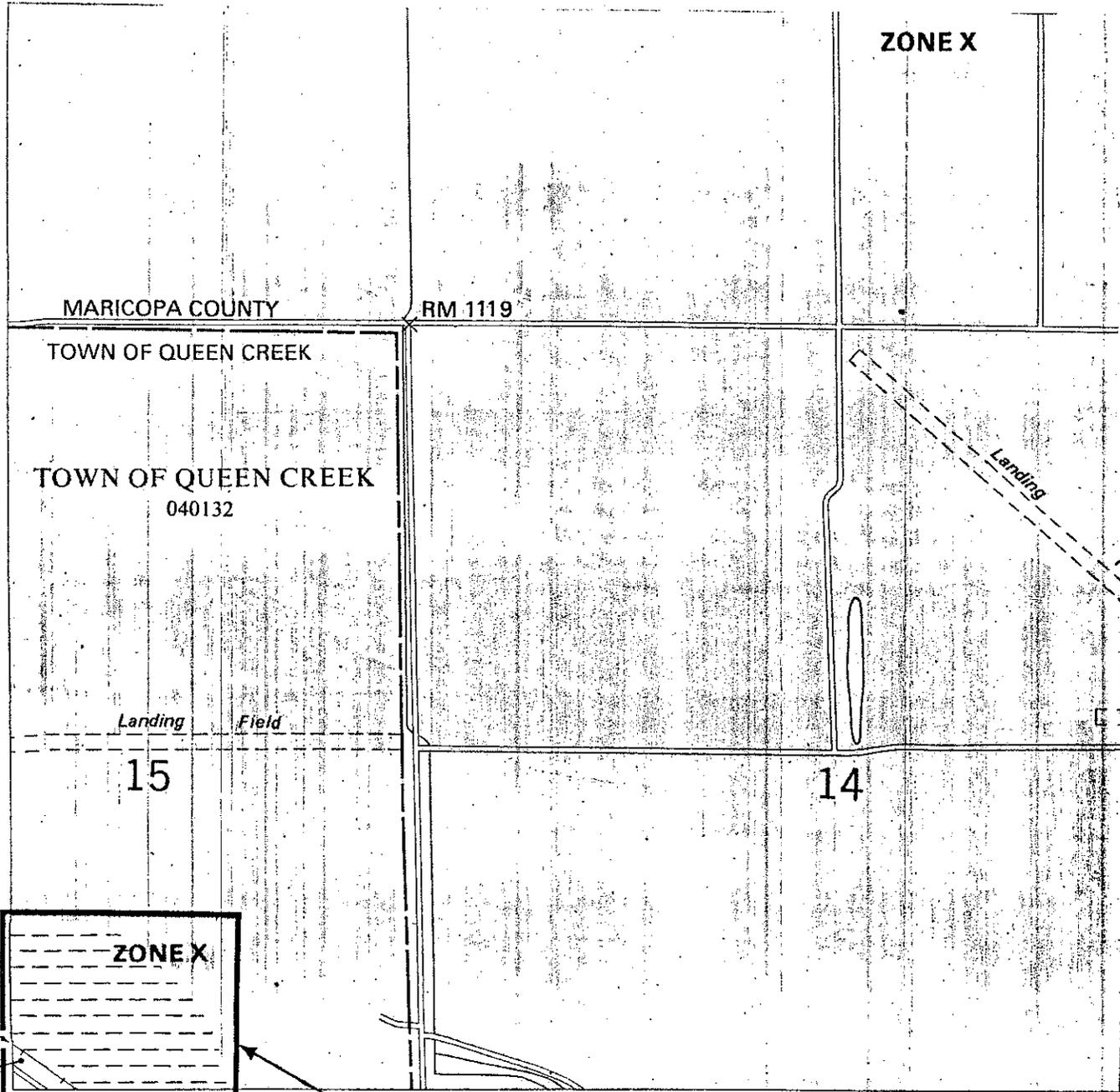


APPROXIMATE SCALE IN FEET



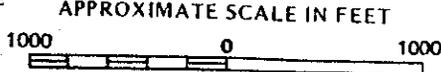
MAP LEGEND

 Revised 500-Year Floodplain



MAP LEGEND

Revised 500-Year Floodplain



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

MARICOPA COUNTY,
ARIZONA AND
INCORPORATED AREAS

PANEL 2715 OF 4350

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
MARICOPA COUNTY	540037	2715	E
INCORPORATED AREAS	540048	2715	E
UNINCORPORATED AREAS	040132	2715	E

REVISED TO REFLECT LOMR DATED

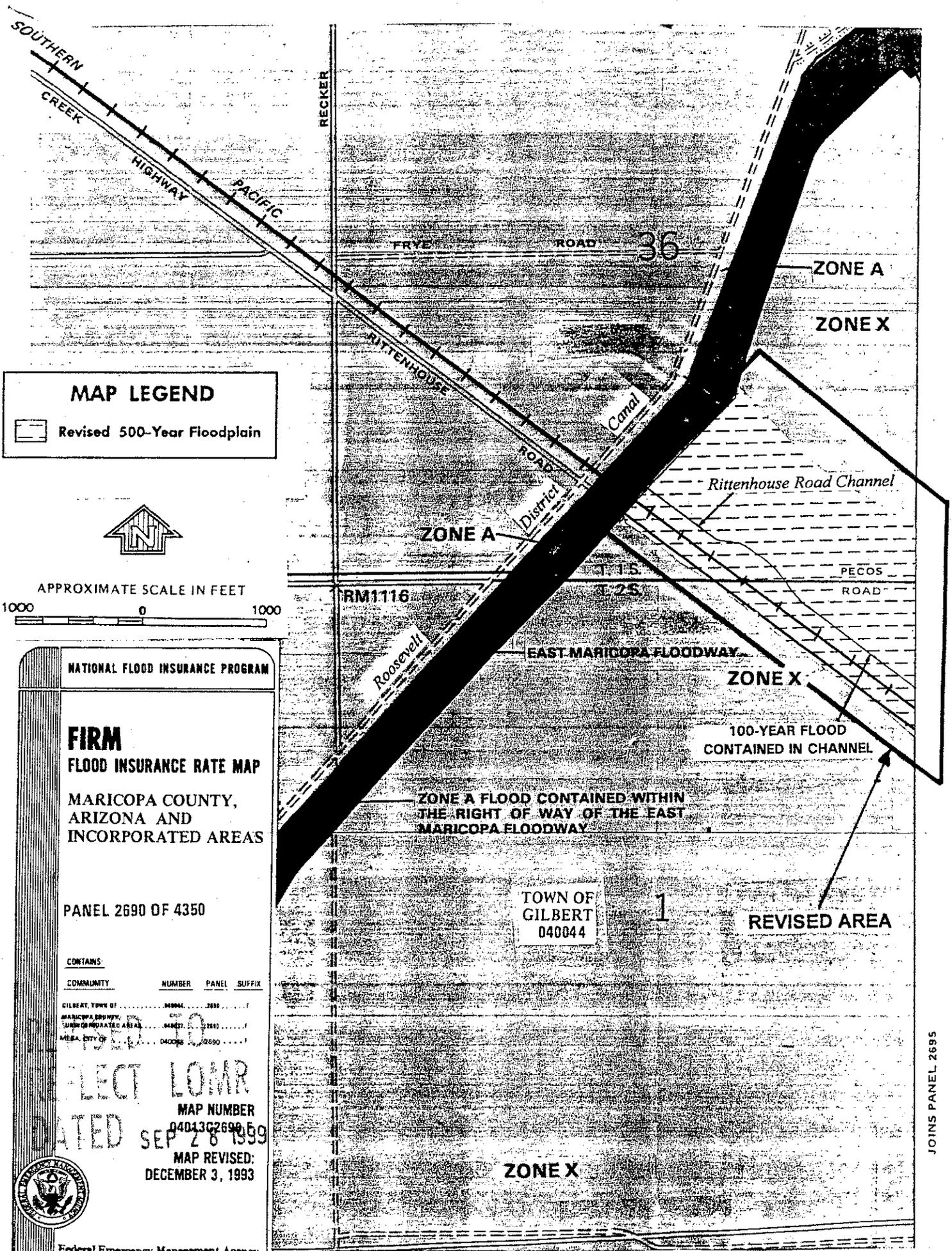
MAP NUMBER
04013C2715 E

SEP 28 1999
MAP REVISED
DECEMBER 3, 1993

Federal Emergency Management Agency

SOUTHERN PACIFIC

ZONE X



MAP LEGEND

Revised 500-Year Floodplain



APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

MARICOPA COUNTY,
ARIZONA AND
INCORPORATED AREAS

PANEL 2690 OF 4350

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GILBERT, TOWN OF	040044	2690	F
MARICOPA COUNTY, UNINCORPORATED AREAS	040044	2690	F
MESA, CITY OF	040044	2690	F

SELECT LOWR

MAP NUMBER
0401302690

DATED SEP 28 1999

MAP REVISED:
DECEMBER 3, 1993

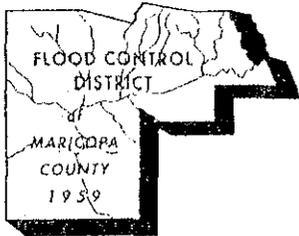
Federal Emergency Management Agency

TOWN OF
GILBERT
040044

1

REVISED AREA

JOINS PANEL 2695



FLOOD CONTROL DISTRICT
of
Maricopa County

2801 West Durango Street • Phoenix, Arizona 85009-6399
Telephone (602) 506-1501
Fax (602) 506-4601
TT (602) 506-5897

BOARD OF DIRECTORS
Jan Brewer
Fulton Brock
Andrew Kunasek
Don Stapley
Mary Rose Garrido Wilcox

August 4, 1999

Michael Baker Jr., Inc.
Attn: James Stitzel, P.E.
3601 Eisenhower Avenue, Suite 600
Alexandria, VA 22304

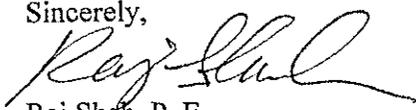
Subject: Rittenhouse Road Drainage Channel, Case No. 99-09-509P
Flooding Source: Flooding along Southern Pacific Railroad
FIRM: 04013C2690 F 2695 F

Dear Mr. Stitzel:

Please find enclosed report entitled Master Drainage Study for Chuparosa Development that was approved by Town of Queen Creek for the area west of Rittenhouse Road. The subject flows coming out of the pipe culverts (under the Railroad) crosses the pipe culverts under the Rittenhouse Road and will flow into the proposed channel constructed by the Chuparosa Development and drain into the Queen Creek Wash. The channel will be constructed by the developer in advance of any other improvements. Please return the report after you have completed the review. If necessary, feel free to copy any information you would need for your files.

Please call me if you have any questions or comments.

Sincerely,


Raj Shah, P. E.
Project Manager

cc: Dick Schaner, P.E., Town Engineer



Federal Emergency Management Agency

Washington, D.C. 20472

FLOOD CONTROL DISTRICT	
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CHENG	P & PM
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FINANCE	CONTRACT
O & M	FILE
<input checked="" type="checkbox"/> ENGR	HSM
REMARKS	

April 15, 1999

Hasan Mushtaq, Ph.D., P.E.
Engineering Division
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009-6399

IN REPLY REFER TO:
Case No.: 99-09-509P
Communities: Towns of Gilbert and Queen
Creek, City of Mesa, and
Maricopa County, Arizona
Community Nos.: 040044, 040132, 040048,
and 040037

316-ACK.FRQ

Dear Dr. Mushtaq:

This responds to your letter received April 13, 1999, concerning a February 17, 1999, request that the Federal Emergency Management Agency (FEMA) issue a revision to the Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas. Pertinent information about the request is listed below.

Identifier:	Rittenhouse Road Channel
Flooding Source:	Flooding along Southern Pacific Railroad
FIRM Panel(s) Affected:	04013C2690 F and 2695 F

We have completed an inventory of the items that you submitted. We have received the data and the review and processing fee (\$3,700) required to begin a detailed technical review of your request. If additional data are required, we will inform you within 30 days of the date of this letter.

Please direct all questions concerning your request to our Technical Evaluation Contractor at the following address:

Michael Baker Jr., Inc.
3601 Eisenhower Avenue, Suite 600
Alexandria, Virginia 22304

Attention: Ms. Pernille Buch-Pedersen
(703) 317-6224

When you write us about your request, you must include the case number referenced above in your letter.

If you have any questions concerning FEMA policy, or the National Flood Insurance Program in general, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,

Matthew B. Miller

Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

cc: Mr. Richard Shaner, P.E.
Town Engineer
Town of Queen Creek

Mr. Lonnie Frost
Floodplain Administrator
Town of Gilbert

Mr. Keith Nath, P.E.
City Engineer, City of Mesa



**Need Information on
FEMA FLOOD HAZARD MAPS?
CONTACT 1-877-FEMA MAP
(Toll Free 1-877-336-2627)**



This release is intended to acquaint the public with the Federal Emergency Management Agency's new toll-free number established to respond to questions regarding National Flood Insurance Program (NFIP) Flood Hazard maps, including:

- How do I go about getting a Letter of Map Amendment (LOMA)? A Letter of Map Revision Based on Fill (LOMR-F)? A Letter of Map Revision (LOMR)?
- What is the status of my request for a LOMA? LOMR-F? Study?
- How long does it take to get the map revised?
- Did FEMA receive my request for a Letter of Map Amendment?
- I was just told by my lender that my house is in a floodplain and I need flood insurance, what are my options?
- Was a LOMA ever issued for my property?
- Has the National Flood Insurance Program Flood Hazard map for my community been revised?

The following procedures have been established by FEMA for changing and correcting the NFIP Flood Hazard maps. They are: Letters of Map Amendment (LOMAs), Letters of Map Revision (LOMRs), Letters of Map Revision Based on Fill (LOMR-Fs), and Physical Map Revisions.

As a result of numerous requests for revisions or corrections to the NFIP Flood Hazard maps, FEMA has assigned a dedicated staff of trained professionals to respond to the public's requests for information on the procedures to revise or correct the NFIP Flood Hazard maps.

If you have any questions regarding the NFIP Flood Hazard maps or need current information and facts on FEMA Mapping Procedures, call 1-877-FEMA-MAP.

Below are additional Toll-Free numbers that can be used to obtain other information regarding the NFIP and its products.

- For information about the NFIP's Preferred Risk Policy, ask your insurance agent or company, or call the NFIP's toll-free number at 1-800-427-9662.
- For any current FEMA publications, call FEMA's Publication Center at 1-800-480-2520.
- For answers to flood insurance related questions, call the National Flood Insurance Telephone Response Center at 1-800-427-4661.
- For ordering printed copies of effective NFIP Flood Hazard maps and related documents, call the FEMA Map Service Center at 1-800-358-9616.

Additional information on flood insurance and other FEMA programs and activities is available on the FEMA World Wide Web Site (<http://www.FEMA.gov>) and from FEMA's 24-hour-FAX-on-Demand system at (202) 646-FEMA. TDD# 1-800-427-5593.



Federal Emergency Management Agency

Washington, D.C. 20472

FLOOD CONTROL DISTRICT	
RECEIVED	
MAR 11 1999	
CHENG	
PIO	
ADMIN	
FINANCE	
O & M	
<input checked="" type="checkbox"/> ENGR	
REMARKS	HSM

March 5, 1999

Hasan Mushtaq, Ph.D., P.E.
 Engineering Division
 Flood Control District
 of Maricopa County
 2801 West Durango Street
 Phoenix, AZ 85009-6399

IN REPLY REFER TO:

Case No.: 99-09-509P

Communities: Towns of Gilbert and Queen
 Creek, City of Mesa, and
 Maricopa County, Arizona

Community Nos: 040044, 040132, 040048,
 and 040037

316-ACK.FRQ

Dear Dr. Mushtaq:

This responds to your request dated February 17, 1999, that the Federal Emergency Management Agency (FEMA) issue a revision to the Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas. Pertinent information about the request is listed below.

Identifier:	Rittenhouse Road Channel
Flooding Source:	Flooding along Southern Pacific Railroad
FIRM Panel(s) Affected:	04013C2690 F and 2695 F

To minimize the financial burden on the policyholders while maintaining the National Flood Insurance Program (NFIP) as self-sustaining, FEMA implemented a procedure to recover costs associated with reviewing and processing requests for modifications to published flood information and maps. Effective October 1, 1996, FEMA revised the fee schedule, establishing flat review and processing fees for most types of requests. Effective March 10, 1997, FEMA modified the fee schedule that became effective on October 1. A copy of the notice published in the *Federal Register* is enclosed for your information. The fee for your request is \$3,700, and must be submitted before we can continue processing your request. Payment of this fee must be made in the form of a check or money order, made payable in U.S. funds to the National Flood Insurance Program, or credit card payment. For identification purposes, the case number referenced above must be included on the check or money order. We will not perform a detailed technical review of your request until payment is received.

Payment must be forwarded to one of the addresses listed below.

Using U.S. Postal Service:
 Federal Emergency Management Agency
 Fee-Collection System Administrator
 P.O. Box 3173
 Merrifield, VA 22116-3173

Using overnight service:
 Fee-Collection System Administrator
 c/o Dewberry & Davis, METS Division
 8401 Arlington Boulevard
 Fairfax, VA 22031

We have completed an inventory of the items that you submitted. The items identified below are required before we can begin a detailed review of your request.

- Please submit all backup information for the discharges used in the hydraulic analysis, including the relevant portions of the report entitled "Final Conceptual Design Report for Rittenhouse Road

Channel from Signal Butte Road to the East Maricopa Floodway, FCD Contract No. 92-13," prepared by Gannett Fleming, Inc., dated 1993.

If all required items are not submitted within 90 days of the date of this letter, we will treat any subsequent request as an original submittal, and it will be subject to all submittal/payment procedures.

If you are unable to meet the 90-day deadline for submittal of required items, and would like FEMA to continue processing your request, you must request an extension of the deadline. This request must be submitted to our Technical Evaluation Contractor in writing and must provide (1) the reason why the data cannot be submitted within the requested timeframe, and (2) a new date for the submittal of the data. We receive a very large volume of requests and cannot maintain inactive requests for an indefinite period of time. Therefore, the fees will be forfeited for any request for which neither the requested data nor a written extension request is received within 90 days.

Please direct all required items (except the required fee) and questions concerning your request to our Technical Evaluation Contractor at the following address:

Michael Baker Jr., Inc.
3601 Eisenhower Avenue, Suite 600
Alexandria, Virginia 22304

Attention: Ms. Pernille Buch-Pedersen
(703) 317-6224

When you write us about your request, you must include the case number referenced above in your letter.

