



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	Town of Gilbert Maricopa County Arizona	NO PROJECT	HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 040044		
IDENTIFIER	North Gilbert Hydrology Update: Consolidate Canal/Upr	APPROXIMATE LATITUDE & LONGITUDE: 33.357, -117.794 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 04013C2731M DATE: November 4, 2015 TYPE: FIRM* NO.: 04013C2732M DATE: November 4, 2015		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 04, 2015 SUMMARY OF DISCHARGES TABLE: TABLE 3 STILLWATER ELEVATION TABLE: TABLE 4	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCE(S) & REVISED REACH(ES)

Consolidated Canal (Chandler/Gilbert FDS) - North of E Hearn Way (Freestone Park) (P308) (hereafter referred to as Consolidated Canal (P308)) - from just downstream of the Union Pacific railroad to approximately 720 feet downstream of North Old Lindsay Road

Union Pacific Railroad (Chandler/Gilbert FDS) on NE/SE aligned railroad - North of Western Canal (P516) (hereafter referred to as Union Pacific Railroad (P516)) - from approximately 900 feet upstream of West Vaughn Avenue to approximately 800 feet downstream of West Vaughn Avenue

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Consolidated Canal (P308)	BFEs*	BFEs	NONE	YES
	Zone AH	Zone AH	NONE	YES
Union Pacific Railroad (P516)	BFEs	BFEs	NONE	YES
	Zone AH	Zone AH	NONE	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Consolidated Canal (Chandler/Gilbert FDS) - North of Elliot (Freestone Park) (P308) (hereafter referred to as Consolidated Canal North of Elliot (P308)) - from just downstream of the Union Pacific railroad to approximately 720 feet downstream of North Old Lindsay Road

Consolidated Canal (Chandler/Gilbert FDS) - North of Union Pacific RR (P310) (hereafter referred to as Consolidated Canal (P310)) - from just downstream of the Union Pacific railroad to approximately 720 feet downstream of North Old Lindsay Road

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Consolidated Canal North of Elliot (P308)	BFEs*	BFEs	NONE	YES
	Zone AH	Zone AH	NONE	YES
Consolidated Canal (P310)	BFEs	BFEs	NONE	YES
	Zone AH	Zone AH	NONE	YES

* BFEs - Base Flood Elevations

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 040037 **Name:** Maricopa County, Arizona

AFFECTED MAP PANELS

TYPE: FIRM* NO.: 04013C2732M DATE: November 4, 2015

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 4, 2015
SUMMARY OF DISCHARGES TABLE: TABLE 3
STILLWATER ELEVATION TABLE: TABLE 4

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 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, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

A handwritten signature in black ink, appearing to read "Rick F. Sacbibit".

Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Jeffrey D. Lusk
Director, Mitigation Division
Federal Emergency Management Agency, Region IX
1111 Broadway Street, Suite 1200
Oakland, CA 94607-4052
(510) 627-7175

