FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

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3 July 1974

SUBJECT: Flood Insurance Study, Phoenix, Arizona, dated September 1973

Division Engineer, South Pacific
ATTN: SPDPD-F

1. An error has been discovered in subject study of which this District feels the Federal Insurance Administration should be made aware. The stream in error is the East Fork of Cave Creek in the vicinity of Bell Road, upstream of cross section 1.58.

2. Portions of subject study which need to be corrected include applicable sections of Tables 1 and 2 in the text, Exhibit 19, and Plates 06, 07, 87, and 107. There are areas on Plates 06 and 07 shown as Zone C which should be Zone A or Zone B-1. Also, the Base Flood Elevation lines at the upper end of Zone A-19 on Plate 06 need to be adjusted.

3. This District anticipates initiating computations to correct the above errors at the beginning of FY 75. Revised text, exhibit, and plate portions will be submitted for your review and approval prior to September 1974. The corrected plates will follow the September 1971 Guidelines (the same guidelines in force when subject study was prepared).

FOR THE DISTRICT ENGINEER:

GARTH A. FUQUAY
Chief, Engineering Division

Cy Furn:
Mr. James Attebery
City Engineer
700 Municipal Building
251 W. Washington Street
Phoenix, AZ 85003

Flood Control District
of Maricopa County
3325 West Durango Street
Phoenix, AZ 85009

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REMARKS:

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
P. O. BOX 2711
LOS ANGELES, CALIFORNIA 90053

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3 April 1974

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Mr. Herbert P. Donald
Chief Engineer and General Manager
Flood Control District of Maricopa County
3325 West Durango Street
Phoenix, Arizona 85009

Dear Mr. Donald:

Inclosed are two courtesy copies of the City of Phoenix, Arizona, Flood Insurance Study. This study is not for public release; it is in preliminary form and subject to revision by the Federal Insurance Administration.

Sincerely yours,

for Alfonso Robles Jr.
GARTH A. FUQUAY
Chief, Engineering Division

1 Incl
As stated

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FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

1. AUTHORITY FOR STUDY. This Type 15 Flood Insurance Study was prepared by Yost and Gardner Engineers under the direction of the Corps of Engineers for the Federal Insurance Administration, U.S. Department of Housing and Urban Development according to the provisions of the 1968 National Flood Insurance Act, as amended. Authority for its preparation is provided by letters from the Office of the Chief of Engineers, DAEN-CWP-F, 11 May 1972 and 5 July 1972, subject: "Type 15 Flood Insurance Study".

2. FINANCING OF STUDY. Pursuant to Project Order No. 18, Inter-Agency Agreement (IAA)-H-15-72 and Project Order No. 3, (IAA)-H-15-73, funds have been fully obligated by the Department of Housing and Urban Development to cover Corps of Engineers expenditures in preparing this study.

3. DESCRIPTION OF AREA AND STUDY LIMITS.

a. General. The county seat of Maricopa County, the capital and largest city in the State of Arizona, Phoenix has a population of 723,700 persons (June, 1973) and encompasses an area of 269.3 square miles within its corporate boundaries. The city is situated in the south central part of the state. Most of the city lies at elevations between 1000 and 1500 feet above mean sea level. Scattered mountainous areas within the city rise to elevations of about 2600 feet.

b. Hydrologic Aspects. Mountain areas are characterized by thin soils or exposed rock, sparse vegetation, and a steep terrain cut with many narrow canyons. The canyons are subject to sudden high velocity flows that can be extremely hazardous. Where streams leave the mountain canyons and enter the valley floor they encounter deep and porous soils on mild slopes. Consequently flows are rapidly attenuated and spread over much wider areas, diminishing water depths suddenly and substantially. Under natural conditions, the desert valley floor is covered with a braided network of small channels, each too small to contain major floods. Such floods typically spread out as sheet flows.

Urban areas are generally densely built up in a manner that tends to impede sheet flow. Streets provide the best avenues for runoff. There is a good rectilinear grid of arterial and collector streets along section and midsection lines. Interior streets have generally been laid out to facilitate local drainage but capacity to convey extraneous floodwater is limited. An underground storm drainage system exists in much of the area, however, its capacity is limited to 1 or 2 year runoff rates.

There is a system of major irrigation canals crossing the city from east to west nearly parallel to the ground contours. This includes the Arizona, Grand, Roosevelt, Western and Highline Canals. The Arizona and Grand Canals were generally built high relative to the ground so they could irrigate adjacent fields by gravity. Because the canals are drained during severe storm conditions they have been useful in the disposal of runoff. Under flood conditions some canals act as dikes causing flooding

of adjacent land on the uphill side. This was a tolerable situation during the agricultural era but in many places residential and other development has been carried up to the canal right of way line, consequently much of this property has been flooded repeatedly.

The presence of canals tends to provide a false sense of security to residents. The canals seem large and substantial but, because of flat gradients, hydraulic capacities are often negligible compared to the flood discharges they intercept. They also have a history of breaking, creating a locally worse condition than if they were not there, due to the sudden release of impounded water.

Natural water courses through the city are shown on the zone map index. The Salt River flows across the southern portion of the city from the east to west for 13 miles. Cave Creek enters Phoenix at the northern city boundary and flows through the westerly portion of the city for 20 miles to the Salt River. Below its crossing of the Arizona Canal all traces of the natural channel of Cave Creek have been obliterated by urbanization; there remains only a broad swale in the topography. In the northeastern part of the city, drainage is toward Indian Bend Wash, another barely perceptible swale which drains a very large area. In addition to these major channels there are numerous tributaries and short mountain washes of which the more important ones are shown.

4. WORK OF OTHER AGENCIES. Topographic data on the Salt River bed, west of 7th Street, were obtained from the Southwest Computing Service. This company is presently engaged in a hydraulic analysis of this portion of

the river in connection with the design of a new Central Avenue bridge for the Arizona Highway Department.

5. DESCRIPTION OF THE WORK. The work performed in developing this study and its informational content was done in conformance with Corps of Engineers publication "Guidelines for Type 15 Flood Insurance Studies, September 1971" and other applicable directives.

a. Hydrologic Studies. Flood frequency data for the study area were developed from discharge-frequency relationships of historic floods and hydrologic analyses by the Corps of Engineers for a series of 32 concentration points distributed along the principal watercourses in the city.

b. Reaches. Flood plains along the watercourses covered by this study were divided into reaches having similar elevation-frequency characteristics. Reaches have been numbered serially, by watercourse, and are listed in Table 1.

c. Elevation-Frequency Data. A representative index station was selected for each reach. Flood stages for flood-frequencies of 10, 25, 50, 100, and 500 years were computed for each index station and the results are presented in Table 1. Elevation-frequency curves for the index stations are shown on Exhibits 1 through 30.

d. Flood Hazard Factors. Flood hazard factors are shown for each reach in Table 1 and on the elevation-frequency curves. Flood hazard factors are numbers identifying individual elevation-frequency curves in a series of generalized curves prepared by the Federal Insurance Administration.

Factor numbers were chosen from the generalized series to provide the best fit to the computed curves. (Exhibits 1 through 30).

e. Zones. The study area was divided into zones which reflect varying degrees of flood risk deriving from probable flooding of specified magnitude. Zone boundary lines were generally established along the centerline of the nearest higher street or other identifiable feature. As shown on the Flood Insurance Study Zone Maps, Plates 1 through 56, the Zone designations include: (1) Zone A-areas vulnerable to floods up to and including the base flood (100-year-frequency flood); (2) Zone B-areas vulnerable to floods greater than the base flood, up to and including the 500-year-frequency flood, and sheet-flow flooding (Zone B-1) from base flood and lesser flood flows; and (3) Zone C-areas outside of the above mentioned limits, where flood risk is relatively low. Zone D areas are shown where flooding is a possibility, however, either detailed information is lacking or time and monies available are insufficient for the detailed studies required for the development of adequate flood profiles. Zone D areas where existing residential, commerical and industrial developments are located (particularly below the wash that drains much of the South Mountain Park area near Central Avenue) and which no longer have a defined channel should receive further study as time and monies become available. In some areas Zone B is not shown because it is included within the A-Zone limits which are extended to the next higher identifiable line or street.

Certain areas below existing canals, although they may be flood-free in any given storm, may have extensive damage in the event of levee failure. Such areas cannot be prelocated because of uncertainties about bank strength. Localities where such breaks have occurred, or where topography indicates a likelihood of such flooding, are shown as sheet flow zones (Zone B-1). A-Zones associated with streams were delineated from sufficient data to prepare reasonably accurate profiles. (Plates 57 through 104). Also designated Zone A are those areas behind canals where static impoundments can occur. Such pools typically have a very long overflow section relative to surface area making the depth and inundation limits nearly independent of the rate of inflow. Consequently no profiles or stage-discharge curves are presented for them.

In general, the data given are based on average conditions. Localized small areas, difficult to delineate using the available topographical maps, may be subject to more severe flooding or flooding more frequently than depicted. It is not recommended that the data given in B-1 Zones be used for construction purposes. The zone maps also show base flood elevation lines, representing water surface contours at appropriate intervals. The zone map plates are preceded by an index map which shows the relationship of the individual Flood Insurance Zone Maps within the study area.

All Salt River bridges are assumed to remain intact under 100-year and 500-year flows, even though only the Central Avenue and I-10 bridges are high enough to pass them. Approaches to the low bridges are short. If

these wash out, the increase in flow area would be insufficient to cause any significant reduction in water surface elevations.

f. Profiles. High water profiles for the various study reaches, representing the 10-year-, 100-year-, and 500-year-frequency floods, are shown on Plates 57 through 104.

6. FLOODWAY DATA. By definition, a "floodway" is the channel of a watercourse and that portion of the adjoining flood plain required to provide for the passage of the 100-year-frequency discharge (discharge having a 1-percent chance of occurrence in any given year) with an insignificant increase in the water surface above that of the pre-floodway conditions. Unless state or local requirements indicate a specific allowable increase, an insignificant increase is considered to be not more than 1 foot at any location. As a further definition, the "floodway fringe" is the portion of the 100-year flood plain located between the floodway boundary and the outline of the 100-year-frequency flood. Baselines for floodway measurements generally are centerlines of nearby arterial streets as shown on the plates.

No economic analyses comparing regulatory floodways with other forms of flood plain management were made for this report. The regulatory floodway concept is not necessarily the optimum solution to flood damage prevention on any of the streams in this report (particularly in the case of Cave Creek below the Arizona Canal).

a. Areas Considered. Areas considered for the purposes of floodway delineation are those portions of the watercourses within the Phoenix

city limits for which profiles and "A" Zone indications are shown in the plates that follow.

b. Local Coordination. The City Engineer of the City of Phoenix has been informed of this study and of the preliminary nature of the floodway data that is being developed. Additional flood plain information is available to assist in final determinations of floodways. Such final determinations are the responsibility of local government.

c. Assumptions and Consideration. The floodway information developed for this study is to be considered preliminary and further refinements should be expected. For purposes of hydraulic computations, it was assumed that the floodway fringe area was filled solid and had neither overbank storage nor flood flow capacity but did not block tributary inflow. Hydrology and hydraulics are for 1973 conditions. Major improvements projected for construction within one year were taken into account if definite information was available.

d. Design Criteria. The preliminary floodway, to be reserved by zoning or encroachment lines, is designed to pass the 100-year-frequency discharge. Floodway limits were determined by using encroachments on each bank so that the cross section, as modified, would have the discharge carrying capacity of the natural cross section, with an increase in water surface elevation of not more than 1 foot. The encroachment limits were developed, in general, by removing an equal amount of conveyance from each side of the channel. The flood plain of the 100-year-frequency flood under existing conditions, the preliminary floodway, the floodway fringe

areas, and the location of selected cross sections used in the floodway determination are shown on Plates 105 through 125. Encroachment was limited at cross sections where velocities reached five feet per second at the interface of the preliminary floodway with the floodway fringe areas. In some reaches this criterion precluded any encroachment.

The actual limits of the 100-year flood plain on the ground may vary slightly from those shown on the plates because of channel modifications and map scale limitations which do not permit precise plotting of the flooded area boundaries.

e. Water Surface Elevations. The 100-year frequency base flood water surface elevations, under existing and allowable encroachment conditions (with preliminary floodway), are shown for selected cross-sections in Table 2.

f. Special Considerations. The 100- and 500-year discharges on Cave Creek were found to overflow the divide between Cave Creek and Moon Valley Wash, creating an island at Moon Hill. Profile plates 103 and 104 show water surface elevations in Moon Valley Wash resulting from the Cave Creek inflow.

7. DATA RETAINED ON FILE. Although not presented herein, the survey, hydrologic, hydraulic, and other backup data and computations compiled in preparing this study are considered an integral part thereof. This information is retained on file in the office of the Los Angeles District, Corps of Engineers.

8. ACKNOWLEDGEMENTS. The assistance and cooperation of the City of Phoenix in providing maps used in this study are gratefully acknowledged.

Table 1. ELEVATION - FREQUENCY DATA

Stream	Reach No.	Index Station	Flood Hazard Factor	Water surface elevation in feet (M.S.L.) for frequency in years				
				10	25	50	100	500
Salt River	1	7.99	045 E	1018.3	1020.1	1021.5	1022.8	1026.1
	2	12.05	065 A	1052.6	1055.1	1057.2	1059.1	1062.5
	3	14.92	100 B	1083.7	1088.5	1091.5	1094.0	1096.5
	4	16.57	060 G	1103.2	1104.8	1106.4	1109.4	1112.4
	5	17.12	080 A	1105.5	1108.7	1111.7	1113.5	1115.9
	6	18.61	040 E	1128.0	1129.6	1130.8	1131.9	1134.6
Cave Creek	7	8.07	025 B	1161.1	1162.6	1163.2	1163.6	1165.9
	8	12.65	045 B	1265.6	1267.9	1269.1	1270.1	1275.0
	9	13.50	065 B	1281.4	1284.4	1286.3	1287.9	1293.6
	10	14.88	100 D	1301.3	1304.3	1307.3	1311.3	1321.0
	11	16.30	040 B	1352.9	1355.3	1356.5	1356.9	1360.2
	12	19.46	050 E	1448.7	1450.7	1452.7	1453.7	1459.0
	13	20.15	085 D	1466.5	1469.2	1473.6	1475.0	1485.2
	14	21.11	055 D	1498.7	1499.1	1502.3	1504.2	1511.2
Moon Valley Wash	15	0.61	020 E	1295.0	1295.7	1296.3	1297.0	1299.3
	16	2.20	010 B	1337.5	1338.0	1338.2	1338.5	1339.2
Moon Valley Wash - South Fork	17	0.80	010 B	1363.6	1364.1	1364.4	1364.6	1365.2
East Fork - Cave Creek	18	0.57	040 B	1338.0	1339.8	1341.0	1342.0	1344.7
	19	1.40	020 D	1356.8	1357.5	1358.1	1358.8	1360.9
West Branch - East Fork Cave Creek	20	0.11	010 B	1351.9	1352.5	1352.7	1352.9	1354.1

Table 1. ELEVATION - FREQUENCY DATA

Stream	Reach No.	Index Station	Flood Hazard Factor	Water surface elevation in feet (M.S.L.) for frequency in years				
				10	25	50	100	500
Cave Creek Tributary at Deer Valley Drive	21	0.60	010 B	1494.2	1494.8	1495.1	1495.2	1496.0
Scatter Wash	22	3.65	010 A	1416.1	1416.4	1416.7	1417.0	1417.2
Indian Bend Wash	23	12.47	015 D	1376.2	1376.8	1377.2	1377.7	1379.5
Tenth Street Wash	24	1.67	020 C	1309.7	1310.1	1310.5	1311.7	1313.0
Northern Ave. Wash	25	0.63	020 D	1274.4	1275.1	1275.6	1276.3	1278.0
Dreamy Draw Wash	26	0.65	020 B	1271.1	1272.0	1272.6	1273.1	1274.4
Dreamy Draw East	27	0.31	020 B	1254.1	1255.0	1255.5	1256.0	1257.2
Myrtle Ave. Wash	28	0.17	010 E	1254.7	1255.0	1255.3	1255.6	1256.4
Flynn Lane Wash	29	0.34	010 E	1271.5	1271.9	1272.2	1272.5	1273.3
Echo Canyon	30	0.37	025 D	1261.7	1262.6	1263.3	1264.2	1267.0

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevation in Feet (M.S.L.) Existing Conditions	With Allowable Encroachments
Salt River	6.01	1003.5	1003.5
	6.33	1007.0	1007.9
	6.66	1011.5	1012.5
	6.87	1014.2	1015.2
	7.12	1016.1	1017.1
	7.47	1017.1	1018.1
	7.66	1019.3	1020.3
	7.85	1021.7	1022.7
	7.99	1022.8	1023.8
	8.27	1023.9	1024.9
	8.46	1025.0	1026.0
	8.51	1026.1	1027.1
	8.56	1026.8	1027.5
	8.75	1028.9	1029.2
	9.03	1030.8	1031.6
	9.31	1032.9	1033.5
	9.50	1035.2	1036.2
	9.60	1037.3	1038.0
	9.79	1038.6	1039.4
	10.07	1040.8	1041.8
	10.36	1042.0	1043.0
	10.64	1045.3	1045.4
	10.92	1050.7	1051.7
	11.21	1052.0	1052.9
	11.30	1052.2	1053.0
	11.49	1052.6	1053.6
	11.50	1055.5	1055.6
	11.51	1056.1	1056.2
	11.53	1057.9	1058.7
	11.57	1058.0	1058.9
	11.72	1058.1	1059.0
	11.87	1058.1	1059.0
	11.99	1058.1	1059.0
	12.14	1060.7	1060.8
	12.29	1063.6	1064.2
	12.48	1066.5	1067.1
	12.52	1068.1	1068.9
	12.53	1068.4	1069.1
	12.54	1068.6	1069.1
	12.59	1069.1	1069.8
	12.75	1069.1	1069.8
	12.86	1069.1	1069.8
	12.97	1069.7	1070.4
	13.00	1069.8	1070.4

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevation in Feet (MSL) Existing Conditions	With Allowable Encroachments
Salt River (continued)	13.01	1069.8	1070.4
	13.02	1069.9	1070.4
	13.09	1072.5	1073.5
	13.20	1072.5	1073.5
	13.39	1073.1	1074.1
	13.47	1073.3	1074.3
	13.48	1078.8	1078.9
	13.50	1079.1	1079.2
	13.53	1079.1	1079.2
	13.67	1080.0	1080.3
	14.06	1080.0	1080.3
	14.48	1080.6	1081.0
	14.51	1089.8	1089.9
	14.53	1089.8	1089.9
	14.59	1092.1	1093.1
	14.92	1094.0	1095.0
	15.30	1094.5	1095.3
	15.53	1097.5	1098.5
	15.56	1098.8	1099.8
	15.57	1099.0	1100.0
	15.65	1099.4	1100.4
	15.92	1100.3	1101.3
	16.24	1103.6	1104.5
	16.26	1105.8	1105.8
	16.27	1107.1	1108.1
	16.30	1108.9	1109.0
	16.57	1109.4	1109.5
	16.95	1111.6	1112.3
	17.33	1116.2	1116.6
	17.61	1121.3	1122.3
	17.90	1122.9	1123.9
	18.03	1124.5	1124.6
	18.04	1126.0	1127.0
	18.05	1126.4	1127.4
	18.06	1127.2	1128.2
	18.23	1128.4	1129.4
	18.42	1129.9	1130.8
	18.61	1131.9	1132.8
	18.93	1134.8	1135.7
	18.95	1135.6	1136.6
	18.97	1135.7	1136.7
	19.12	1136.9	1137.8
	19.23	1138.4	1139.3

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevations in Feet (M.S.L) Existing Conditions	With Allowable Encroachments
Salt River (continued)	19.25	1138.9	1139.7
	19.44	1141.1	1142.1
	20.08	1146.1	1147.1
Cave Creek	0.00	1047.5	1047.6
	0.16	1047.8	1047.9
	0.32	1050.6	1050.7
	0.55	1053.3	1053.8
	0.78	1055.1	1055.3
	1.00	1057.9	1058.0
	1.18	1060.8	1060.9
	1.36	1062.7	1062.8
	1.57	1065.3	1065.6
	1.69	1067.1	1067.6
	1.94	1069.8	1070.8
	2.21	1071.6	1072.6
	2.44	1076.3	1077.1
	2.68	1077.8	1078.7
	2.96	1080.4	1081.0
	3.17	1083.5	1084.5
	3.39	1084.7	1085.7
	3.58	1086.3	1087.2
	3.88	1088.4	1089.2
	4.15	1091.9	1092.7
	4.37	1094.3	1094.8
	4.54	1097.1	1097.8
	4.75	1101.1	1102.0
	5.00	1105.1	1105.8
	5.28	1109.4	1110.4
	5.52	1113.8	1114.6
	5.77	1118.0	1119.0
	6.03	1122.5	1123.0
	6.26	1127.7	1128.6
	6.52	1132.6	1133.6
	6.80	1137.6	1138.2
	7.04	1142.0	1142.6
	7.33	1148.7	1149.7
	7.58	1153.6	1154.6
	7.84	1158.6	1159.6
	8.07	1163.6	1164.6
	8.33	1168.9	1169.9
	8.59	1175.1	1176.1
	8.86	1181.5	1182.5
	9.12	1187.3	1188.3
	9.35	1192.1	1192.9

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevation in Feet (M.S.L. Existing Conditions	With Allowable Encroachments
Cave Creek (continued)	9.62	1197.9	1198.7
	9.88	1204.4	1205.1
	10.17	1211.4	1212.1
	10.45	1218.9	1219.9
	10.71	1224.3	1225.1
	10.98	1231.5	1232.3
	11.12	1235.9	1236.5
	11.25	1237.5	1238.5
	11.38	1240.4	1241.3
	11.52	1243.3	1244.3
	11.56	1244.3	1245.1
	11.67	1247.1	1247.9
	11.75	1249.4	1250.0
	11.78	1250.4	1251.2
	11.80	1251.3	1252.1
	11.90	1254.4	1255.4
	12.21	1260.4	1260.8
	12.38	1263.5	1264.5
	12.42	1264.8	1265.4
	12.53	1268.0	1269.0
	12.71	1271.1	1272.0
	12.86	1275.6	1276.3
	12.87	1276.7	1277.5
	12.89	1276.7	1277.7
	12.96	1278.1	1279.1
	12.99	1278.7	1279.7
	13.04	1278.8	1279.8
	13.13	1280.3	1281.3
	13.17	1280.7	1281.5
	13.29	1281.8	1282.8
	13.39	1286.8	1287.7
	13.56	1288.7	1289.4
	13.61	1289.2	*
	13.65	1290.0	*
	13.80	1293.1	*
	13.90	1294.9	*
	13.91	1297.6	*
	13.92	1301.5	*
	13.94	1301.5	*
	14.15	1302.1	*
	14.39	1304.9	*
	14.88	1311.3	*

*Velocities without encroachment exceed 5 feet per second upstream of cross-section No. 13.56. Floodway limits are the same as Base Flood limits.

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevation in Feet (MSL) Existing Conditions	With Allowable Encroachments
Cave Creek (continued)	15.11	1319.0	*
	15.13	1323.8	*
	15.14	1324.0	*
	15.17	1324.9	*
	15.32	1327.7	*
	15.39	1331.0	*
	15.42	1333.0	1334.0
	15.49	1337.9	1338.1
	15.57	1338.8	1339.1
	15.67	1340.4	1341.0
	15.72	1341.2	1342.0
	15.80	1342.4	1343.4
	15.83	1343.0	1344.0
	15.89	1343.8	1344.2
	15.96	1344.0	1345.0
	16.01	1346.8	1347.3
	16.08	1351.2	1351.6
	16.13	1352.7	1353.7
	16.23	1355.1	1355.8
	16.38	1359.1	1360.1
	16.54	1362.9	1363.9
	16.65	1367.5	1367.6
	16.68	1368.5	1368.6
	17.89	1403.8	1404.7
	18.08	1407.9	1408.9
	18.26	1414.3	1415.2
	18.52	1423.7	1424.5
	18.73	1429.2	1430.2
	18.90	1435.0	1435.8
	19.23	1446.5	1447.5
	19.44	1453.3	1454.3
	19.62	1458.3	1459.1
	19.87	1464.6	1465.0
	20.09	1473.0	*
	20.29	1480.3	*
	20.63	1488.6	*
	20.91	1497.2	*
	21.20	1507.5	*
	21.50	1517.8	*

*Velocities without encroachment exceed 5 feet per second. Floodway limits are same as Base Flood limits.

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevation in Feet (M.S.L.) Existing Conditions	With Allowable Encroachments
Moon Valley Wash	0.08	1287.8	1288.2
	0.47	1293.7	1294.7
	0.61	1297.0	1298.0
	0.62	1297.0	1298.0
	0.63	1297.2	1298.2
	0.64	1297.9	1298.9
	0.74	1300.0	1300.9
	0.88	1306.9	1307.2
	1.20	1317.3	*
	1.34	1319.6	*
	1.45	1320.8	*
	1.67	1325.8	*
	1.99	1332.8	1333.3
	2.32	1341.7	1342.6
	2.71	1355.1	1356.1
	2.99	1367.7	1368.4
	3.29	1383.9	1384.5
Moon Valley Wash South Fork	0.09	1327.1	1327.2
	0.35	1338.8	1338.9
	0.58	1350.4	1350.5
	0.75	1362.0	1362.1
	0.99	1375.1	*
East Fork Cave Creek	0.12	1339.0	*
	0.24	1339.0	1339.3
	0.35	1339.1	1339.4
	0.57	1342.0	1342.4
	0.75	1344.4	1344.9
	0.88	1347.9	1348.3
	1.04	1351.2	1351.5
	1.20	1354.7	1355.2
	1.36	1357.9	1358.3
	1.58	1362.7	1363.4
	1.88	1373.6	1374.1
	2.02	1376.7	1377.3

*Velocities without encroachment exceed 5 feet per second. Floodway limits are same as Base Flood limits.

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevation in Feet (M.S.L.) Existing Conditions	With Allowable Encroachments
West Branch East Fork Cave Creek Wash	0.01	1351.4	1352.0
	0.18	1353.8	1354.2
	0.35	1359.3	1359.9
	0.61	1366.2	1366.3
	0.71	1369.1	1369.4
Cave Creek Tributary at Deer Valley Drive	0.08	1482.0	*
	0.38	1489.4	*
	0.63	1496.2	*
	0.86	1503.4	*
	1.17	1515.7	*
	1.49	1532.7	*
Scatter Wash	3.31	1414.2	1414.2
	3.48	1416.0	1416.0
	3.65	1417.0	1417.0
	3.83	1423.4	1423.5
	4.02	1430.5	1430.5
	4.23	1438.7	1438.8
	4.50	1445.0	1445.1
	4.77	1455.7	1455.7
	5.02	1466.4	1466.6
	5.14	1471.4	1471.5

*Velocities without encroachment exceed 5 feet per second. Floodway limits are same as Base Flood limits.

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevations in Feet (M.S.L.) Existing Conditions	With Allowable Encroachments
Indian Bend Wash	10.90	1351.0	1351.5
	11.11	1353.4	1354.0
	11.28	1357.4	1357.5
	11.43	1360.1	1360.7
	11.52	1362.0	1362.6
	11.67	1365.4	1365.5
	11.80	1367.7	1367.8
	11.94	1370.1	1370.2
	12.10	1372.8	1373.0
	12.26	1374.8	1375.1
	12.47	1377.7	1377.8
	12.65	1380.2	1380.7
	12.84	1382.8	1383.8
	13.00	1384.4	1385.2
	13.20	1386.7	1387.2
	13.36	1288.1	1388.4
	13.51	1390.0	1390.3
	13.67	1393.1	1394.1
	13.77	1394.6	1395.6
	13.93	1398.5	1398.8
	14.25	1401.0	1401.5
	14.38	1404.1	1404.2
	14.54	1407.1	1407.5
	14.71	1408.5	1409.0
	14.86	1411.7	1411.8
Tenth Street Wash	0.01	1241.9	1242.2
	0.09	1241.9	1242.2
	0.19	1243.5	1244.4
	0.31	1249.1	1249.3
	0.32	1250.0	1250.5
	0.33	1250.0	1250.6
	0.34	1250.1	1250.7
	0.45	1254.7	1255.0
	0.54	1257.5	1258.5
	0.64	1262.3	1263.3
	0.74	1266.7	1267.7
	0.83	1273.6	1274.6
	0.92	1278.4	1279.2

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevation in Feet (M.S.L.) Existing Conditions	With Allowable Encroachments
Tenth Street Wash (continued)	1.03	1282.6	1283.6
	1.12	1286.1	1287.0
	1.22	1290.9	1291.9
	1.37	1298.6	1299.3
	1.38	1299.4	1299.8
	1.40	1300.5	1301.0
	1.46	1302.0	1303.0
	1.47	1302.1	1303.1
	1.50	1305.1	1305.7
	1.57	1308.7	*
	1.67	1311.7	*
	1.75	1315.7	*
	1.85	1319.3	*
	1.91	1324.2	*
	1.92	1324.5	*
	1.94	1325.9	*
	2.06	1334.8	*
	2.13	1337.9	*
	2.20	1344.8	*
	2.28	1349.9	*
Northern Ave. Wash	0.03	1240.4	1240.5
	0.07	1240.7	1241.2
	0.10	1241.5	1242.4
	0.21	1246.9	1247.4
	0.30	1255.4	1255.6
	0.33	1257.5	1257.6
	0.34	1258.4	1259.2
	0.42	1263.2	1263.6
	0.53	1268.6	*
	0.63	1276.3	*
	0.72	1281.8	*
	0.82	1290.3	*
	0.85	1293.6	*
	0.86	1294.6	*
	0.87	1296.3	*
	0.88	1297.5	*
	0.98	1300.4	*
	1.07	1306.4	*

*Velocities without encroachment exceed 5 feet per second. Floodway limits are the same as Base Flood limits.