If you have any questions concerning FEMA policy, or the NFIP in general, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,

Matthew B. Miller

Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

Enclosure(s)

cc: Mr. Richard Shaner, P.E.
Town Engineer
Town of Queen Creek

Mr. Lonnie Frost
Floodplain Administrator
Town of Gilbert

Mr. Keith Nath, P.E.
City Engineer, City of Mesa

FEDERAL EMERGENCY MANAGEMENT AGENCY ANNOUNCES CHANGES IN USER FEES FOR FLOOD MITIGATION PRODUCTS

Through a Notice published in the *Federal Register* on January 11, 1999, the Federal Emergency Management Agency (FEMA) announced its intent to change the fee schedule for several of the products it provides to the public in support of the National Flood Insurance Program (NFIP). These changes are being made to ensure full reimbursement to FEMA of the funds that are actually expended in reviewing and processing requests for Conditional and Final Map Revisions.

Effective March 1, 1999, the fee schedule for requests for Conditional Letters of Map Revision (CLOMRs) and Final Map Revisions--Letters of Map Revision (LOMRs) and Physical Map Revisions (PMRs)--is as follows:

Fee Schedule for CLOMR Requests

Request based on new hydrology, bridge, culvert, channel, or combination thereof	\$3,100
Request based on levee, berm, or other structural measure	\$4,000

Fee Schedule for LOMR and PMR Requests

Request based on bridge, culvert, channel, or combination thereof	\$4,000
Request based on levee, berm, or other structural measure	\$4,700
Request based on as-built information submitted as followup to CLOMR	\$3,400
Request based solely on submission of more detailed data	\$3,100

The Notice that appeared in the January 11 edition of the *Federal Register* may be obtained electronically from the National Archives and Records Administration site on the World Wide Web (http://www.access.gpo.gov/su_docs/fedreg/a990111c.html). Interested persons who do not have access to the Internet may obtain paper copies of the Notice, free of charge, by calling the FEMA Map Assistance Center at 1-877-336-2627 (FEMAMAP).

with FEMA functional and program activities funded under Performance Partnership Agreements with State and local governments.

SUPPLEMENTARY INFORMATION: Cooperative Agreements under Performance Partnership Agreements (PPA), will be the vehicle for achieving the Federal Emergency Management Agency's (FEMA's) Strategic goal of establishing in concert with its partners, a national emergency management system that is comprehensive, risk-based and all hazards in approach. It focuses on integrating and achieving Federal and State goals and objectives for the four broad emergency management functions: Mitigation (risk reduction), preparedness (operational readiness), response (emergency) operations, and recovery operations. The PPA also carries out FEMA

initiatives relative to national emergency management goals (e. g., the National Mitigation Strategy) and pulls into a single document all FEMA and State memoranda of understanding and agreements.

Collection of Information

Title: Financial and Technical Assistance Under Performance Partnership Agreements.

Type of Information Collection: Revision of currently approved collection.

OMB Number: 3067-0206.

Form Numbers: SF 424, Application for Federal Assistance; Indirect Cost Agreement; FF 20-20, Budget Information—Nonconstruction; FF 20-22, Narrative Statement; FF 20-15, Budget Information—Construction Projects; FF 20-16, Assurances; FF 76-

10a, Obligating Document for Awards/ Amendments; FF 20-19, Report of Unobligated Balance of Federal Funds, Drawdowns, and Undrawn funds; FF 20-10, Financial Status Report; FF 20-17, Outlay Report and Request for Reimbursement for Construction Programs; FF 20-18, Report of Government Property; SF-SAC, Data Collection form for Reporting on Audits.

Abstract: The collection of information focuses on Standard and FEMA forms associated with financial and administrative reporting and recordkeeping requirements that enables State and Local governments to request from FEMA federal financial and technical assistance through Performance Partnership Agreements.

Affected Public: State, Local or Tribal Governments.

FEMA/forms and other reporting	No. of respondents (A)	Frequency of response (B)	Hours Per response (C)	Annual Reporting Hours (A×B×C)	Record-keeping burden hours
FF20-10 Financial Status Report	56	20	9.8	10976	11200
FF 20-15 Budget Information Construction Program	56	5	17	4760	4816
FF20-16 Summary Sheet for Assurance and Certification	56	1	1.5	84	95.2
FF 20-17 Outlay Report and Request for Reimbursement for Construction	56	15	17	14280	144488
FF 20-18 Report of Government Property	56	2	6	672	694.4
FF20-19 Report of Unobligated Balance of Federal Funds	56	20	2	2240	2464
FF20-20NC Budget Information Non Construction	56	10	9.8	5488	5600
FF20-22 Narrative Form	56	5	8	2240	2296
FF-20-22NC Performance Report	56	2	8	896	918.4
FF-20-22C Performance Report	56	5	8	2240	2296
FF-20-22NC Narrative Non-Construction	56	2	8	896	918.4
FF-76-10A Obligating the Document for Award	56	2	1.5	168	190.4
SF-424 Application for Federal Assistance	56	1	2	112	123.2
Reading and Understanding	56	1	12	672	683.2
Indirect Cost Agreement	56	2	50	5600	5622.4
Budget Deviations	56	2	5.8	649.4	672
SF-Data Collection	56	2	30	3360	3382.4

Estimated Total Annual Burden and Recordkeeping Hours. 69,277.6.
Estimated Cost. \$400,000.00.

Comments

Written comments are solicited to (a) evaluate whether the proposed data collection is necessary for the proper performance of the agency, including whether the information shall have practical utility; (b) evaluate the accuracy of the agency's estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used; (c) enhance the quality, utility, and clarity of the information to be collected; and (d) minimize the burden of the collection of information on those who are to respond, including through the use of appropriate automated,

electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses. Comments should be received within 60 days of the date of this notice.

ADDRESSES: Interested persons should submit written comments to Muriel B. Anderson, FEMA Information Collections Officer, Federal Emergency Management Agency, 500 C Street, SW, Room 316, Washington, DC 20472. Telephone number (202) 646-2625. FAX number (202) 646-3524.

FOR FURTHER INFORMATION CONTACT: Contact Charles F. McNulty, Office of Financial Management, Room 350, Washington D.C., Phone No. (202) 646-2976 for additional information. Contact

Ms. Anderson at (202) 646-2625 for copies of the proposed collection of information.

Dated: December 23, 1998.

Reginald Trujillo,

Director, Program Services Division, Operations Support Directorate.

[FR Doc. 99-525 Filed 1-8-99; 8:45 am]

BILLING CODE 6718-01-P

FEDERAL EMERGENCY MANAGEMENT AGENCY

Fee Schedule for Processing Requests for Map Changes and for Flood Insurance Study Backup Data

AGENCY: Federal Emergency Management Agency (FEMA).

or Flood Boundary and Floodway Map panels

(6) *Category 6*—Computer tapes or CD-ROMs of Digital Line Graph files

(7) *Category 7*—Computer diskettes and user's manuals for our computer programs

You must submit a *non-refundable* fee of \$140, to cover the preliminary costs of research and retrieval, to begin requests for data under Categories 1, 2, and 3. The total costs of processing requests in Categories 1, 2, and 3 above will vary based on the complexity of the research involved in retrieving the data and the volume and medium of data to be reproduced and distributed. The initial fee will be applied against the total costs to process the request, and we will invoice you for the balance before the data are provided. No data will be provided to you until all required fees have been paid.

We do not require an initial fee to begin a request for data under Categories 4 through 7. We will notify you by telephone about the availability of materials and the fees associated with requested data. As with requests for data under Categories 1, 2, and 3, we will not provide any data to you until you pay all required fees.

The costs for processing requests under Categories 4 through 7 have not varied. Therefore, the flat user fees for these categories of requests, shown below, will continue to be required.

	Dollars
Request Under Category 4:	
First letter	40
Each additional letter	10
Request Under Category 5:	
First panel	35
Each additional panel	2
Request Under Category 6 (per county)	150
Request Under Category 7 (per copy)	25

Payment Submission Requirements

You must make fee payments before we render services. You must make these payments by check, by money order, or by credit card payment. Make checks and money orders payable, in U.S. funds, to the *National Flood Insurance Program*.

We will deposit the fees we collect in the National Flood Insurance Fund, which is the source of funding for providing these services.

Dated: January 6, 1999.

Michael J. Armstrong,
Associate Director for Mitigation.

[FR Doc. 99-526 Filed 1-8-99; 8:45 am]

BILLING CODE 6718-04-P

FEDERAL MARITIME COMMISSION

Ocean Freight Forwarder License; Applicants

Notice is hereby given that the following applicants have filed with the Federal Maritime Commission applications for licenses as ocean freight forwarders pursuant to section 19 of the Shipping Act of 1984 (46 U.S.C. app. 1718 and 46 CFR part 510).

Persons knowing of any reason why any of the following applicants should not receive a license are requested to contact the Office of Freight Forwarders, Federal Maritime Commission, Washington, DC 20573.

Empire Shipping Company, Inc., Cargo Building 80, JFK International, Airport, Jamaica, NY 11430, Officer: Helen Duffy, President, Richard Locari, Secretary

Dated: January 5, 1999.

Bryant L. VanBrakle,
Secretary.

[FR Doc. 99-486 Filed 1-8-99; 8:45 am]

BILLING CODE 6730-01-M

FEDERAL RESERVE SYSTEM

Change in Bank Control Notices; Acquisitions of Shares of Banks or Bank Holding Companies

The notificants listed below have applied under the Change in Bank Control Act (12 U.S.C. 1817(j)) and § 225.41 of the Board's Regulation Y (12 CFR 225.41) to acquire a bank or bank holding company. The factors that are considered in acting on the notices are set forth in paragraph 7 of the Act (12 U.S.C. 1817(j)(7)).

The notices are available for immediate inspection at the Federal Reserve Bank indicated. The notices also will be available for inspection at the offices of the Board of Governors. Interested persons may express their views in writing to the Reserve Bank indicated for that notice or to the offices of the Board of Governors. Comments must be received not later than January 25, 1999.

A. Federal Reserve Bank of Minneapolis (JoAnne F. Lewellen, Assistant Vice President) 90 Hennepin Avenue, P.O. Box 291, Minneapolis, Minnesota 55480-0291:

1. *Fred C. Krahmer Irrevocable Trust, and Fred W. Krahmer, as trustee*, both of Fairmont, Minnesota; to acquire voting shares of Truman Bancshares, Inc., Truman, Minnesota, and thereby indirectly acquire voting shares of Peoples State Bank of Truman, Truman, Minnesota.

Board of Governors of the Federal Reserve System, January 5, 1999.

Robert deV. Frierson,
Associate Secretary of the Board.

[FR Doc. 99-471 Filed 1-8-99; 8:45 am]

BILLING CODE 6210-01-F

FEDERAL RESERVE SYSTEM

Formations of, Acquisitions by, and Mergers of Bank Holding Companies

The companies listed in this notice have applied to the Board for approval, pursuant to the Bank Holding Company Act of 1956 (12 U.S.C. 1841 *et seq.*) (BHC Act), Regulation Y (12 CFR Part 225), and all other applicable statutes and regulations to become a bank holding company and/or to acquire the assets or the ownership of, control of, or the power to vote shares of a bank or bank holding company and all of the banks and nonbanking companies owned by the bank holding company, including the companies listed below.

The applications listed below, as well as other related filings required by the Board, are available for immediate inspection at the Federal Reserve Bank indicated. The application also will be available for inspection at the offices of the Board of Governors. Interested persons may express their views in writing on the standards enumerated in the BHC Act (12 U.S.C. 1842(c)). If the proposal also involves the acquisition of a nonbanking company, the review also includes whether the acquisition of the nonbanking company complies with the standards in section 4 of the BHC Act. Unless otherwise noted, nonbanking activities will be conducted throughout the United States.

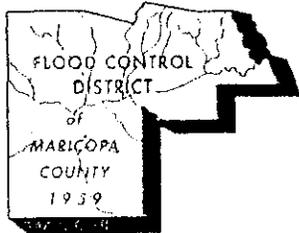
Unless otherwise noted, comments regarding each of these applications must be received at the Reserve Bank indicated or the offices of the Board of Governors not later than February 4, 1999.

A. Federal Reserve Bank of Kansas City (D. Michael Manies, Assistant Vice President) 925 Grand Avenue, Kansas City, Missouri 64198-0001:

1. *Chelsea Bancshares, Inc.*, Chelsea, Oklahoma; to become a bank holding company by acquiring 100 percent of the voting shares of Bank of Chelsea, Chelsea, Oklahoma.

B. Federal Reserve Bank of Dallas (W. Arthur Tribble, Vice President) 2200 North Pearl Street, Dallas, Texas 75201-2272:

1. *State National Bancshares, Inc.*, Lubbock, Texas; to acquire 100 percent of the voting shares of Valley Bancorp, Inc., El Paso, Texas, and thereby



FLOOD CONTROL DISTRICT
of
Maricopa County

2801 West Durango Street • Phoenix, Arizona 85009-6399
Telephone (602) 506-1501
Fax (602) 506-4601
TT (602) 506-5897

BOARD OF DIRECTORS
Jan Brewer
Fulton Brock
Andrew Kunasek
Don Stapley
Mary Rose Garrido Wilcox

February 17, 1999

Matthew B. Miller, P.E., Chief
Hazard Study Branch
Mitigation Directorate
Federal Emergency Management Agency
500 C Street SW
Washington, D.C. 20472

Attn : Mr. Mike Grimm

Re : Letter of Map Revision (LOMR) request for Rittenhouse Road Channel
(from Eastern Maricopa Floodway to Ellsworth Road)

When replying, please refer to :
FCD Contract No. FCD 96-02

Dear Mr. Miller:

This request is for a revision to the Flood Insurance Rate Maps (FIRM) for City of Mesa, Towns of Gilbert and Queen Creek and the Maricopa County, Arizona, Unincorporated Areas. Pertinent information about the request is listed below:

Identifier :	Rittenhouse Road Channel
Flooding Source :	Rittenhouse Road and Southern Pacific Railroad
FIRM Panels Affected :	2690 F, 2695 F

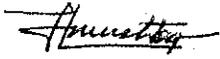
Construction of the Rittenhouse Road Channel, from Eastern Maricopa Floodway (EMF) to Ellsworth Road, reduces the Zone AH floodplain delineation along the Southern Pacific Railroad (SPRR). A revised HEC-RAS hydraulic modeling shows that the new floodplain/floodway can be contained within the constructed Rittenhouse Road Channel along the Southern Pacific Railroad (SPRR).

The following information is submitted in support of the LOMR request :

1. Final Conceptual Design Report for Rittenhouse Road Channel.
2. Technical Data Notebook (TDN).
3. A set of work maps at 1"=200' scale (Appendix F, separately rolled).
4. Annotated map at 1"=1000' scale and flood profiles (TDN).
5. Hardcopy Input/Output of the proposed HEC-RAS hydraulic model (Appendix G).
6. 4 3-1/2" disks with the proposed hydraulic modeling files (back pocket).

Should additional information be required, please contact Hasan Mushtaq, Ph.D., P.E., Engineering Division, Flood Control District at (602) 506-4528.

Sincerely,



Hasan Mushtaq, Ph.D., P.E.
Engineering Division

Enclosures

Copy to : Terri Miller, State Coordinator, NFIP
Arizona Department of Water Resources
500 North 3rd Street
Phoenix, Arizona 85004

Richard Shaner, P.E., Town Engineer
Town of Queen Creek
22350 South Ellsworth Road
Queen Creek, Arizona 85242-9311

Lonnie Frost
Floodplain Administrator, Town of Gilbert
1025 South Gilbert Road
Gilbert, Arizona 85296-3401

Kieth Nath, P.E.
City Engineer, City of Mesa
20 East Main Street, Suite # 750
Mesa, Arizona 85211

Coord :

VAS AS

PAE

EAR

SRY

RCS

MSE

Info :

HSM

Hasan Mushtaq - FCDX

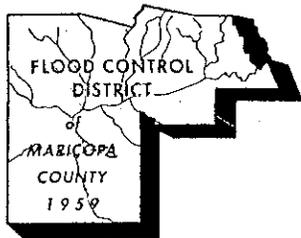
From: Raju Shah - FCDX
Sent: Wednesday, May 05, 1999 2:39 PM
To: George Lindop - FCDX
Cc: Amir Motamedi - FCDX; Pedro Calza - FCDX; Ray Warriner - FCDX; Raju Shah - FCDX; Hasan Mushtaq - FCDX
Subject: Ritterhouse Road Channel

George, follow up on the message from Amir regarding box culvert under the SPRR around Ocotillo Road. I talked with Ray Warriner and he said that SPRR does not want to give us a permanent rights to maintain these culverts. However, they will be glad to let us clean the debris from inside the culverts. SPRR wants us to notify them at least three days in advance and the contact person is Mr. John Tipp at 520-629-2220 (week would be better). He will provide a flagman at no cost to the District while our crew is working on cleaning the culverts.

The reason District is involved is because one of the assumption that was made during the Ritterhouse Channel design is that these culverts would divert some of the flow south to the SPRR. In order for that to happen, these culverts have to be clean. We can't force SPRR to do that, however, we can coordinate with SPRR to keep these culverts clean. If the culverts are clogged, we expect to have a higher flow coming into Ritterhouse channel than what it is designed to carry.

Please let me know when you schedule the clean up of these culverts, because I would have to let Town of Queen Creek know about it.

Thanks.



FLOOD CONTROL DISTRICT of Maricopa County

2801 West Durango Street • Phoenix, Arizona 85009-6399
Telephone (602) 506-1501
Fax (602) 506-4601
TT (602) 506-5897

BOARD OF DIRECTORS
Jan Brewer
Fulton Brock
Andrew Kunasek
Don Stapley
Mary Rose Garrido Wilcox

March 18, 1999

Pernille Buch-Pedersen
Michael Baker Jr., Inc.
3601 Eisenhower Avenue
Suite 600
Alexandria, Virginia 22304

Case No.: 99-09-509P
Communities: Towns of Gilbert and Queen
Creek, City of Mesa, and
Maricopa County, Arizona
Community Nos: 040044, 040132, 040048, and
040037
316-ACK.FRQ

Re : Letter of Map Revision (LOMR) request for Rittenhouse Road Channel
(from Eastern Maricopa Floodway to Ellsworth Road)

Dear Ms. Pedersen:

This is in response to a letter dated March 5, 1999, requesting additional supporting materials for the above-mentioned Letter of Map Revision (LOMR) application.

Identifier : Rittenhouse Road Channel
Flooding Source : Rittenhouse Road and Southern Pacific Railroad
FIRM Panels Affected : 04013C2690 F and 04013C2695 F

Following supporting materials are being included in this correspondence:

ITEM

1. Final Conceptual Design Report for Rittenhouse Road Channel from Signal Butte Road to the East Maricopa Floodway, FCD Contract No. 92-13, Gannett Fleming, Inc., June 1993.
2. Rittenhouse Road Channel, Sossaman Road to Ellsworth Road, Cast-in-place Pipe Alternate, FCD Contract No. 97-34, Terrain Engineering, Inc., April 1998. (to be included in Appendix K of the TDN)

Please note that the LOMR application fee of \$3,700.00 is being processed separately and will be forwarded to Federal Emergency Management Agency, Fee-Collection System Administrator, P.O. Box 3173, Merrifield, VA 22116-3173. Should additional information be required, please contact Hasan Mushtaq, Ph.D., P.E., Engineering Division, Flood Control District at (602) 506-4528.

