



Federal Emergency Management Agency

Washington, D.C. 20472

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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 95-09-257P

The Honorable Chris Bavasi
Mayor, City of Flagstaff
211 West Aspen Avenue
Flagstaff, Arizona 86001

Community: City of Flagstaff, Arizona
Community No.: 040020
Panels Affected: 0011 B and 0011
Effective Date of
This Revision:

102-I-A-C

JUN 19 1995

Dear Mayor Bavasi:

This is in response to a request for a revision to the effective Flood Insurance Study (FIS) and National Flood Insurance Program (NFIP) map for your community. Specifically, this responds to a letter dated May 5, 1995, from Mr. Robert L. Richards, P.E., Richards Engineering, regarding the effective FIS report, Flood Insurance Rate Map (FIRM), and Flood Boundary and Floodway Map (FBFM) for the City of Flagstaff, Arizona. With his letter, Mr. Richards submitted additional data in support of a February 3, 1995, request for a Letter of Map Revision (LOMR) from Ms. Terri Miller, Program Coordinator, Arizona Department of Water Resources, Engineering Division. Ms. Miller requested that the Federal Emergency Management Agency (FEMA) revise the effective FIRM and FBFM to show the effects of updated topographic information and improved hydraulic analyses along Sinclair Wash from approximately 750 feet downstream of University Heights Drive (UHD) North to approximately 100 feet upstream of UHD South.

All data required to complete our review of this request were submitted with Ms. Miller's February 3 letter and Mr. Richards' May 5 letter. Because this LOMR solely incorporates more detailed information, fees were not assessed for the review.

We have completed our review of the submitted data and the flood data shown on the effective FIRM and FBFM, and have revised the FIRM and FBFM to modify the elevations and floodplain and floodway boundary delineations of a flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) along Sinclair Wash from approximately 750 feet downstream of UHD North to approximately 100 feet upstream of UHD South.

The base flood elevations (BFEs) decreased from approximately 750 feet downstream to approximately 180 feet downstream of UHD North, from approximately 70 feet downstream of UHD North to approximately 200 feet downstream of UHD South, and from approximately 140 feet downstream to approximately 100 feet upstream of UHD South. The maximum BFE decrease, 2.2 feet, occurred in a reach from just upstream to approximately 660 feet upstream of UHD North. The BFEs increased from approximately 180 feet downstream to approximately 70 feet downstream of UHD North and from approximately 200 feet downstream to approximately 140 feet downstream of UHD South. The maximum BFE increase, 0.8 foot, occurred approximately 70 feet downstream of UHD North. The width of the Special Flood Hazard Area (SFHA) and regulatory floodway decreased along the entire revised reach of Sinclair Wash. The maximum decrease in the width of the SFHA, 200 feet, occurred

just downstream of UHD North and the maximum decrease in the width of the regulatory floodway, 160 feet, occurred approximately 80 feet upstream of UHD North. The SFHA shifted north from approximately 520 feet downstream to approximately 210 feet downstream of UHD North with a maximum shift, 20 feet, occurring from approximately 440 feet downstream to approximately 280 feet downstream of UHD North. The SFHA shifted south from approximately 560 feet upstream to approximately 620 feet upstream of UHD North with a maximum shift, 15 feet, occurring approximately 590 feet upstream of UHD North. The regulatory floodway shifted south from approximately 550 feet upstream to approximately 710 feet upstream of UHD North with a maximum shift, 10 feet, occurring approximately 600 feet upstream of UHD North.

The modifications are shown on the enclosed annotated copies of FIRM Panel 0011 B, FBFM Panel 0011, Flood Profile Panel 50P, and the Floodway Data Table for Sinclair Wash. This LOMR hereby revises these panels of the effective FIRM and FBFM, both dated January 19, 1983, and the Flood Profile and Floodway Data Table in the FIS report dated September 28, 1990.

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

Location	Existing BFE (feet)*	Modified BFE (feet)*
Sinclair Wash:		
Approximately 750 feet downstream of UHD North	6,873	6,873
Approximately 70 feet downstream of UHD North	6,876	6,876
Just upstream of UHD North	6,885	6,883
Approximately 870 feet upstream of UHD North	6,885	6,883
Approximately 110 feet downstream of UHD South	6,885	6,885
Approximately 100 feet upstream of UHD South	6,891	6,891

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

Public notification of the revised BFEs will be given in the Arizona Daily Sun on or about July 20 and July 27, 1995. A copy of this notification is enclosed. Any request for reconsideration must be based on scientific or technical data. In addition, a notice of changes will be published in the Federal Register.

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.