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

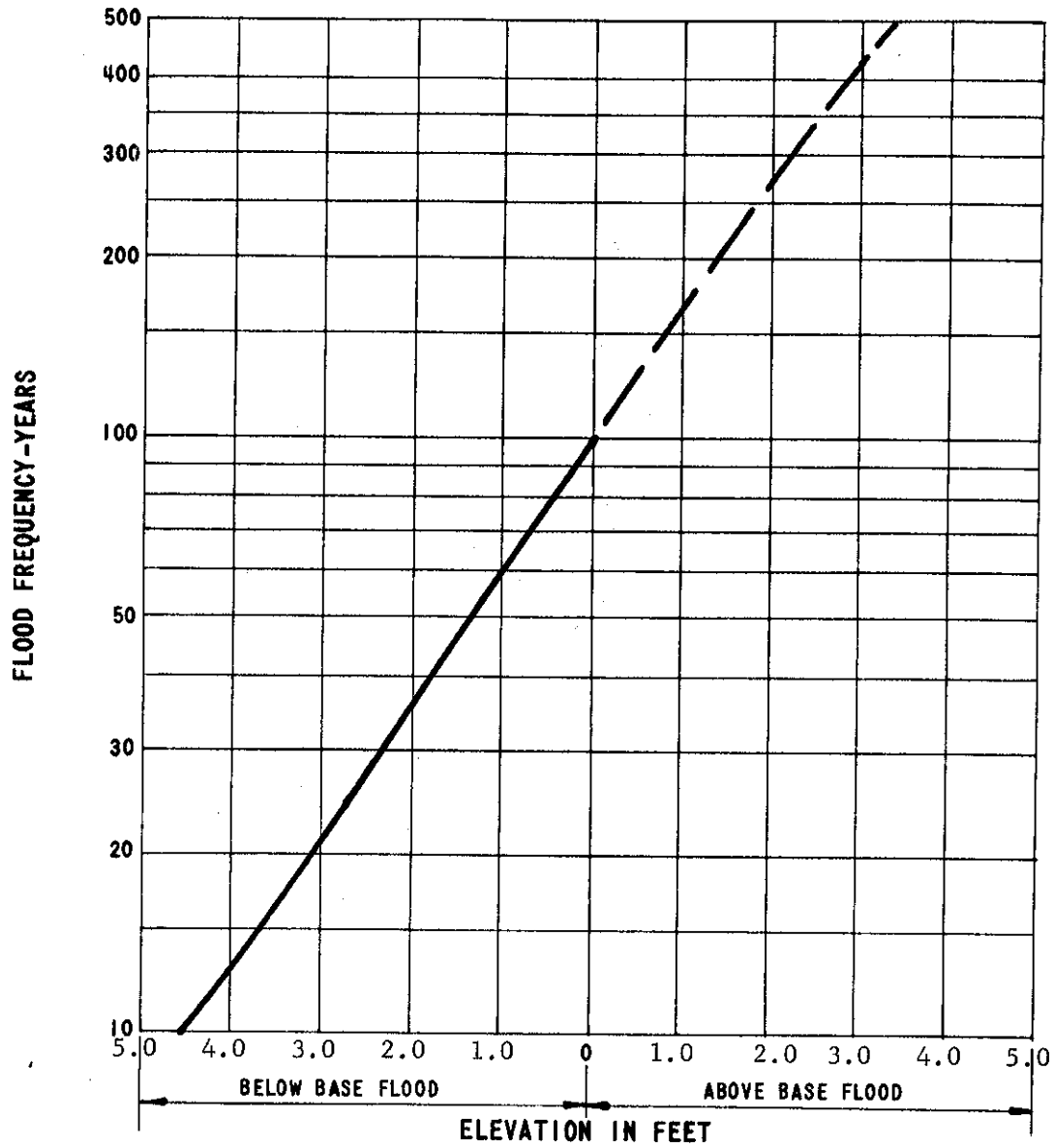
Stream	Cross-Section Number	Elevation in Feet (M.S.L.) Existing Conditions	With Allowable Encroachments
Dreamy Draw Wash	0.02	1241.9	1242.0
	0.05	1242.2	1242.3
	0.11	1243.8	1244.6
	0.20	1248.9	1249.9
	0.30	1255.2	1256.2
	0.42	1261.0	1261.1
	0.53	1265.6	*
	0.65	1273.1	*
	0.70	1275.2	*
	0.79	1278.4	*
	0.83	1280.7	*
	0.84	1282.5	*
	0.86	1285.1	*
	0.87	1286.7	*
	0.94	1288.4	*
	1.05	1295.9	*
	1.16	1304.0	*
	1.26	1320.6	*
Dreamy Draw East	0.04	1242.0	1242.9
	0.15	1247.0	1248.0
	0.21	1249.5	1249.6
	0.26	1252.5	1252.6
	0.31	1256.0	1256.1
	0.37	1259.3	*
	0.41	1263.9	*
	0.46	1271.9	*
	0.52	1275.6	*
	0.59	1279.3	*
	0.65	1285.4	*
	0.73	1290.3	*
Myrtle Avenue Wash	0.04	1242.0	1242.9
	0.12	1251.5	1252.2
	0.17	1255.6	1256.5
	0.22	1260.2	1260.8
	0.27	1266.6	1266.7
	0.35	1275.0	1275.2
	0.36	1278.0	*
	0.37	1280.7	*
	0.38	1281.4	*
	0.47	1290.0	*

*Velocities without encroachment exceed 5 feet per second. Floodway limits are same as Base Flood limits.

Table 2 - BASE FLOOD WATER SURFACE ELEVATIONS

Stream	Cross-Section Number	Elevation in Feet (M.S.L.) Existing Conditions	With Allowable Encroachments
Flynn Lane Wash	0.05	1244.3	1244.7
	0.14	1252.5	1253.5
	0.21	1259.8	1259.9
	0.30	1267.4	1268.4
	0.32	1270.1	1270.6
	0.33	1271.3	1272.0
	0.34	1272.5	1273.0
	0.42	1279.2	**
	0.53	1290.1	**
	0.58	1294.7	**
	0.59	1299.1	**
	0.62	1311.9	**
	0.63	1312.1	**
	0.70	1316.3	**
Echo Canyon	0.00	1250.7	1250.8
	0.02	1251.3	1251.4
	0.23	1258.6	1258.7
	0.37	1264.2	1264.6
	0.51	1271.7	1272.7
	0.71	1278.0	1278.8
	0.93	1287.7	1288.4
	1.04	1293.1	1293.5
	1.19	1298.0	1298.3
	1.30	1300.9	1301.2
	1.41	1307.7	1308.3

**Flow contained within existing banks



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 045 E
CURVE DEVELOPED FOR INDEX STATION AT MILE 7.99
ZONE AND REACH LOCATIONS SHOWN ON PLATES 45 AND 46
WATER SURFACE PROFILE SHOWN ON PLATES 57,58, AND 59

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1026.1
250	1024.6
100	1022.8
50	1021.5
25	1020.1
10	1018.3

SALT RIVER

REACH 1

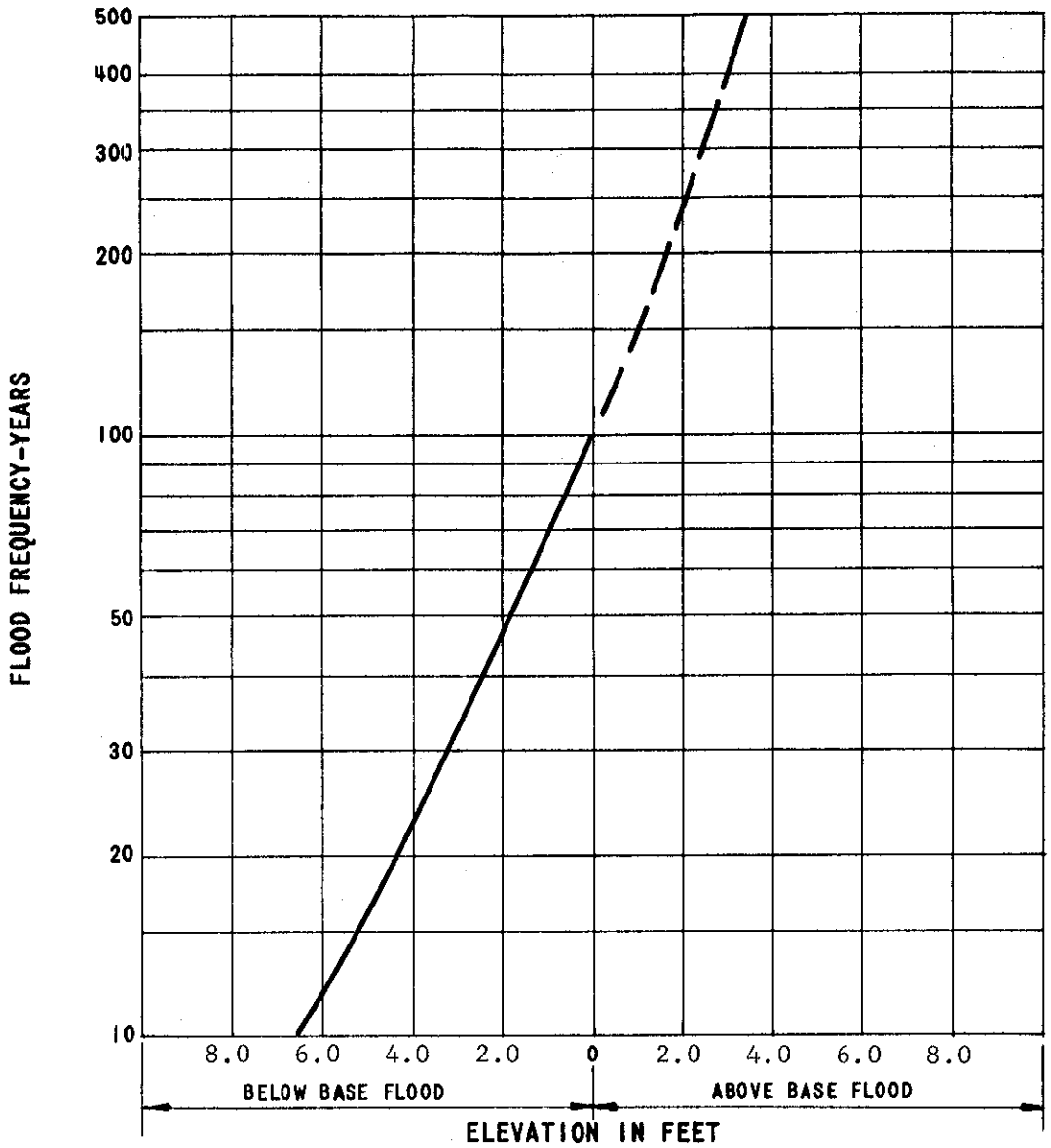
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 1



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 065 A
CURVE DEVELOPED FOR INDEX STATION AT MILE 12.05
ZONE AND REACH LOCATIONS SHOWN ON PLATES 41,45,46, & 47
WATER SURFACE PROFILE SHOWN ON PLATES 59 THROUGH 61

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1062.5
250	1061.1
100	1059.1
50	1057.2
25	1055.1
10	1052.6

SALT RIVER
REACH 2

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
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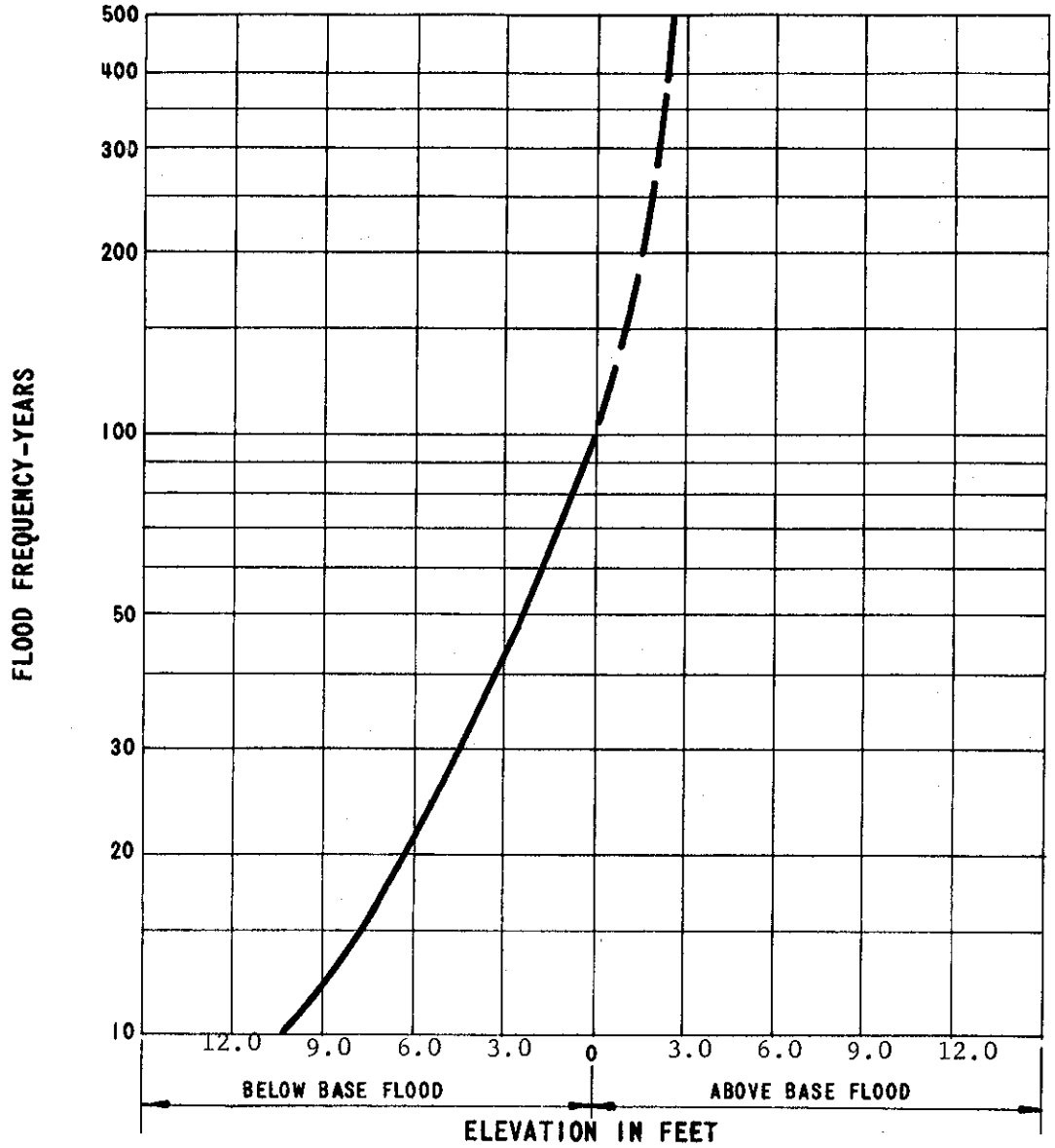

NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NO. 100 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 14.92
ZONE AND REACH LOCATIONS SHOWN ON PLATES 42,43,47,48,50,51
WATER SURFACE PROFILE SHOWN ON PLATES 61 THROUGH 63

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1096.5
250	1095.8
100	1094.0
50	1091.5
25	1088.5
10	1083.7

SALT RIVER
REACH 3

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

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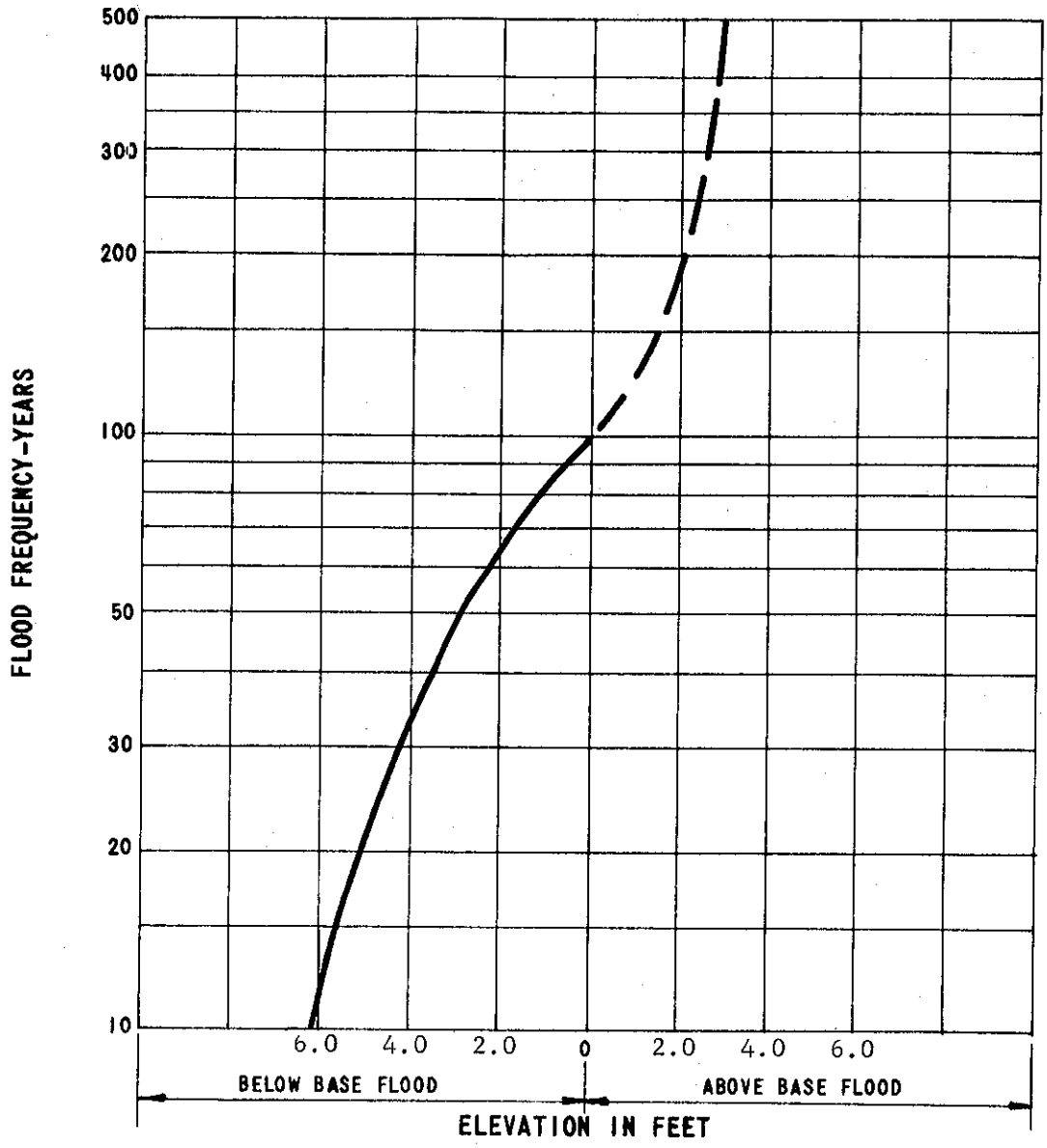
EXHIBIT 3



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR NO. 060 G
CURVE DEVELOPED FOR INDEX STATION AT MILE 16.57
ZONE AND REACH LOCATIONS SHOWN ON PLATES 48 AND 49
WATER SURFACE PROFILE SHOWN ON PLATES 63 AND 64

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1112.4
250	1111.8
100	1109.4
50	1106.4
25	1104.8
10	1103.2

SALT RIVER
REACH 4

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

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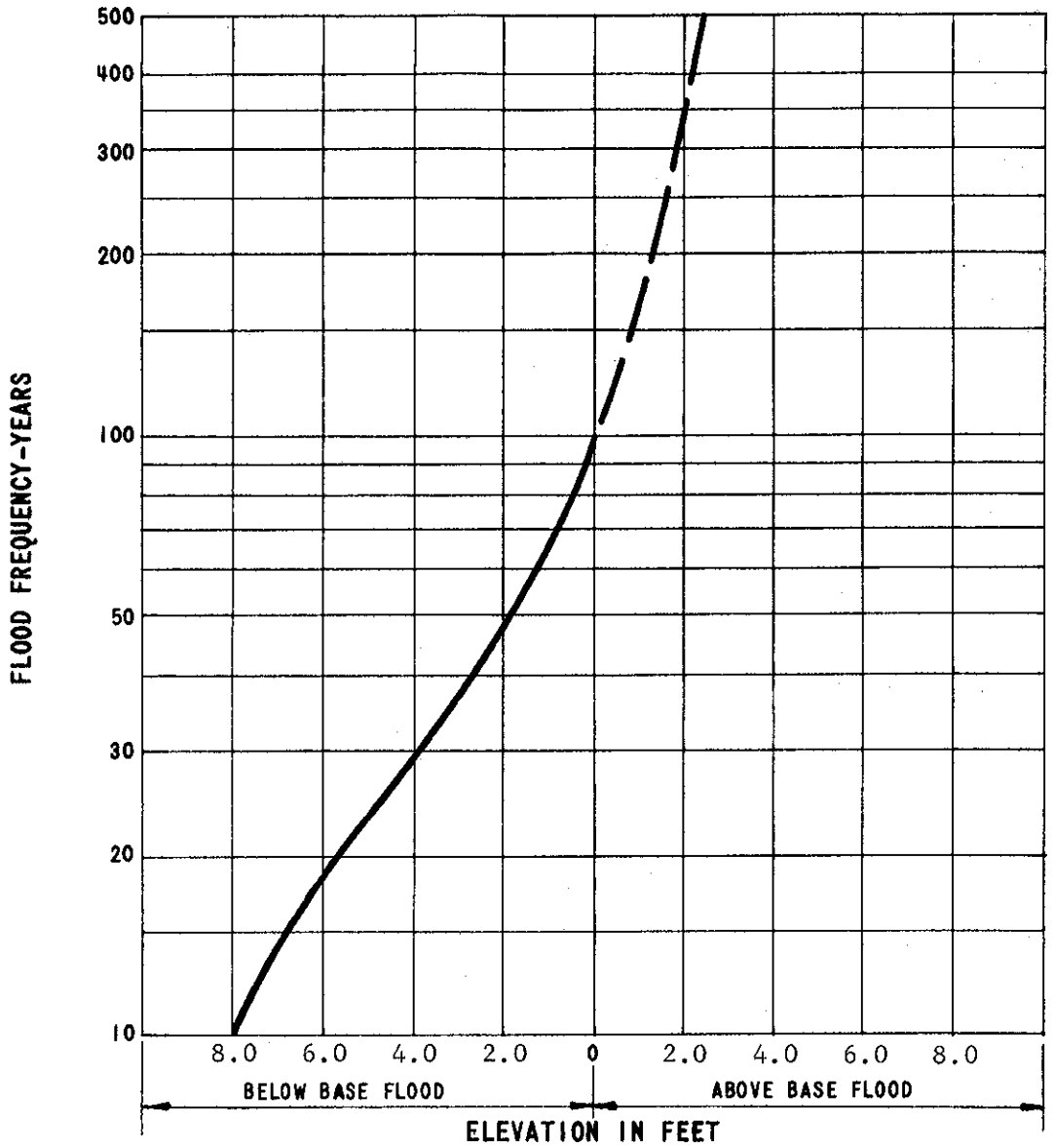

NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 080 A
CURVE DEVELOPED FOR INDEX STATION AT MILE 17.12
ZONE AND REACH LOCATIONS SHOWN ON PLATES 44 AND 49
WATER SURFACE PROFILE SHOWN ON PLATE 64

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1115.9
250	1115.1
100	1113.5
50	1111.7
25	1108.7
10	1105.5

SALT RIVER
REACH 5

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

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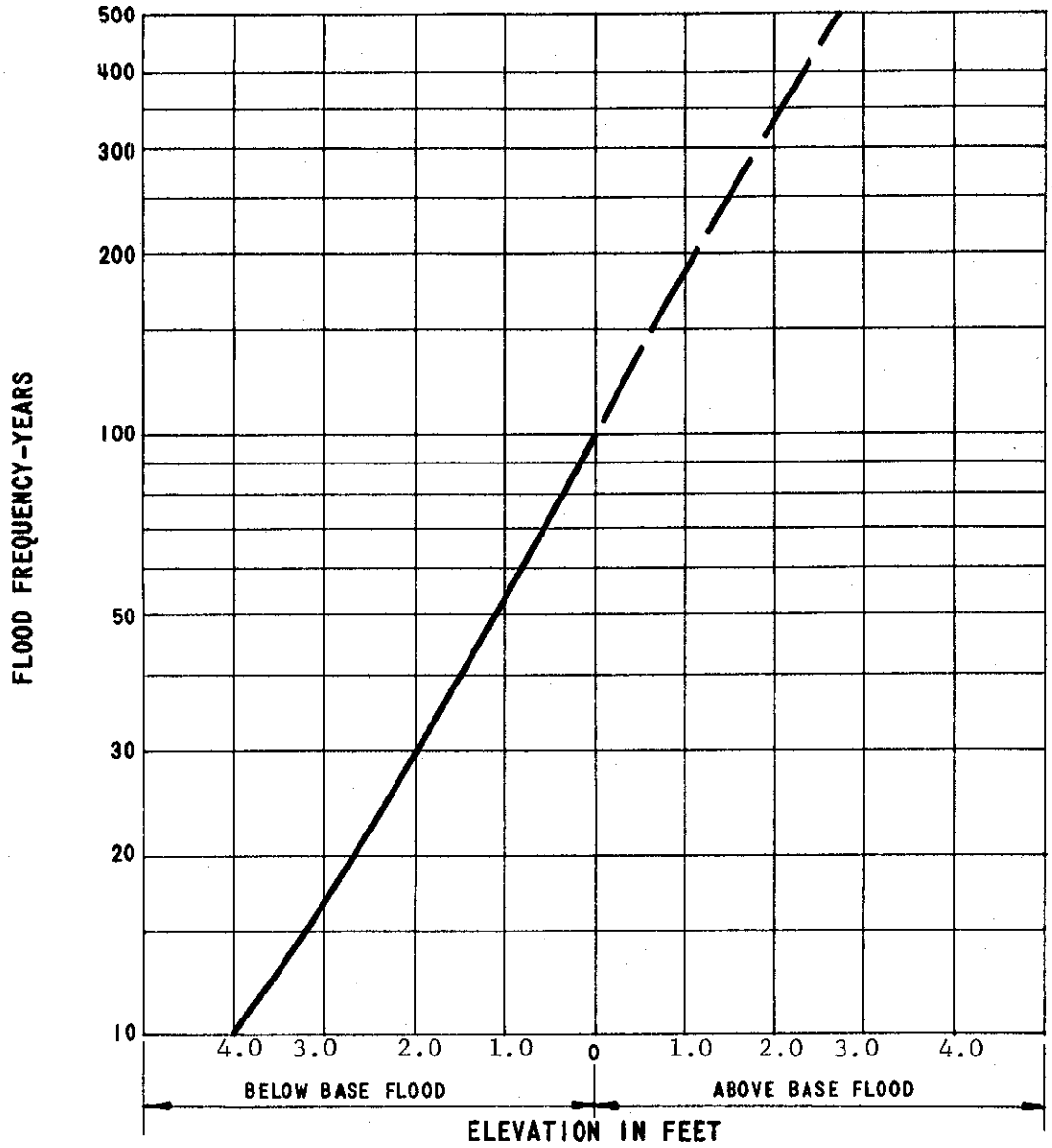
EXHIBIT 5



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 040 E
CURVE DEVELOPED FOR INDEX STATION AT MILE 18.61
ZONE AND REACH LOCATIONS SHOWN ON PLATES 33, 44,45, & 49
WATER SURFACE PROFILE SHOWN ON PLATES 65 AND 66

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1134.6
250	1133.4
100	1131.9
50	1130.8
25	1129.6
10	1128.0

SALT RIVER
REACH 6

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
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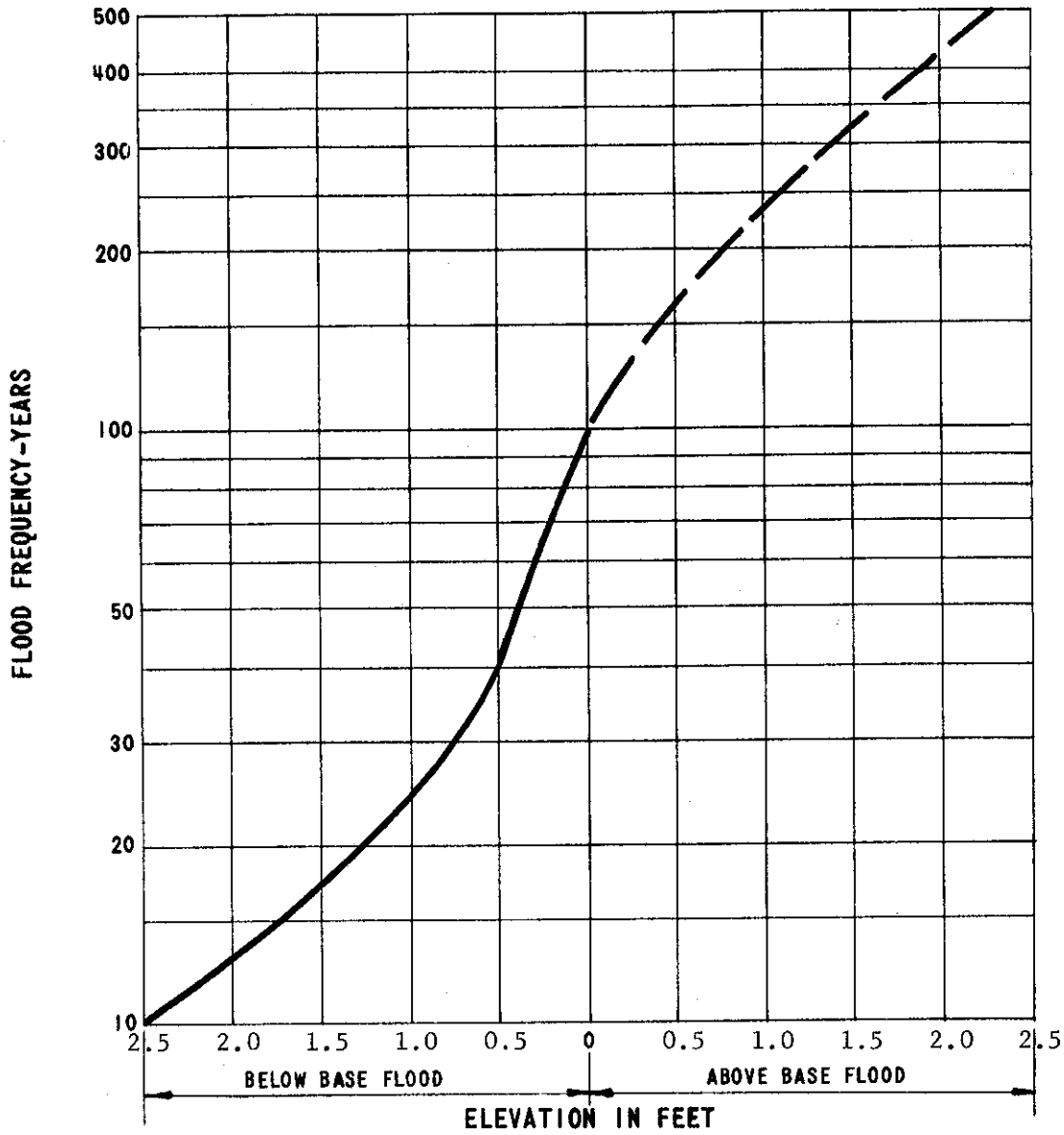
SEPTEMBER 1973