Sincerely,

Hasan Mushtaq, Ph.D., P.E.
Engineering Division

Copy to :

Bill Jenkins, State Coordinator, NFIP
Arizona Department of Water Resources
500 North 3rd Street
Phoenix, Arizona 85004

Richard Shaner, P.E., Town Engineer
Town of Queen Creek
22350 South Ellsworth Road
Queen Creek, Arizona 85242-9311

Lonnie Frost
Floodplain Administrator, Town of Gilbert
1025 South Gilbert Road
Gilbert, Arizona 85296-3401

Kieth Nath, P.E.
City Engineer, City of Mesa
20 East Main Street, Suite # 750
Mesa, Arizona 85211

Coord:

 PACE

 HSM

Info:

HSM



Federal Emergency Management Agency

Washington, D.C. 20472

March 30, 1999

Hasan Mushtaq, Ph.D., P.E.
Engineering Division
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009-6399

IN REPLY REFER TO:
Case No.: 99-09-509P
Communities: Towns of Gilbert and Queen
Creek, City of Mesa, and
Maricopa County, Arizona
Community Nos.: 040044, 040132, 040048
and 040037

FLOOD CONTROL DISTRICT RECEIVED	
APR 02 1999	
CHENG	P & PM
PIO	REG
ADMIN	P/WLMGT
FINANCE	CONTRACT
O & M	FILE
✓ ENGR	
REMARKS	Hsm

316-ACK.FRQ

Dear Dr. Mushtaq:

This responds to your letter dated March 18, 1999, concerning a February 17, 1999, request that the Federal Emergency Management Agency (FEMA) issue a revision to the Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas. Pertinent information about the request is listed below.

Identifier:	Rittenhouse Road Channel
Flooding Source:	Flooding Along Southern Pacific Railroad
FIRM Panel(s) Affected:	04013C2690 F and 2695 F

To minimize the financial burden on the policyholders while maintaining the National Flood Insurance Program (NFIP) as self-sustaining, FEMA implemented a procedure to recover costs associated with reviewing and processing requests for modifications to published flood information and maps. Effective March 1, 1999, FEMA revised the fee schedule. A copy of the notice published in the *Federal Register* is enclosed for your information. The fee for your request is \$3,700, and must be submitted before we can continue processing your request. Payment of this fee must be made in the form of a check or money order, made payable in U.S. funds to the National Flood Insurance Program, or credit card payment. For identification purposes, the case number referenced above must be included on the check or money order. We will not perform a detailed technical review of your request until payment is received.

Payment must be forwarded to one of the addresses listed below.

Using U.S. Postal Service:
Federal Emergency Management Agency
Fee-Collection System Administrator
P.O. Box 3173
Merrifield, VA 22116-3173

Using overnight service:
Fee-Collection System Administrator
c/o Dewberry & Davis, METS Division
8401 Arlington Boulevard
Fairfax, VA 22031

If the required fee is not submitted within 90 days of the date of this letter, we will treat any subsequent request as an original submittal, and it will be subject to all submittal/payment procedures.

If you are unable to meet the 90-day deadline for submittal of required items, and would like FEMA to continue processing your request, you must request an extension of the deadline. This request must be submitted to our Technical Evaluation Contractor in writing and must provide (1) the reason why the data cannot be submitted within the requested timeframe, and (2) a new date for the submittal of the data. We

receive a very large volume of requests and cannot maintain inactive requests for an indefinite period of time. Therefore, the fees will be forfeited for any request for which neither the requested data nor a written extension request is received within 90 days.

Please direct all required items (except the required fee) and questions concerning your request to our Technical Evaluation Contractor at the following address:

Michael Baker Jr., Inc.
3601 Eisenhower Avenue, Suite 600
Alexandria, Virginia 22304

Attention: Ms. Pernille Buch-Pedersen
(703) 317-6224

When you write us about your request, you must include the case number referenced above in your letter.

If you have any questions concerning FEMA policy, or the NFIP in general, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,

Matthew B. Miller

Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

cc: Mr. Richard Shaner, P.E.
Town Engineer
Town of Queen Creek

Mr. Lonnie Frost
Floodplain Administrator
Town of Gilbert

Mr. Keith Nath, P.E.
City Engineer, City of Mesa

FEDERAL EMERGENCY MANAGEMENT AGENCY ANNOUNCES CHANGES IN USER FEES FOR FLOOD MITIGATION PRODUCTS

Through a Notice published in the *Federal Register* on January 11, 1999, the Federal Emergency Management Agency (FEMA) announced its intent to change the fee schedule for several of the products it provides to the public in support of the National Flood Insurance Program (NFIP). These changes are being made to ensure full reimbursement to FEMA of the funds that are actually expended in reviewing and processing requests for Conditional and Final Map Revisions.

Effective March 1, 1999, the fee schedule for requests for Conditional Letters of Map Revision (CLOMRs) and Final Map Revisions--Letters of Map Revision (LOMRs) and Physical Map Revisions (PMRs)--is as follows:

Fee Schedule for CLOMR Requests

Request based on new hydrology, bridge, culvert, channel, or combination thereof	\$3,100
Request based on levee, berm, or other structural measure	\$4,000

Fee Schedule for LOMR and PMR Requests

Request based on bridge, culvert, channel, or combination thereof	\$4,000
Request based on levee, berm, or other structural measure	\$4,700
Request based on as-built information submitted as followup to CLOMR	\$3,400
Request based solely on submission of more detailed data	\$3,100

The Notice that appeared in the January 11 edition of the *Federal Register* may be obtained electronically from the National Archives and Records Administration site on the World Wide Web (http://www.access.gpo.gov/su_docs/fedreg/a990111c.html). Interested persons who do not have access to the Internet may obtain paper copies of the Notice, free of charge, by calling the FEMA Map Assistance Center at 1-877-336-2627 (FEMAMAP).

with FEMA functional and program activities funded under Performance Partnership Agreements with State and local governments.

SUPPLEMENTARY INFORMATION: Cooperative Agreements under Performance Partnership Agreements (PPA), will be the vehicle for achieving the Federal Emergency Management Agency's (FEMA's) Strategic goal of establishing in concert with its partners, a national emergency management system that is comprehensive, risk-based and all hazards in approach. It focuses on integrating and achieving Federal and State goals and objectives for the four broad emergency management functions: Mitigation (risk reduction), preparedness (operational readiness), response (emergency) operations, and recovery operations. The PPA also carries out FEMA

initiatives relative to national emergency management goals (e. g., the National Mitigation Strategy) and pulls into a single document all FEMA and State memoranda of understanding and agreements.

Collection of Information

Title: Financial and Technical Assistance Under Performance Partnership Agreements.

Type of Information Collection: Revision of currently approved collection.

OMB Number: 3067-0206.

Form Numbers: SF 424, Application for Federal Assistance; Indirect Cost Agreement; FF 20-20, Budget Information—Nonconstruction; FF 20-22, Narrative Statement; FF 20-15, Budget Information—Construction Projects; FF 20-16, Assurances; FF 76-

10a, Obligating Document for Awards/ Amendments; FF 20-19, Report of Unobligated Balance of Federal Funds, Drawdowns, and Undrawn funds; FF 20-10, Financial Status Report; FF 20-17, Outlay Report and Request for Reimbursement for Construction Programs; FF 20-18, Report of Government Property; SF-SAC, Data Collection form for Reporting on Audits.

Abstract. The collection of information focuses on Standard and FEMA forms associated with financial and administrative reporting and recordkeeping requirements that enables State and Local governments to request from FEMA federal financial and technical assistance through Performance Partnership Agreements.

Affected Public: State, Local or Tribal Governments.

FEMA/forms and other reporting	No. of respondents (A)	Frequency of response (B)	Hours Per response (C)	Annual Reporting Hours (AxBxC)	Record-keeping burden hours
FF20-10 Financial Status Report	56	20	9.8	10976	11200
FF 20-15 Budget Information Construction Program	56	5	17	4760	4816
FF20-16 Summary Sheet for Assurance and Certification	56	1	1.5	84	95.2
FF 20-17 Outlay Report and Request for Reimbursement for Construction	56	15	17	14280	14448
FF 20-18 Report of Government Property	56	2	6	672	694
FF20-19 Report of Unobligated Balance of Federal Funds	56	20	2	2240	246
FF20-20NC Budget Information Non Construction	56	10	9.8	5488	2464
FF20-22 Narrative Form	56	5	8	2240	5600
FF-20-22NC Performance Report	56	2	8	896	2296
FF-20-22C Performance Report	56	5	8	2240	918.4
FF-20-22NC Narrative Non-Construction	56	2	8	896	2296
FF-76-10A Obligating the Document for Award	56	2	1.5	168	918.4
SF-424 Application for Federal Assistance	56	1	2	112	190.4
Reading and Understanding	56	1	12	672	123.2
Indirect Cost Agreement	56	2	50	5600	683.2
Budget Deviations	56	2	5.8	649.4	5622.4
SF-Data Collection	56	2	30	3360	672
					3382.4

Estimated Total Annual Burden and Recordkeeping Hours. 69,277.6.
Estimated Cost. \$400,000.00.

Comments

Written comments are solicited to (a) evaluate whether the proposed data collection is necessary for the proper performance of the agency, including whether the information shall have practical utility; (b) evaluate the accuracy of the agency's estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used; (c) enhance the quality, utility, and clarity of the information to be collected; and (d) minimize the burden of the collection of information on those who are to respond, including through the use of appropriate automated,

electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses. Comments should be received within 60 days of the date of this notice.

ADDRESSES: Interested persons should submit written comments to Muriel B. Anderson, FEMA Information Collections Officer, Federal Emergency Management Agency, 500 C Street, SW, Room 316, Washington, DC 20472. Telephone number (202) 646-2625. FAX number (202) 646-3524.

FOR FURTHER INFORMATION CONTACT: Contact Charles F. McNulty, Office of Financial Management, Room 350, Washington D.C., Phone No. (202) 646-2976 for additional information. Contact

Ms. Anderson at (202) 646-2625 for copies of the proposed collection of information.

Dated: December 23, 1998.

Reginald Trujillo,

Director, Program Services Division, Operations Support Directorate.

[FR Doc. 99-525 Filed 1-8-99; 8:45 am]

BILLING CODE 6718-01-P

FEDERAL EMERGENCY MANAGEMENT AGENCY

Fee Schedule for Processing Requests for Map Changes and for Flood Insurance Study Backup Data

AGENCY: Federal Emergency Management Agency (FEMA).

ACTION: Notice.

SUMMARY: This notice contains the revised fee schedules for processing certain requests that you (the requester) make for changes to National Flood Insurance Program (NFIP) maps and for processing requests for Flood Insurance Study (FIS) backup data. The changes in the fee schedules will allow us (FEMA) to reduce further the expenses to the NFIP by recovering more fully the costs associated with (1) processing conditional and final map change requests and (2) retrieving, reproducing, and distributing technical and administrative support data related to FIS analyses and mapping.

EFFECTIVE DATE: The revised fee schedules are effective for all requests dated March 1, 1999, or later.

FOR FURTHER INFORMATION CONTACT: Matthew B. Miller, P.E., Chief, Hazards Study Branch, Mitigation Directorate, 500 C Street SW., Washington, DC 20472; (202) 646-3461 or by facsimile at (202) 646-4596 (not toll-free calls), or (email) matthew.miller@fema.gov.

SUPPLEMENTARY INFORMATION: This notice contains the revised fee schedules for processing certain requests for changes to NFIP maps and for processing requests for FIS backup data. The revised fee schedule for map changes is effective for all requests dated March 1, 1999, or later. It supersedes the current fee schedule, which was established on March 10, 1997.

The revised fee schedule for requests for FIS backup data also is effective for all requests dated March 1, 1999, or later. It supersedes the current fee schedule, which was established on March 10, 1997.

To develop the revised fee schedules, we evaluated the actual costs of reviewing and processing requests for Conditional Letters of Map Amendment (CLOMAs), Conditional Letters of Map Revision Based on Fill (CLOMR-Fs), Conditional Letters of Map Revision (CLOMRs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs), and Physical Map Revisions (PMRs) and requests for FIS backup data.

As we indicated in the *Federal Register* notice published on February 6, 1997, a primary component of the fees is the prevailing private-sector rates charged to us for labor and materials. Because these rates and the actual review and processing costs may vary from year to year, we will evaluate the fees periodically and publish revised fee schedules, when needed, as notices in the *Federal Register*.

Fee Schedule for Requests for Conditional Letters of Map Amendment and Conditional and Final Letters of Map Revision Based on Fill

Based on a review of actual cost data for Fiscal Year 1997, we maintained the following flat user fees, which are to be submitted with all requests:

- Request for single-lot/single-structure CLOMA, CLOMR-F, and LOMR-F—\$400.
- Request for single-lot/single-structure LOMR-F based on as-built information (CLOMR-F previously issued by FEMA)—\$300.
- Request for multiple-lot/multiple-structure CLOMA—\$700.
- Request for multiple-lot/multiple-structure CLOMR-F and LOMR-F—\$800.
- Request for multiple-lot/multiple-structure LOMR-F based on as-built information (CLOMR-F previously issued by FEMA)—\$700.

Fee Schedule for Requests for Conditional Map Revisions

Unless the request is otherwise exempted under 44 CFR 72.5, you (the requester) must submit the flat user fees shown below with requests for CLOMRs dated March 1, 1999, or later that are not based on structural measures on alluvial fans. These fees are based on a review of actual cost data for Fiscal Year 1997.

- Request based on new hydrology, bridge, culvert, channel, or combination thereof—\$3,100.
- Request based on levee, berm, or other structural measure—\$4,000.

Fee Schedule for Requests for Map Revisions

Unless the request is otherwise exempted under 44 CFR 72.5, you must submit the flat user fees shown below with requests for LOMRs and PMRs dated March 1, 1999, or later that are not based on structural measures on alluvial fans. These fees are based on a review of actual cost data for Fiscal Year 1997.

- Request based on bridge, culvert, channel, or combination thereof—\$4,000.
- Request based on levee, berm, or other structural measure—\$4,700.
- Request based on as-built information submitted as followup to CLOMR—\$3,400.
- Request based solely on submission of more detailed data—\$3,100.

Fees for Conditional and Final Map Revisions Based on Structural Measures on Alluvial Fans

Based on a review of actual cost data for Fiscal Year 1997, we maintained

\$5,000 as the initial fee for your requests for LOMRs and CLOMRs based on structural measures on alluvial fans. We also will continue to recover the remainder of the review and processing costs by invoicing the requester before issuing a determination letter, consistent with current practice. The prevailing private-sector labor rate charged to us (\$50 per hour) will continue to use to calculate the total reimbursable fees.

Fee Schedule for Requests for Flood Insurance Study Backup Data

You must submit the user fees shown below with your requests for FIS backup data dated March 1, 1999, or later. These fees are based on a review of actual cost data for Fiscal Year 1997. They are based on the complete recovery of our costs for retrieving, reproducing, and distributing the data, as well as a pro rata share of the costs for maintaining the data and operating the fee reimbursement system.

As under the previous fee schedule, all entities except the following will be charged for requests for FIS backup data: our Study Contractors; our Technical Evaluation Contractors; the Federal agencies involved in performing studies and restudies for us (i.e., U.S. Army Corps of Engineers, U.S. Geological Survey, Natural Resources Conservation Service, and Tennessee Valley Authority); communities that have supplied the Digital Line Graph base to us and request the Digital Line Graph data (Category 6 below); State NFIP Coordinators if the data have not already been provided on microfiche or CD-ROM or if the State is actively involved in performing a study or restudy that will be used by us to update NFIP maps. The only other exception is that one copy of the FIS backup data will be provided to a community free of charge if the data are requested during the statutory 90-day appeal period for an initial or revised FIS for that community.

We have established seven categories into which we separate requests for FIS backup data. These categories are:

- (1) *Category 1*—Paper copies, microfiche, or diskettes of hydrologic and hydraulic backup data for current or historical FISs
- (2) *Category 2*—Paper or mylar copies of topographic mapping developed during FIS process
- (3) *Category 3*—Paper copies or microfiche of survey notes developed during FIS process
- (4) *Category 4*—Paper copies of individual Letters of Map Change
- (5) *Category 5*—Paper copies of preliminary Flood Insurance Rate Map

or Flood Boundary and Floodway Map panels

(6) *Category 6*—Computer tapes or CD-ROMs of Digital Line Graph files

(7) *Category 7*—Computer diskettes and user's manuals for our computer programs

You must submit a *non-refundable* fee of \$140, to cover the preliminary costs of research and retrieval, to begin requests for data under Categories 1, 2, and 3. The total costs of processing requests in Categories 1, 2, and 3 above will vary based on the complexity of the research involved in retrieving the data and the volume and medium of data to be reproduced and distributed. The initial fee will be applied against the total costs to process the request, and we will invoice you for the balance before the data are provided. No data will be provided to you until all required fees have been paid.

We do not require an initial fee to begin a request for data under Categories 4 through 7. We will notify you by telephone about the availability of materials and the fees associated with requested data. As with requests for data under Categories 1, 2, and 3, we will not provide any data to you until you pay all required fees.

The costs for processing requests under Categories 4 through 7 have not varied. Therefore, the flat user fees for these categories of requests, shown below, will continue to be required.

	Dollars
Request Under Category 4:	
First letter	40
Each additional letter	10
Request Under Category 5:	
First panel	35
Each additional panel	2
Request Under Category 6 (per county)	150
Request Under Category 7 (per copy)	25

Payment Submission Requirements

You must make fee payments before we render services. You must make these payments by check, by money order, or by credit card payment. Make checks and money orders payable, in U.S. funds, to the *National Flood Insurance Program*.

We will deposit the fees we collect in the National Flood Insurance Fund, which is the source of funding for providing these services.

Dated: January 6, 1999.

Michael J. Armstrong,
Associate Director for Mitigation.

[FR Doc. 99-526 Filed 1-8-99; 8:45 am]

BILLING CODE 6718-04-P

FEDERAL MARITIME COMMISSION

Ocean Freight Forwarder License; Applicants

Notice is hereby given that the following applicants have filed with the Federal Maritime Commission applications for licenses as ocean freight forwarders pursuant to section 19 of the Shipping Act of 1984 (46 U.S.C. app. 1718 and 46 CFR part 510).

Persons knowing of any reason why any of the following applicants should not receive a license are requested to contact the Office of Freight Forwarders, Federal Maritime Commission, Washington, DC 20573.