The revisions are effective as of the date of this letter; however, within 90 days of the second publication in the Arizona Daily Sun, 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.

Due to present funding constraints, we must limit the number of physical map revisions processed. Consequently, we will not republish the FIRM, FBFM, and FIS report for your community to reflect the modifications described in this LOMR at this time. However, when changes to FIRM Panel 0011 B, FBFM Panel 0011, and the FIS report for your community warrant a physical revision and republication in the future, we will incorporate the modifications described in this LOMR at that time.

The floodway is provided to your community as a tool to regulate floodplain development. Therefore, the floodway modifications described in this letter, while acceptable to FEMA, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

This response to Ms. Miller's request is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development, including this request, and for ensuring that necessary permits required by Federal or State law have been received. With knowledge of local conditions and in the interest of safety, State and community officials may set higher standards for construction, or may limit development in floodplain areas. If the State of Arizona or your community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence.

The map panels as listed above and as revised by this letter will be used for all flood insurance policies and renewals issued for your community.

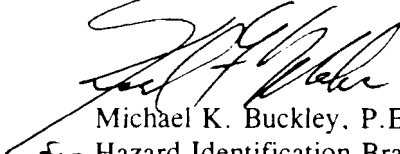
This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, 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 minimum NFIP criteria. These criteria are the minimum and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM and FBFM to which the regulations apply and the modifications described in this LOMR. Our records show that your community has met this requirement.

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

Mr. John W. Eldridge, Jr.
Acting Director, Mitigation Division
Federal Emergency Management Agency, Region IX
The Presidio of San Francisco, Building 105
San Francisco, California 94129-1250
(415) 923-7177

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the CCO for your community at the telephone number cited above. If you have any technical questions regarding this LOMR, please contact Mr. John Magnotti of our staff in Washington, DC, either by telephone at (202) 646-3932 or by facsimile at (202) 646-4596.

Sincerely,



Michael K. Buckley, P.E., Chief
Hazard Identification Branch
Mitigation Directorate

Enclosures

cc: Mr. Kim M. Gavigan
Stormwater Management Engineer
City of Flagstaff

Mr. Robert L. Richards, P.E.
Richards Engineering

Ms. Terri Miller
Program Coordinator
Arizona Department of Water Resources
Engineering Division

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY		INCREASE
						(FEET NGVD)		
Sinclair Wash								
A	0.04	59	103	6.9	6,851.1	6,851.1	6,851.3	0.2
B	0.07	75	758	1.2	6,851.7	6,851.7	6,852.1	0.4
C	0.16	75	646	1.4	6,851.7	6,851.7	6,852.1	0.4
D	0.30	63	523	1.7	6,851.8	6,851.8	6,852.2	0.4
E	0.51	55	257	3.5	6,851.9	6,851.9	6,852.4	0.5
F	0.54	21	115	7.7	6,852.2	6,852.2	6,852.5	0.3
G	0.57	55	302	2.9	6,853.4	6,853.4	6,853.5	0.1
H	0.69	25	96	9.3	6,853.4	6,853.4	6,853.5	0.1
I	0.86	29	138	6.4	6,857.7	6,857.7	6,858.2	0.5
J	0.89	21	81	11.0	6,859.6	6,859.6	6,859.6	0.0
K	0.90	21	106	8.4	6,861.0	6,861.0	6,861.0	0.0
L	0.91	26	125	7.1	6,860.9	6,860.9	6,860.9	0.0
M	1.08	55	257	3.5	6,862.2	6,862.2	6,862.5	0.3
N	1.14	70	415	1.8	6,864.5	6,864.5	6,865.3	0.8
O	1.19	50	170	4.3	6,864.5	6,864.5	6,865.3	0.8
P	1.27	65	207	3.6	6,865.4	6,865.4	6,866.0	0.6
Q	1.29	72	243	3.0	6,866.7	6,866.7	6,866.9	0.2
R	1.43	34	83	8.9	6,867.9	6,867.9	6,868.5	0.6
S	1.51	38	126	5.9	6,871.4	6,871.4	6,872.0	0.6
T	1.56	40	98	7.6	6,872.8	6,872.8	6,873.2	0.4
U	1.57	49	182	4.1	6,873.4	6,873.4	6,874.2	0.8
V	1.70	31	88	6.2	6,876.5	6,876.5	6,876.8	0.3
W	1.73	37	274	2.0	6,882.5	6,882.5	6,882.5	0.0
X	1.90	48	135	4.1	6,882.8	6,882.8	6,882.9	0.1
Y	2.03	31	97	5.7	6,885.2	6,885.2	6,885.2	0.0
Z	2.07	134	636	0.9	6,890.8	6,890.8	6,891.8	1.0