EXHIBIT 6



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 025 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 8.07
ZONE AND REACH SHOWN ON PLATES 15,16,19,20,23,24,30,31,35,36,41,42,47
WATER SURFACE PROFILE SHOWN ON PLATES 67 THROUGH 75

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1165.9
250	1164.7
100	1163.6
50	1163.2
25	1162.6
10	1161.1

CAVE CREEK
REACH 7

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
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SEPTEMBER 1973

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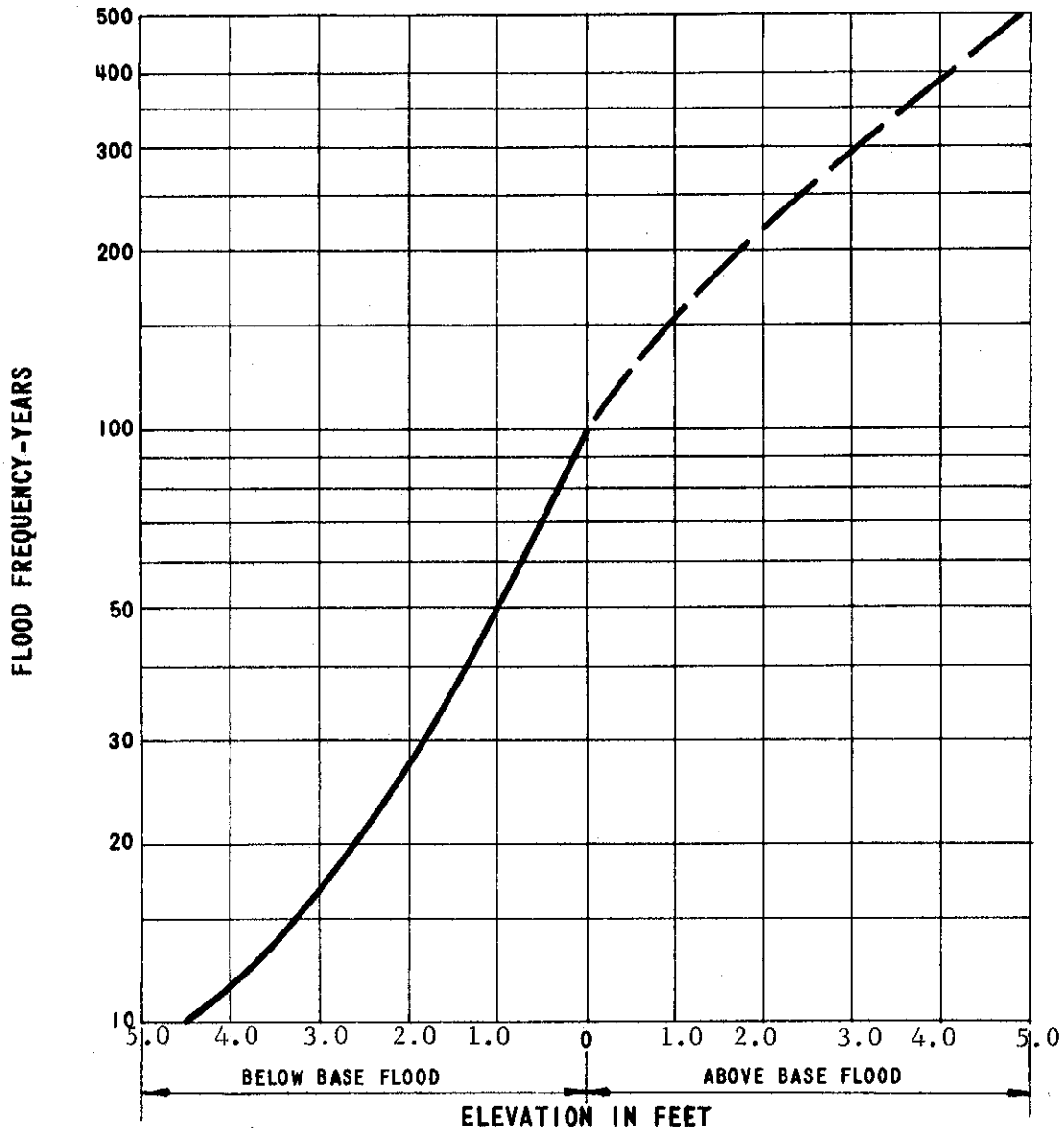

NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 045 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 12.65
ZONE AND REACH LOCATIONS SHOWN ON PLATES 11,15, & 16
WATER SURFACE PROFILE SHOWN ON PLATE 75

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1275.0
250	1272.5
100	1270.1
50	1269.1
25	1267.9
10	1265.6

CAVE CREEK
REACH 8

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

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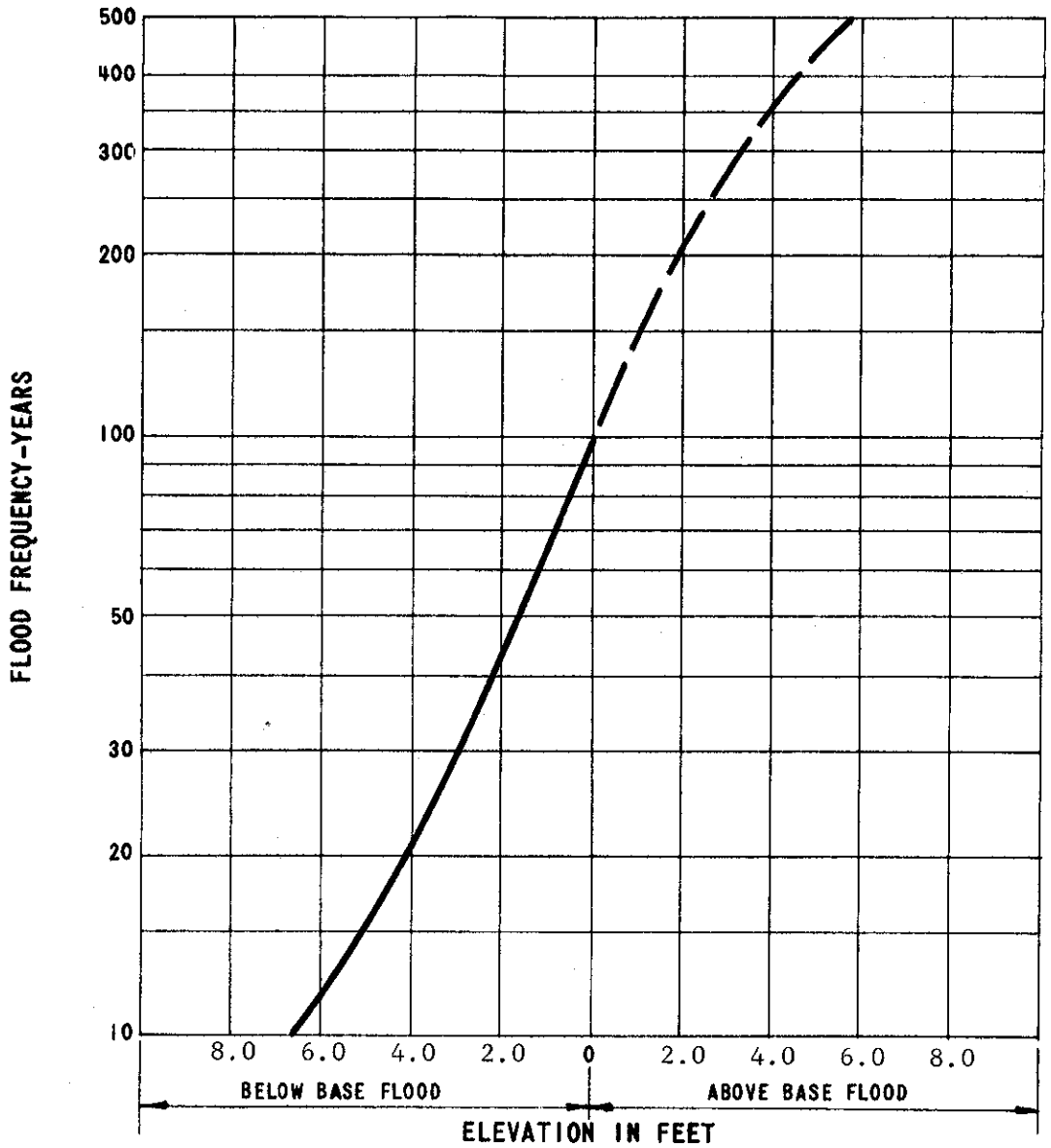
SEPTEMBER 1973

EXHIBIT 8



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 065 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 13.50
ZONE AND REACH LOCATIONS SHOWN ON PLATE 11
WATER SURFACE PROFILE SHOWN ON PLATES 75 AND 76

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1293.6
250	1290.4
100	1287.9
50	1286.3
25	1284.4
10	1281.4

CAVE CREEK
REACH 9

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
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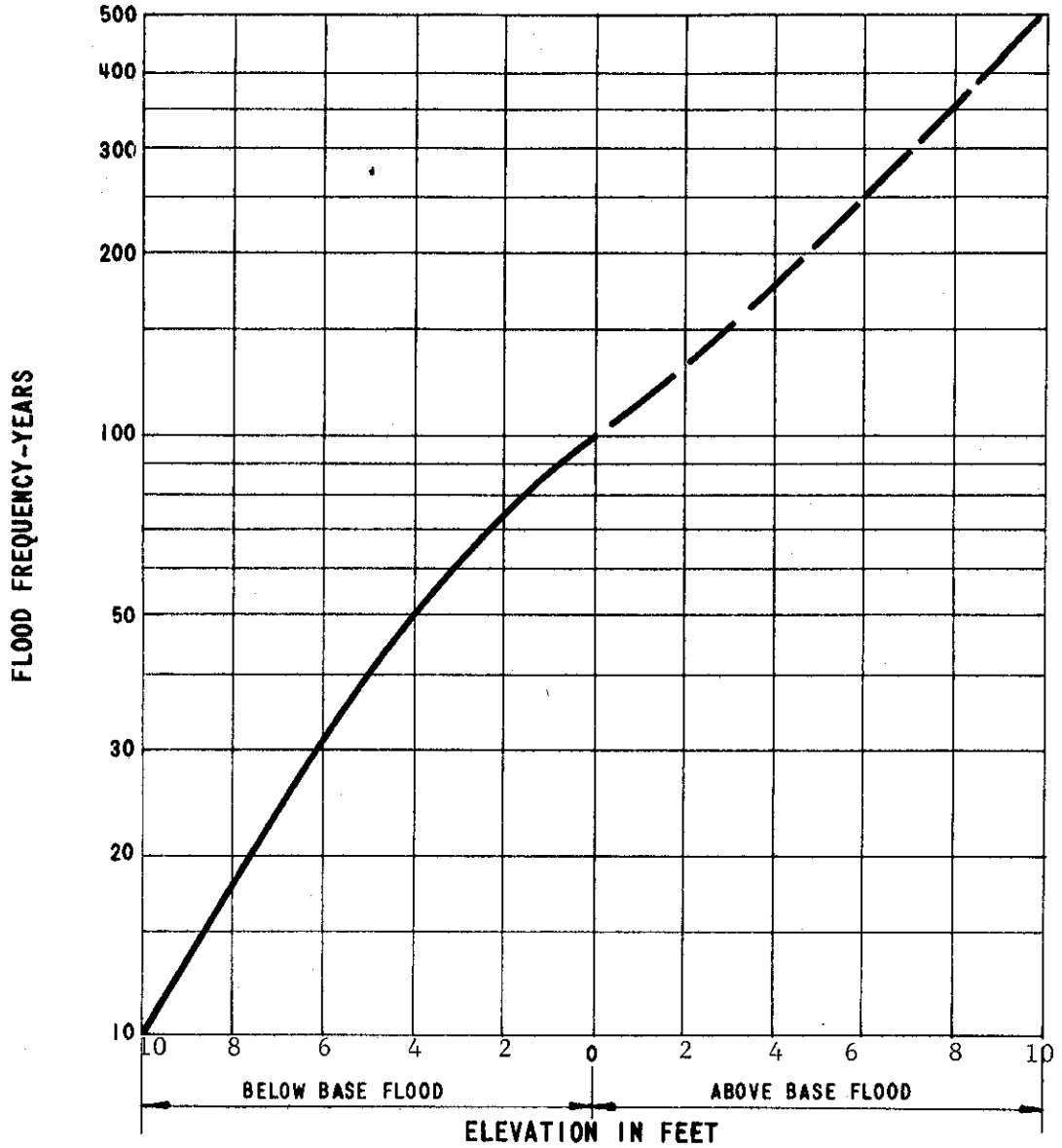
EXHIBIT 9.



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 100 D
CURVE DEVELOPED FOR INDEX STATION AT MILE 14.88
ZONE AND REACH LOCATIONS SHOWN ON PLATES 5,6, AND 11
WATER SURFACE PROFILE SHOWN ON PLATES 76 AND 77

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1321.0
250	1317.3
100	1311.3
50	1307.3
25	1304.3
10	1301.3

CAVE CREEK
REACH 10

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

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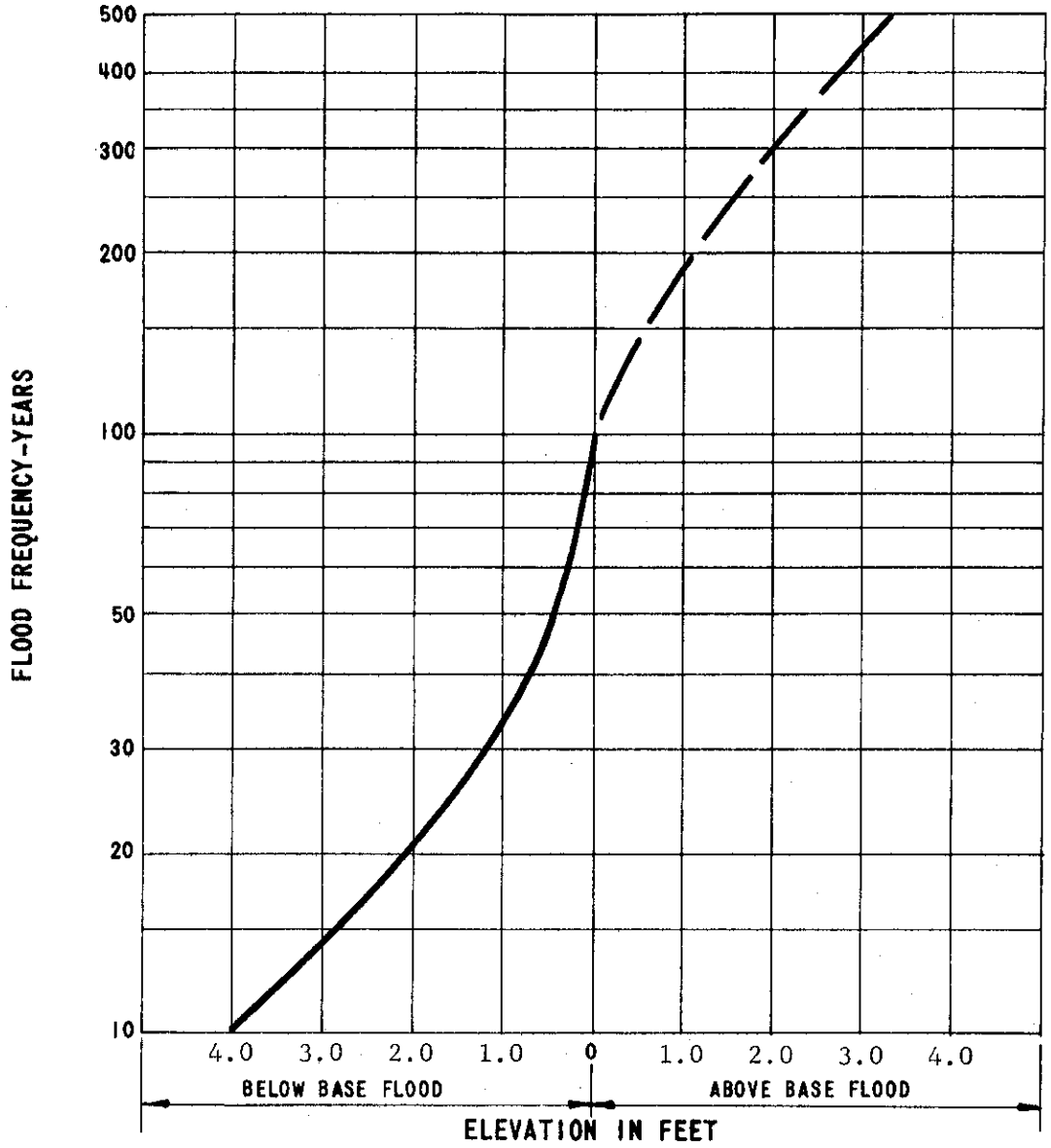
EXHIBIT 10



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 040 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 16.30
ZONE AND REACH LOCATIONS SHOWN ON PLATES 03 AND 06
WATER SURFACE PROFILE SHOWN ON PLATES 77 THROUGH 79

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1360.2
250	1358.4
100	1356.9
50	1356.5
25	1355.3
10	1352.9

CAVE CREEK

REACH 11

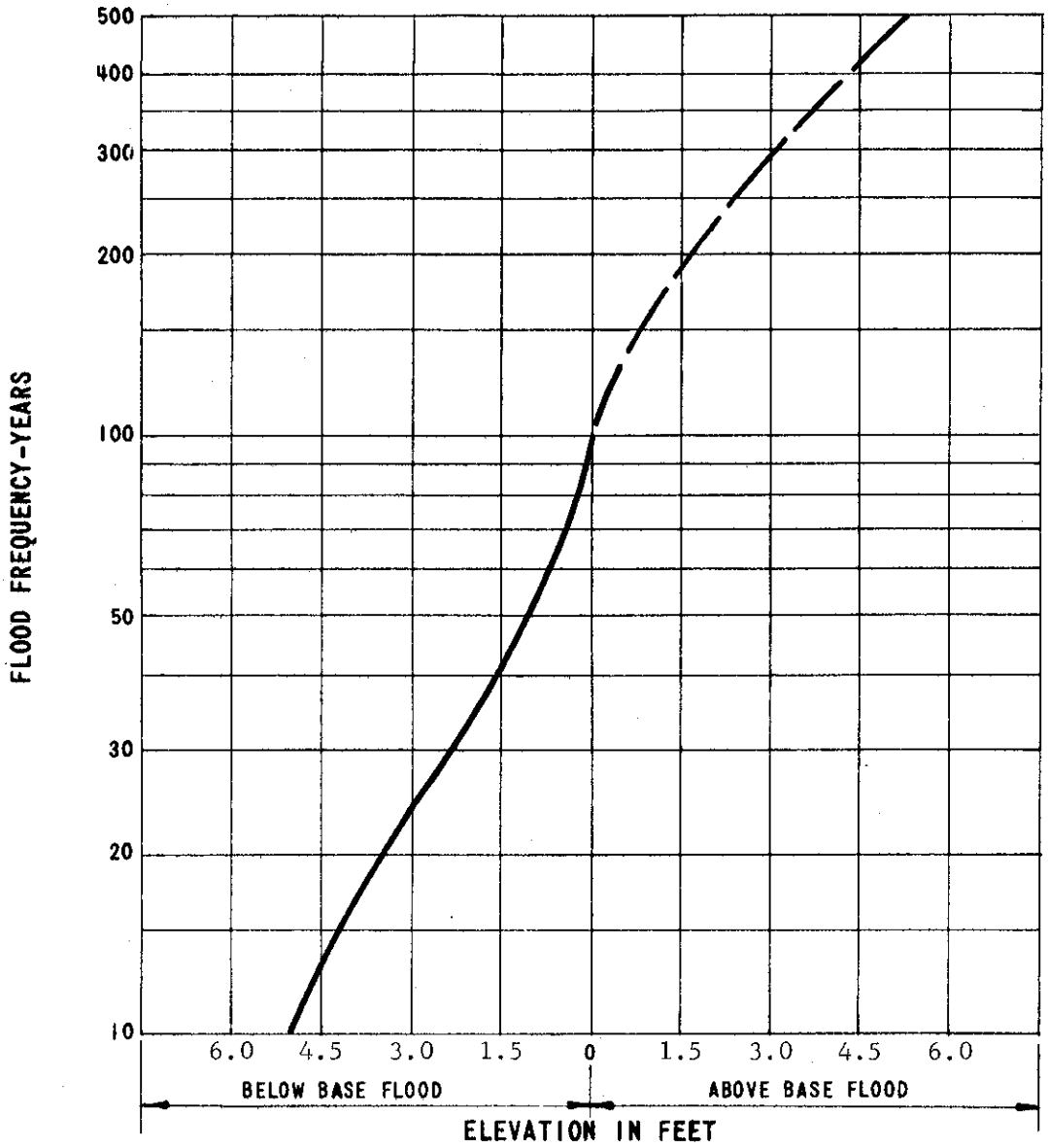
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 11



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 050 E
CURVE DEVELOPED FOR INDEX STATION AT MILE 19.46
ZONE AND REACH LOCATIONS SHOWN ON PLATES 01 THROUGH 04
WATER SURFACE PROFILE SHOWN ON PLATES 79 AND 80

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1459.0
250	1456.1
100	1453.7
50	1452.7
25	1450.7
10	1448.7

CAVE CREEK
REACH 12

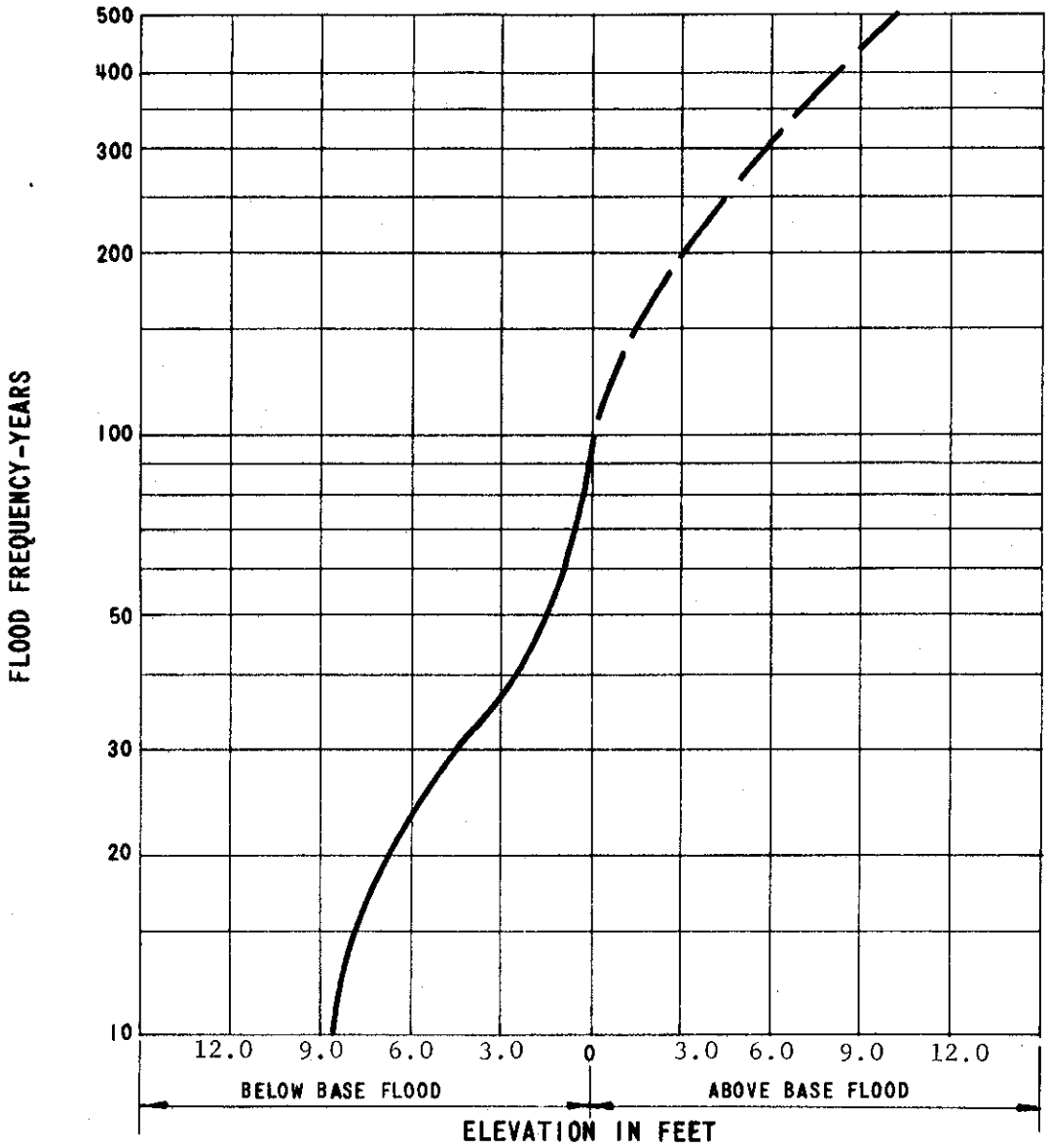
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 12



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 085 D
CURVE DEVELOPED FOR INDEX STATION AT MILE 20.15
ZONE AND REACH LOCATIONS SHOWN ON PLATE 02
WATER SURFACE PROFILE SHOWN ON PLATE 80

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1485.2
250	1479.4
100	1475.0
50	1473.6
25	1469.2
10	1466.5

CAVE CREEK
REACH 13

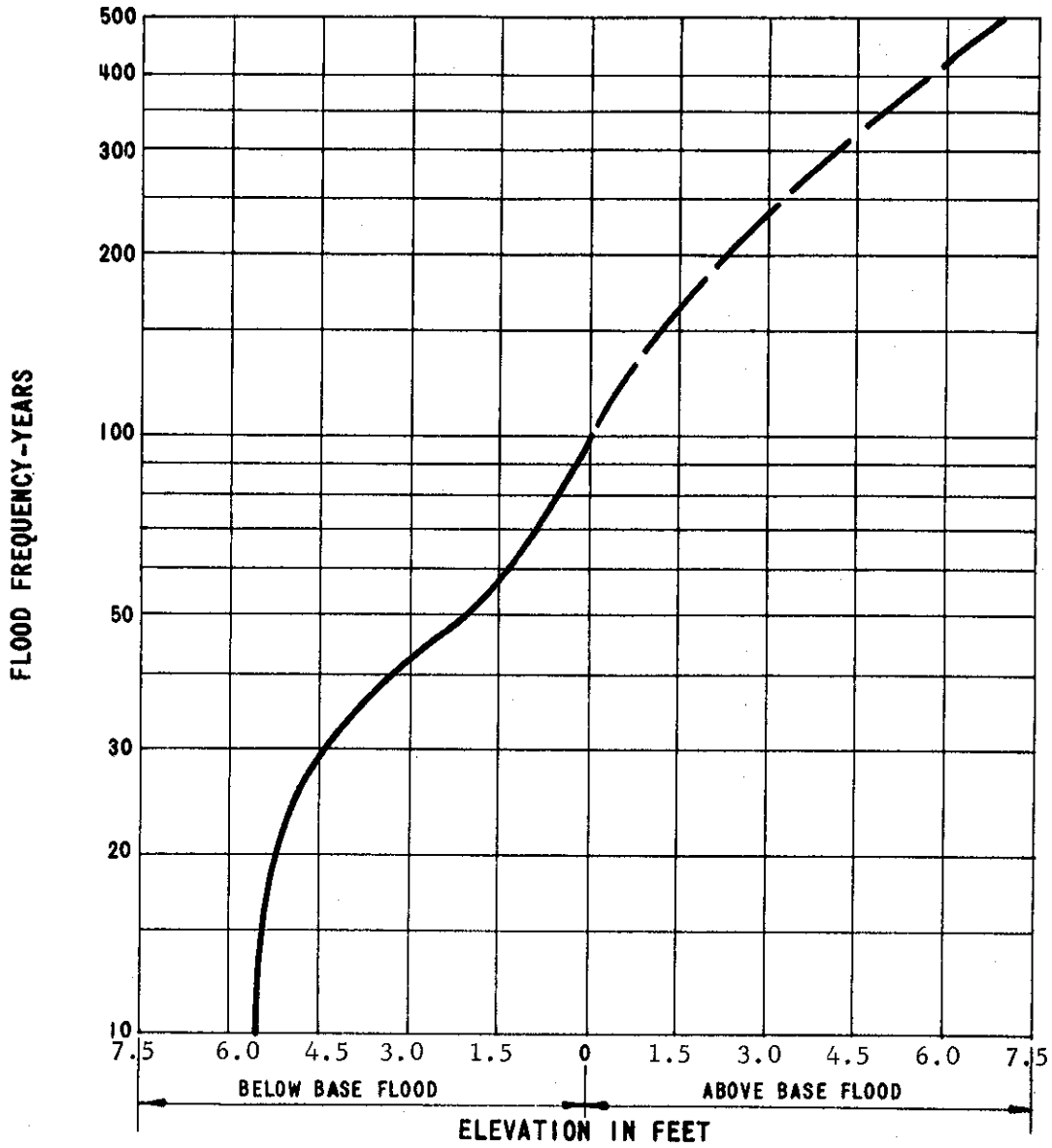
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 13



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 055 D
CURVE DEVELOPED FOR INDEX STATION AT MILE 21.11
ZONE AND REACH LOCATIONS SHOWN ON PLATE 02
WATER SURFACE PROFILE SHOWN ON PLATES 80 AND 81

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1511.2
250	1507.4
100	1504.2
50	1502.3
25	1499.1
10	1498.7