Empire Shipping Company, Inc., Cargo Building 80, JFK International, Airport, Jamaica, NY 11430, Officer: Helen Duffy, President, Richard Locari, Secretary

Dated: January 5, 1999.

Bryant L. VanBrakle,
Secretary.

[FR Doc. 99-486 Filed 1-8-99; 8:45 am]

BILLING CODE 6730-01-M

FEDERAL RESERVE SYSTEM

Change in Bank Control Notices; Acquisitions of Shares of Banks or Bank Holding Companies

The notificants listed below have applied under the Change in Bank Control Act (12 U.S.C. 1817(j)) and § 225.41 of the Board's Regulation Y (12 CFR 225.41) to acquire a bank or bank holding company. The factors that are considered in acting on the notices are set forth in paragraph 7 of the Act (12 U.S.C. 1817(j)(7)).

The notices are available for immediate inspection at the Federal Reserve Bank indicated. The notices also will be available for inspection at the offices of the Board of Governors. Interested persons may express their views in writing to the Reserve Bank indicated for that notice or to the offices of the Board of Governors. Comments must be received not later than January 25, 1999.

A. Federal Reserve Bank of Minneapolis (JoAnne F. Lewellen, Assistant Vice President) 90 Hennepin Avenue, P.O. Box 291, Minneapolis, Minnesota 55480-0291:

1. *Fred C. Krahmer Irrevocable Trust, and Fred W. Krahmer, as trustee*, both of Fairmont, Minnesota; to acquire voting shares of Truman Bancshares, Inc., Truman, Minnesota, and thereby indirectly acquire voting shares of Peoples State Bank of Truman, Truman, Minnesota.

Board of Governors of the Federal Reserve System, January 5, 1999.

Robert deV. Frierson,

Associate Secretary of the Board.

[FR Doc. 99-471 Filed 1-8-99; 8:45 am]

BILLING CODE 6210-01-F

FEDERAL RESERVE SYSTEM

Formations of, Acquisitions by, and Mergers of Bank Holding Companies

The companies listed in this notice have applied to the Board for approval, pursuant to the Bank Holding Company Act of 1956 (12 U.S.C. 1841 *et seq.*) (BHC Act), Regulation Y (12 CFR Part 225), and all other applicable statutes and regulations to become a bank holding company and/or to acquire the assets or the ownership of, control of, or the power to vote shares of a bank or bank holding company and all of the banks and nonbanking companies owned by the bank holding company, including the companies listed below.

The applications listed below, as well as other related filings required by the Board, are available for immediate inspection at the Federal Reserve Bank indicated. The application also will be available for inspection at the offices of the Board of Governors. Interested persons may express their views in writing on the standards enumerated in the BHC Act (12 U.S.C. 1842(c)). If the proposal also involves the acquisition of a nonbanking company, the review also includes whether the acquisition of the nonbanking company complies with the standards in section 4 of the BHC Act. Unless otherwise noted, nonbanking activities will be conducted throughout the United States.

Unless otherwise noted, comments regarding each of these applications must be received at the Reserve Bank indicated or the offices of the Board of Governors not later than February 4, 1999.

A. Federal Reserve Bank of Kansas City (D. Michael Manles, Assistant Vice President) 925 Grand Avenue, Kansas City, Missouri 64198-0001:

1. *Chelsea Bancshares, Inc.*, Chelsea, Oklahoma; to become a bank holding company by acquiring 100 percent of the voting shares of Bank of Chelsea, Chelsea, Oklahoma.

B. Federal Reserve Bank of Dallas (W. Arthur Tribble, Vice President) 2200 North Pearl Street, Dallas, Texas 75201-2272:

1. *State National Bancshares, Inc.*, Lubbock, Texas; to acquire 100 percent of the voting shares of Valley Bancorp, Inc., El Paso, Texas, and thereby

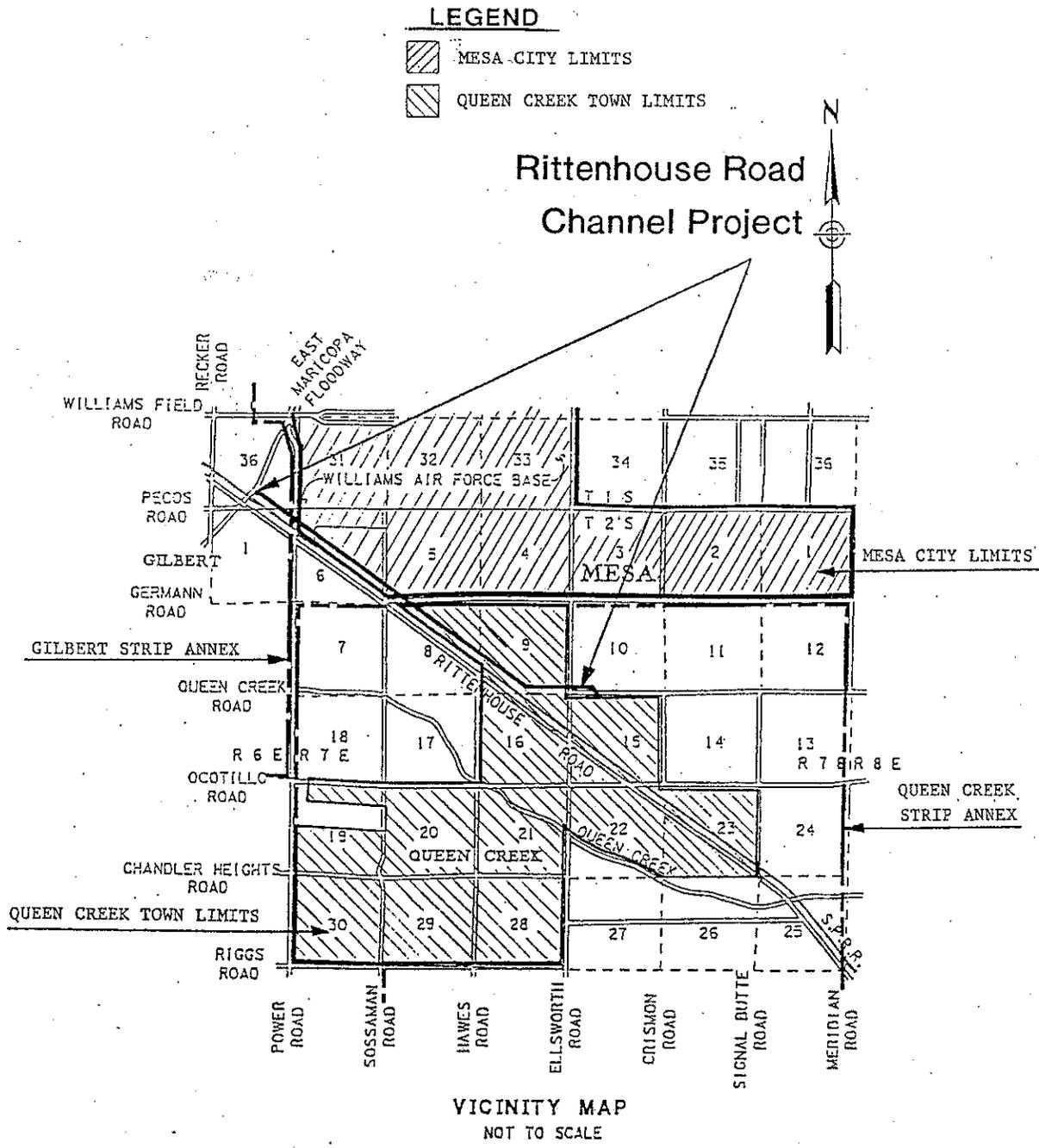
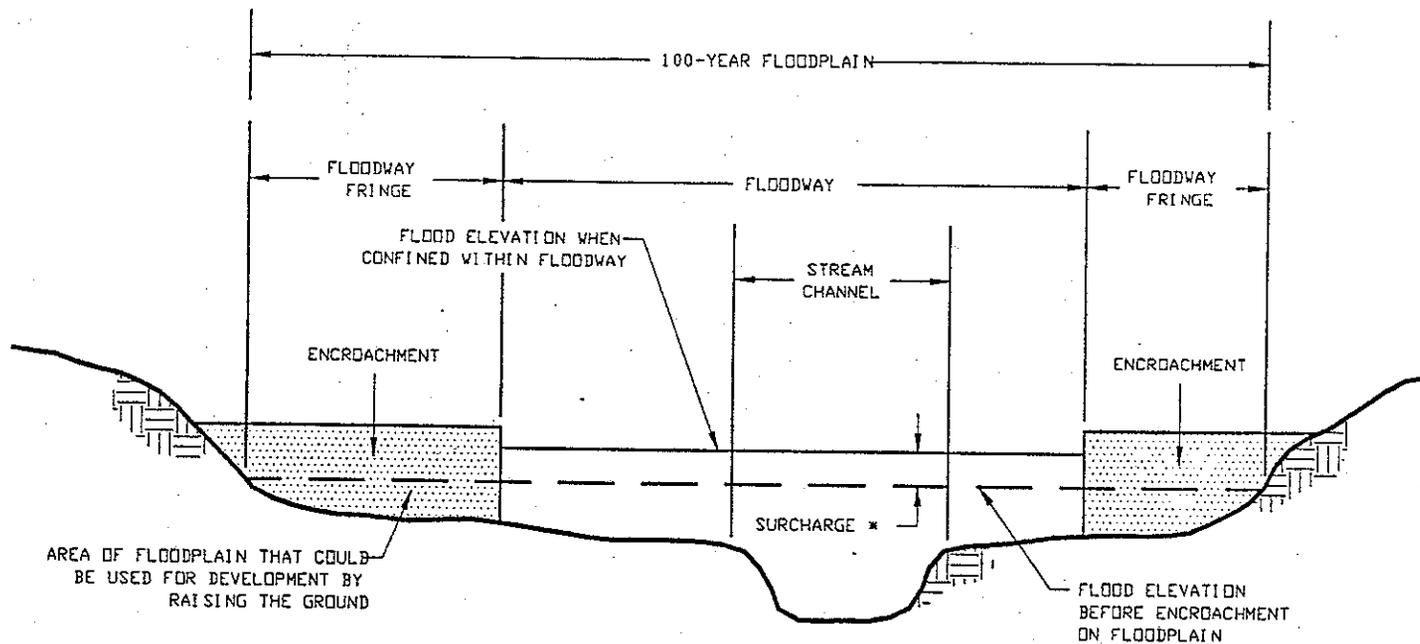


Figure 1: Project Location Map.

Figure 2: Floodway Definition Sketch.



* SURCHARGE NOT TO EXCEED 1.0 FOOT (FEMA REQUIREMENT) OR LESSER AMOUNT IF SPECIFIED BY STATE

2690 F

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

MARICOPA COUNTY,
 ARIZONA AND
 INCORPORATED AREAS

PANEL 2690 OF 4350

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GILBERT, TOWN OF	040044	2690	F
MARICOPA COUNTY, UNINCORPORATED AREAS	040037	2690	F
MESA, CITY OF	040048	2690	F

MAP NUMBER
04013C2690 F

MAP REVISED:
DECEMBER 3, 1993



Federal Emergency Management Agency

2695 F

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

MARICOPA COUNTY,
 ARIZONA AND
 INCORPORATED AREAS

PANEL 2695 OF 4350

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GILBERT, TOWN OF	040044	2695	F
MARICOPA COUNTY, UNINCORPORATED AREAS	041037	2695	F
MESA, CITY OF	041048	2695	F
QUEEN CREEK, TOWN OF	040132	2695	F

MAP NUMBER
04013C2695 F

MAP REVISED:
DECEMBER 3, 1993



Federal Emergency Management Agency

Figure 3: Annotated FIRM Map (continued).

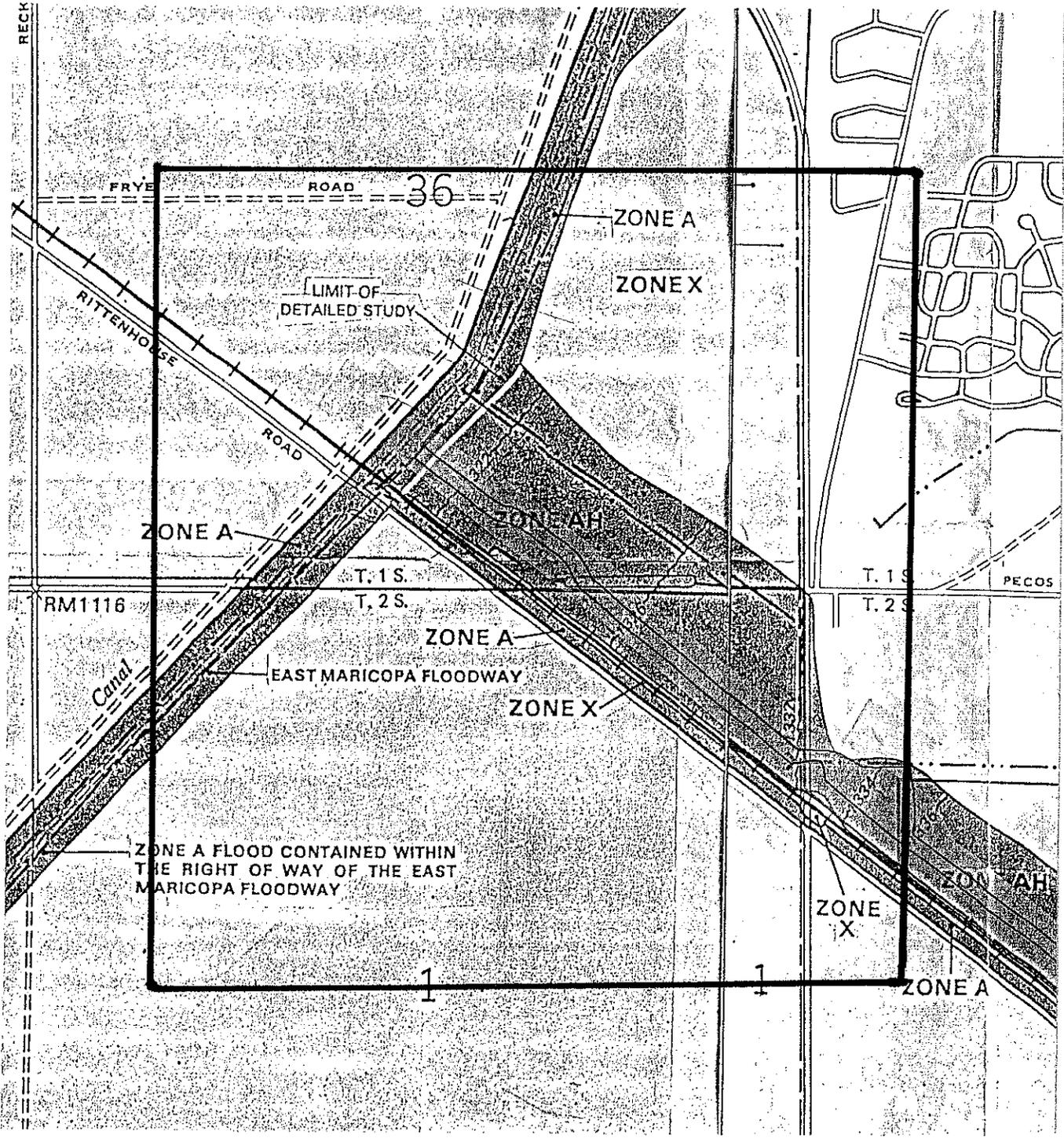


Figure 3 (continued): Annotated FIRM Map (continued).

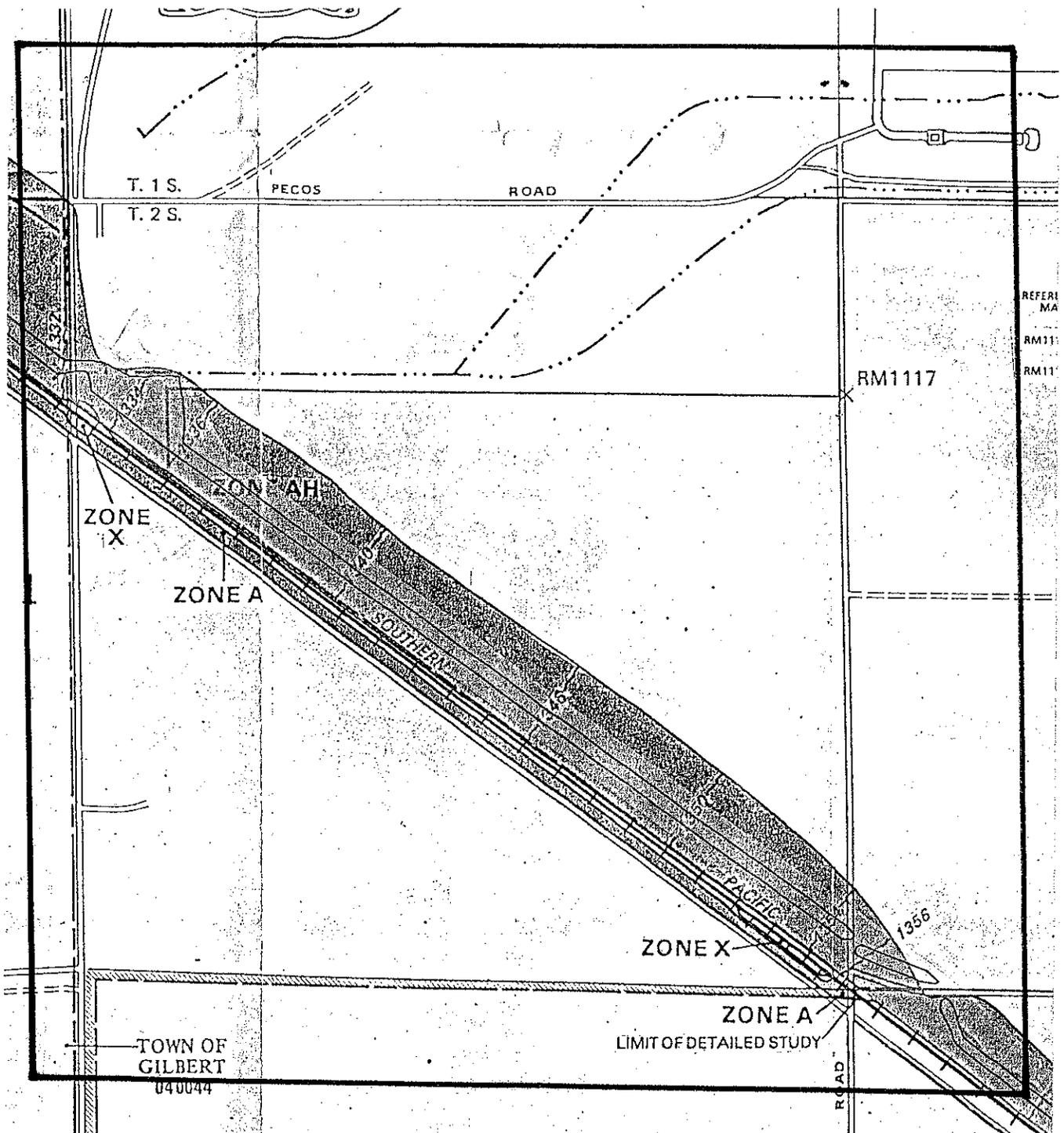


Figure 3 (continued): Annotated FIRM Map (continued).