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration

Table 3. Summary of Discharges

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (Sq. Miles)	PEAK DISCHARGES (cfs)			
		10-PERCENT ANNUAL CHANCE	2-PERCENT ANNUAL CHANCE	1-PERCENT ANNUAL CHANCE	0.2-PERCENT ANNUAL CHANCE
Union Pacific Railroad					
At Apache Road	2.6	220	450	650	-- ¹
At Miller Road	2.0	50	210	410	-- ¹
At Ray Road	4.7	110	270	360	-- ¹
At Railroad Spur	2.2	120	280	320	-- ¹
Union Pacific Railroad (Chandler/Gilbert FDS) on NE/SE aligned railroad					
North of Western Canal (P516)	-- ¹	-- ¹	-- ¹	421	-- ¹
West of Cooper Road	-- ¹	-- ¹	-- ¹	1008	-- ¹
Union Pacific Railroad (Chandler/Gilbert FDS) on N/S aligned railroad					
North of Western Canal (P519)	-- ¹	-- ¹	-- ¹	805	-- ¹
North of Tremaine Road (P513A)	-- ¹	-- ¹	-- ¹	502	-- ¹
Union Pacific Railroad Ditch (flows decrease due to diversions along Southern Pacific Railroad)					
At confluence with Agua Fria River	15.87	-- ¹	-- ¹	720	-- ¹
At 115 th Avenue	14.52	-- ¹	-- ¹	440	-- ¹
At 107 th Avenue	13.55	-- ¹	-- ¹	760	-- ¹
At 99 th Avenue	12.12	-- ¹	-- ¹	850	-- ¹
At 91 st Avenue	10.24	-- ¹	-- ¹	760	-- ¹
At 83 rd Avenue	9.68	-- ¹	-- ¹	980	-- ¹
At 75 th Avenue	8.46	-- ¹	-- ¹	1,432	-- ¹
At 71 st Avenue	8.88	-- ¹	-- ¹	1,099	-- ¹
At 69 th Avenue	7.24	-- ¹	-- ¹	1,020	-- ¹
At 67 th Avenue	7.10	-- ¹	-- ¹	1,164	-- ¹
Union Pacific Railroad Spur					
At Ray Road	2.5	-- ¹	-- ¹	790	-- ¹

REVISED DATA

--¹ Data Not Computed

--² Data Not Available

**REVISED TO
REFLECT LOMR
EFFECTIVE: February 17, 2017**

Table 4. Summary of Stillwater Elevations

FLOODING SOURCE AND LOCATION	ELEVATIONS (Feet NAVD ¹)			
	10-PERCENT ANNUAL CHANCE	2-PERCENT ANNUAL CHANCE	1-PERCENT ANNUAL CHANCE	0.2-PERCENT ANNUAL CHANCE
Eastern Canal (Chandler/Gilbert FDS)				
North of Riggs Rd (P235S)	-- ²	-- ²	1,251.3	-- ²
Approx. ½ mile north of Riggs Rd (P235N)	-- ²	-- ²	1,245.5	-- ²
South of Chandler Heights Rd (P234)	-- ²	-- ²	1,252.0	-- ²
North of Chandler Heights Rd (P230)	-- ²	-- ²	1,245.7	-- ²
South of Ocotillo Rd (P227)	-- ²	-- ²	1,259.5	-- ²
At Queen Creek Rd (P238)	-- ²	-- ²	1,260.6	-- ²
½ mile north of Queen Creek Rd (P219/P237)	-- ²	-- ²	1,262.3	-- ²
North of Germann Rd (P215)	-- ²	-- ²	1,262.9	-- ²
½ mile north of Germann Rd (P212)	-- ²	-- ²	1,266.3	-- ²
South of Pecos Rd (P213)	-- ²	-- ²	1,266.2	-- ²
North of Pecos Rd (P207)	-- ²	-- ²	1,260.6	-- ²
½ mile north of Pecos Rd (P208S)	-- ²	-- ²	1,266.7	-- ²
South of Chandler Blvd (P208N)	-- ²	-- ²	1,266.1	-- ²
North of Chandler Blvd (P203)	-- ²	-- ²	1,269.0	-- ²
East of Val Vista Dr. (P202)	-- ²	-- ²	1,268.4	-- ²
North of Ray Rd (P200)	-- ²	-- ²	1,268.7	-- ²
North of Union Pacific RR (P188)	-- ²	-- ²	1,270.0	-- ²
North of Warner Rd (P115)	-- ²	-- ²	1,275.0	-- ²
South of Elliot Rd (P114)	-- ²	-- ²	1,277.1	-- ²
North of Elliot Rd (P111)	-- ²	-- ²	1,279.6	-- ²
South of Guadalupe Rd (P108)	-- ²	-- ²	1,280.1	-- ²
North of Guadalupe Rd (P105)	-- ²	-- ²	1,279.8	-- ²
South of Baseline Rd (P102)	-- ²	-- ²	1,282.7	-- ²
Consolidated Canal (Chandler/Gilbert FDS)				
South of Baseline Rd (P301)	-- ²	-- ²	1,247.1	-- ²
North of Guadalupe Rd (P303)	-- ²	-- ²	1,247.3	-- ²
East of N Lindsay Rd (Freestone Park) (P308)	-- ²	-- ²	1,244.0	-- ²
North of E Hearn Way (Freestone Park) (P308)	-- ²	-- ²	1,242.3	-- ²
North of E Elliot Rd (Freestone Park) (P308)	-- ²	-- ²	1,244.8	-- ²
North of Union Pacific RR (P310)	-- ²	-- ²	1,244.6	-- ²
North of Warner Rd (P311)	-- ²	-- ²	1,242.0	-- ²
South of Warner Rd (P313)	-- ²	-- ²	1,241.6	-- ²
West of Gilbert Rd (P314)	-- ²	-- ²	1,241.1	-- ²