CAVE CREEK
REACH 14

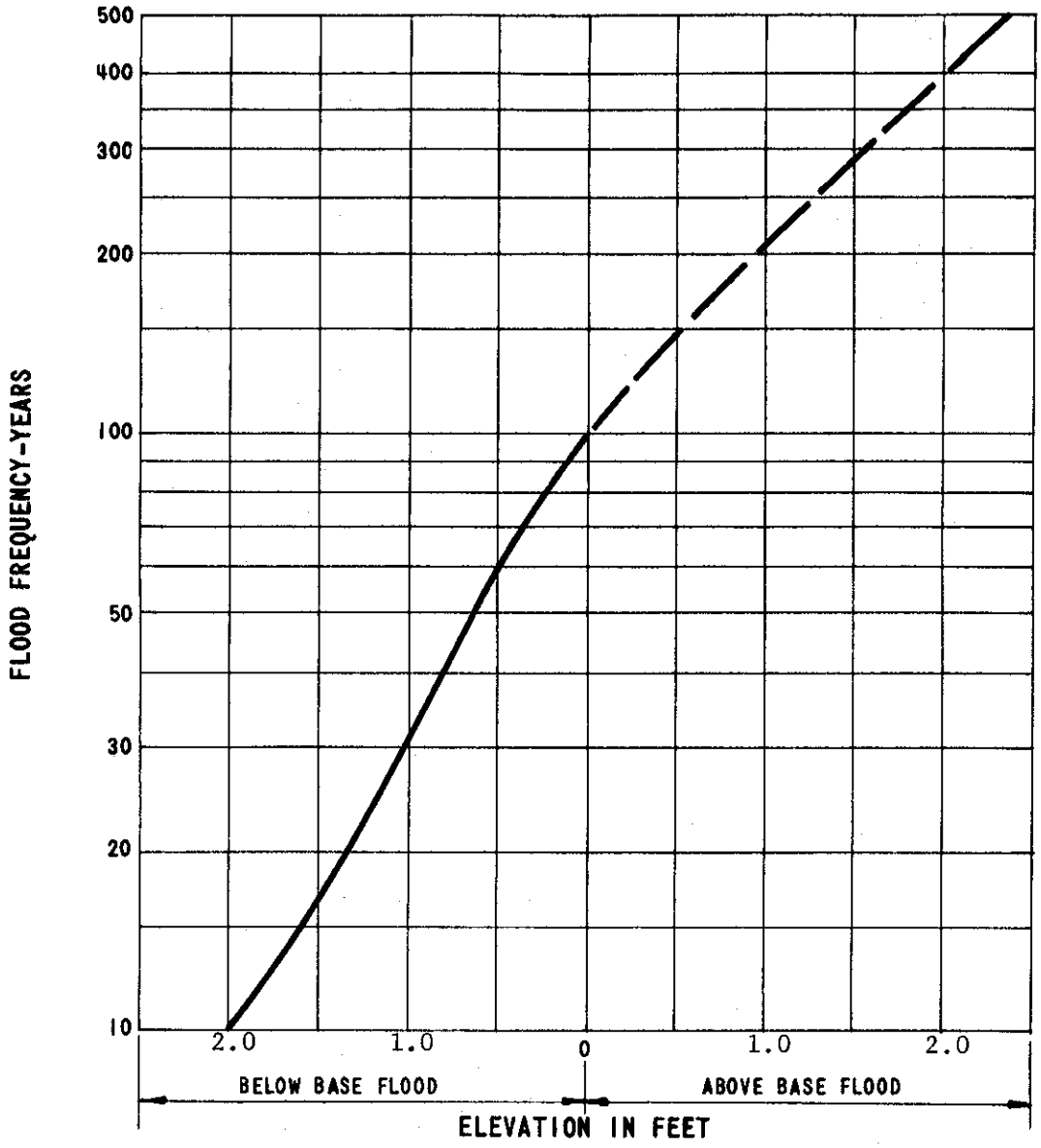
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 14



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 020 E
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.61
ZONE AND REACH LOCATIONS SHOWN ON PLATE 11
WATER SURFACE PROFILE SHOWN ON PLATES 82 AND 83

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1299.3
250	1298.3
100	1297.0
50	1296.3
25	1295.7
10	1295.0

MOON VALLEY WASH
REACH 15

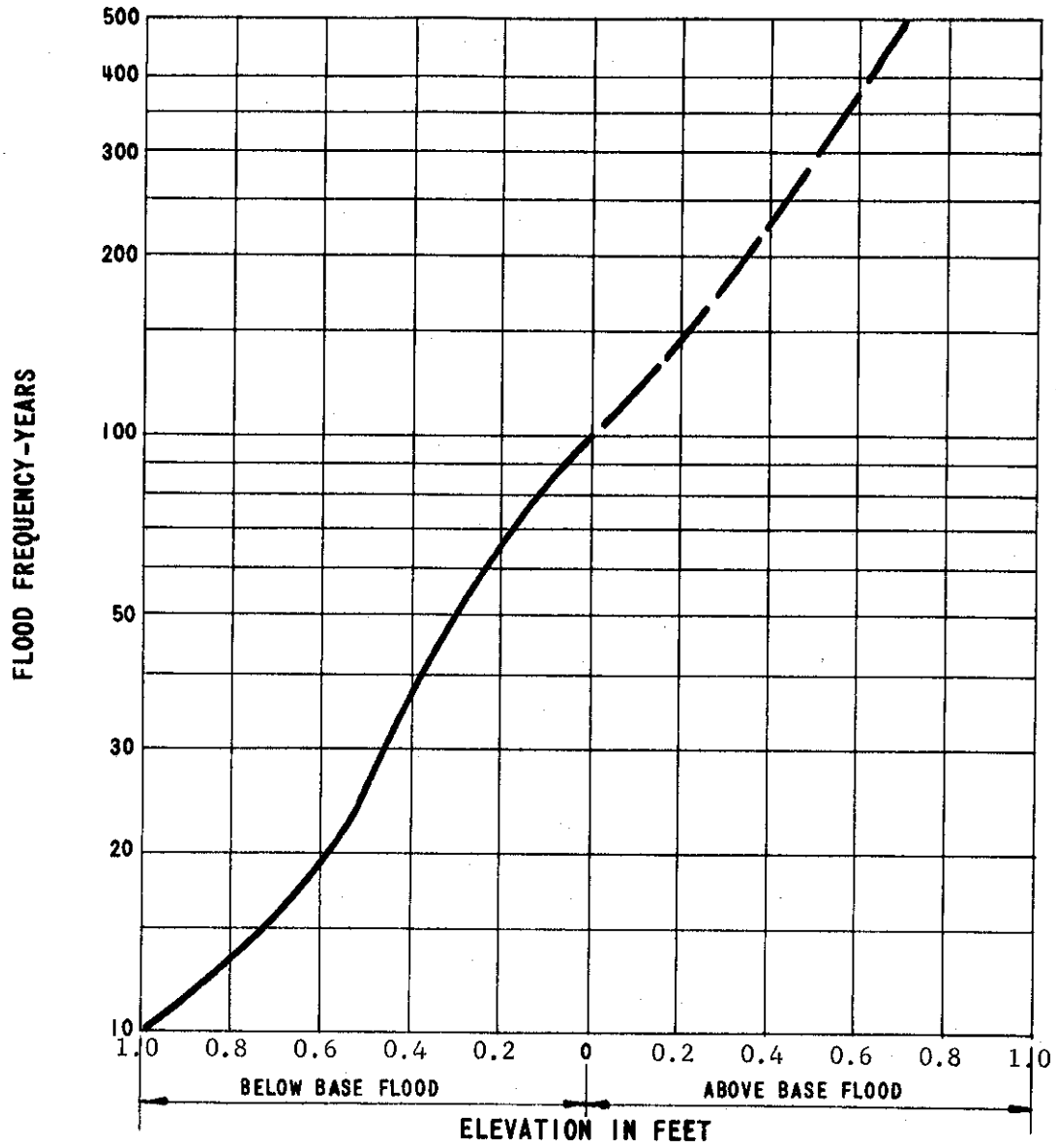
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 15



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 010 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 2.20
ZONE AND REACH LOCATIONS SHOWN ON PLATES 06, 11, AND 12
WATER SURFACE PROFILE SHOWN ON PLATES 83 AND 84

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1339.2
250	1338.9
100	1338.5
50	1338.2
25	1338.0
10	1337.5

MOON VALLEY WASH

REACH 16

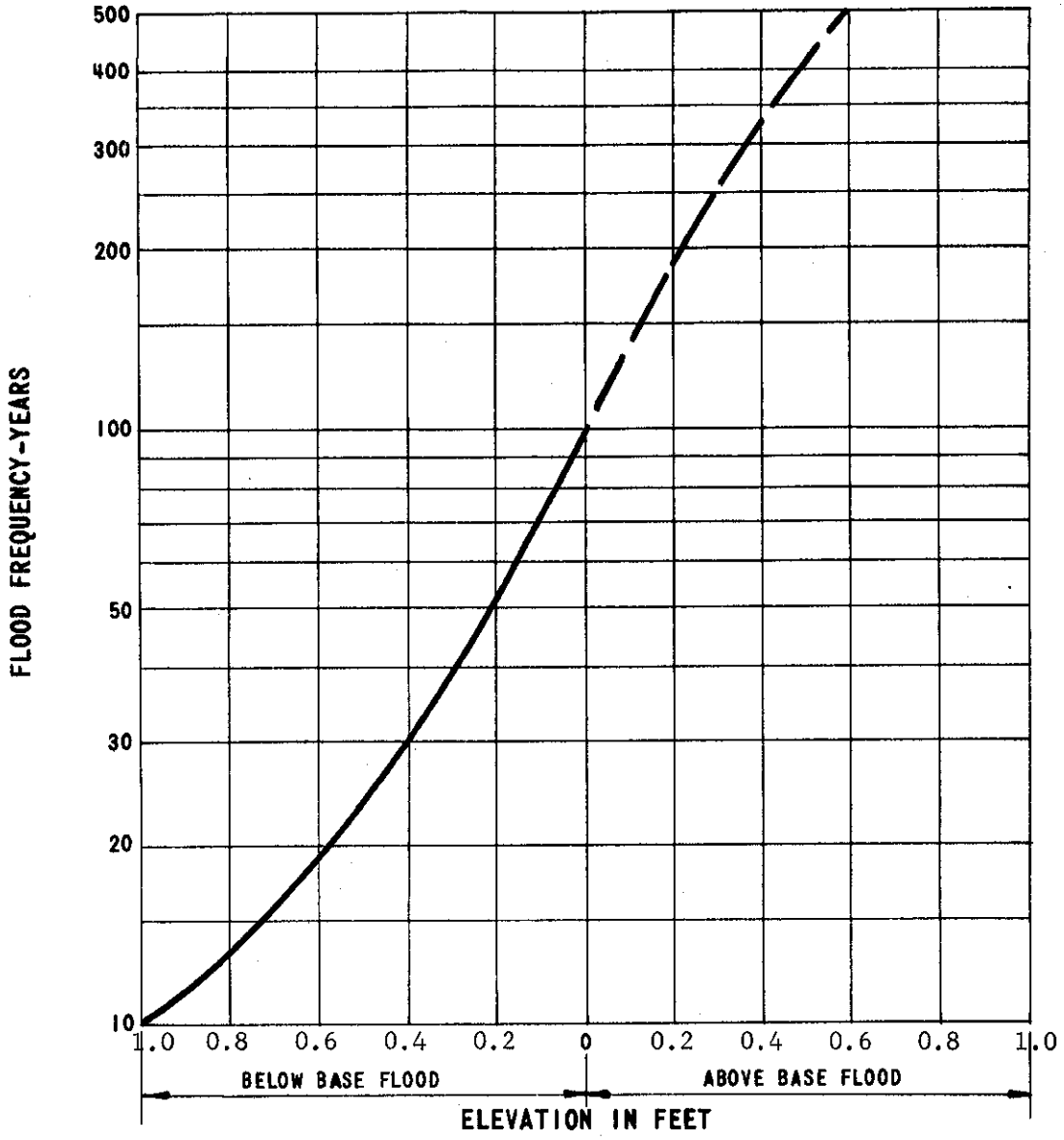
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 16



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 010 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.80
ZONE AND REACH LOCATIONS SHOWN ON PLATES 11 AND 12
WATER SURFACE PROFILE SHOWN ON PLATE 85

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1365.2
250	1364.9
100	1364.6
50	1364.4
25	1364.1
10	1363.6

S. FORK MOON VALLEY WASH

REACH 17

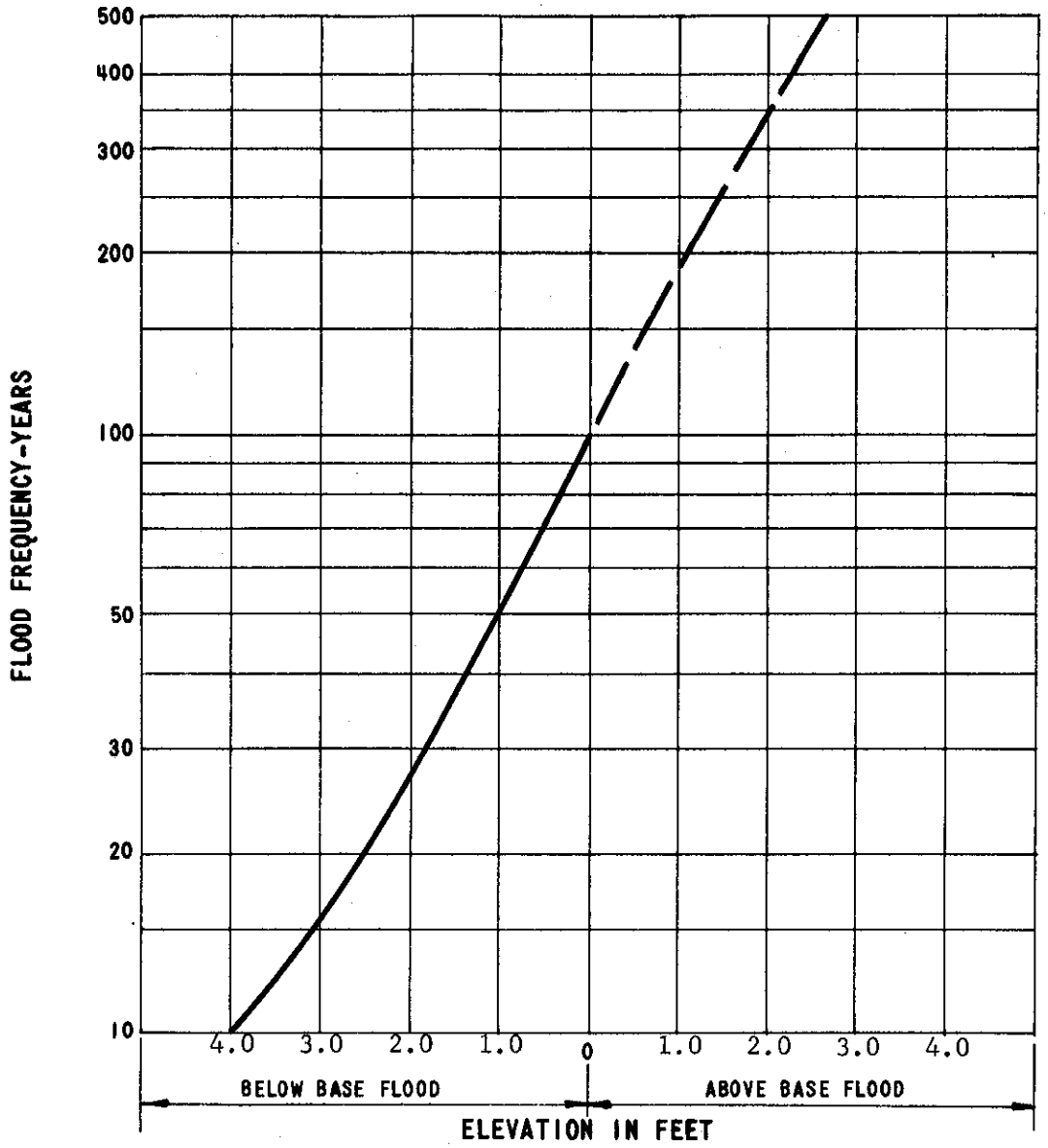
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 17



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 040 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.57
ZONE AND REACH LOCATIONS SHOWN ON PLATE 06 AND 11
WATER SURFACE PROFILE SHOWN ON PLATE 86

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1344.7
250	1343.5
100	1342.0
50	1341.0
25	1339.8
10	1338.0

E. FORK CAVE CREEK
REACH 18

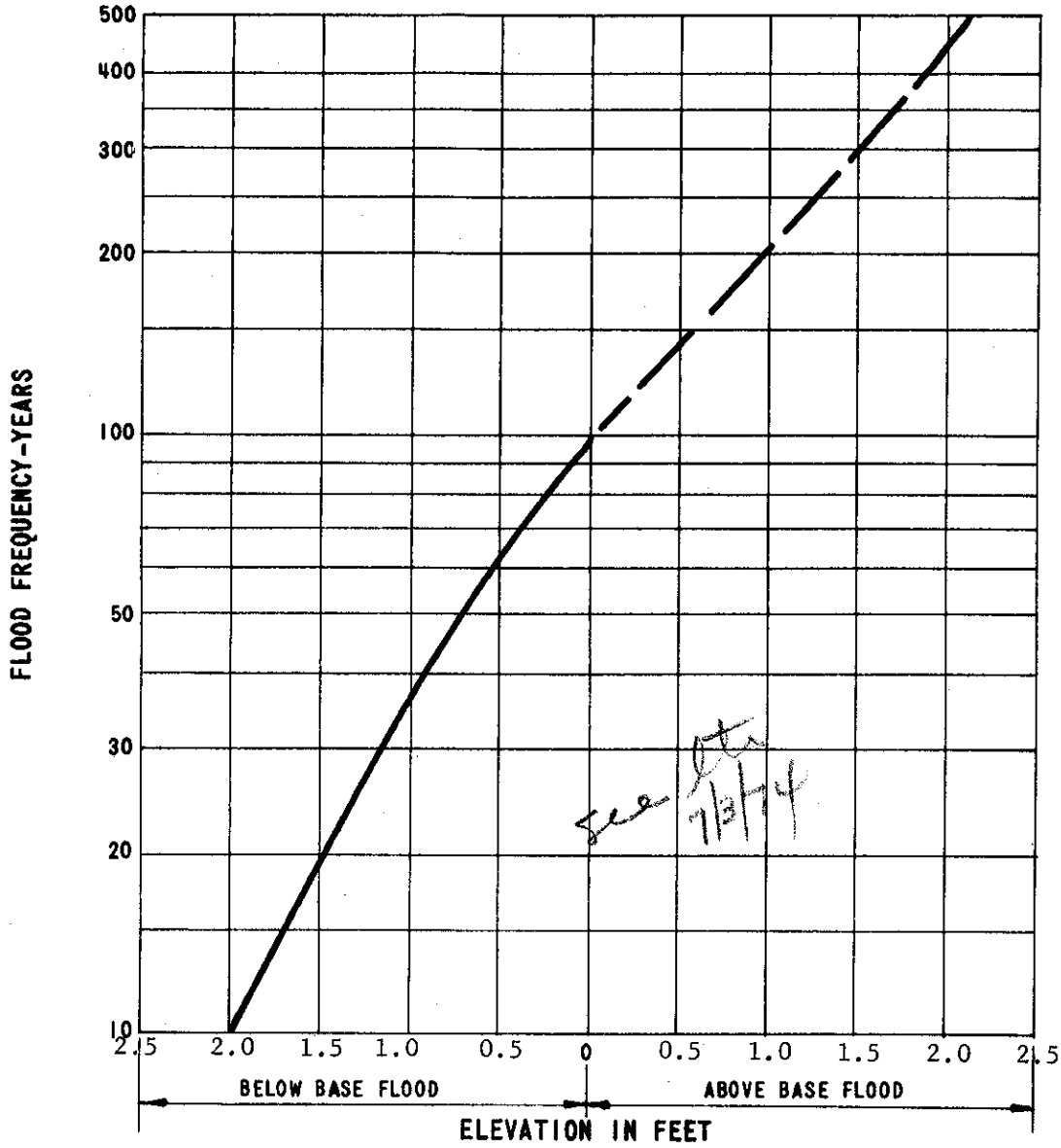
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 18



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 020 D
CURVE DEVELOPED FOR INDEX STATION AT MILE 1.40
ZONE AND REACH LOCATIONS SHOWN ON PLATE 06
WATER SURFACE PROFILE SHOWN ON PLATES 86 AND 87

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1360.9
250	1360.0
100	1358.8
50	1358.1
25	1357.5
10	1356.8

E. FORK CAVE CREEK

REACH 19

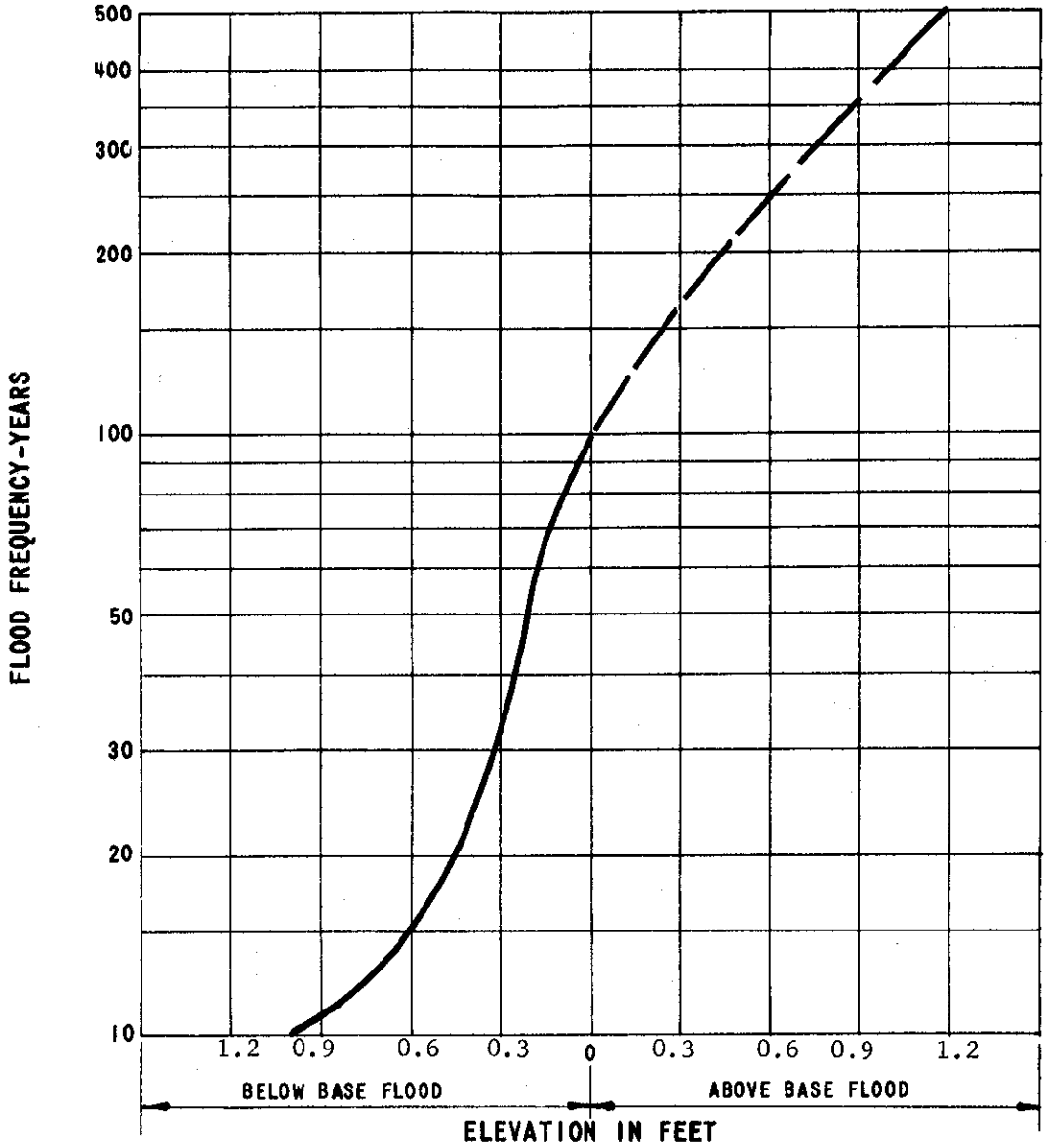
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 19



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 010 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.11
ZONE AND REACH LOCATIONS SHOWN ON PLATE 06
WATER SURFACE PROFILE SHOWN ON PLATE 88

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1354.1
250	1353.5
100	1352.9
50	1352.7
25	1352.5
10	1351.9

W. BRANCH E. FORK CAVE CREEK
REACH 20

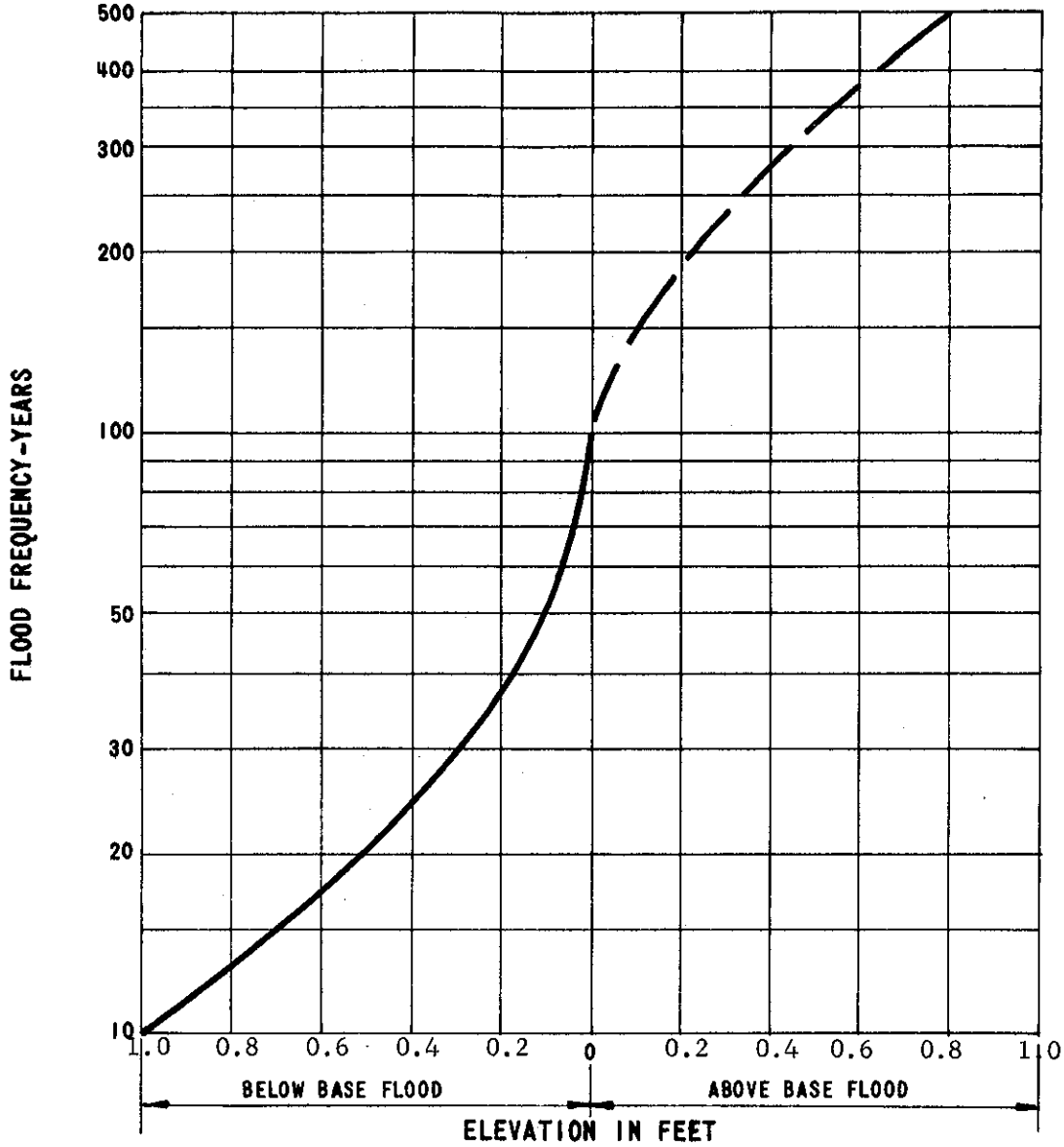
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 20



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 010 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.60
ZONE AND REACH LOCATIONS SHOWN ON PLATE 02
WATER SURFACE PROFILE SHOWN ON PLATE 89

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1496.0
250	1495.5
100	1495.2
50	1495.1
25	1494.8
10	1494.2

CAVE CR. TRIB. AT DEER VALLEY DR.