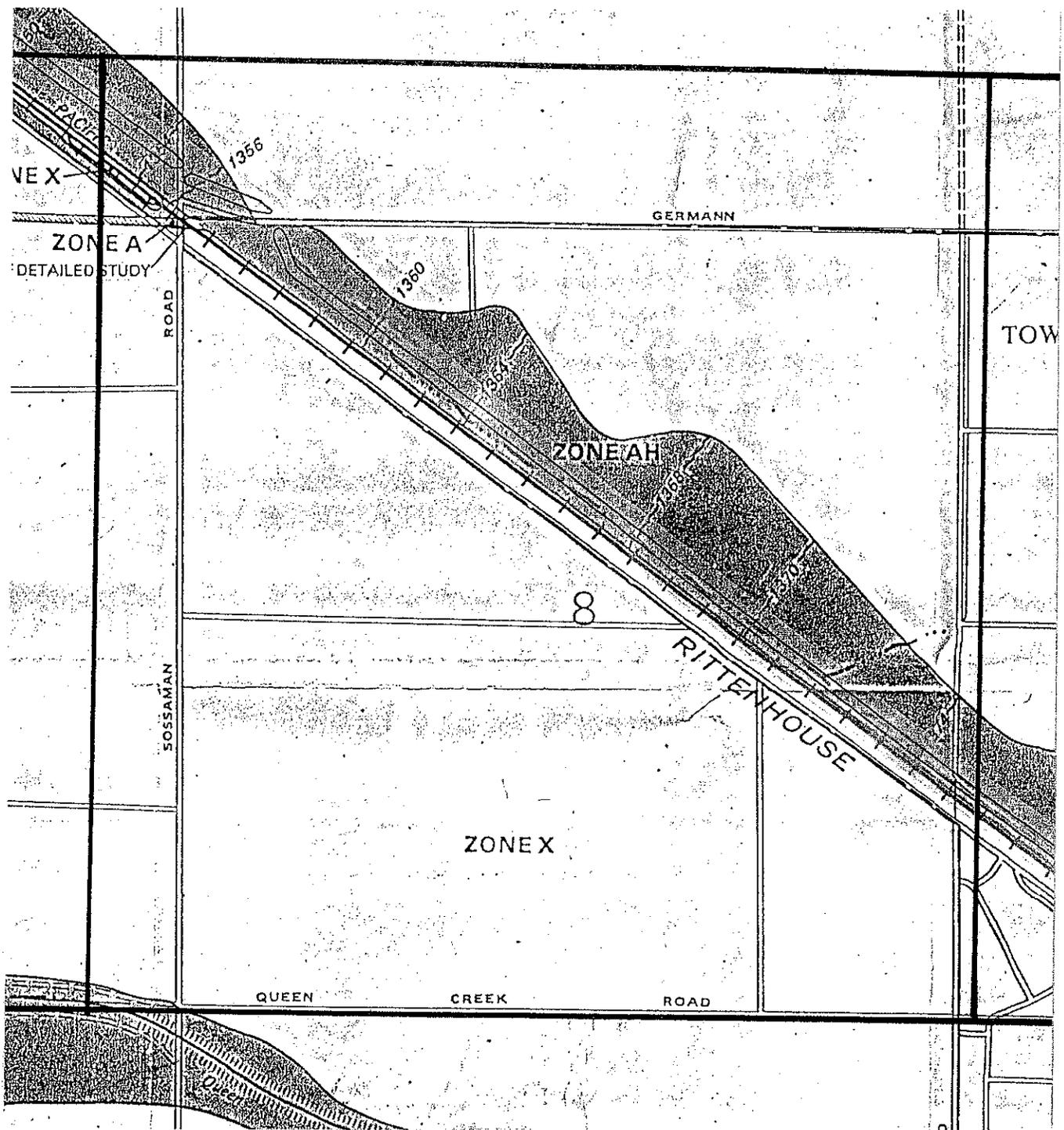


Figure 3 (continued): Annotated FIRM Map (continued).

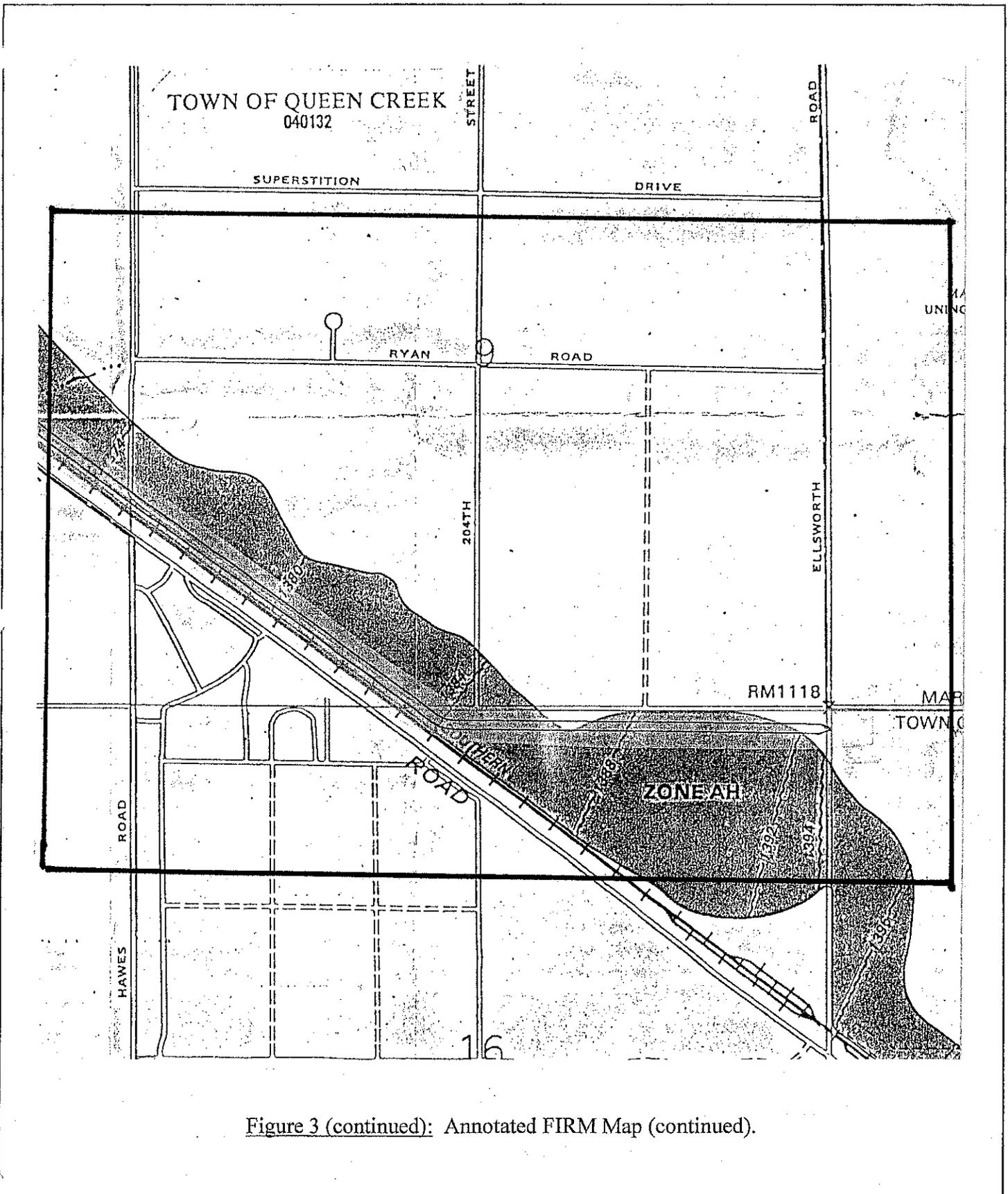
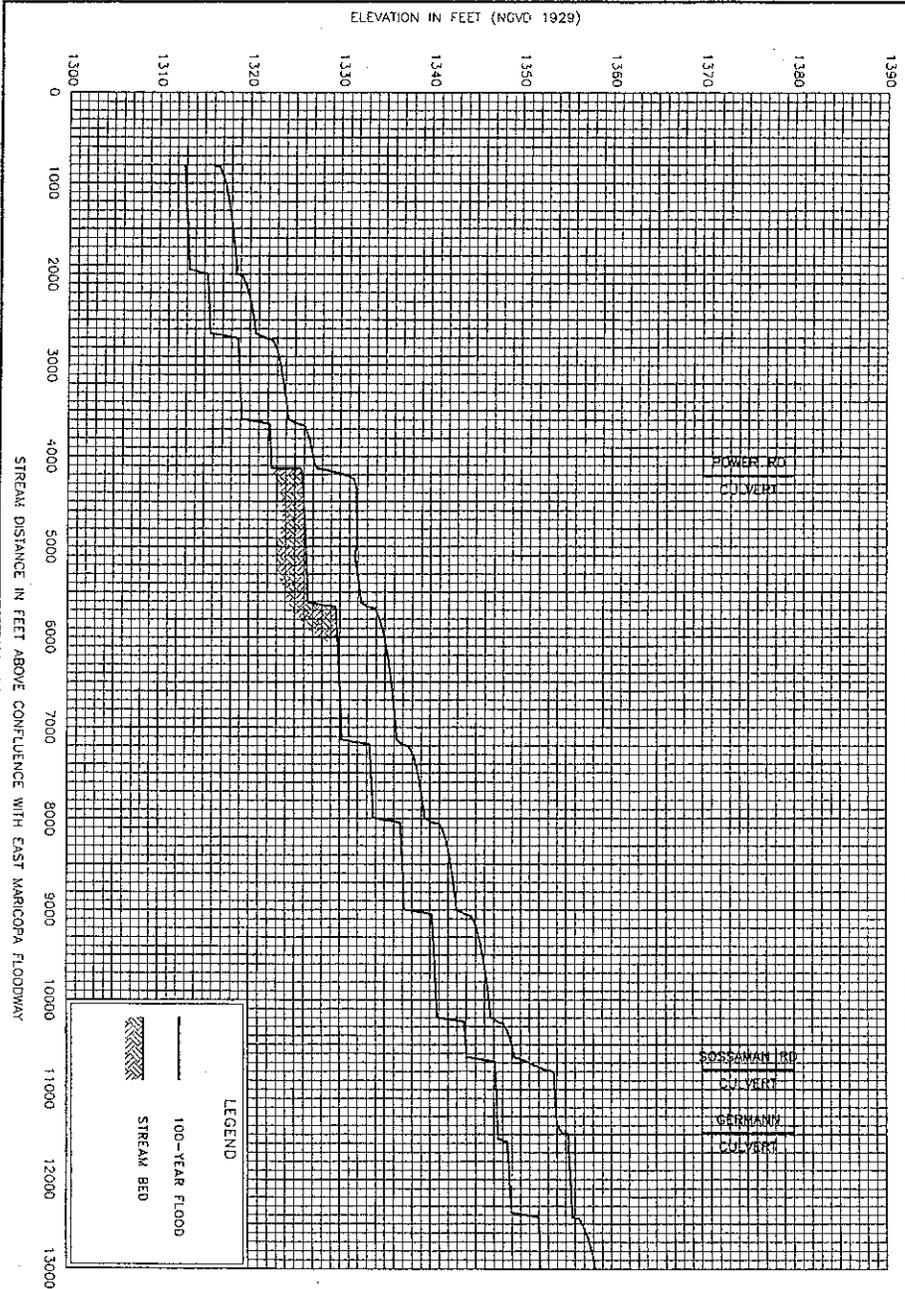


Figure 3 (continued): Annotated FIRM Map (continued).

Figure 4: Flood Profiles.

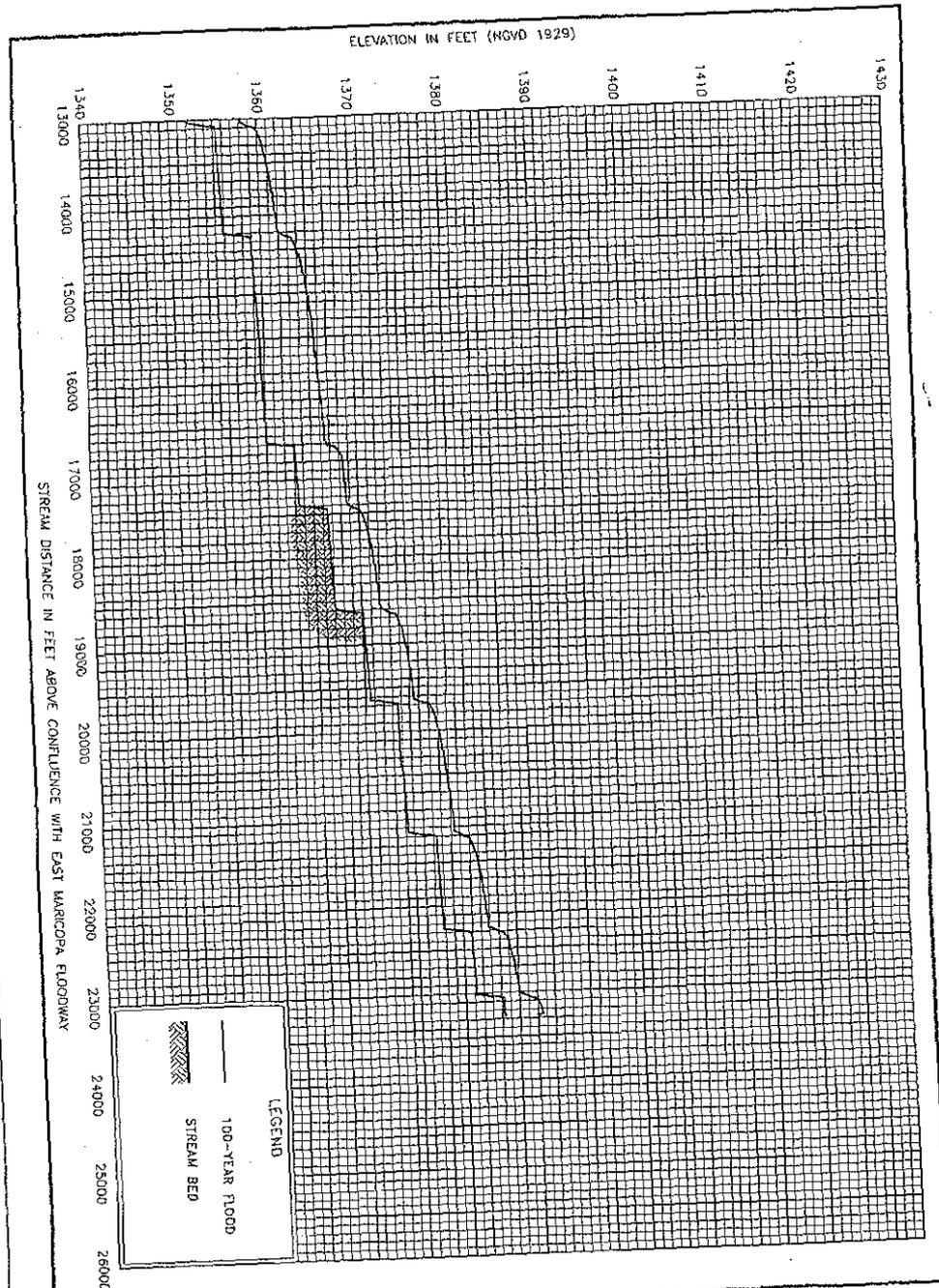
S:\ENG\HASAN\HOUSE\IP.DWG
12-2-88 SW



1P	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOOD PROFILE
	MARICOPA COUNTY, AZ AND INCORPORATED AREAS	RITTENHOUSE ROAD CHANNEL

Figure 4 (continued): Flood Profiles (continued).

MS 86-2-21
12 ENG\HASAN\RHOUSE\IP.DWG



LEGEND

100-YEAR FLOOD

STREAM BED

FEDERAL EMERGENCY MANAGEMENT AGENCY
 MARICOPA COUNTY, AZ
 AND INCORPORATED AREAS

FLOOD PROFILE
 RITTENHOUSE ROAD CHANNEL

2P

Hasan Mushtaq - FCDX

From: Raju Shah - FCDX
Sent: Monday, October 26, 1998 4:47 PM
To: Hasan Mushtaq - FCDX
Subject: RE: LOMR request for the Rittenhouse Road Channel

As of today, that is very likely to happen. The Construction of the channel is about 95% complete. So, by middle of November it should be 100% complete and we should receive As-Built plans.
Thanks.

-----Original Message-----

From: **Hasan Mushtaq - FCDX**
Sent: Monday, October 26, 1998 4:40 PM
To: Raju Shah - FCDX
Subject: RE: LOMR request for the Rittenhouse Road Channel

Thank you for the compliment.

However, please keep in mind that the following plan will only be good subject to receiving the As-Built information and the O & M Plan by the end of November.

Thanks.

Hasan Mushtaq

-----Original Message-----

From: Raju Shah - FCDX
Sent: Monday, October 26, 1998 4:28 PM
To: Hasan Mushtaq - FCDX
Subject: RE: LOMR request for the Rittenhouse Road Channel

Good plan. Let's stick with it. Thanks.

-----Original Message-----

From: **Hasan Mushtaq - FCDX**
Sent: Monday, October 26, 1998 3:21 PM
To: Raju Shah - FCDX
Cc: Valerie Swick - FCDX; Pedro Calza - FCDX
Subject: RE: LOMR request for the Rittenhouse Road Channel

In that case, following is my recommendation:

- (1) Complete the Technical Data Notebook (10/30/98).
- (2) Wait for the As-Built (11/30/98).
- (3) Verify As-Built information once it is done (12/7/98).
- (4) Make changes to the TDN as necessary (12/14/98).
- (5) Submit to FEMA (12/18/98).

Please note that I shall also need a Maintenance Plan for the Rittenhouse Channel to be included with LOMR submission.

Thanks you.

Hasan Mushtaq

-----Original Message-----

From: Raju Shah - FCDX
Sent: Monday, October 26, 1998 2:35 PM
To: Hasan Mushtaq - FCDX
Subject: RE: LOMR request for the Rittenhouse Road Channel

Seem like it will not be before end of November.