REVISED DATA

¹Miles Above Confluence With Rio de Flag

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY

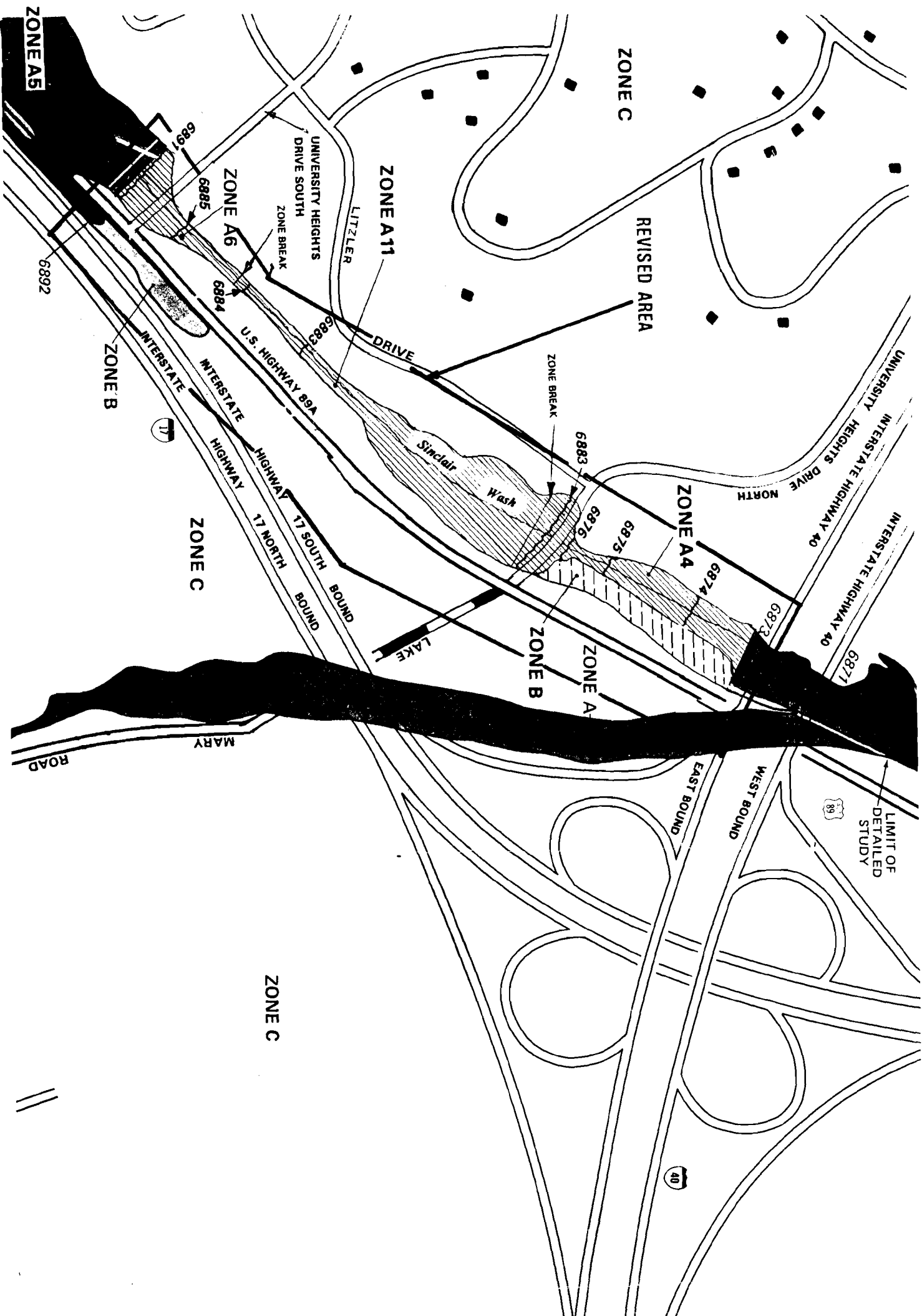
CITY OF FLAGSTAFF, AZ
(COCONINO CO.)