REACH 21

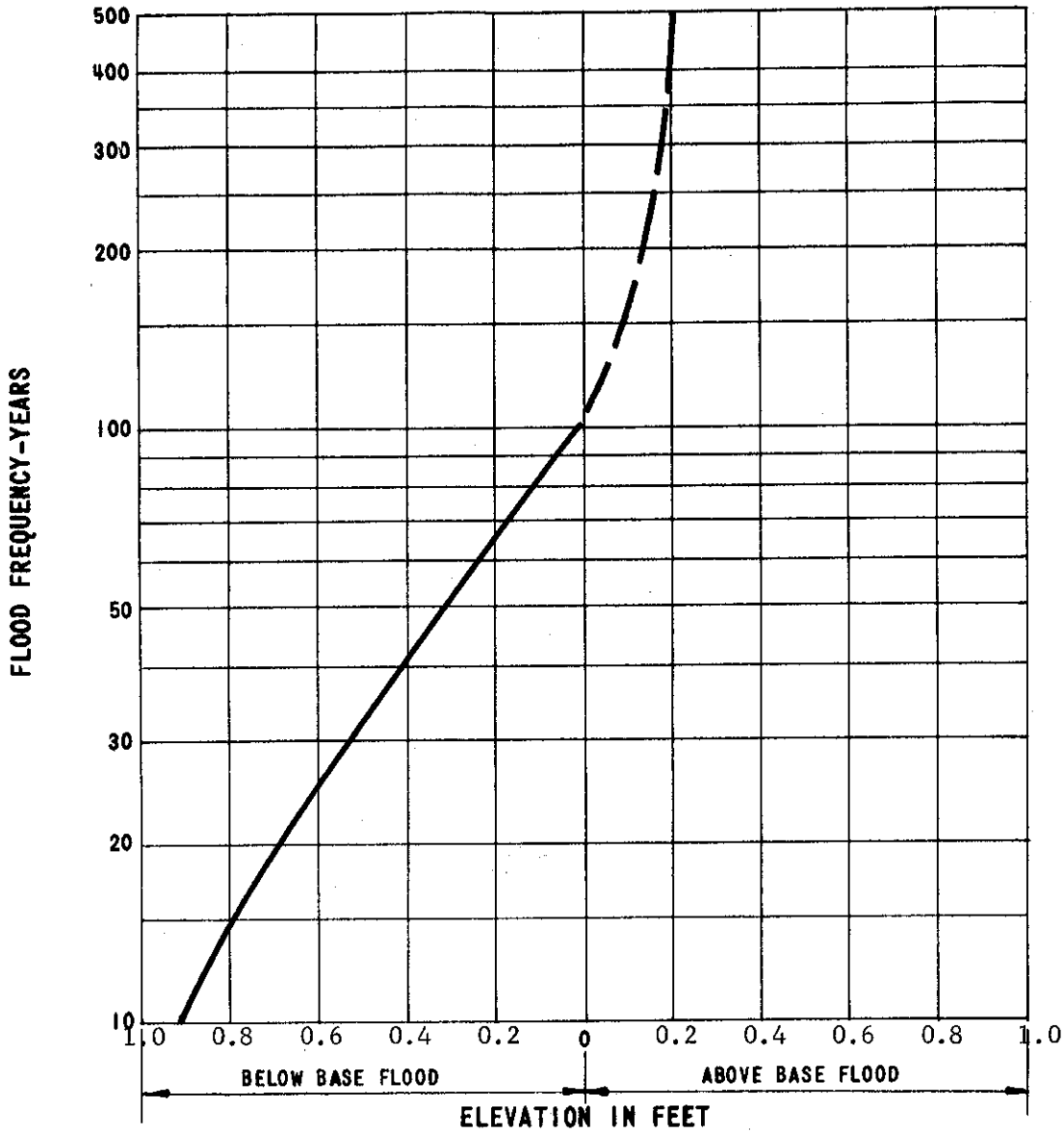
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 21



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 010 A
CURVE DEVELOPED FOR INDEX STATION AT MILE 3.65
ZONE AND REACH LOCATIONS SHOWN ON PLATE 01
WATER SURFACE PROFILE SHOWN ON PLATES 90 AND 91

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1417.2
250	1417.1
100	1417.0
50	1416.7
25	1416.4
10	1416.1

SCATTER WASH
REACH 22

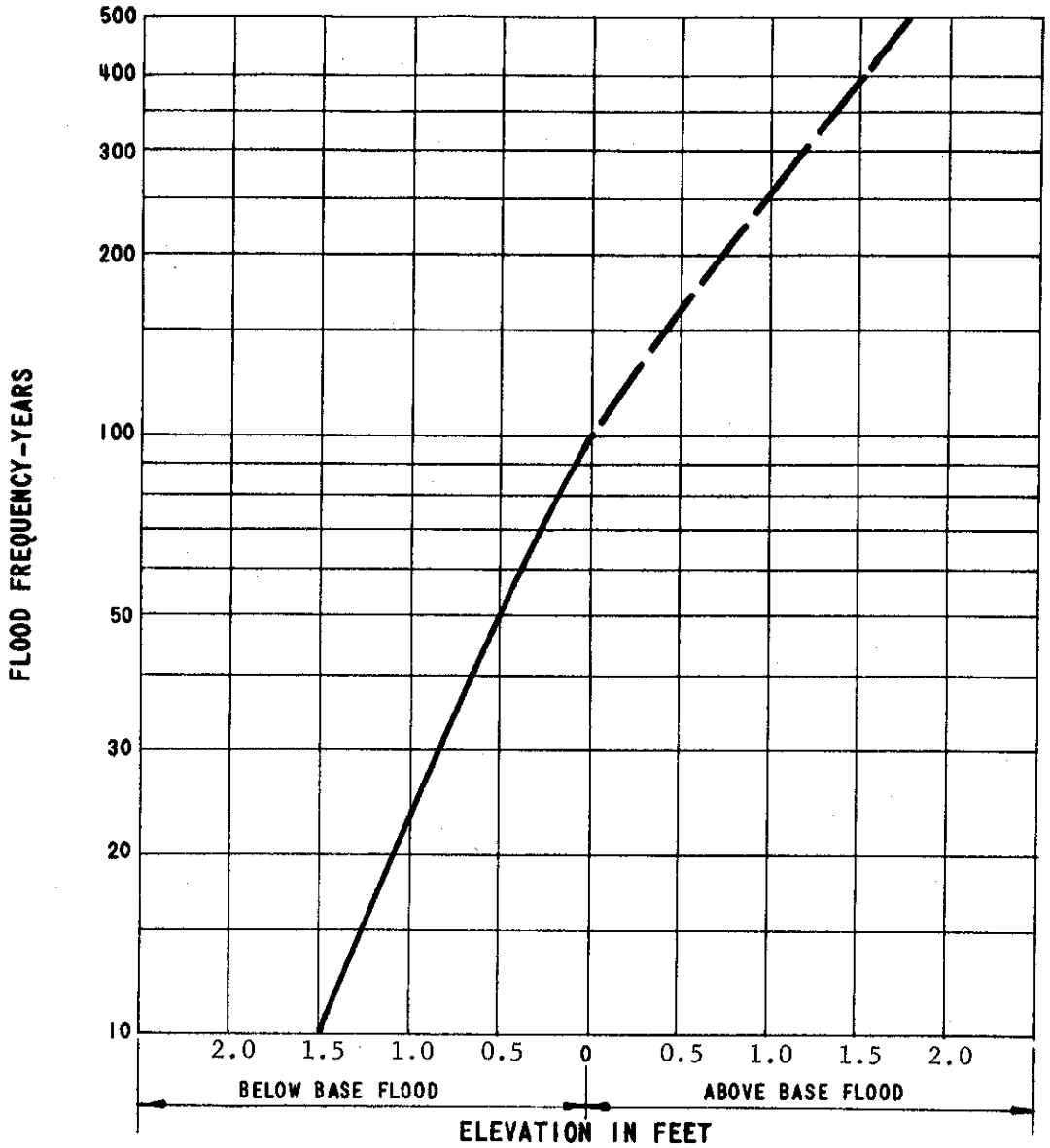
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 22



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 015 D
CURVE DEVELOPED FOR INDEX STATION AT MILE 12.47
ZONE AND REACH LOCATIONS SHOWN ON PLATES 13,14,18,22
WATER SURFACE PROFILE SHOWN ON PLATES 92 THROUGH 94

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1379.5
250	1378.7
100	1377.7
50	1377.2
25	1376.8
10	1376.2

INDIAN BEND WASH
REACH 23

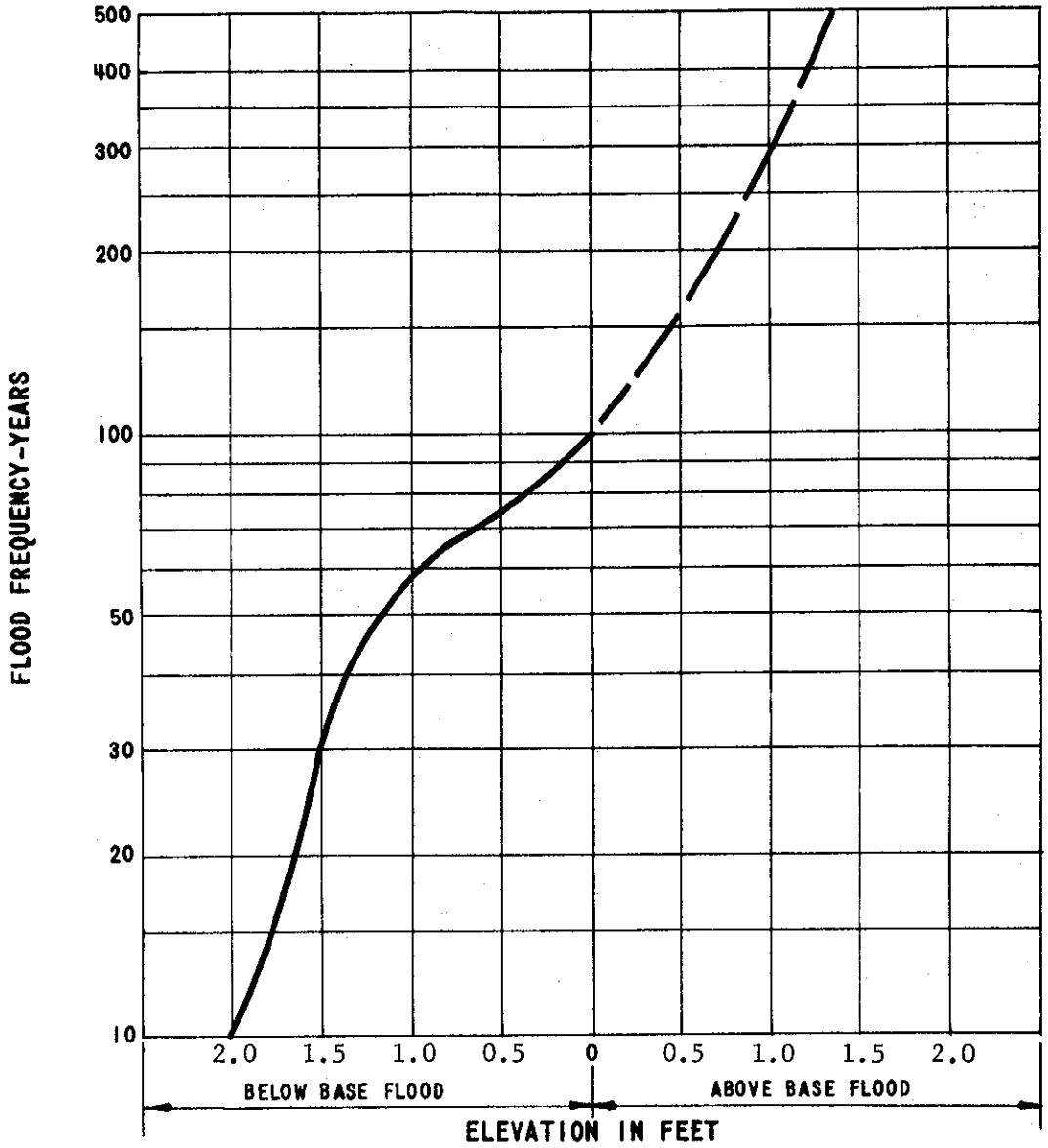
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 23



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 020 C
CURVE DEVELOPED FOR INDEX STATION AT MILE 1.67
ZONE AND REACH LOCATIONS SHOWN ON PLATES 16,17,20, & 21
WATER SURFACE PROFILE SHOWN ON PLATES 95 AND 96

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1313.0
250	1312.6
100	1311.7
50	1310.5
25	1310.1
10	1309.7

TENTH ST. WASH
REACH 24

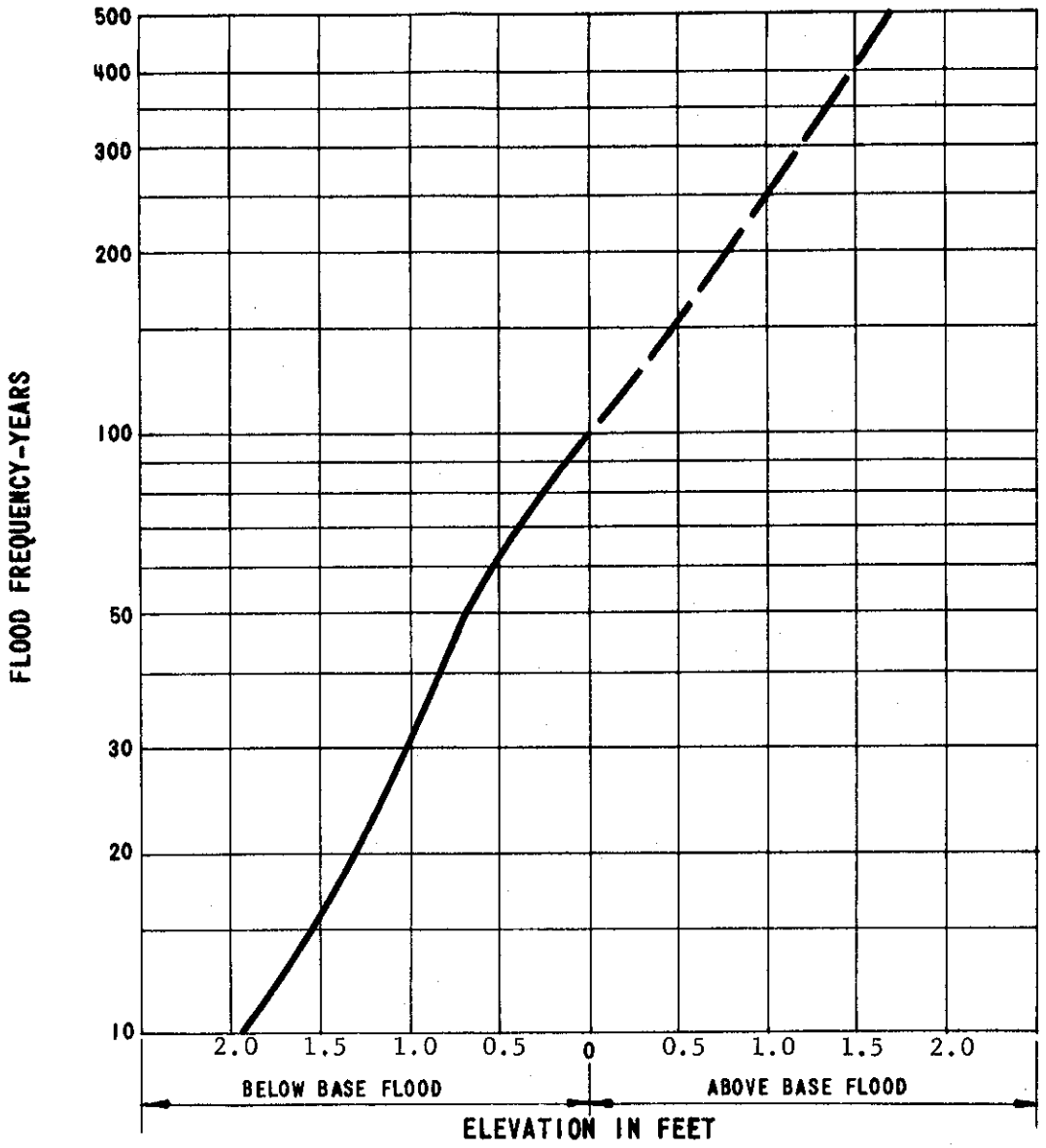
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 24



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 020 D
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.63
ZONE AND REACH LOCATIONS SHOWN ON PLATES 20 AND 21
WATER SURFACE PROFILE SHOWN ON PLATE 97

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1278.0
250	1277.3
100	1276.3
50	1275.6
25	1275.1
10	1274.4

NORTHERN AVE. WASH
REACH 25

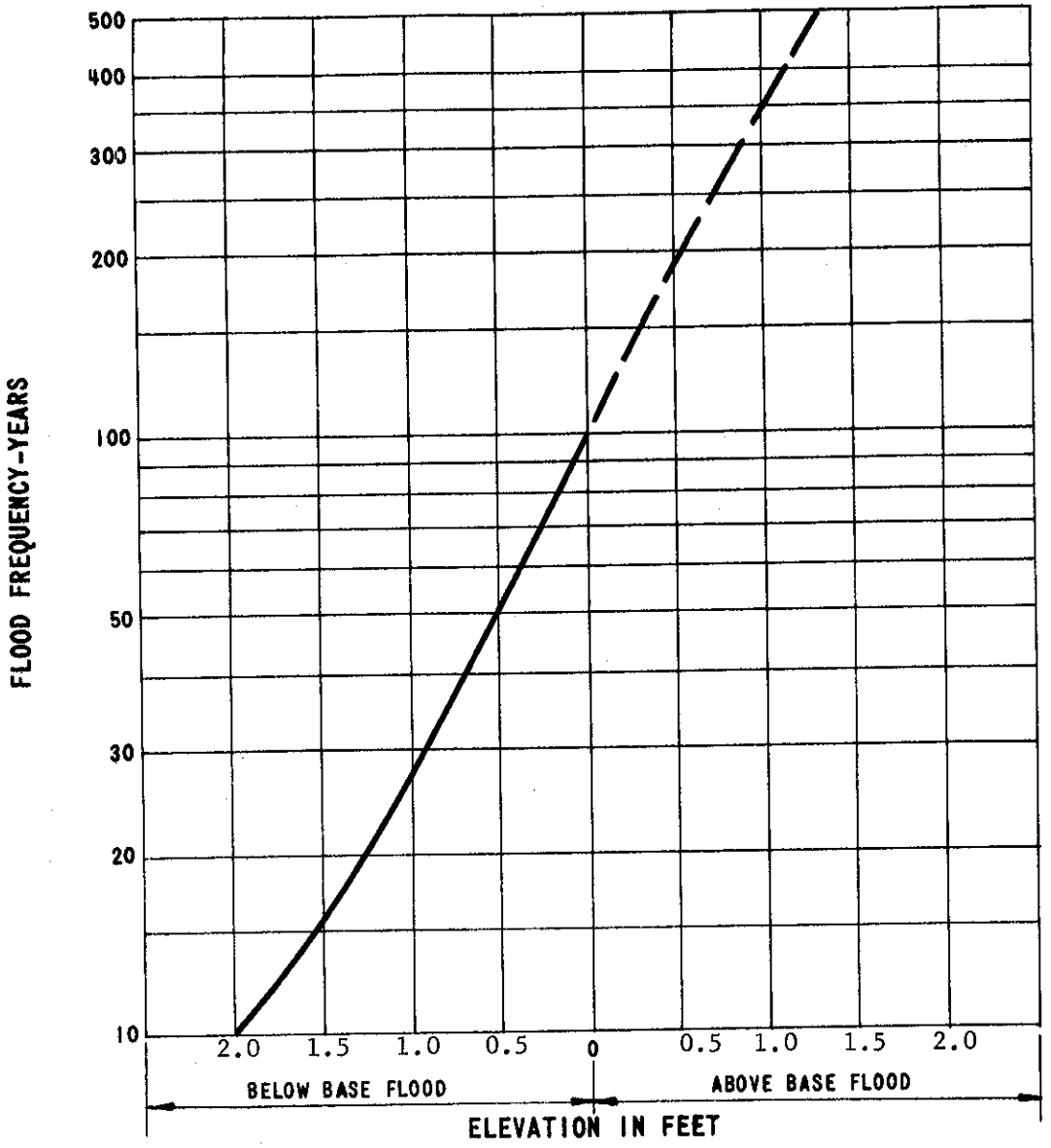
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 25



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 020 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.65
ZONE AND REACH LOCATIONS SHOWN ON PLATES 20 AND 21
WATER SURFACE PROFILE SHOWN ON PLATE 98

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1274.4
250	1273.8
100	1273.1
50	1272.6
25	1272.0
10	1271.1

DREAMY DRAW WASH
REACH 26

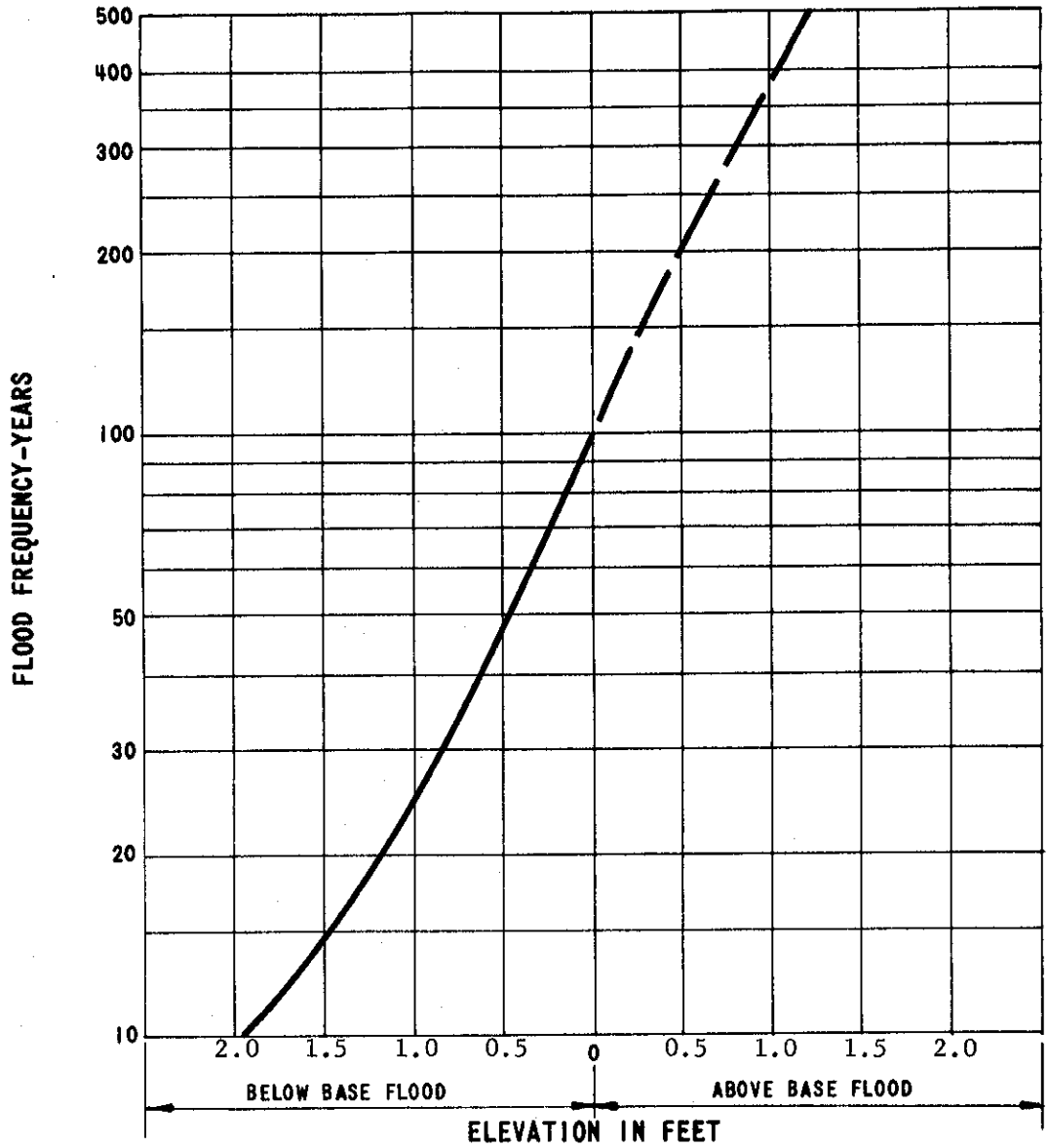
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 26



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 020 B
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.31
ZONE AND REACH LOCATIONS SHOWN ON PLATE 21
WATER SURFACE PROFILE SHOWN ON PLATE 99

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1257.2
250	1256.7
100	1256.0
50	1255.5
25	1255.0
10	1254.1

DREAMY DRAW EAST
REACH 27

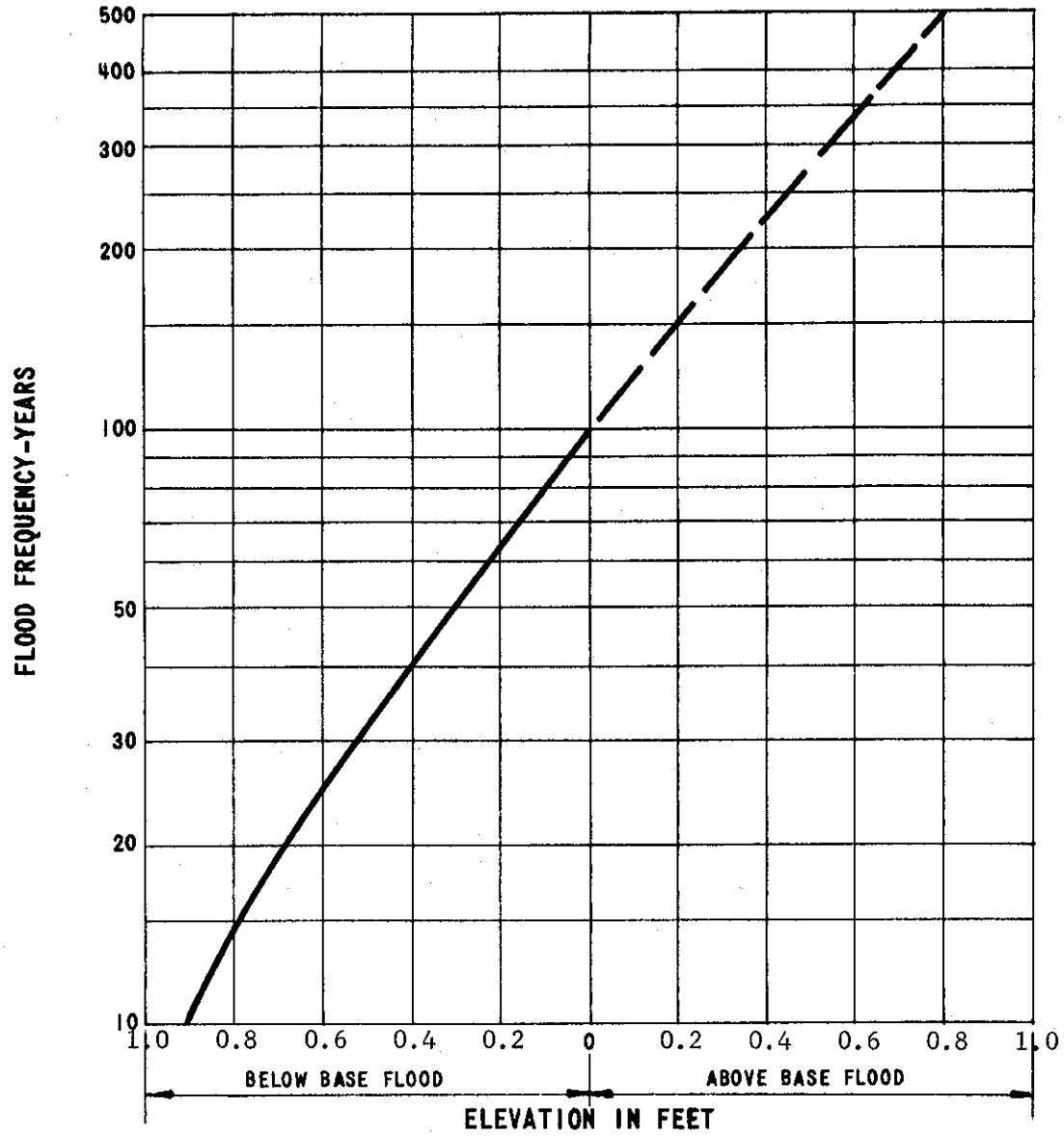
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 27



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 010 E
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.17
ZONE AND REACH LOCATIONS SHOWN ON PLATE 21
WATER SURFACE PROFILE SHOWN ON PLATE 100

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1256.4
250	1256.1
100	1255.6
50	1255.3
25	1255.0
10	1254.7

MYRTLE AVE. WASH
REACH 28

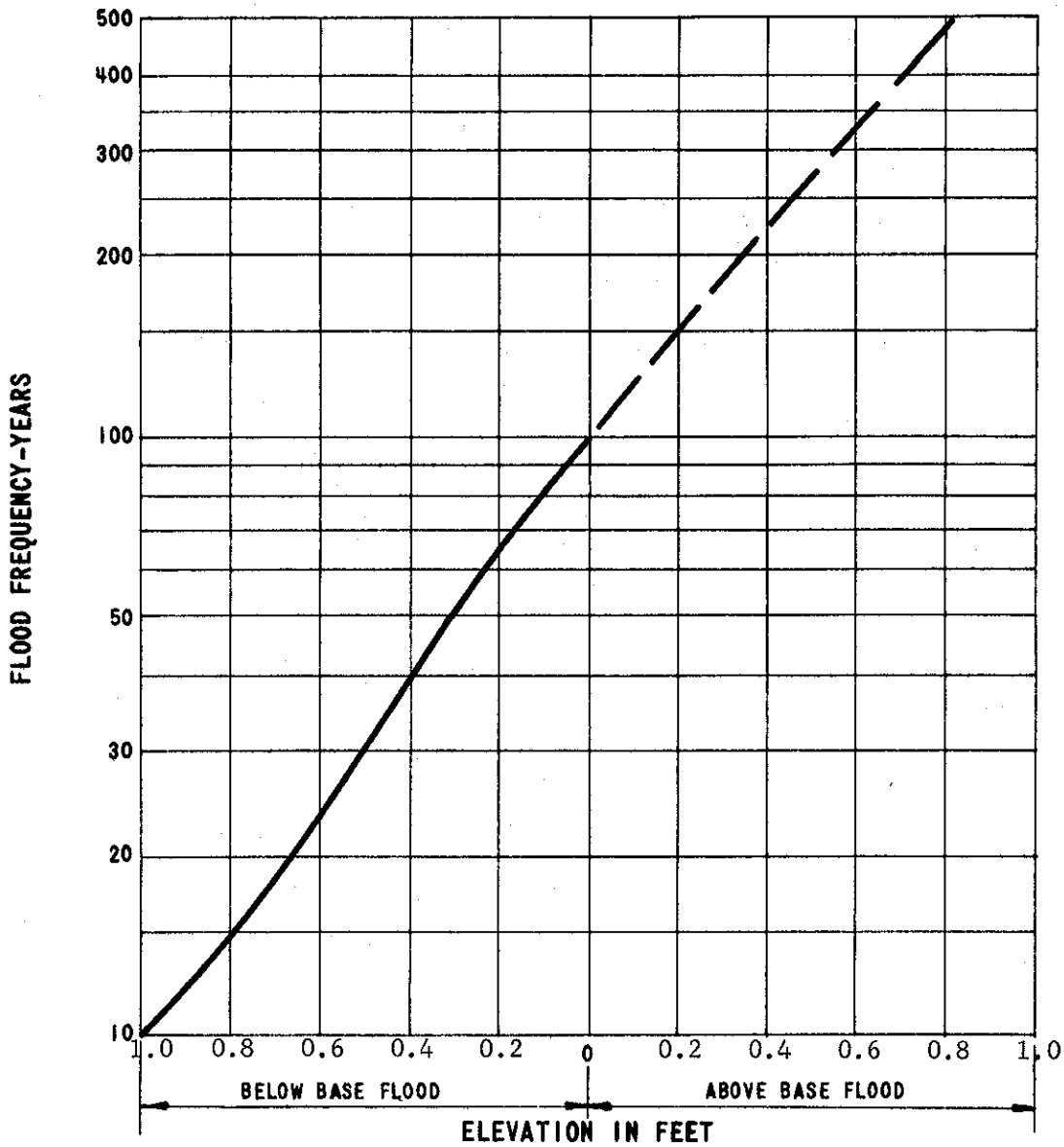
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 28



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 010 E
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.34
ZONE AND REACH LOCATIONS SHOWN ON PLATES 21 AND 25
WATER SURFACE PROFILE SHOWN ON PLATE 101

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1273.3
250	1273.0
100	1272.5
50	1272.2
25	1271.9
10	1271.5