-----Original Message-----

From: Hasan Mushtaq - FCDX
Sent: Monday, October 26, 1998 12:33 PM
To: Raju Shah - FCDX
Cc: Valerie Swick - FCDX; Pedro Calza - FCDX
Subject: LOMR request for the Riffenhouse Road Channel

The LOMR document should be finalized before the end of this week (10/30/98). However, I need to find out when do you expect the "As-Built" information to be completed. Please let me know.

Thanks.

Hasan Mushtaq

RM 1118 on FEMA map

RM 53 on FIS map

NAD 1983

N 823919.118

E 786203.664

NAD 1927

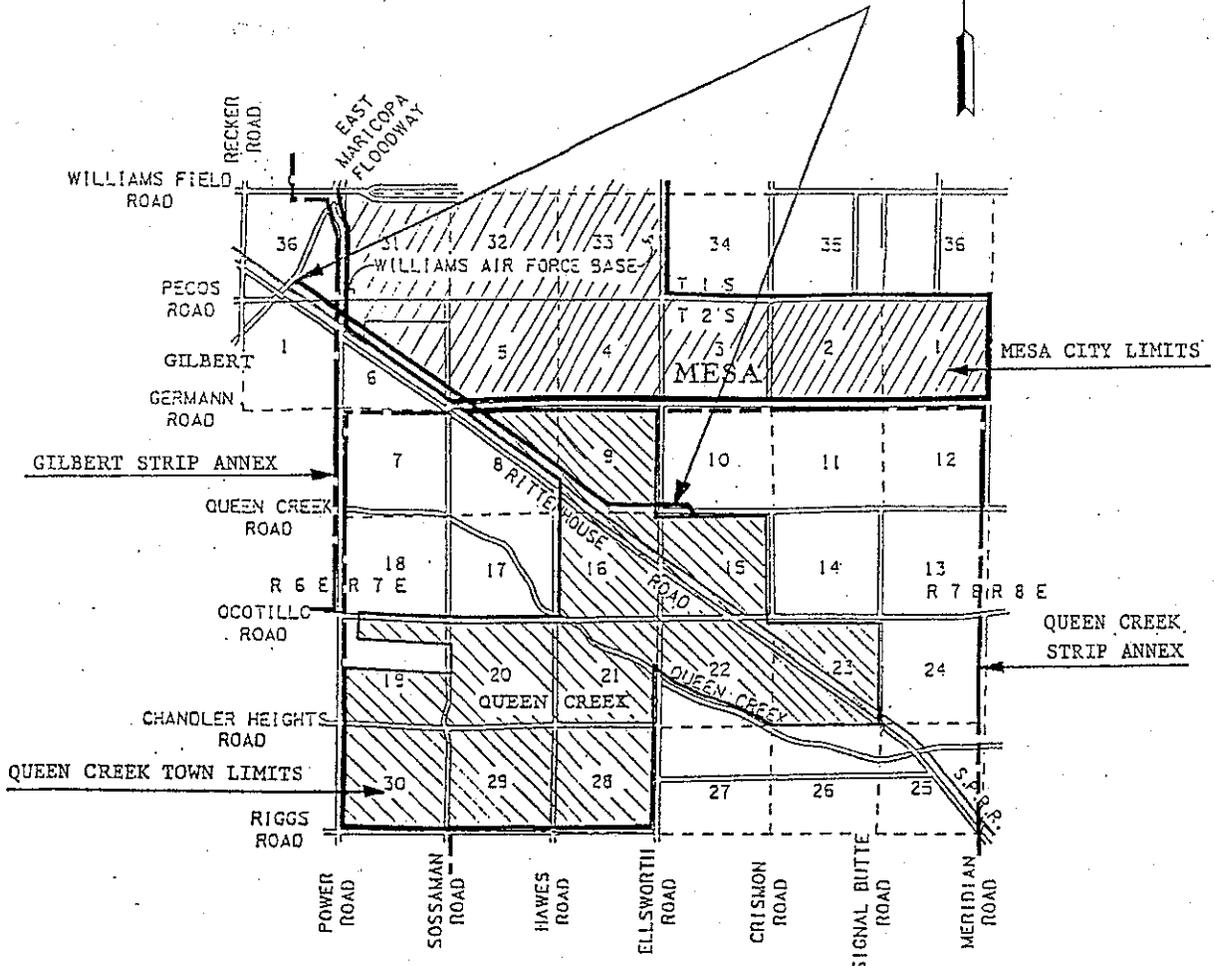
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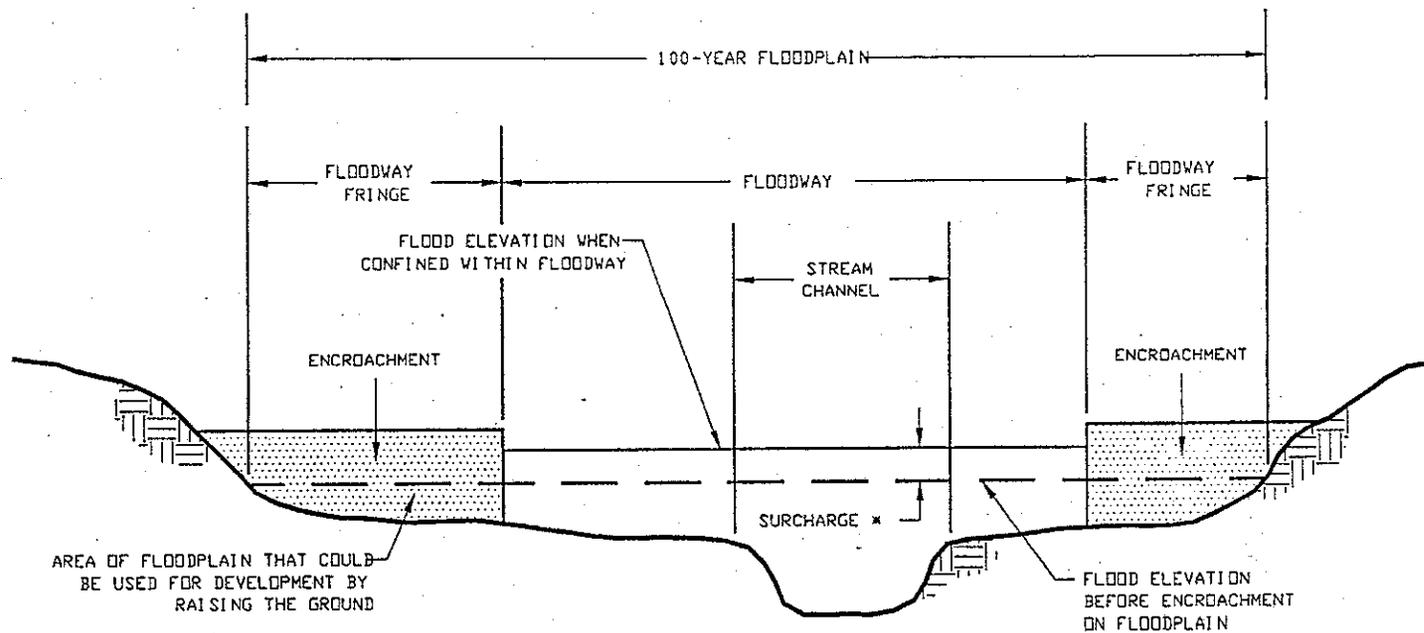
LEGEND

-  MESA CITY LIMITS
-  QUEEN CREEK TOWN LIMITS

**Rittenhouse Road
Channel Project**



VICINITY MAP
NOT TO SCALE



* SURCHARGE NOT TO EXCEED 1.0 FOOT (FEMA REQUIREMENT) OR LESSER AMOUNT IF SPECIFIED BY STATE

DISK 5
MATCHES FCD 86-23
REPORT

EXISTING

DISK 4

SOUTHERN PACIFIC RR
FEMA MAP
RITTENHOUSE RD.

DISK 3

QUEEN CREEK CHANNEL
IMPROVEMENT

DISK 2

NOQUISH WASH CHANNEL
IMPROVEMENT

DISK 1

MATCHES FCD 86-23
REPORT

SELECTED ALTERNATIVE

Queen Creek ADMS 1/91
FCD 86-23 Exist. Hydraulics
86328QC1. DAT/OUT
86328 SW1. DAT/OUT

PRECISIONTM
FLEXIBLE DISKS

2S-HC
Double-Side
High-Density
Soft-Sector
Disk No.

FCD 89-53 Southern Pacific R.R.
Hydrology - Hydraulics
FEMA Approved 8/90 (#43)
FIS Queen Creek

No. 86328QC3. DAT/OUT 7/90
Queen Creek Channel Improve.

maxell® Reliable & Durable
MINI-FLOPPY DISK

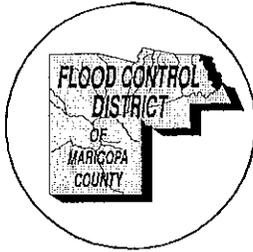
MD2-D
DOUBLE SIDED/DOUBLE DENSITY

Queen Creek ADMS FCD No. 8623
9-26-90
Sanqui Wash Channel Improvement
86328 SW4. DAT/OUT

Queen Creek ADMS 2-4-91
SELECTED ALTERNATIVE HEC-2
86328 QC5. DAT/OUT
86328 SW4. DAT/OUT

ATDK[®]
Mini-Floppy Disk

TESTED AND CERTIFIED
100% ERROR FREE



*Flood Control District of Maricopa County
 2801 West Durango Street
 Phoenix, Arizona 85009-6399
 (602) 506-1501
 FAX: (602) 506-4601
 TT: (602) 506-5897*

August 18, 1998

MEMO TO: RCS, VAS, SHW

FROM: HSM

VIA: PAC

SUBJECT: Rittenhouse Channel Letter of Map Revision (LOMR)

Due to the unavailability of a hydraulic model from the consultant, it was decided that an HEC-RAS hydraulic model would be developed from the East Maricopa Floodway to Ellsworth Road for the Rittenhouse Channel LOMR. Therefore, please find the following revised tasks and the deadlines for the study.

As per recommendation from PAC, I have modified the schedule for a later completion date.

Tasks	Person responsible	Estimated deadline
Complete Revision Requestor and Community Official Form by the respective community officials	HSM, RCS	9/28/98
Complete Certification by Registered Professional Engineer and/or Land Surveyor Form	HSM, RCS	9/28/98
Complete Channelization form with additional information	HSM, RCS	9/28/98
Complete Bridge forms and complete collecting as-builts	HSM, RCS	9/28/98
Build HEC-RAS hydraulic model to reflect the proper alignment, new cross-sections, and the culvert from the intersection with SPRR to Ellsworth Road	HSM, VAS	10/05/98
Approximate method delineation from Ellsworth Road to the culvert under the SPRR	HSM, VAS	10/05/98
Prepare Water Surface Profiles for the length of the project	HSM, SHW	10/12/98
Prepare work maps for the revised floodplain delineation	HSM, VAS	10/12/98
Prepare Technical Data Notebook for FEMA submittal	HSM, VAS, RCS	10/30/98

**FLOOD CONTROL DISTRICT
OF
MARICOPA COUNTY**

INTEROFFICE MEMORANDUM

DATE: March 23, 1998

SUBJECT: Rittenhouse Channel Improvements – EMF to Ellsworth Road
(CLOMR package submittal request)

FROM: Raj Shah

TO: Pedro Galza

CC: Dave Johnson

CC: Shanna Yager

CC: Amir Motamedi

Attached with this memo is a set of plans and drainage report for the above referenced project. The project was phased in two phases for budgetary reasons. Phase I from EMF to Germann Road is already constructed and Phase II from Germann Road to Ellsworth Road is currently under construction and will be constructed by October 1998.

There is a FEMA designated zone "A" floodplain within the project vicinity. After completion of the project, entire floodplain will be removed. There are at least two developers who are currently under way with their subdivisions within this FEMA designated Zone "A" floodplain. To my knowledge, the District has not approached to FEMA with this project to obtain CLOMR. I believe that it would be beneficial to these developers and other property owners if we approach FEMA with CLOMR application.

Please provide me with your timeline in when you can start and finish this CLOMR package.

FLOOD INSURANCE STUDY

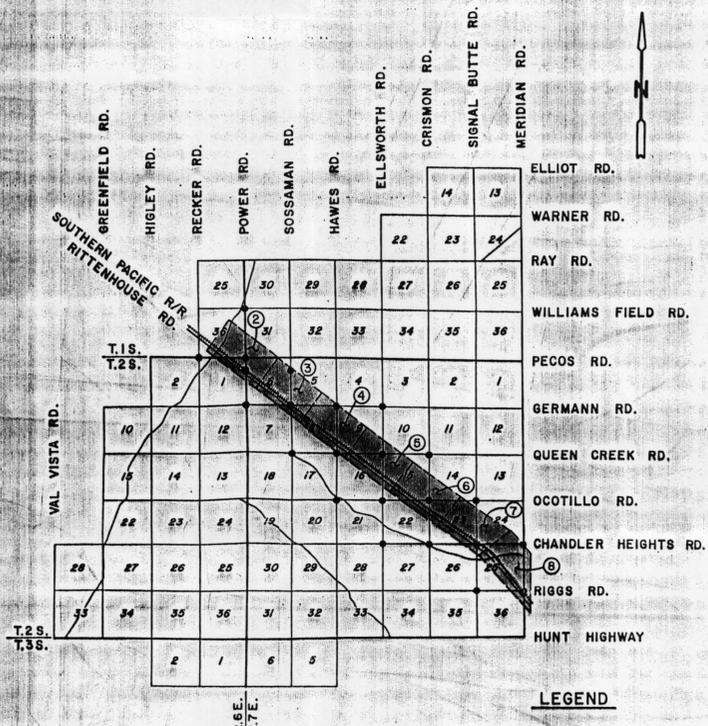
SOUTHERN PACIFIC RAILROAD

QUEEN CREEK AREA, MARICOPA COUNTY

FCD CONTRACT 89-53 WA JOB NO. 89500

ELEVATION REFERENCE MARKS
NOTE: All Elevations Based On National Geodetic Vertical Datum of 1929.

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
RM 18	1325.64	Brass cap in hand hole near Williams Air Force Base entrance just south on Power Road.
RM 26	1315.16	Brass cap flush at intersection of Pecos and Recker Roads.
RM 27	1332.42	P.K. nail at intersection of Power and Pecos Roads.
RM 32	1335.49	P.K. nail on Power Road 1320' south of Pecos Road.
RM 38	1336.29	Brass cap flush at intersection of Germann and Power Roads.
RM 33	1349.93	Hub and tack on Sossaman Road, 1320' south of Pecos Road, 25.5' east and 6' north of the SE corner of 6' industrial chain link fence.
→RM 39	1355.38	1" pipe in pot hole at intersection of Sossaman and Germann Roads.
RM 51	1359.51	P.K. nail 200' north of Queen Creek Wash near the intersection of Queen Creek and Sossaman Roads.
RM 40	1374.53	1" pipe flush at intersection of Hawes and Germann Roads.
RM 52	1375.61	P.K. nail at intersection of Howard Pile Drive and Hawes Roads.
RM 62	1381.29	Brass cap flush at intersection of Ocotillo and Hawes Roads.
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→RM 53	1394.55	Brass cap in hand hole at intersection of Queen Creek and Ellsworth Roads.
RM 63	1399.80	Brass cap in hand hole at intersection of Ellsworth and Ocotillo Roads.
RM 74	1400.63	Brass cap in hand hole at intersection of Ellsworth and Chandler Heights Roads.
RM 54	1412.06	Brass cap in hand hole at intersection of Crismon and Queen Creek Roads.
RM 64	1415.08	1" pipe flush at intersection of Crismon and Ocotillo Roads.
RM 75	1416.87	Hub and tack 46' west of intersection of Crismon and Chandler Heights Roads.
RM 65	1429.50	P.K. nail at intersection of Ocotillo and Signal Butte Roads.
RM 76	1441.68	Hub and tack near intersection of Signal Butte and Chandler Heights Roads, 10' + north of 10' dirt road and 43' + east of railroad tracks.
RM 87	1437.66	Hub and tack at intersection of Riggs and Signal Butte Roads.
RM 77	1456.41	Hub and tack at intersection of Chandler Heights and Meridian Roads, 19' + west of power lines on north edge 10' dirt road.
RM 88	1459.95	P.K. nail near intersection of Riggs and Meridian Roads.