FLOODWAY DATA

SINCLAIR WASH



REVISED TO
REFLECT LOMR

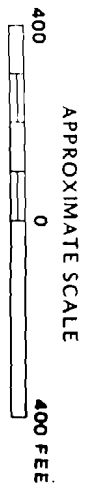
DATED JUN 19 1995



JOINS PANEL 0012

MAP LEGEND

-  Revised 100-Year Floodplain
-  Revised 500-Year Floodplain



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
FLAGSTAFF, ARIZONA
COCONINO COUNTY

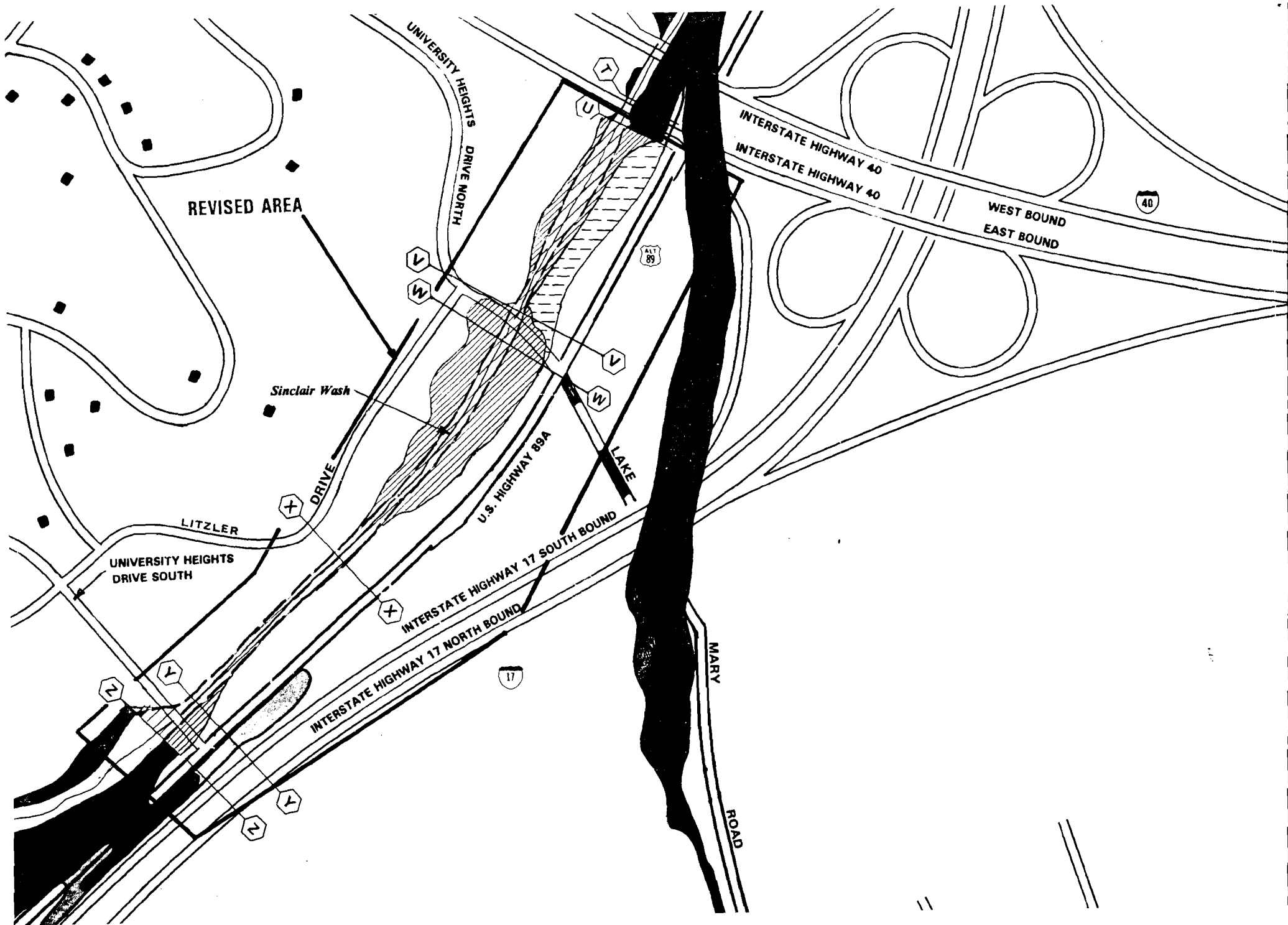
PANEL 11 OF 21
(SEE MAP INDEX FOR PANELS NOT PRINTED)

REVISED TO REFLECT LOMR




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COMMUNITY-PANEL NUMBER 040020 0011 8

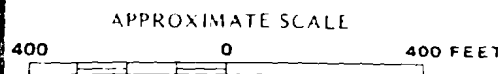
EFFECTIVE DATE:
JANUARY 19, 1983

Federal Emergency Management Agency



MAP LEGEND

-  Revised Floodway
-  Revised 100-Year Floodplain
-  Revised 500-Year Floodplain



NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY
FLOOD BOUNDARY AND
FLOODWAY MAP