FLYNN LANE WASH
REACH 29

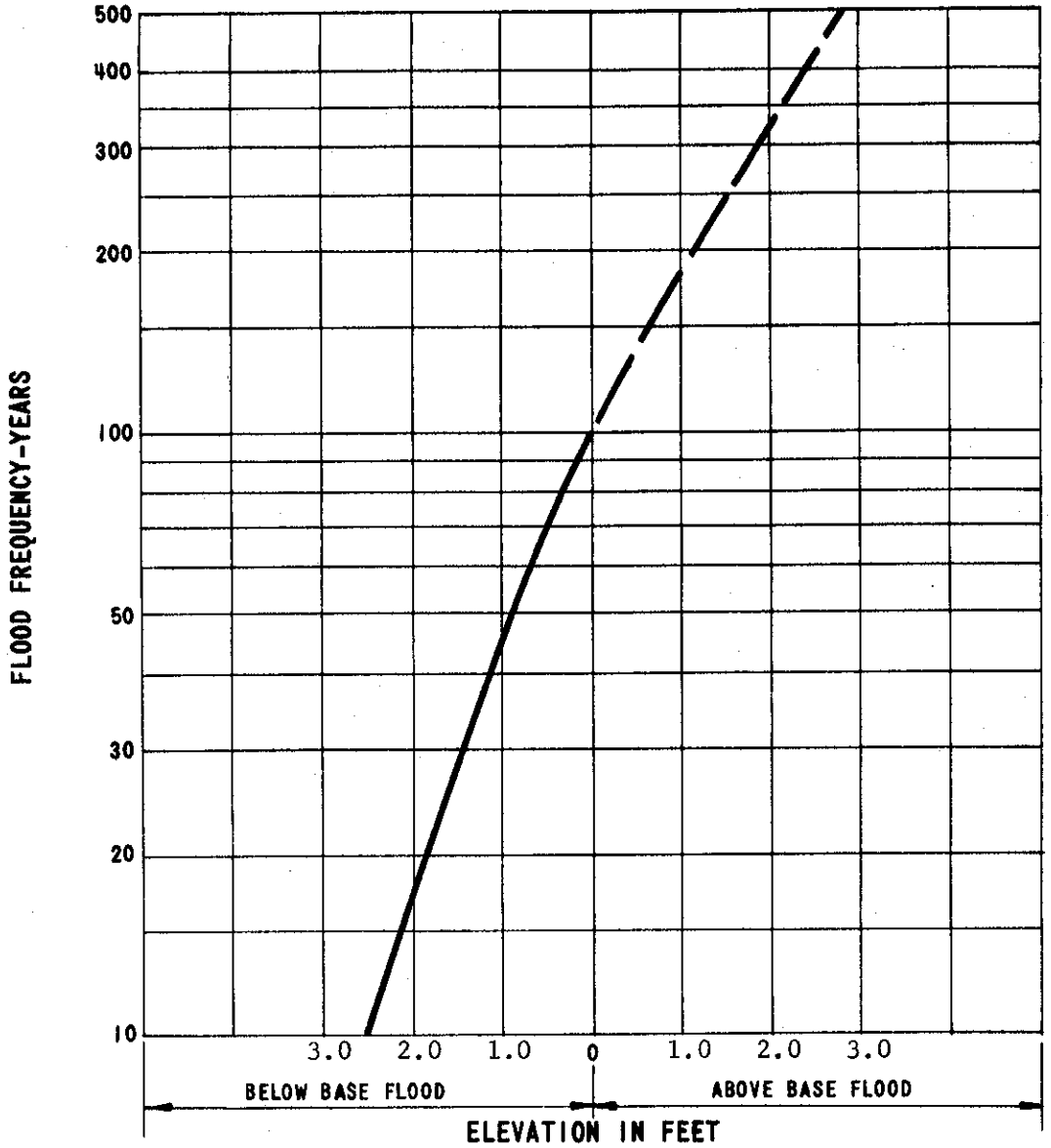
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973

EXHIBIT 29



NOTES: CURVE CORRESPONDS TO FLOOD HAZARD FACTOR 025 D
CURVE DEVELOPED FOR INDEX STATION AT MILE 0.37
ZONE AND REACH LOCATIONS SHOWN ON PLATE 26
WATER SURFACE PROFILE SHOWN ON PLATE 102

PLOTTING DATA	
FREQUENCY IN YEARS	FLOOD ELEVATION
500	1267.0
250	1265.7
100	1264.2
50	1263.3
25	1262.6
10	1261.7

ECHO CANYON

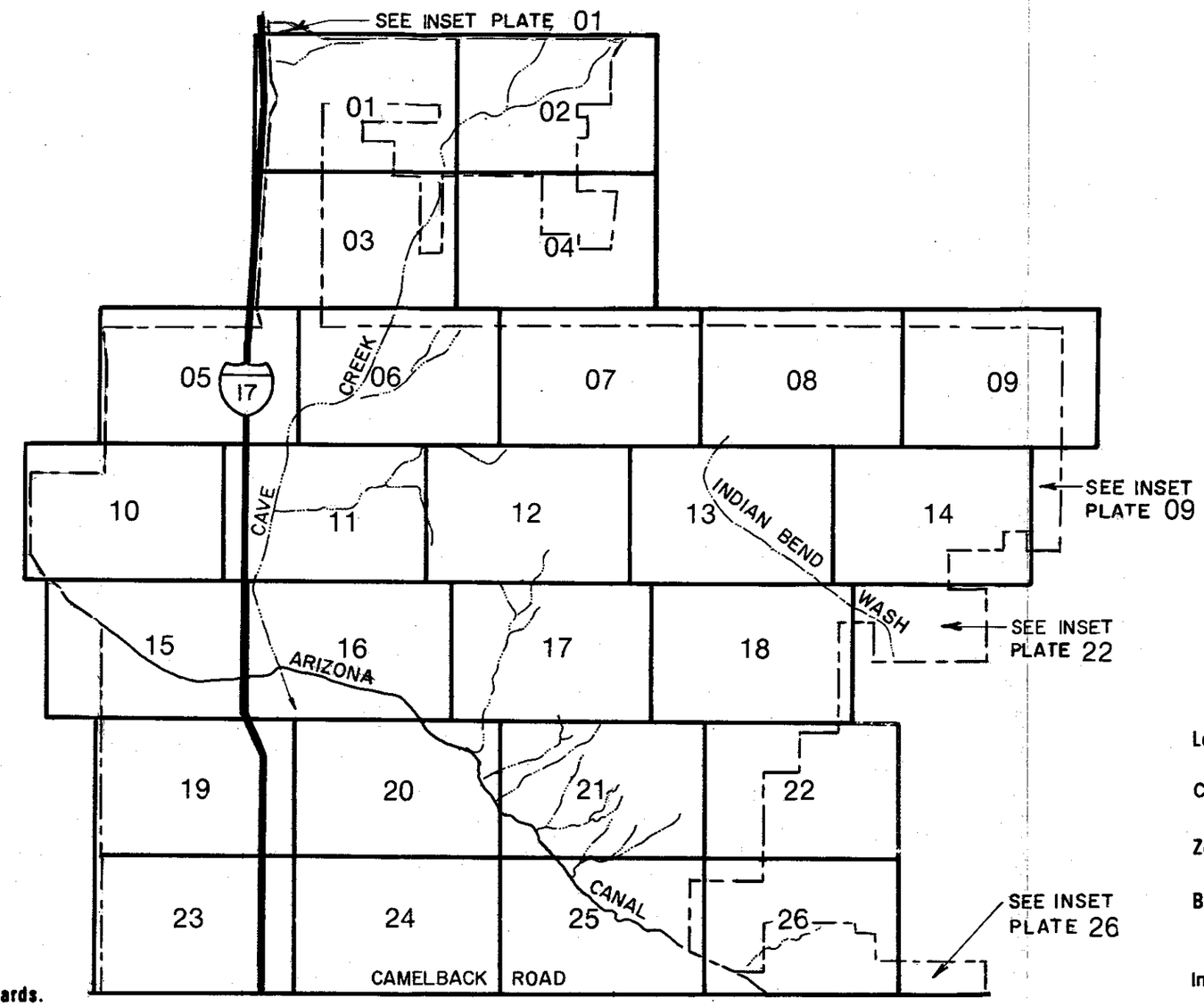
REACH 30

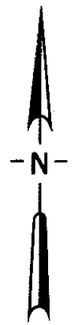
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

ELEVATION FREQUENCY RELATIONSHIP

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973





Date of Eligibility for Flood Insurance:

EXPLANATION OF ZONE DESIGNATIONS

ZONE	CATEGORY
A	Area of special flood hazards.
B	Area of moderate flood hazards.
C	Area of minimal flood hazards.
D	Area of undetermined, but possible, flood hazards.

LEGEND

Levee

Corporate Limits

Zone Boundary

Base Flood (100 yr.) Elevation Line 000
See map for specific elevation

Intermittent Stream

SPECIAL HAZARD AREA

AREA	DATE OF IDENTIFICATION

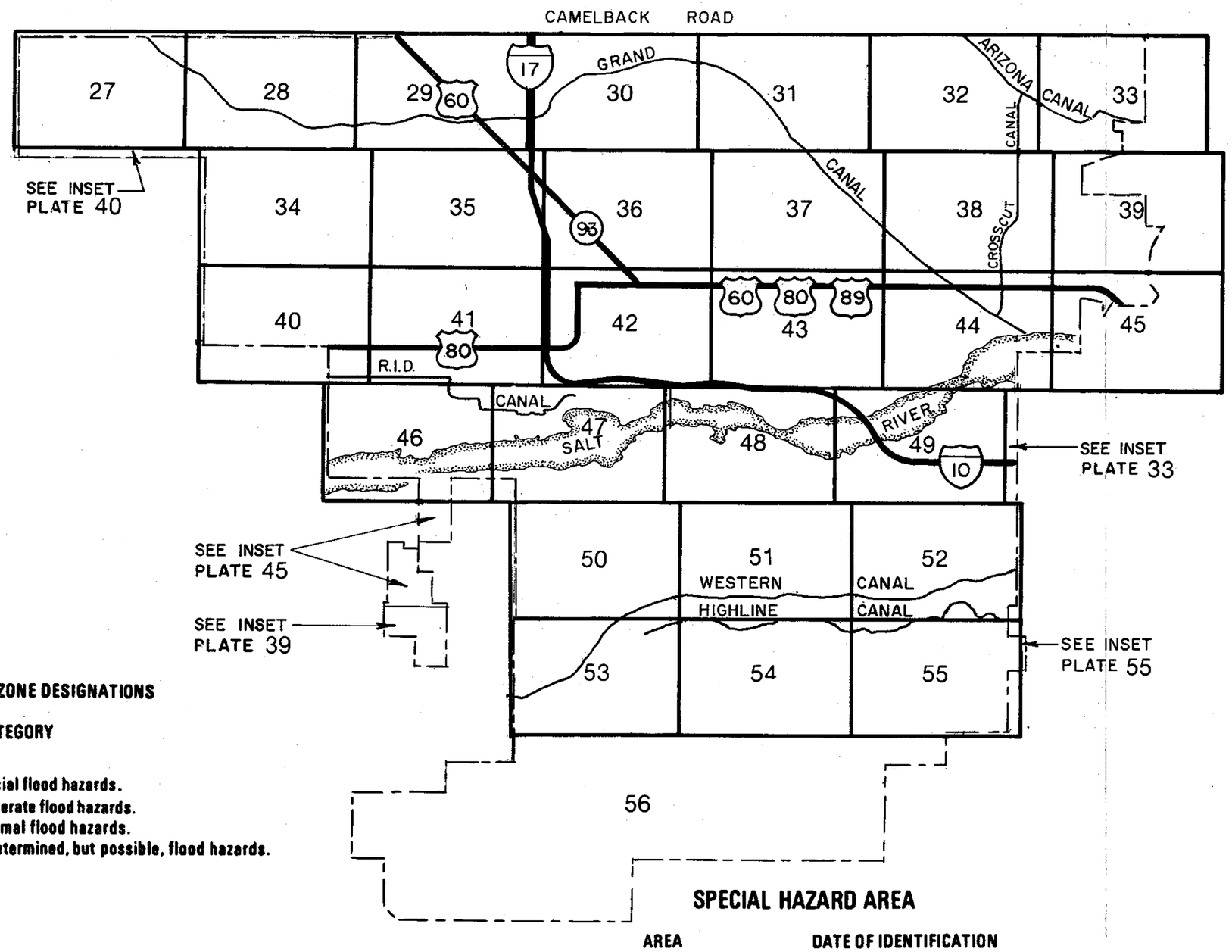
(NUMBERS ON THIS INDEX REFER TO THE LAST TWO DIGITS OF INDIVIDUAL MAP NUMBERS.)

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIF.

FLOOD INSURANCE STUDY
CITY OF PHOENIX, ARIZONA
ZONE MAP INDEX

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



Date of Eligibility for Flood Insurance:

LEGEND

Levee

Corporate Limits

Zone Boundary

Base Flood (100 yr.) Elevation Line 000
See map for specific elevation

Intermittent Stream

EXPLANATION OF ZONE DESIGNATIONS

ZONE	CATEGORY
A	Area of special flood hazards.
B	Area of moderate flood hazards.
C	Area of minimal flood hazards.
D	Area of undetermined, but possible, flood hazards.

SPECIAL HAZARD AREA

AREA	DATE OF IDENTIFICATION

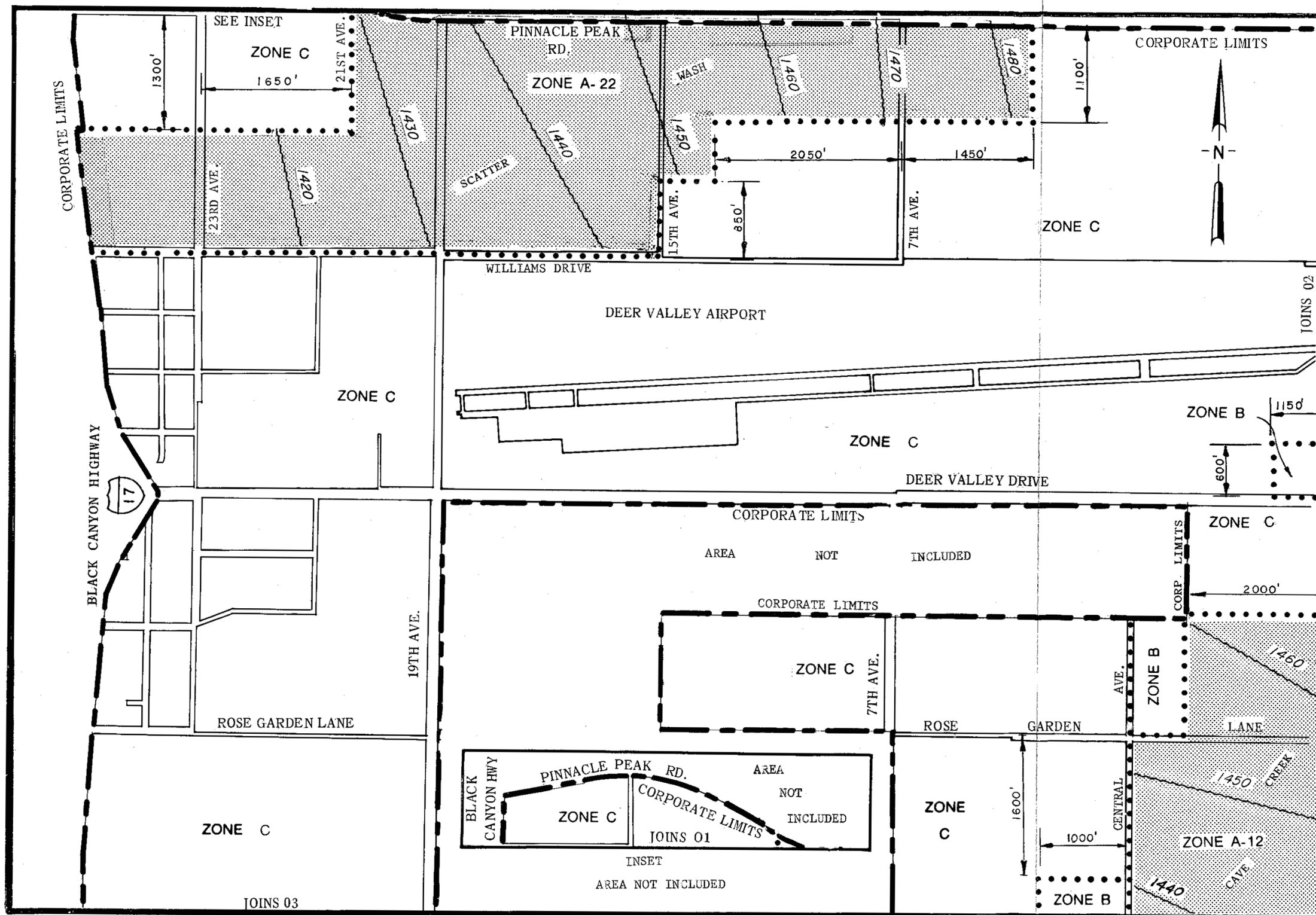
(NUMBERS ON THIS INDEX REFER TO THE LAST TWO DIGITS OF INDIVIDUAL MAP NUMBERS.)

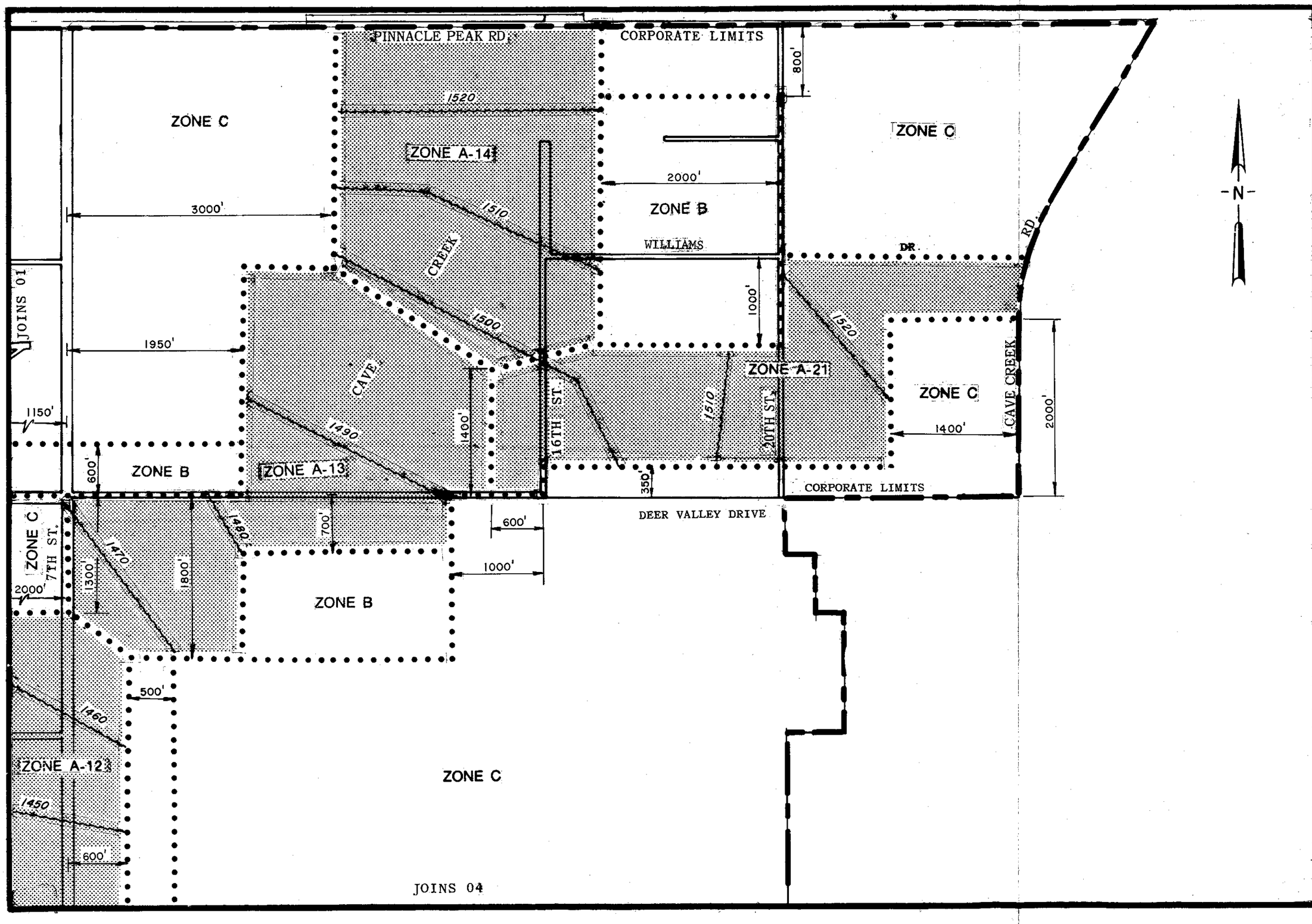
DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIF.

FLOOD INSURANCE STUDY
CITY OF PHOENIX, ARIZONA
ZONE MAP INDEX

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973


SEE INSET
ZONE C
1650'
1300'
21ST AVE.
23RD AVE.
CORPORATE LIMITS
1420
1430
PINNACLE PEAK RD.
ZONE A-22
SCATTER
WASH
1440
1450
1460
1470
1480
2050'
1450'
850'
1100'
15TH AVE.
7TH AVE.
CORPORATE LIMITS
-N-
ZONE C
WILLIAMS DRIVE
DEER VALLEY AIRPORT
JOINS 02
APPROXIMATE SCALE
1000 FEET
0
1000
ZONE C
ZONE B
1150'
ZONE C
600'
DEER VALLEY DRIVE
BLACK CANYON HIGHWAY
17
CORPORATE LIMITS
AREA NOT INCLUDED
ZONE C
CORP. LIMITS
2000'
CORPORATE LIMITS
19TH AVE.
ZONE C
7TH AVE.
ZONE B
AVE.
1460
ROSE GARDEN LANE
ROSE GARDEN LANE
BLACK CANYON HWY
PINNACLE PEAK RD.
ZONE C
CORPORATE LIMITS
AREA NOT INCLUDED
JOINS 01
INSET
AREA NOT INCLUDED
ZONE C
1600'
1000'
CENTRAL
1450
CREEK
ZONE A-12
1440
CAVE
ZONE B
ZONE C
JOINS 03
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
01



Effective Date :

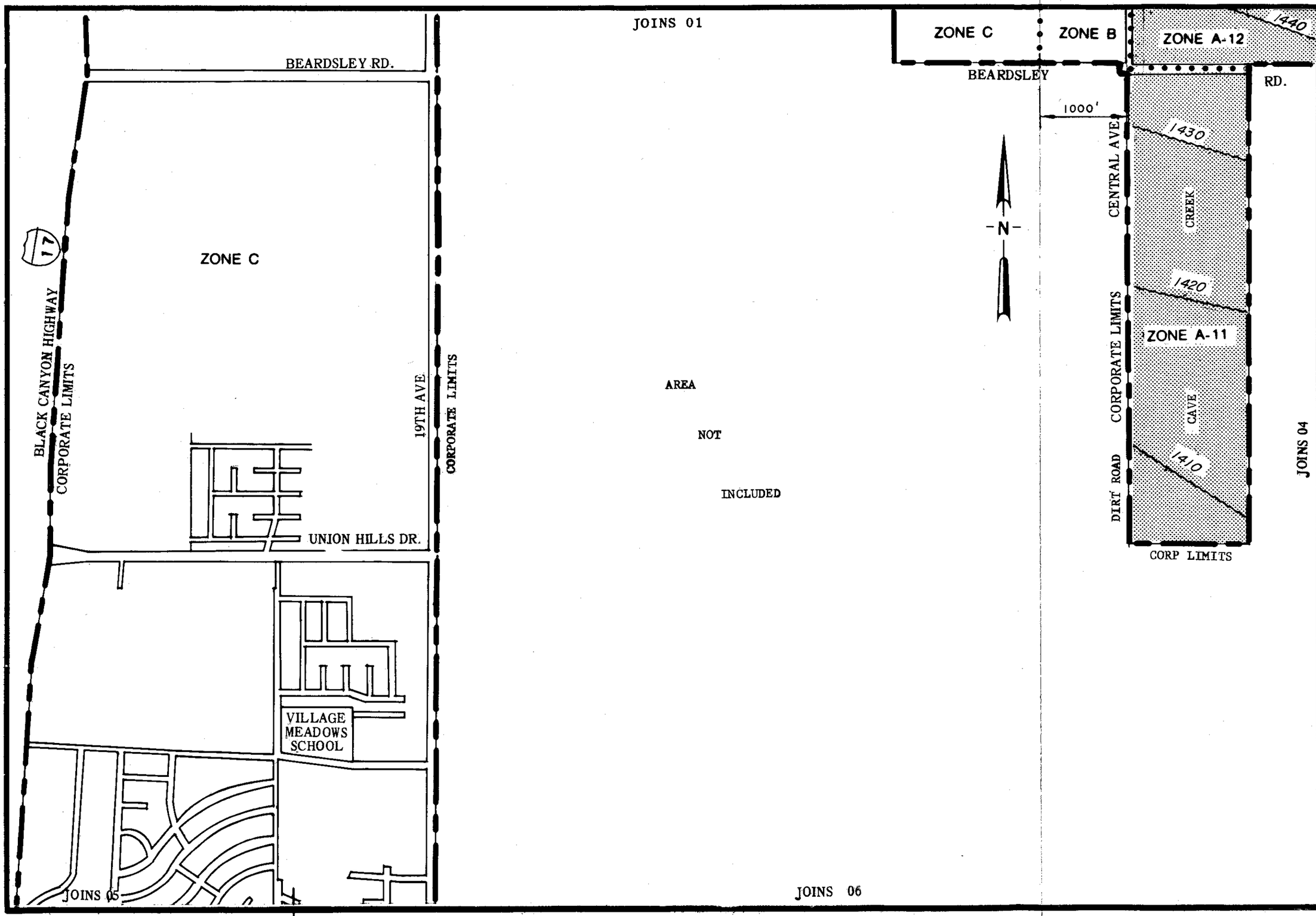
FIA FLOOD INSURANCE RATE MAP

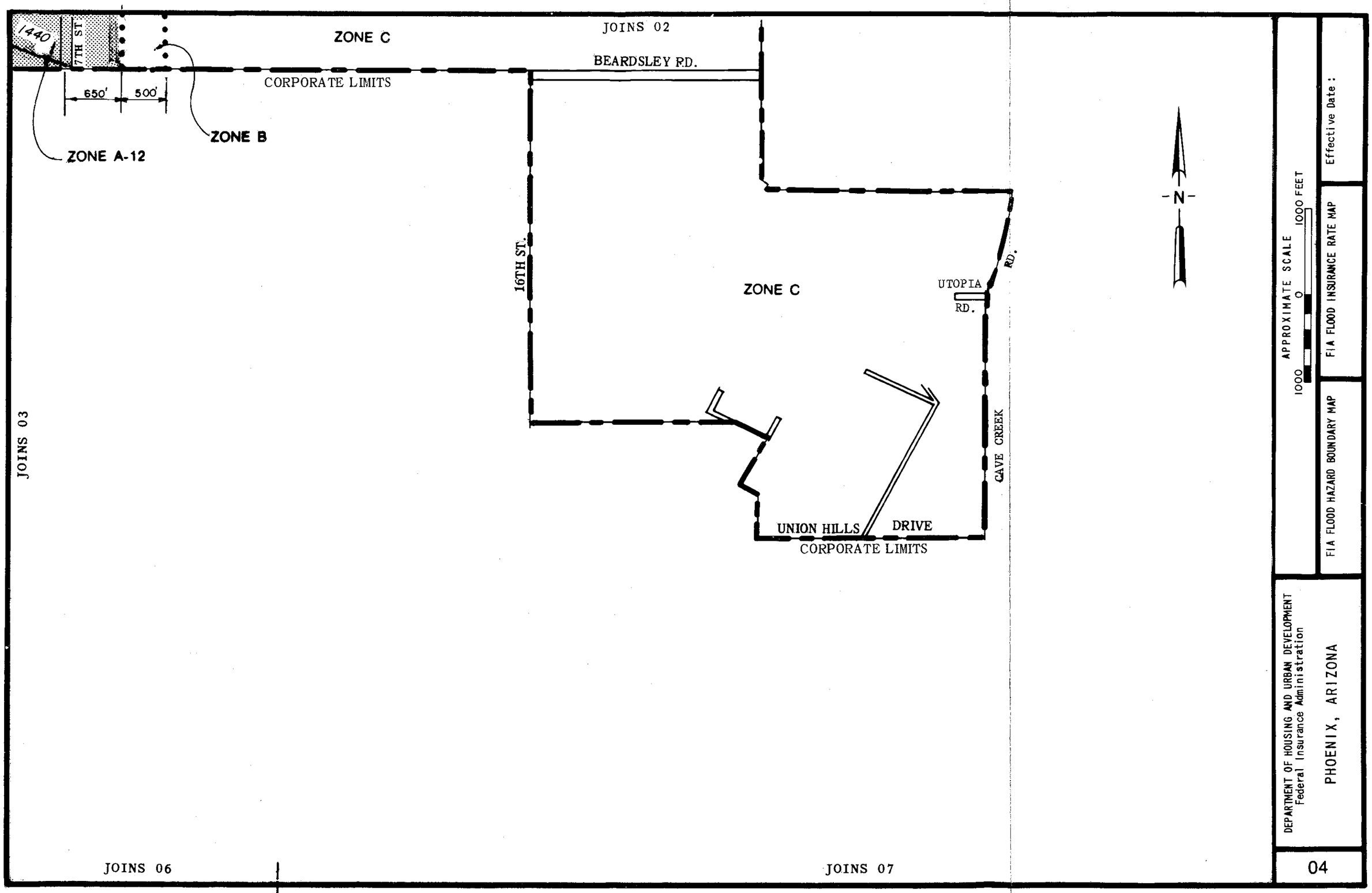
FIA FLOOD HAZARD BOUNDARY MAP

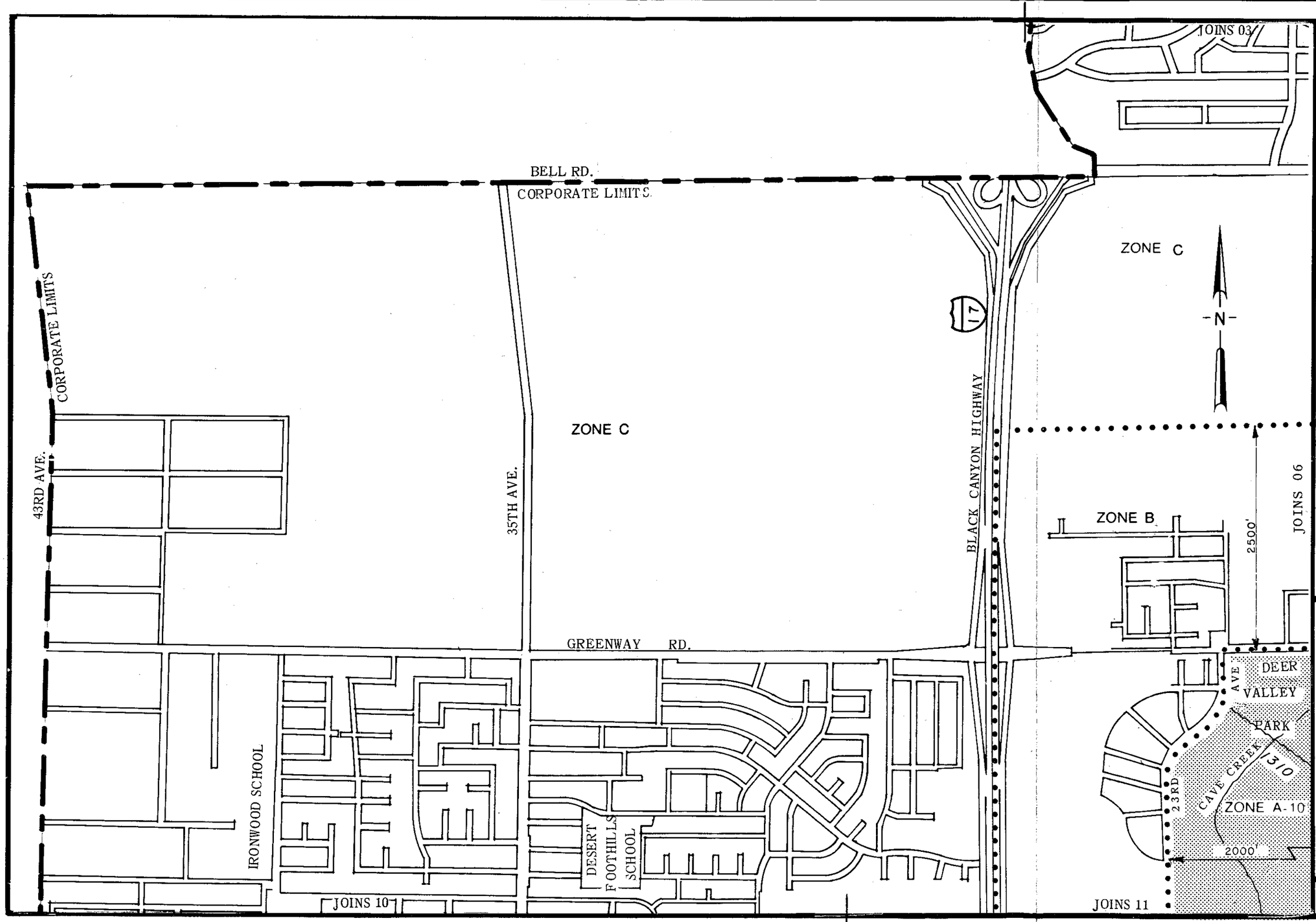
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