FLIGHT DATE
OCTOBER 19, 1986
NOVEMBER 22, 1986

LEGEND
 32 SECTION NUMBER
 MAPPING LIMITS
 ② SHEET NUMBER
 ● ERM (ELEVATION REFERENCE MARK)

LEGEND

Corporate Limits	Corporate Limits
County Limits	County Boundary
Excluded Areas	Limit of Study
100-Year Floodplain Boundary	
Approximate (100-Year) Floodplain Boundary	
Cross Section	A — A
Elevation Reference Marks	RM7 X
River Mile	M 1.561
Flowline	
Base Flood Elevations	580
Zone designations	ZONE AH
Elevations from Field Survey Dated 11-28-89	(1357.44)
Elevations from Field Survey Dated 1-8-90 and approved construction drawings for the R.W.C.D. Floodway - Reach 4 Dated 4-24-86	(1321.0)

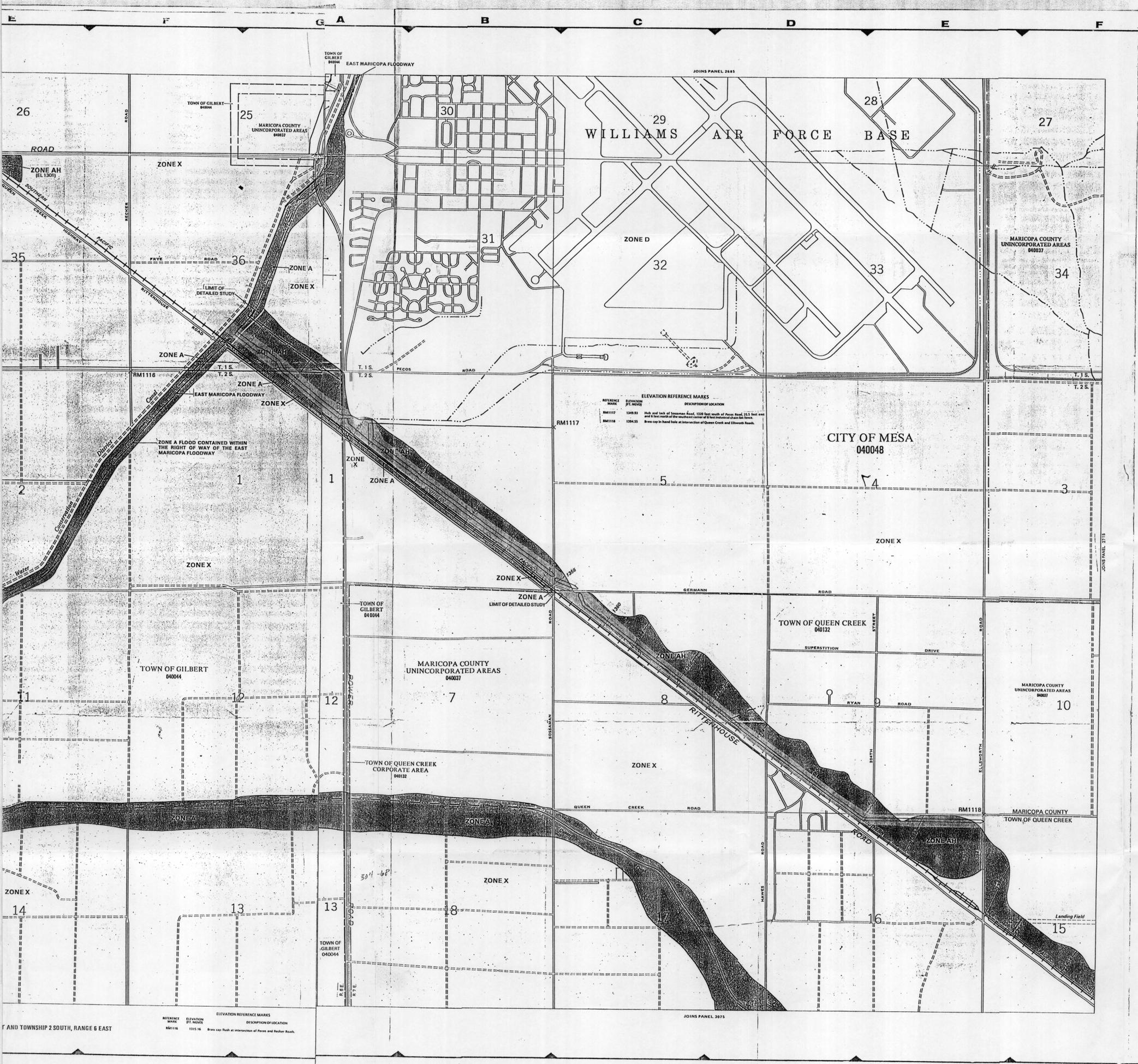
CENTRAL FILES

313

QUEEN CREEK AREA/SOUTHERN PACIFIC RAILROAD AREA FIS
WOOD & ASSOC.
STUDY 1990 FCD 89-53



PREPARED FOR:				
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY				
PREPARED BY:				
WOOD & ASSOCIATES, INC. CONSULTING CIVIL ENGINEERS				
4105 N. 20th Street • Suite 130 • Phoenix, Arizona • (602)957-3149				
DESIGN	BY	DATE	SUBMITTED BY:	DATE
DESIGN CHK.	D. Wood	1/90	L. Thomas	1/17/90
PLANS	K. McHewitt	1/90	RECOMMENDED BY:	DATE
PLANS CHK.	L. Thomas	1/90	APPROVED BY:	DATE
			CHIEF ENGINEER & GENERAL MANAGER	



LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AD** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of elevated sea flooding, velocities also determined.
- ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base elevations determined.
- ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

OTHER AREAS

- ZONE X** Areas determined to be outside 500-year flood plain.
- ZONE D** Areas in which flood hazards are underestimated.

Boundaries

- Flood Boundary
- Floodway Boundary
- Zone D Boundary
- Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.

Elevations

- Base Flood Elevation Line; Elevation in Feet
- Cross Section Line (EL 987)
- Base Flood Elevation in Feet Where Uniform Within Zone*
- Elevation Reference Mark

*Referenced to the National Geodetic Vertical Datum of 1929

NOTES

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size or intermittent features outside Special Flood Hazard Areas.

Areas of special flood hazard (100-year flood) include Zones A, A1-30, AE, AH, AD, A99, V, VE, X, and D.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodway boundaries were based on hydraulic computations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Floodway widths are provided in the Flood Insurance Study Report.

Coastal base flood elevations apply only landward of the shoreline.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of the map.

For community map revision history prior to countywide mapping, see Section 6.0 of the Flood Insurance Study Report.

For adjoining map panels see separately printed Map Index

MAP REPOSITORY
Refer to Repository Listing on Index Map

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP:
APRIL 15, 1988

EFFECTIVE DATE (S) OF REVISION (S) TO THIS PANEL:
Map revised September 4, 1981 to update corporate limits, to change base flood elevations, to add base flood elevations, to add special flood hazard areas, to change special flood hazard areas, to change zone designations, to update map format, to add roads and road names and to incorporate previously issued letters of map revision.

Map revised DECEMBER 3, 1993 to change base flood elevations, to add base flood elevations, to add special flood hazard areas, to change special flood hazard areas, to change zone designations, to update map format, to add roads and road names, to reflect updated topographic information, and to incorporate previously issued letters of map revision.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6629.

APPROXIMATE SCALE IN FEET
1000 500 0 500 1000

2690 F

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 2690 OF 4350

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
GILBERT TOWN OF	04004	2690	F
MARICOPA COUNTY UNINCORPORATED AREAS	04007	2690	F
MESA CITY OF	04008	2690	F

MAP NUMBER 04013C2690 F
MAP REVISED: DECEMBER 3, 1993

Federal Emergency Management Agency

2695 F

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

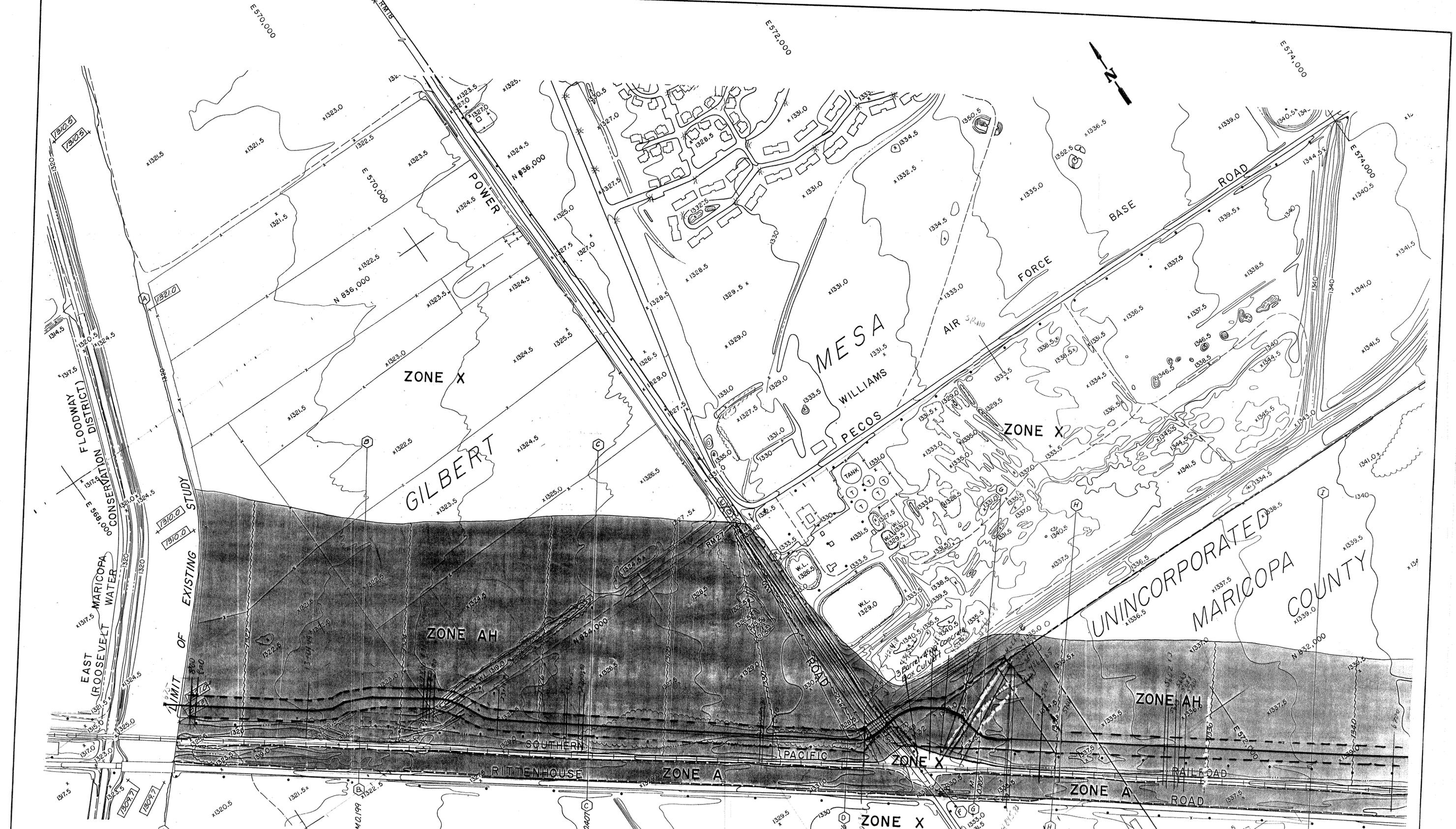
PANEL 2695 OF 4350

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
GILBERT TOWN OF	04004	2695	F
MARICOPA COUNTY UNINCORPORATED AREAS	04007	2695	F
MESA CITY OF	04008	2695	F

MAP NUMBER 04013C2695 F
MAP REVISED: DECEMBER 3, 1993

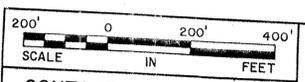
Federal Emergency Management Agency



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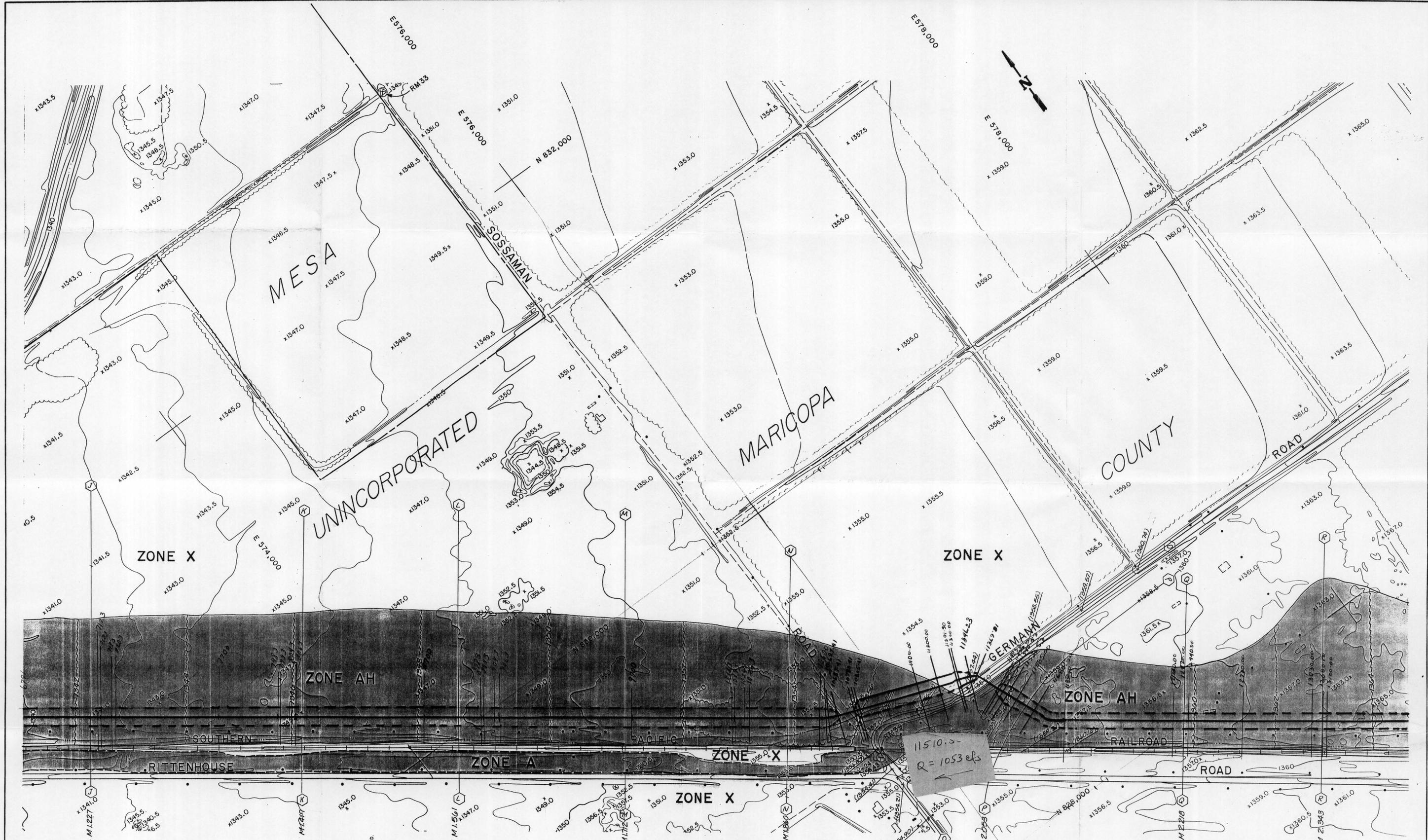
Elevations from Field Survey Dated 1-8-90 and approved construction drawings for the R.W.C.D. Floodway - Reach 4 Dated 4-24-86



CONTOUR INTERVAL = 2'
 FLIGHT DATE:
 NOVEMBER 22, 1986
 FCD CONTRACT 89-53
 WA JOB NO. 89500

FLOOD INSURANCE STUDY
SOUTHERN PACIFIC RAILROAD
QUEEN CREEK AREA, MARICOPA COUNTY
 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WOOD & ASSOCIATES, INC.
 CONSULTING CIVIL ENGINEERS
 4105 N. 20th Street • Suite 130 • Phoenix, AZ



ELEVATION REFERENCE MARKS
 NOTE: All Elevations Based On National Geodetic Vertical Datum of 1929.

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RM 51	1359.51	

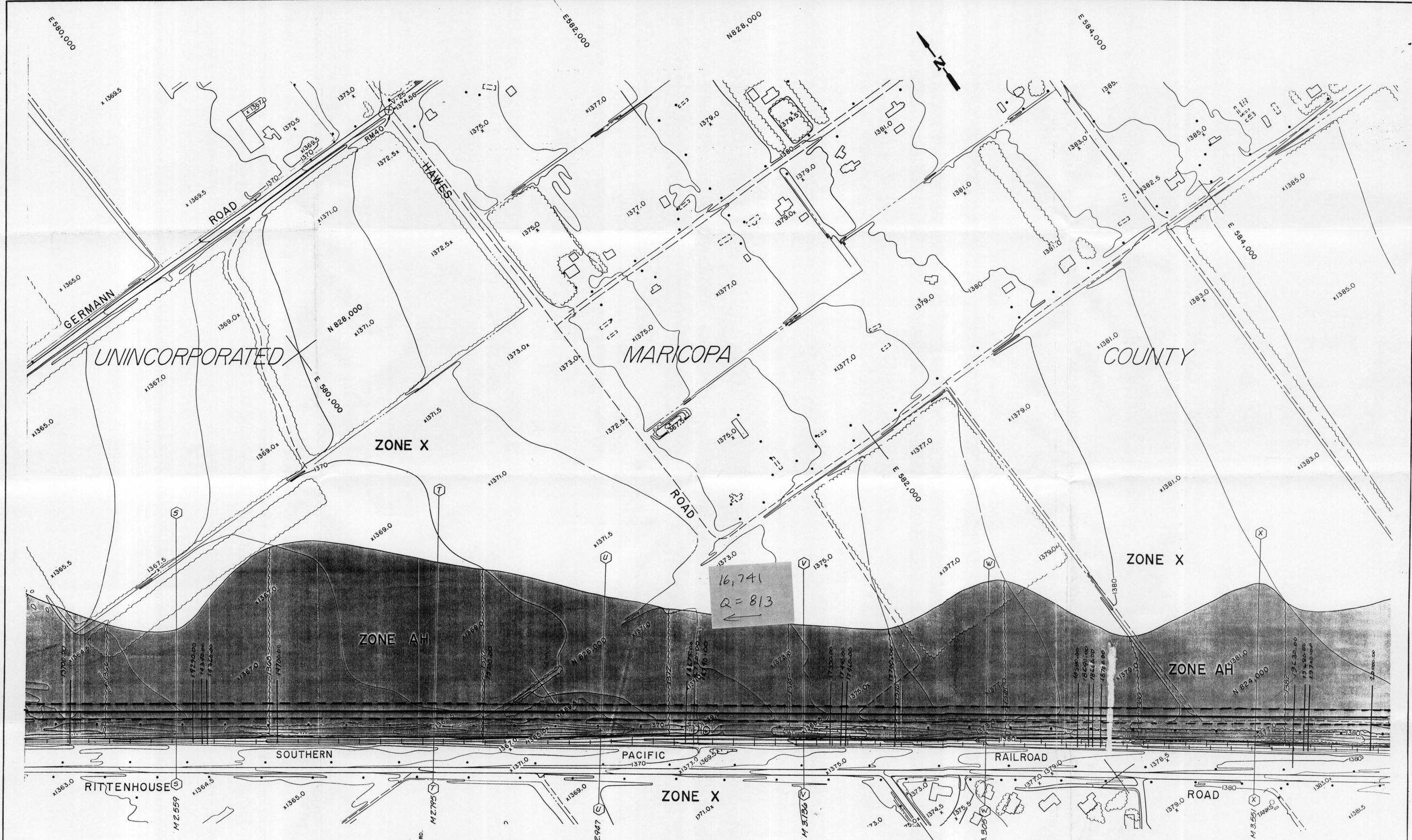
Elevations from Field Survey Dated 11-28-89

- RECKER RD.
- POWER RD.
- BOSSAMAN RD.
- ELVES RD.
- CRISMON RD.
- SIGNAL BUTTE RD.
- WILLIAMS FIELD RD.
- PECOS RD.
- GERMANN RD.
- QUEEN CREEK RD.
- OCOTILLO RD.
- CHANDLER HEIGHTS RD.
- RIGGS RD.
- HUNT HIGHWAY

200' 0 200' 400'
 SCALE IN FEET
 CONTOUR INTERVAL = 2'
 FLIGHT DATE:
 NOVEMBER 22, 1986
 FCD CONTRACT 89-53
 WA JOB NO. 89500