← REVISIED DATA

¹ North American Vertical Datum of 1988
² Data Not Available

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Table 4. Summary of Stillwater Elevations

FLOODING SOURCE AND LOCATION	ELEVATIONS (Feet NAVD ¹)			
	10-PERCENT ANNUAL CHANCE	2-PERCENT ANNUAL CHANCE	1-PERCENT ANNUAL CHANCE	0.2-PERCENT ANNUAL CHANCE
Consolidated Canal (CG FDS)(continued)				
North of Ray Rd (P316)	-- ²	-- ²	1,237.3	-- ²
North of Chandler Blvd (P402)	-- ²	-- ²	1,237.6	-- ²
South of Chandler Blvd (P406N)	-- ²	-- ²	1,236.2	-- ²
North of Pecos Rd (P406S)	-- ²	-- ²	1,234.0	-- ²
South of Pecos Rd (P409)	-- ²	-- ²	1,231.8	-- ²
North of Queen Creek Rd (P415)	-- ²	-- ²	1,230.1	-- ²
South of Queen Creek Rd (P418)	-- ²	-- ²	1,226.2	-- ²
East of McQueen Rd (P420)	-- ²	-- ²	1,228.5	-- ²
South of Ocotillo Rd (P433)	-- ²	-- ²	1,224.0	-- ²
South of Chandler Heights Blvd (P427)	-- ²	-- ²	1,223.3	-- ²
North of Hunt Hwy (P432)	-- ²	-- ²	1,210.2	-- ²
Highline Lateral				
North Watershed West of Priest Road	-- ²	-- ²	1,226.1	-- ²
NE Watershed at West Baseline Road	-- ²	-- ²	1,225.0	-- ²
Central Watershed at Guadalupe Road	-- ²	-- ²	1,225.0	-- ²
South Watershed at West Divot Drive	-- ²	-- ²	1,226.2	-- ²
Ken McDonald Golf Course				
Storm Runoff Pond	-- ²	-- ²	1,180.8	-- ²
Sunny Cove Dam				
	-- ²	-- ²	2,166.4	-- ²
Sunset Dam				
	-- ²	-- ²	2,130.8	-- ²
Union Pacific Railroad (Chandler/Gilbert FDS)				
SE corner of UPRR and Western Canal (P516)	-- ²	-- ²	1,233.6	-- ²
At Baseline Rd (P503)	-- ²	-- ²	1,213.5	-- ²
S. of Junction with UPRR north and UPRR NE (P505)	-- ²	-- ²	1,211.6	-- ²
North of Guadalupe (P506)	-- ²	-- ²	1,207.6	-- ²
South of Guadalupe (P512)	-- ²	-- ²	1,209.8	-- ²
At Western Canal (P519)	-- ²	-- ²	1,214.7	-- ²
South of Elliot Rd (P601)	-- ²	-- ²	1,215.1	-- ²
North of Ray Rd (P606-3)	-- ²	-- ²	1,215.5	-- ²
North of Chandler Blvd (P610-9)	-- ²	-- ²	1,217.1	-- ²

← REVISIED DATA

¹ North American Vertical Datum of 1988
² Data Not Available

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