02


JOINS 01
BEARDSLEY RD.
ZONE C
17
BLACK CANYON HIGHWAY
CORPORATE LIMITS
19TH AVE
CORPORATE LIMITS
UNION HILLS DR.
VILLAGE MEADOWS SCHOOL
JOINS 05
AREA
NOT
INCLUDED
JOINS 06
ZONE C
ZONE B
ZONE A-12
1440
BEARDSLEY
RD.
1000'
1430
CENTRAL AVE
CREEK
-N-
1420
ZONE A-11
CORPORATE LIMITS
CAVE
1410
DIRT ROAD
CORP LIMITS
JOINS 04
APPROXIMATE SCALE
1000 FEET
0
1000
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
03


1440
7TH ST
ZONE C
JOINS 02
BEARDSLEY RD.
CORPORATE LIMITS
650'
500'
ZONE B
ZONE A-12
16TH ST.
ZONE C
UTOPIA
RD.
RD.
CAVE CREEK
UNION HILLS
DRIVE
CORPORATE LIMITS
JOINS 03
JOINS 06
JOINS 07
N
APPROXIMATE SCALE
1000
0
1000 FEET
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
04



Effective Date :

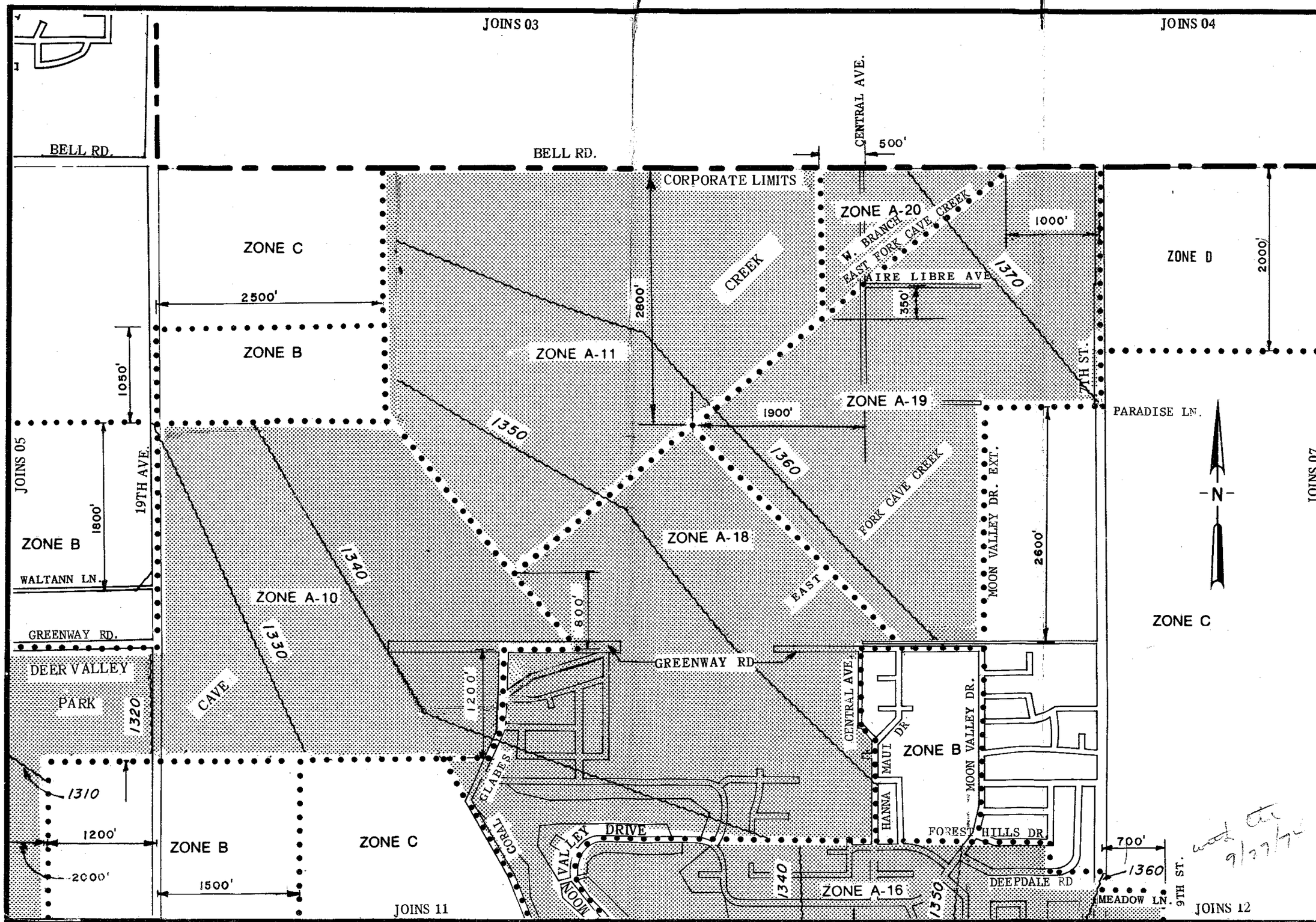
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

05



Effective Date :

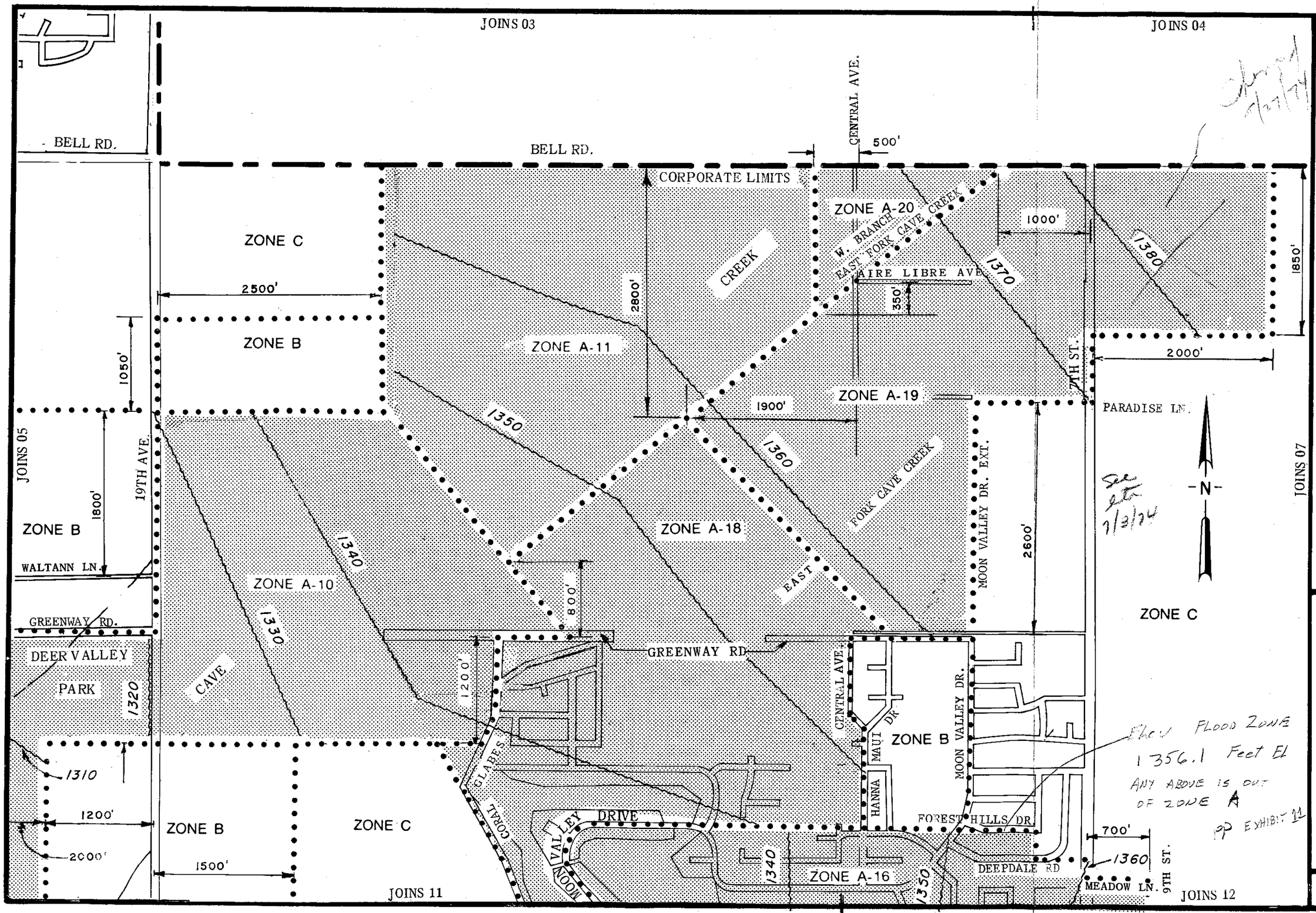
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

06



Effective Date :

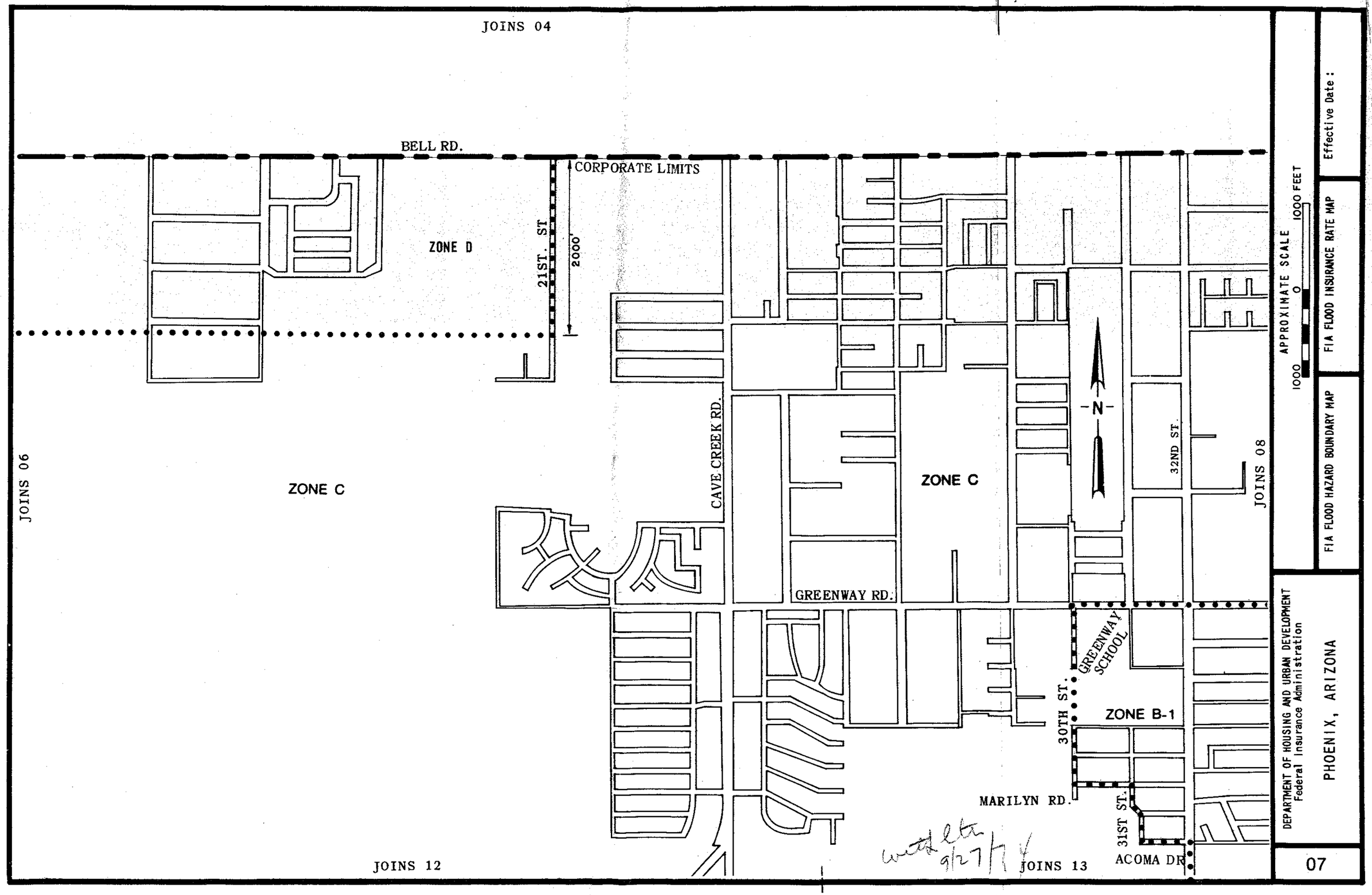
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

06


JOINS 04
BELL RD.
CORPORATE LIMITS
ZONE D
21ST. ST
2000'
ZONE C
JOINS 06
CAVE CREEK RD.
ZONE C
GREENWAY RD.
N
32ND ST.
JOINS 08
GREENWAY SCHOOL
30TH ST.
ZONE B-1
MARILYN RD.
31ST ST.
ACOMA DR
JOINS 12
JOINS 13
APPROXIMATE SCALE
1000 0 1000 FEET
Effective Date:
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
07

JOINS 04

See letter 7/3/74

BELL RD.

CORPORATE LIMITS

changed 9/27/74

JOINS 06

ZONE C

CAVE CREEK RD.

ZONE C

32ND ST

JOINS 08

N

GREENWAY RD.

GREENWAY SCHOOL

30TH ST.

ZONE B-1

MARILYN RD.

31ST ST.

ACOMA DR.

JOINS 12

JOINS 13

APPROXIMATE SCALE

0 1000 FEET

Effective Date :

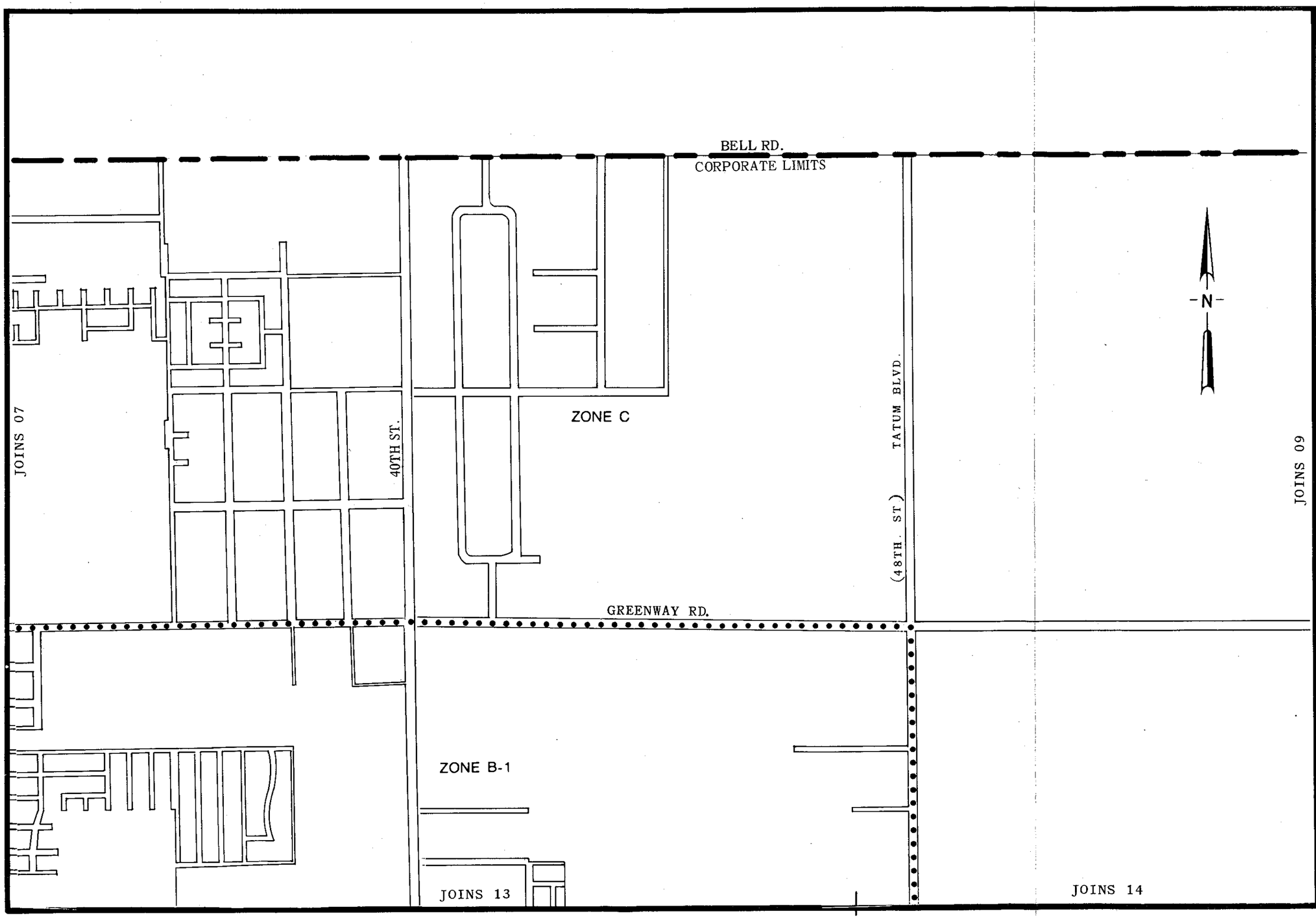
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

07



Effective Date :

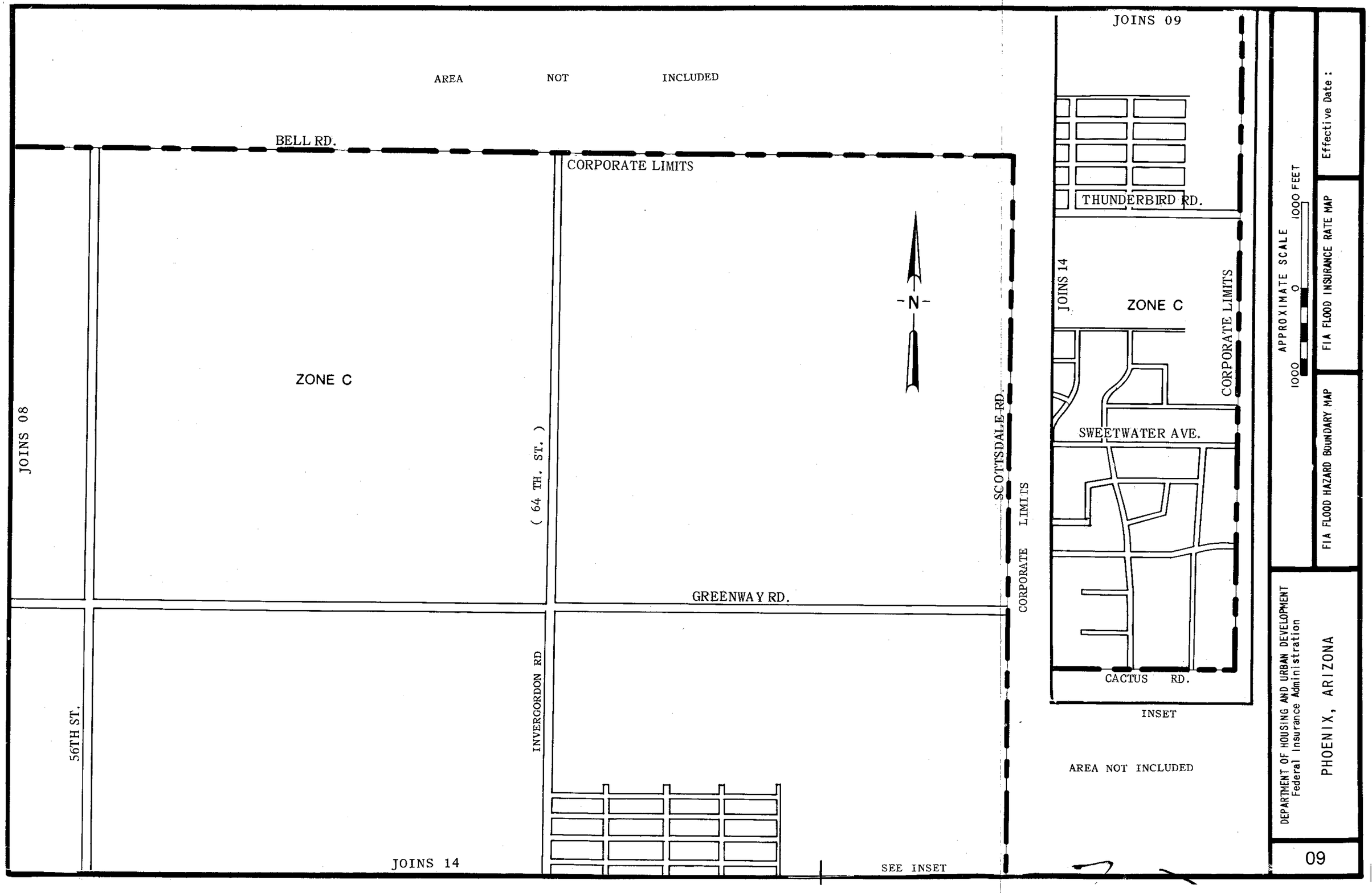
FIA FLOOD INSURANCE RATE MAP

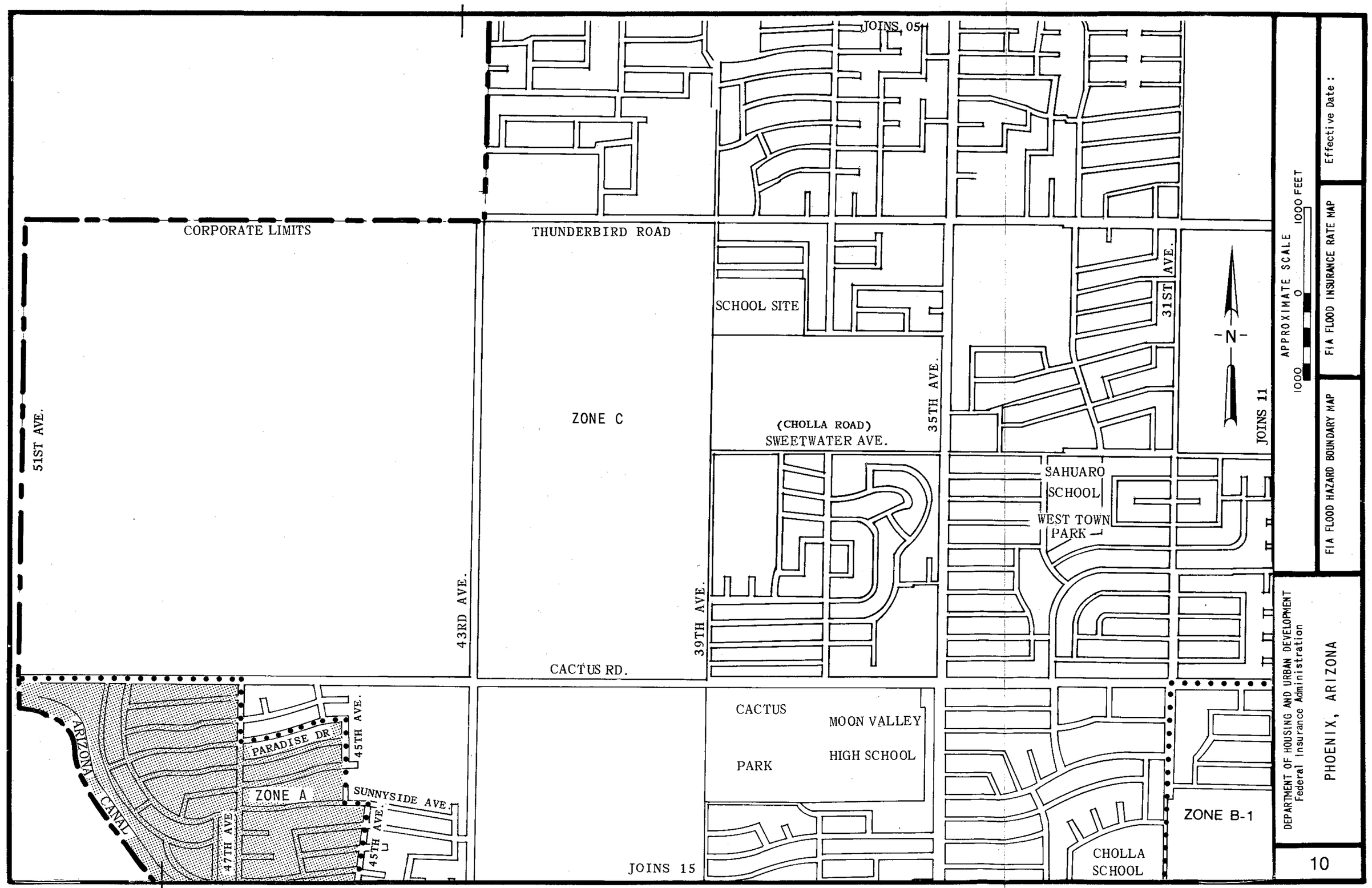
FIA FLOOD HAZARD BOUNDARY MAP

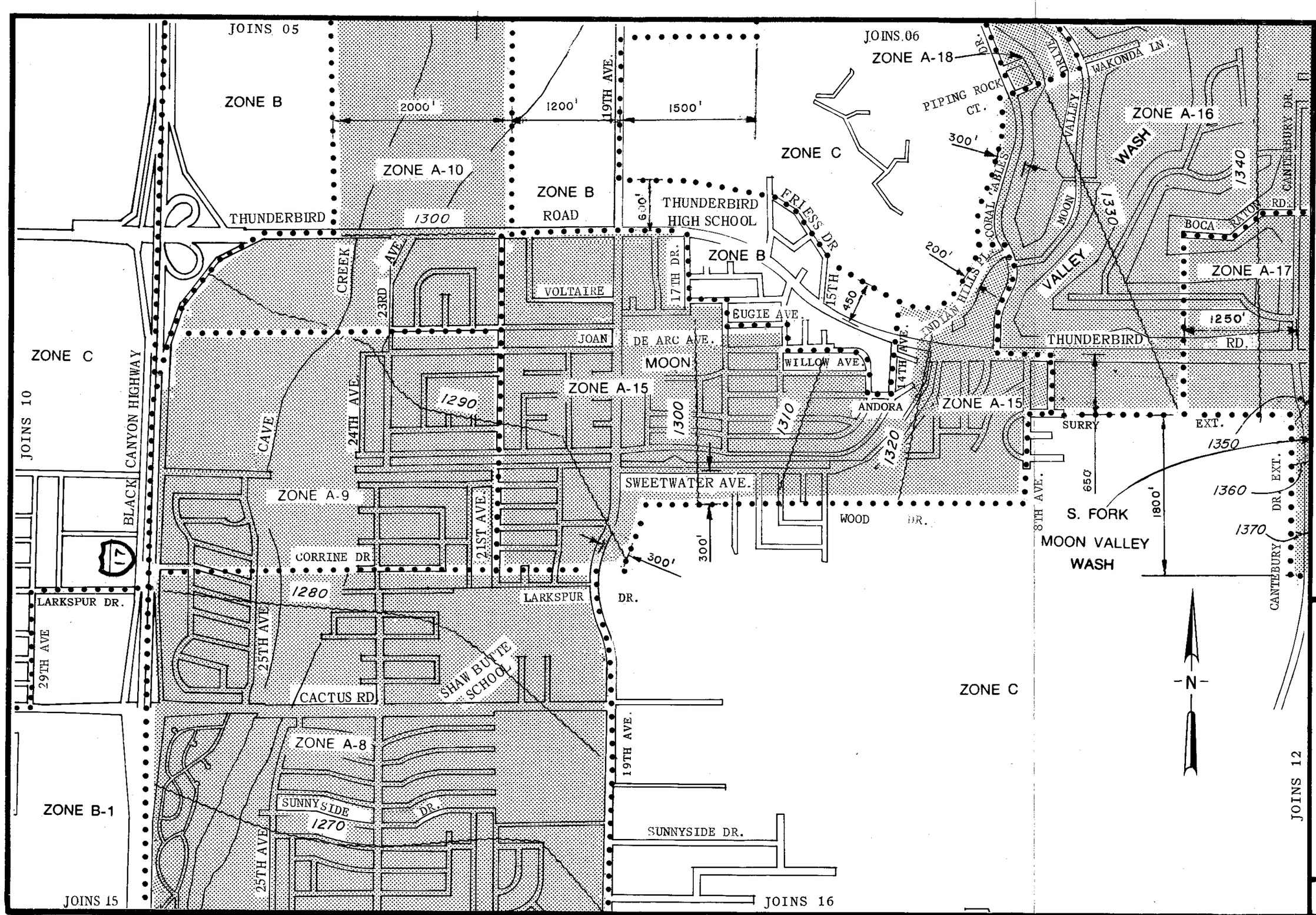
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