CITY OF
FLAGSTAFF, ARIZONA
COCONINO COUNTY

PANEL 11 OF 21
(SEE INDEX FOR PANELS NOT SHOWN)

**REVISED TO
REFLECT LOMR
DATED JUN 19 1985**

COMMUNITY-PANEL NUMBER
040020 0011

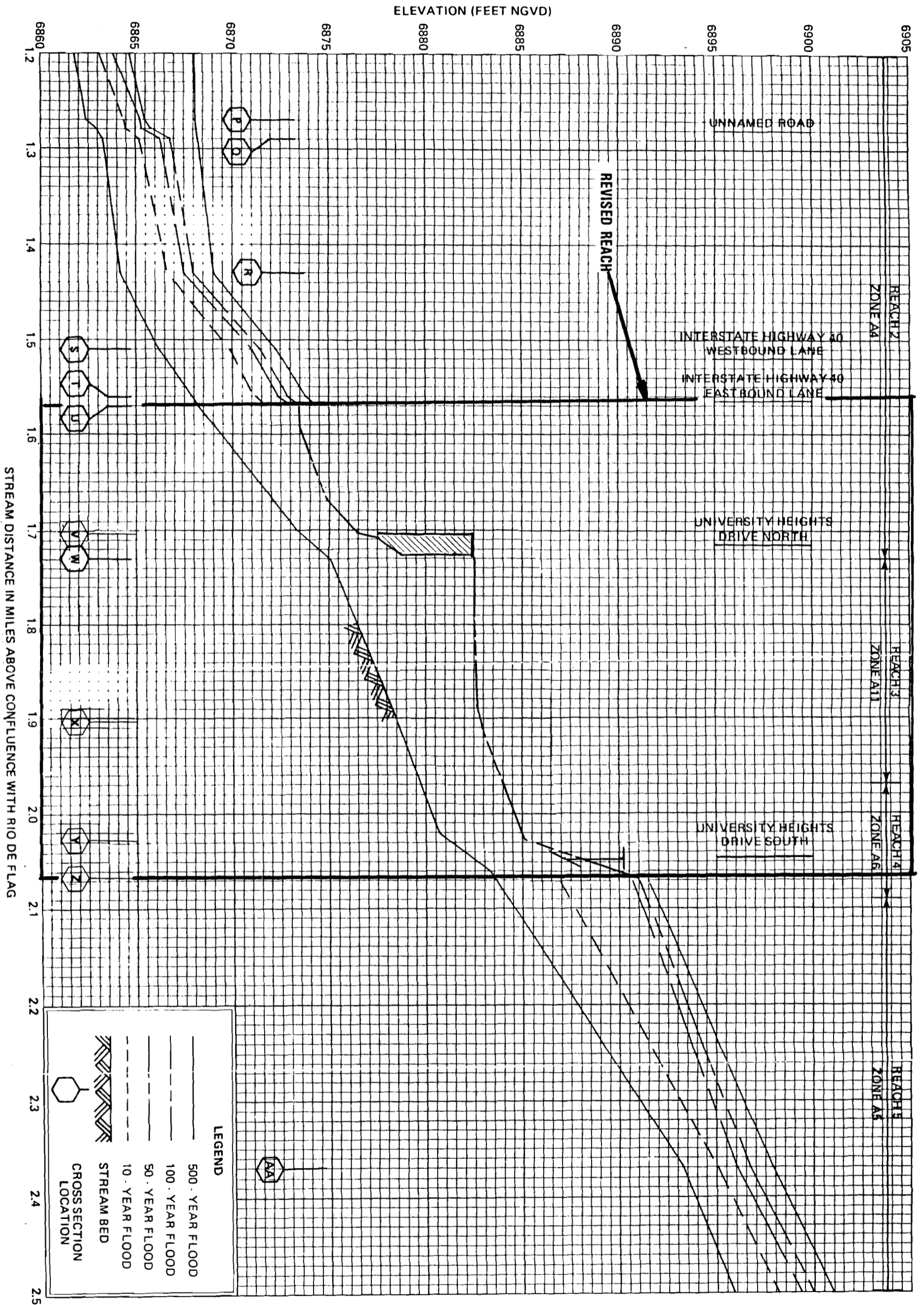
EFFECTIVE DATE:
JANUARY 19, 1983



Federal Emergency Management Agency

JOINS PANEL 0012

DATE: 1/19/83



FEDERAL EMERGENCY MANAGEMENT AGENCY

CITY OF FLAGSTAFF, AZ
(COCONINO CO.)

FLOOD PROFILES

SINCLAIR WASH

REVISED TO REFLECT LOMR DATED JUN 19 1995

50P