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SOUTHERN PACIFIC RAILROAD
QUEEN CREEK AREA, MARICOPA COUNTY
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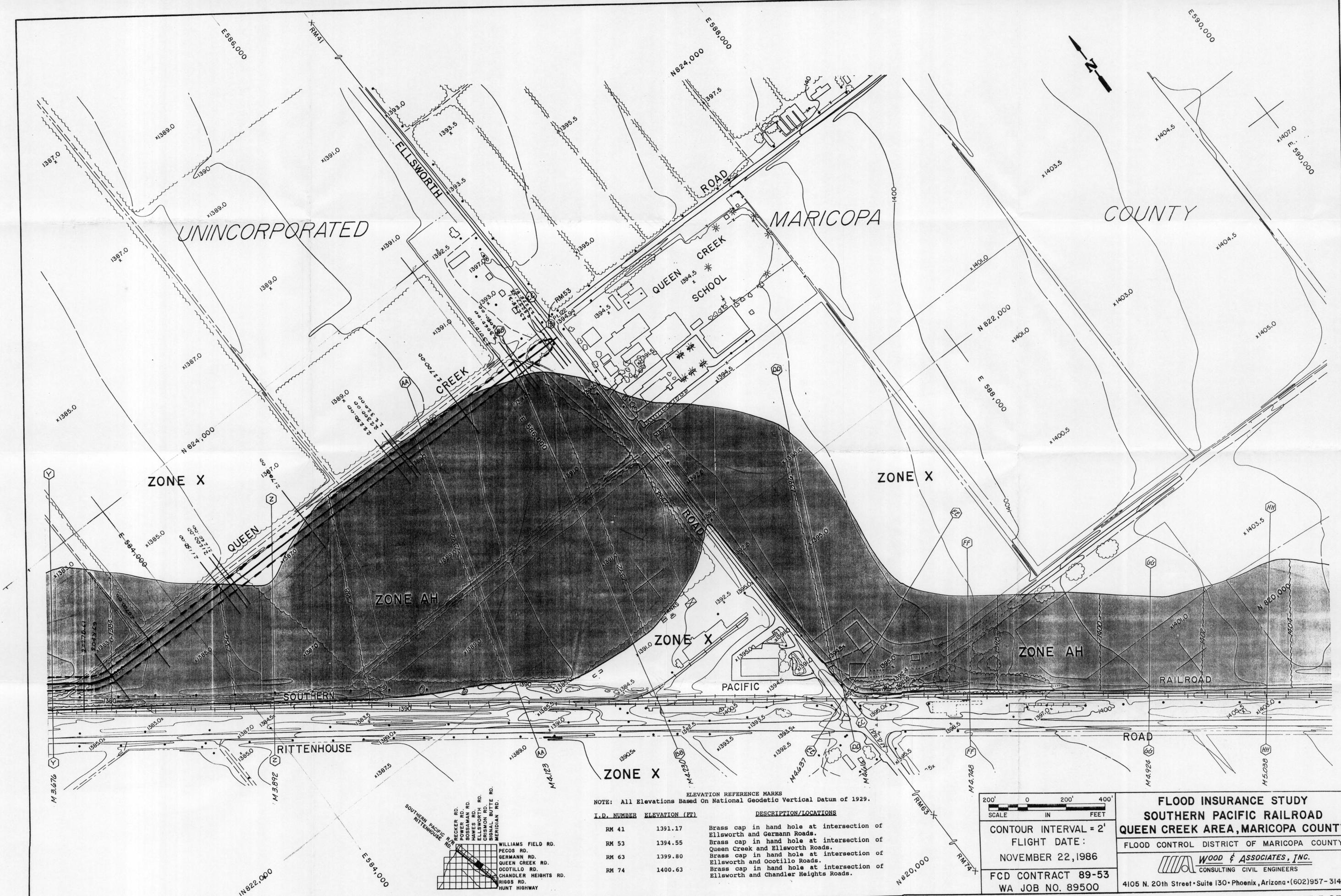
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ROAD NAME	MARKER ID	ELEVATION (FT)
RECKER RD.	M 2559	1367.5
POWER RD.	M 2947	1371.0
ROSSMAN RD.	M 3305	1375.0
ELLSWORTH RD.	M 3305	1375.0
CRISMON RD.	M 3305	1375.0
SIGNAL BUTTE RD.	M 3305	1375.0
MERIDIAN RD.	M 3305	1375.0
WILLIAMS FIELD RD.	M 3305	1375.0
GERMANN RD.	M 3305	1375.0
QUEEN CREEK RD.	M 3305	1375.0
OCTILLO RD.	M 3305	1375.0
CHANDLER HEIGHTS RD.	M 3305	1375.0
RIGGS RD.	M 3305	1375.0
HUNT HIGHWAY	M 3305	1375.0

200' 0 200' 400'
 SCALE IN FEET
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RM 63	1399.80	Brass cap in hand hole at intersection of Ellsworth and Ocotillo Roads.
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- ELEVATION REFERENCE MARKS
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 - PECOS RD.
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 - HUNT HIGHWAY

200' 0 200' 400'
SCALE IN FEET

CONTOUR INTERVAL = 2'
FLIGHT DATE:
NOVEMBER 22, 1986

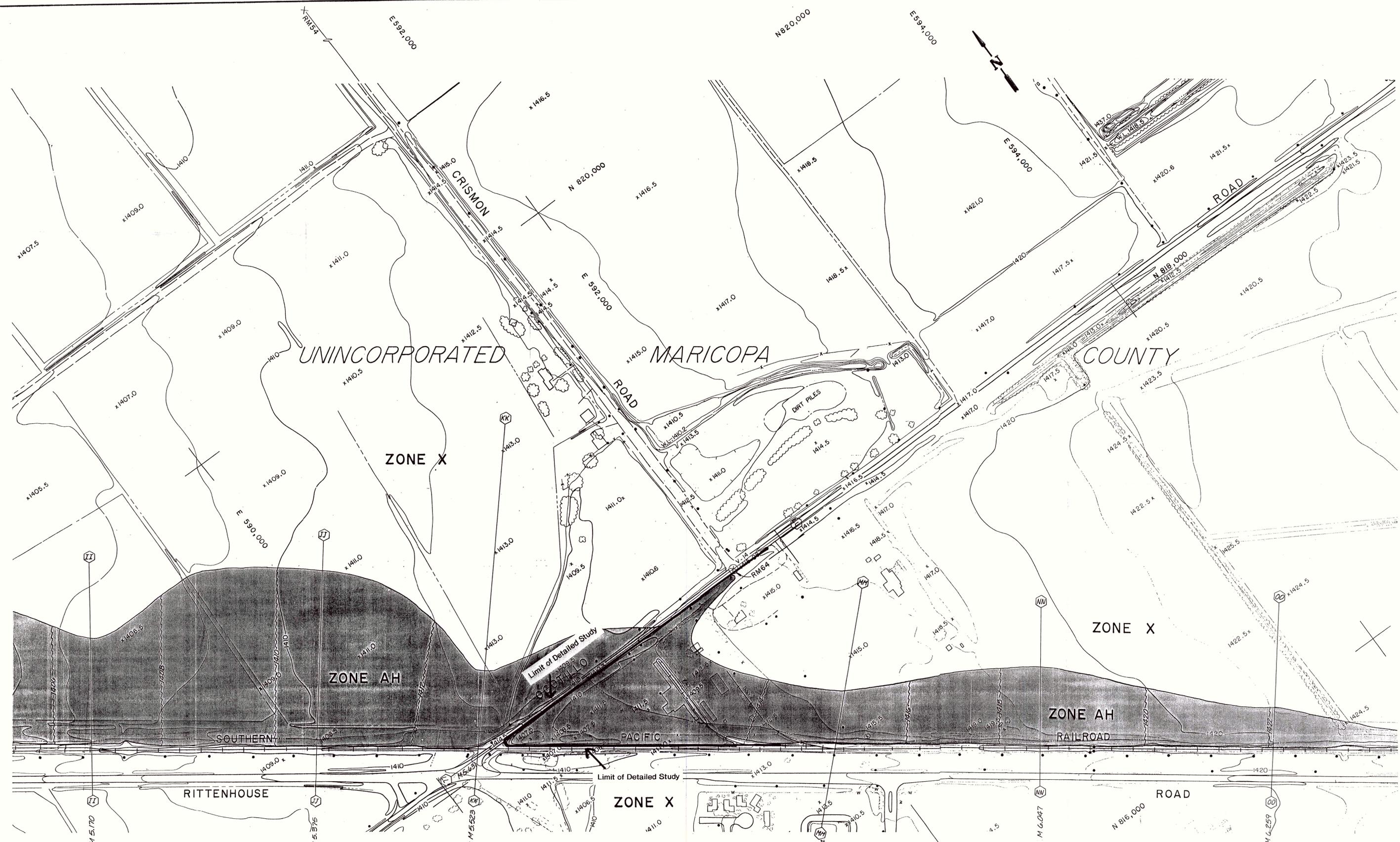
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FLOOD INSURANCE STUDY
SOUTHERN PACIFIC RAILROAD
QUEEN CREEK AREA, MARICOPA COUNTY

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

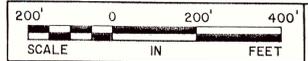
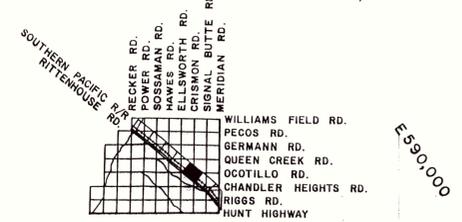
 **WOOD & ASSOCIATES, INC.**
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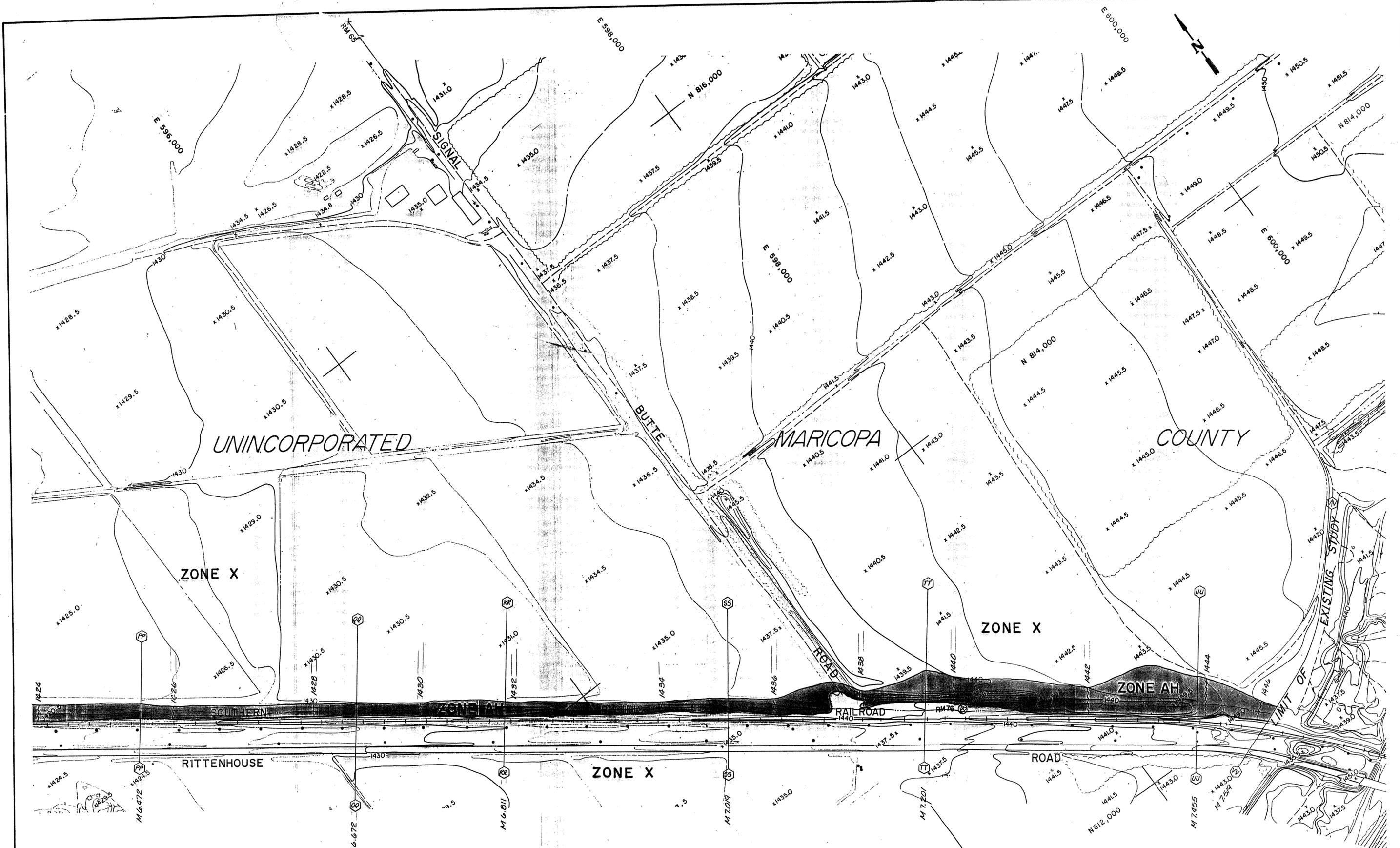
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RM 54	1412.06	Brass cap in hand hole at intersection of Crismon and Queen Creek Roads.
RM 64	1415.08	1" pipe flush at intersection of Crismon and Cocotillo Roads.
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CONTOUR INTERVAL = 2'
 FLIGHT DATE:
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FLOOD INSURANCE STUDY
SOUTHERN PACIFIC RAILROAD
QUEEN CREEK AREA, MARICOPA COUNTY
 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

4105 N. 20th Street • Suite 130 • Phoenix, Arizona • (602) 957-3149



UNINCORPORATED

MARICOPA

COUNTY

ZONE X

ZONE X

ZONE AH

RITTENHOUSE

ZONE X

ROAD

RAILROAD

RECKER RD.	WILLIAMS FIELD RD.
POWER RD.	PECOS RD.
SOSSAMAN RD.	GERMANN RD.
ELLISWORTH RD.	QUEEN CREEK RD.
CRISMON RD.	OCOTILLO RD.
SIGNAL BUTTE RD.	CHANDLER HEIGHTS RD.
MERIDIAN RD.	RIGGS RD.
	HUNT HIGHWAY

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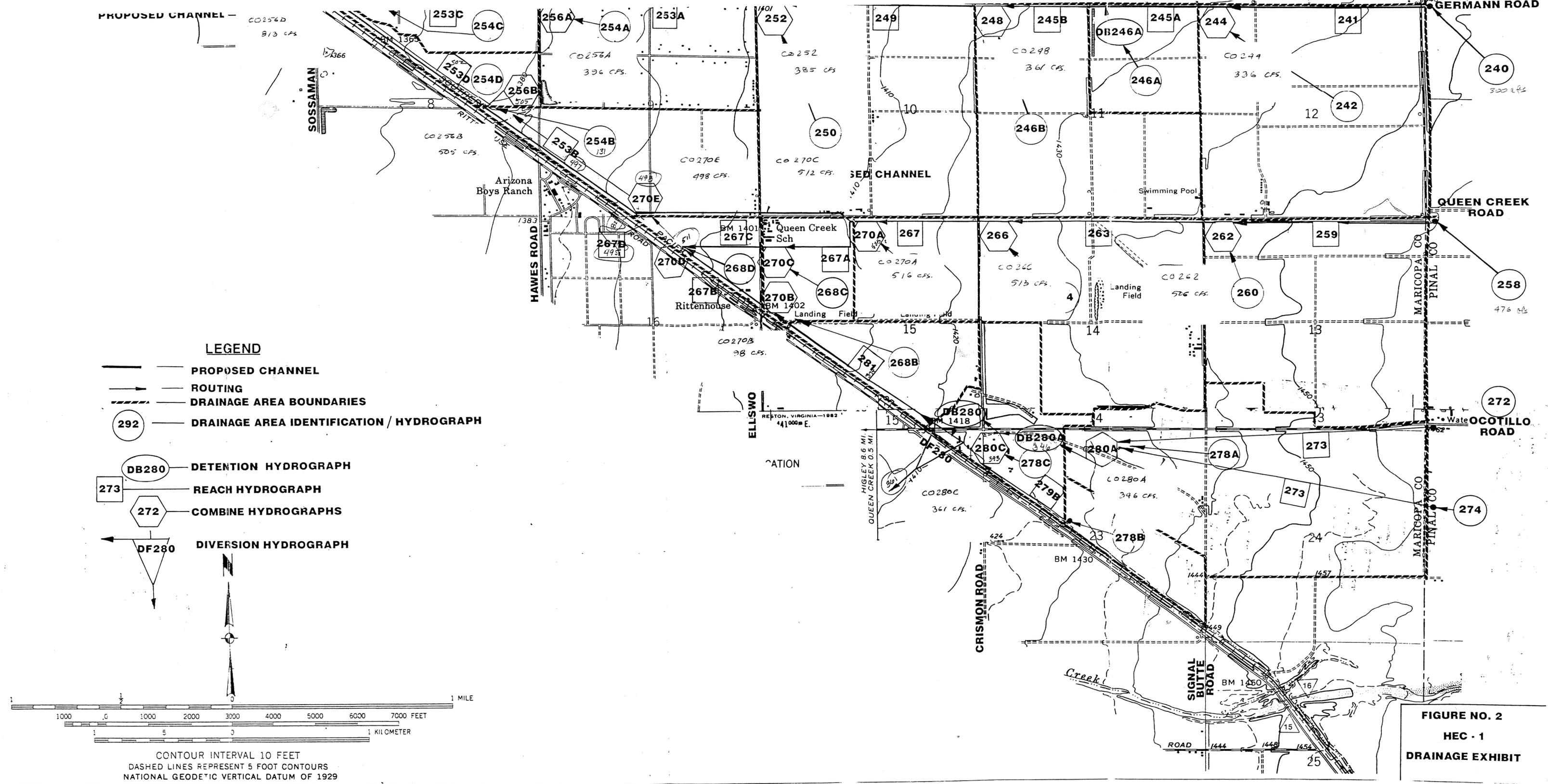
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SOUTHERN PACIFIC RAILROAD
QUEEN CREEK AREA, MARICOPA COUNTY

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

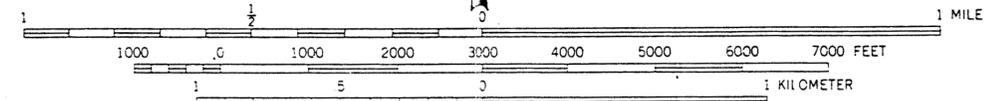
WOOD & ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
4105 N. 20th Street • Suite 130 • Phoenix, Arizona • (602)957-3149



PROPOSED CHANNEL -
 CO256D
 913 CFS

LEGEND

- PROPOSED CHANNEL
- ROUTING
- DRAINAGE AREA BOUNDARIES
- DRAINAGE AREA IDENTIFICATION / HYDROGRAPH
- DETENTION HYDROGRAPH
- REACH HYDROGRAPH
- COMBINE HYDROGRAPHS
- DIVERSION HYDROGRAPH



CONTOUR INTERVAL 10 FEET
 DASHED LINES REPRESENT 5 FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

FIGURE NO. 2
HEC - 1
DRAINAGE EXHIBIT