08


AREA NOT INCLUDED
BELL RD.
CORPORATE LIMITS
ZONE C
JOINS 08
(64 TH. ST.)
GREENWAY RD.
56TH ST.
INVERGORDON RD
JOINS 14
SEE INSET
SCOTTSDALE RD.
CORPORATE LIMITS
N
JOINS 09
THUNDERBIRD RD.
JOINS 14
ZONE C
CORPORATE LIMITS
SWEETWATER AVE.
CACTUS RD.
INSET
AREA NOT INCLUDED
APPROXIMATE SCALE
1000 FEET
0
1000
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
09


JOINS 05
CORPORATE LIMITS
THUNDERBIRD ROAD
SCHOOL SITE
31ST AVE.
35TH AVE.
ZONE C
(CHOLLA ROAD)
SWEETWATER AVE.
JOINS 11
51ST AVE.
SAHUARO
SCHOOL
WEST TOWN
PARK
43RD AVE.
39TH AVE.
CACTUS RD.
CACTUS
PARK
MOON VALLEY
HIGH SCHOOL
ARIZONA CANAL
PARADISE DR.
45TH AVE.
ZONE A
SUNNYSIDE AVE.
47TH AVE.
45TH AVE.
JOINS 15
CHOLLA
SCHOOL
ZONE B-1
N
APPROXIMATE SCALE
1000 FEET
0
1000
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
10



Effective Date :

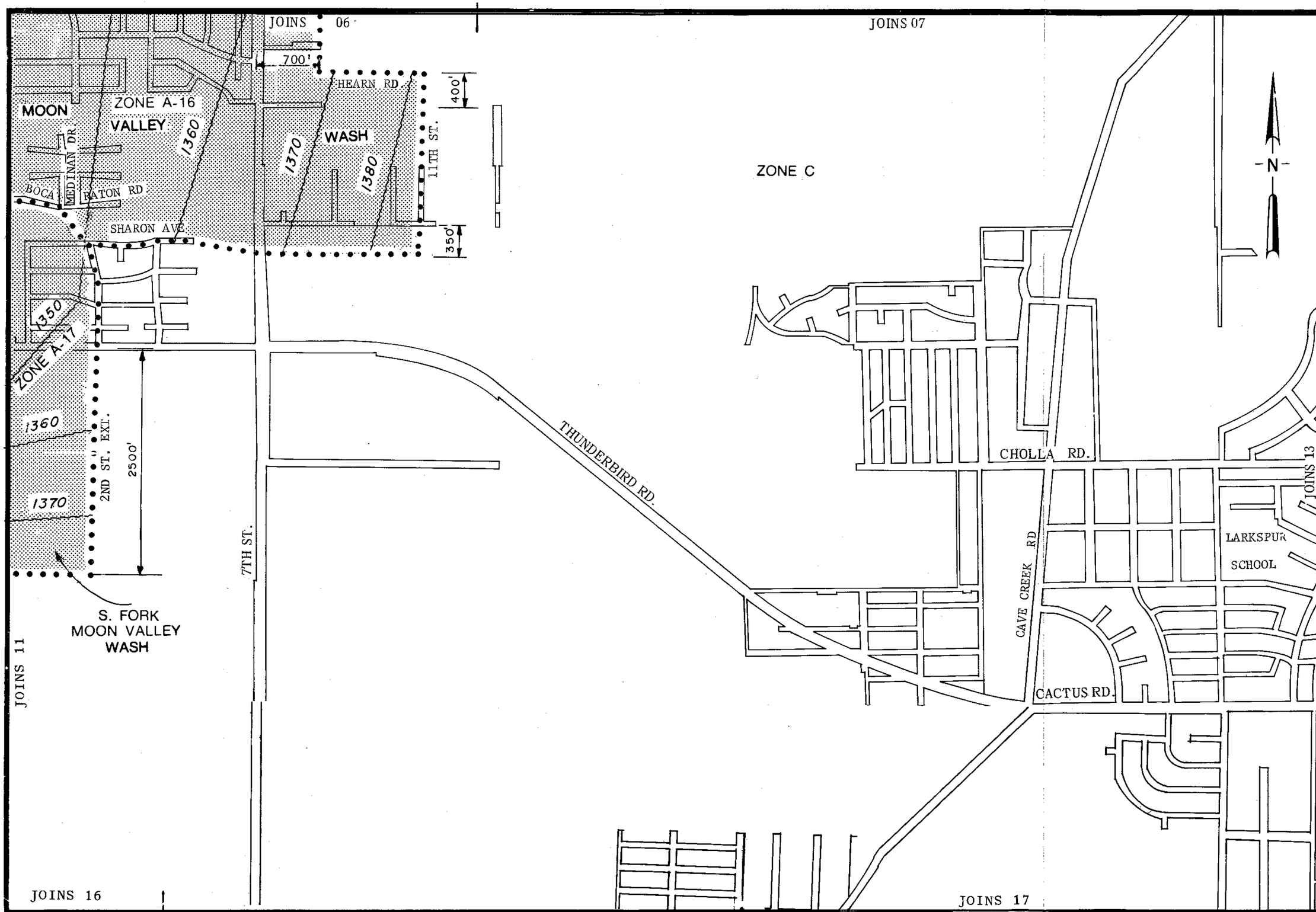
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

11



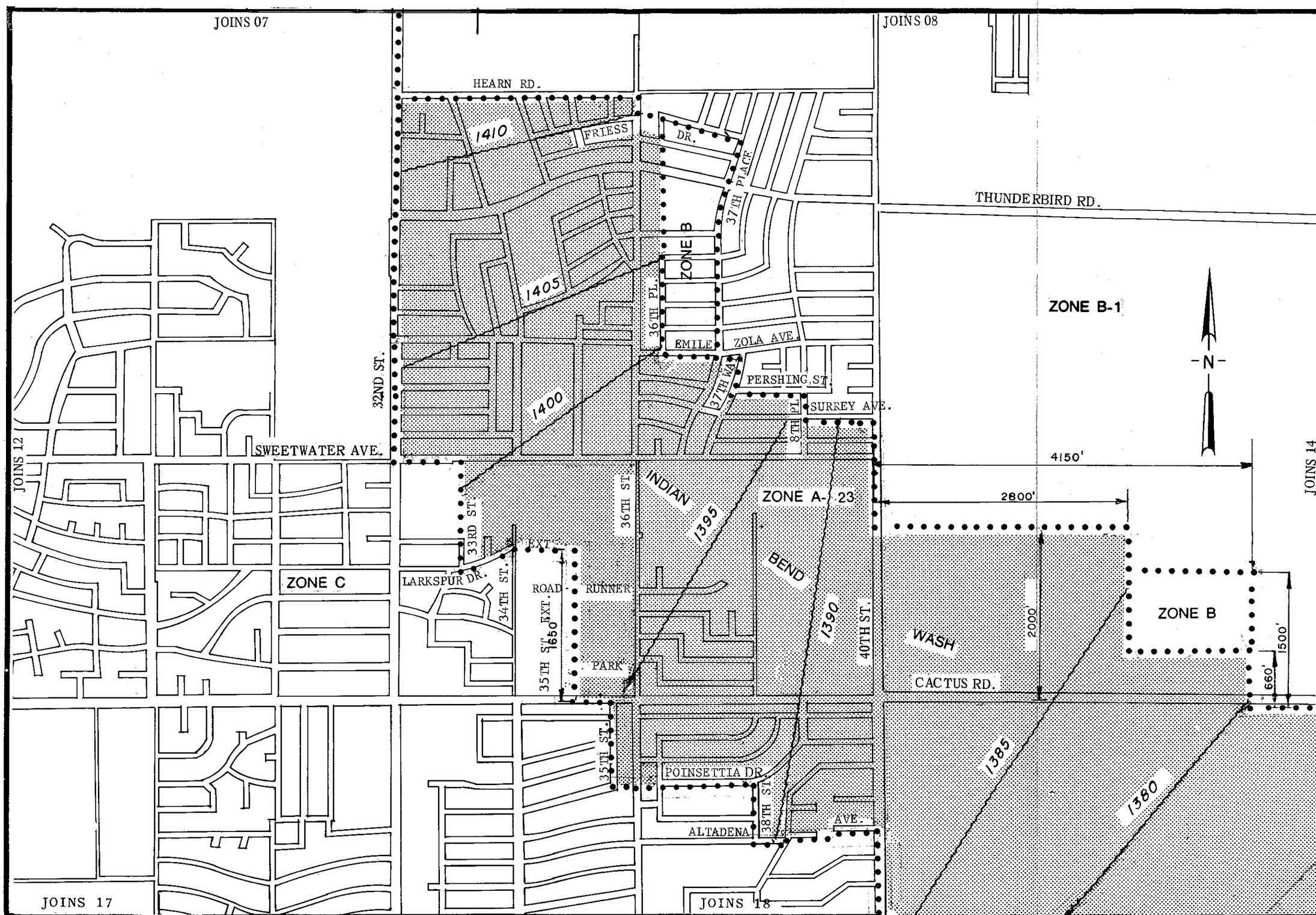
Effective Date :

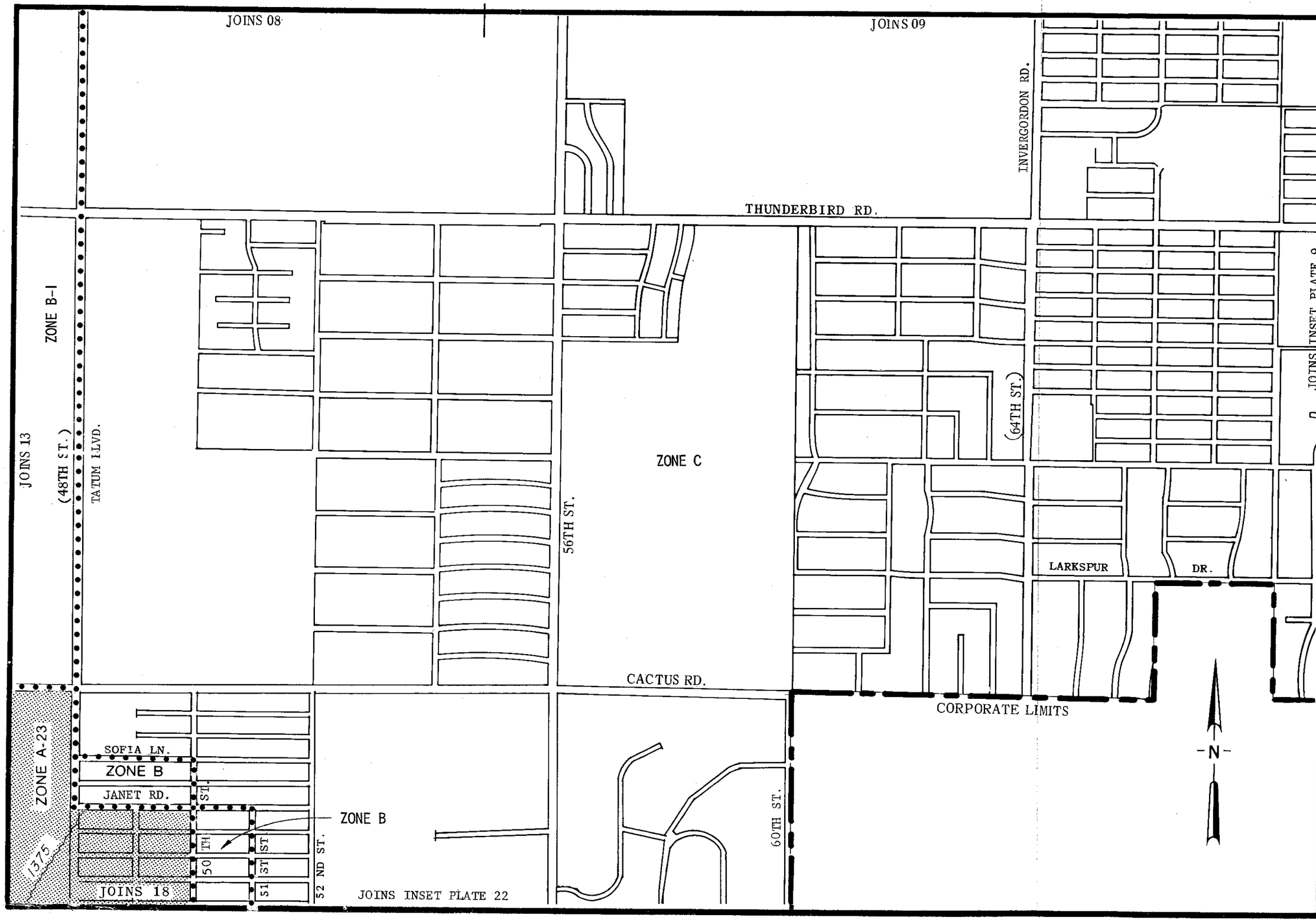
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA


JOINS 07
JOINS 08
JOINS 12
JOINS 14
JOINS 17
JOINS 18
HEARN RD.
FRIESS
DR.
37TH PLACE
THUNDERBIRD RD.
ZONE B
36TH PL.
EMILE
ZOLA AVE.
PERSHING ST.
37TH WAY
SURREY AVE.
8TH PL.
32ND ST.
SWEETWATER AVE.
INDIAN
36TH ST.
33RD ST.
EXT.
LARKSPUR DR.
34TH ST.
ROAD
RUNNER
35TH ST.
EXT.
PARK
35TH ST.
POINSETTIA DR.
38TH ST.
ALTADENA
AVE.
BEND
40TH ST.
WASH
CACTUS RD.
ZONE C
ZONE A-23
ZONE B-1
ZONE B
1410
1405
1400
1395
1390
1385
1380
1650
4150'
2800'
2000'
1500'
660'
N
APPROXIMATE SCALE
0
1000
1000 FEET
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
13



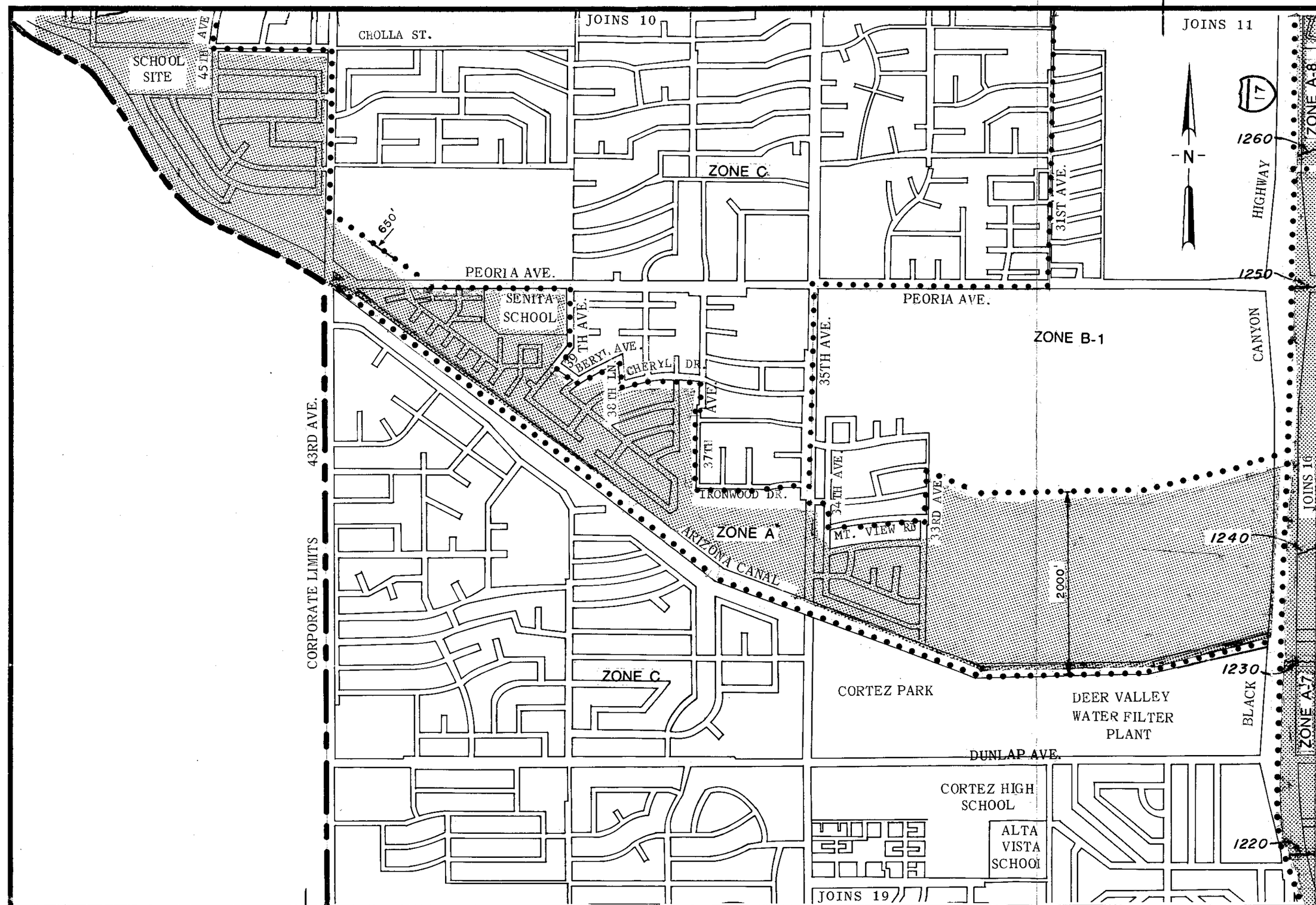
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

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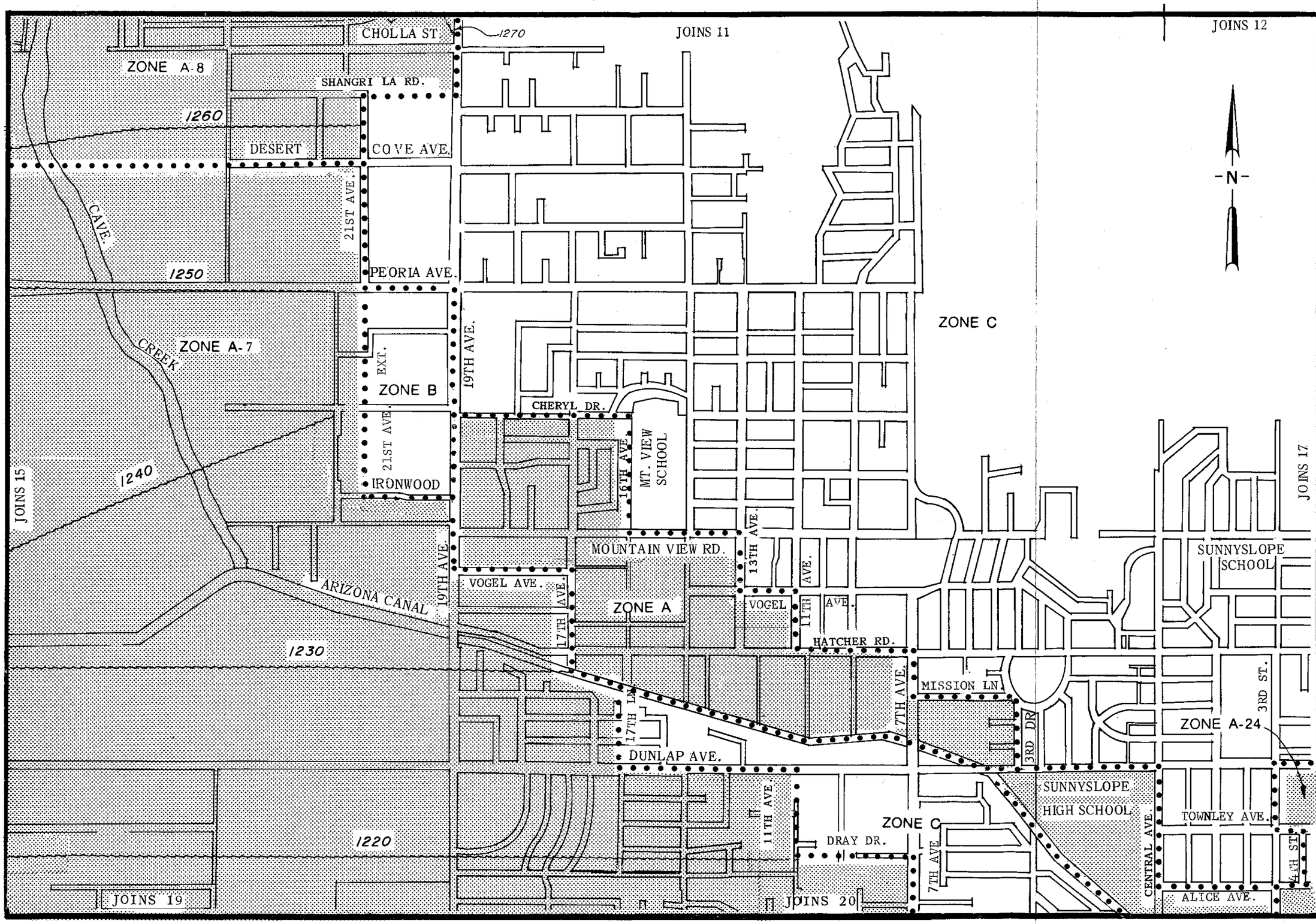

Effective Date:

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

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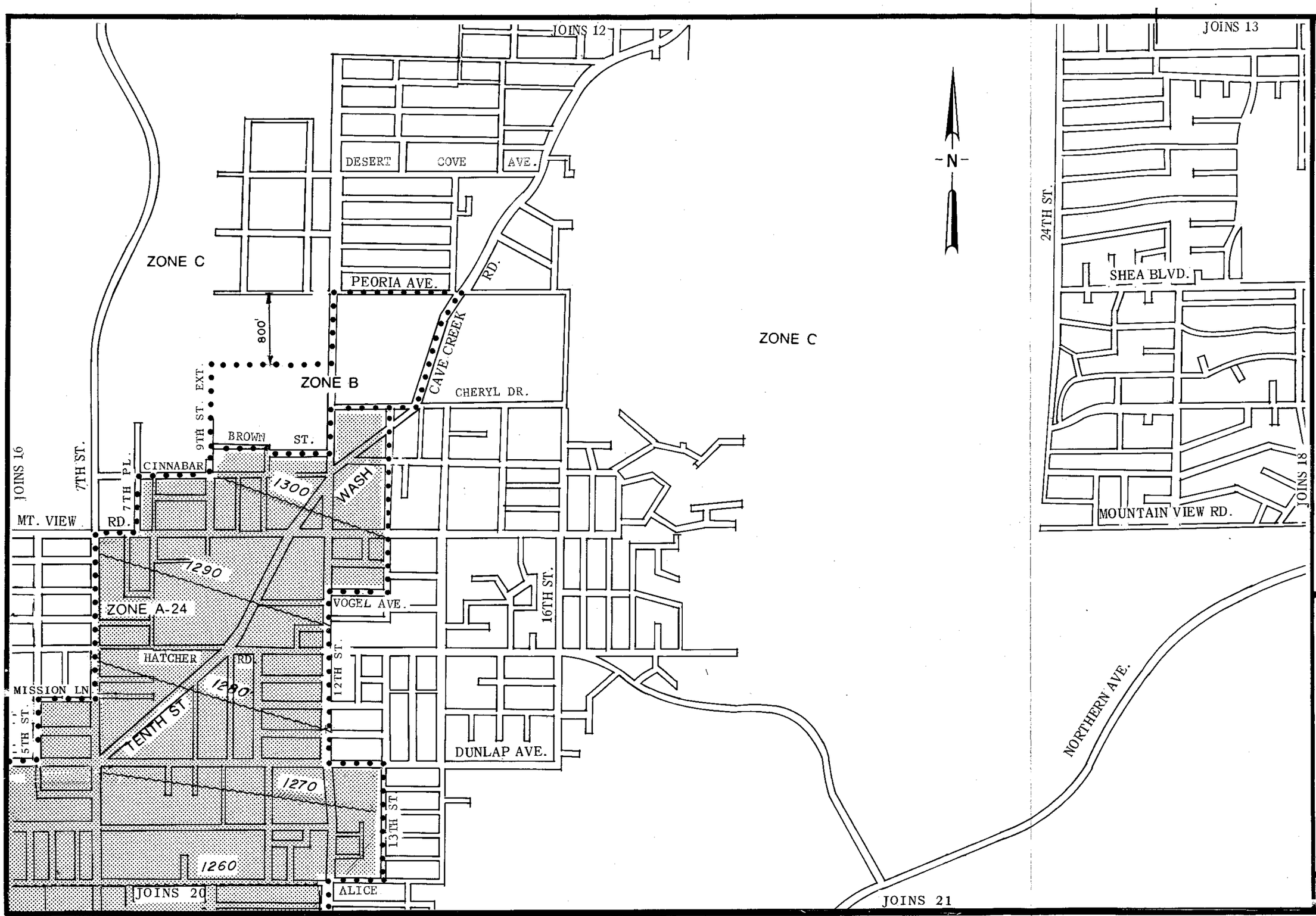


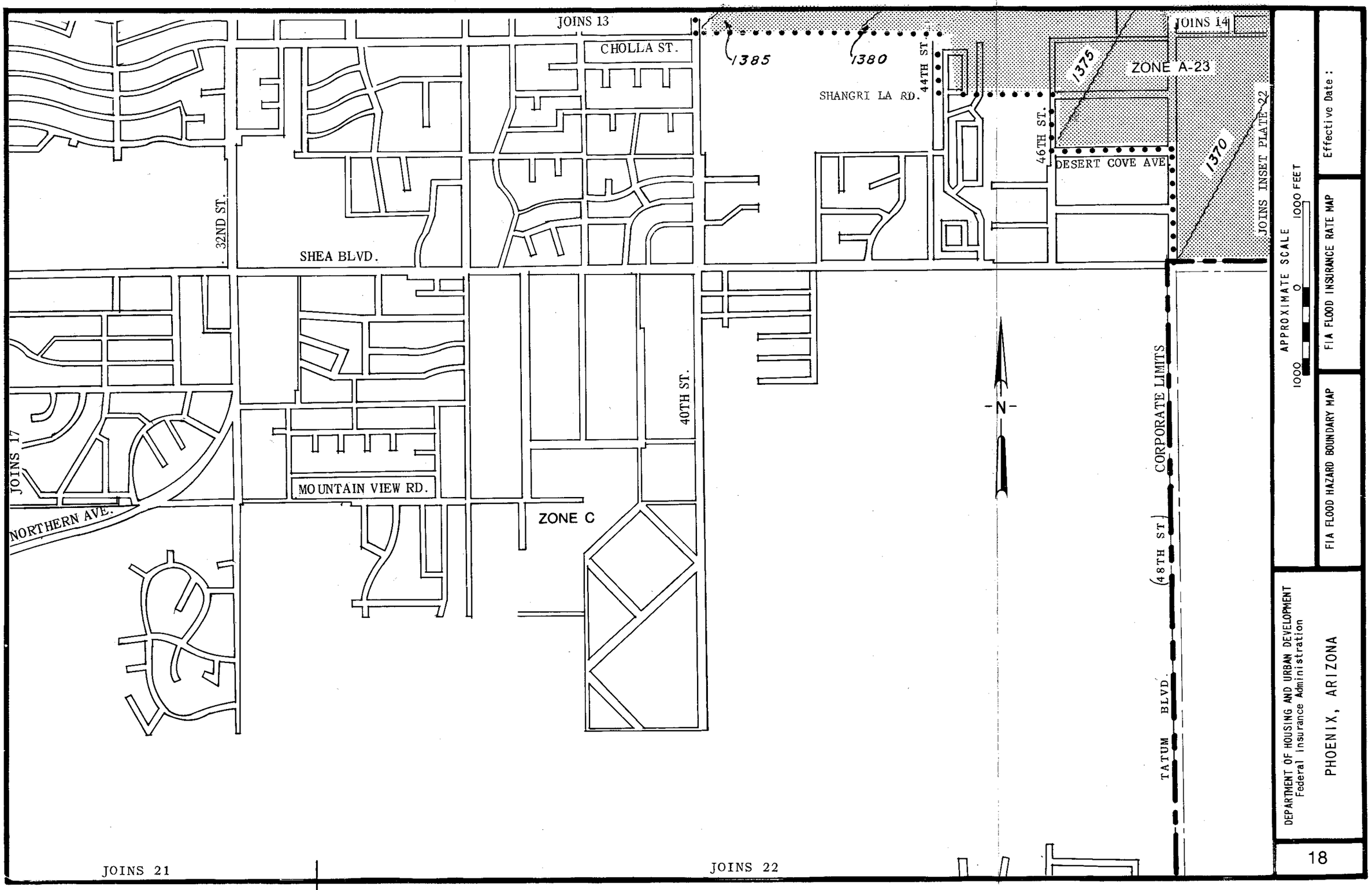
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA


JOINS 13
CHOLLA ST.
1385
1380
44TH ST.
SHANGRI LA RD.
JOINS 14
1375
ZONE A-23
46TH ST.
DESERT COVE AVE.
1370
JOINS INSET PLATE 22
32ND ST.
SHEA BLVD.
40TH ST.
N
CORPORATE LIMITS
(48TH ST)
TATUM BLVD.
JOINS 17
MOUNTAIN VIEW RD.
NORTHERN AVE.
ZONE C
JOINS 21
JOINS 22
APPROXIMATE SCALE
0
1000
1000 FEET
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
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Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
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Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

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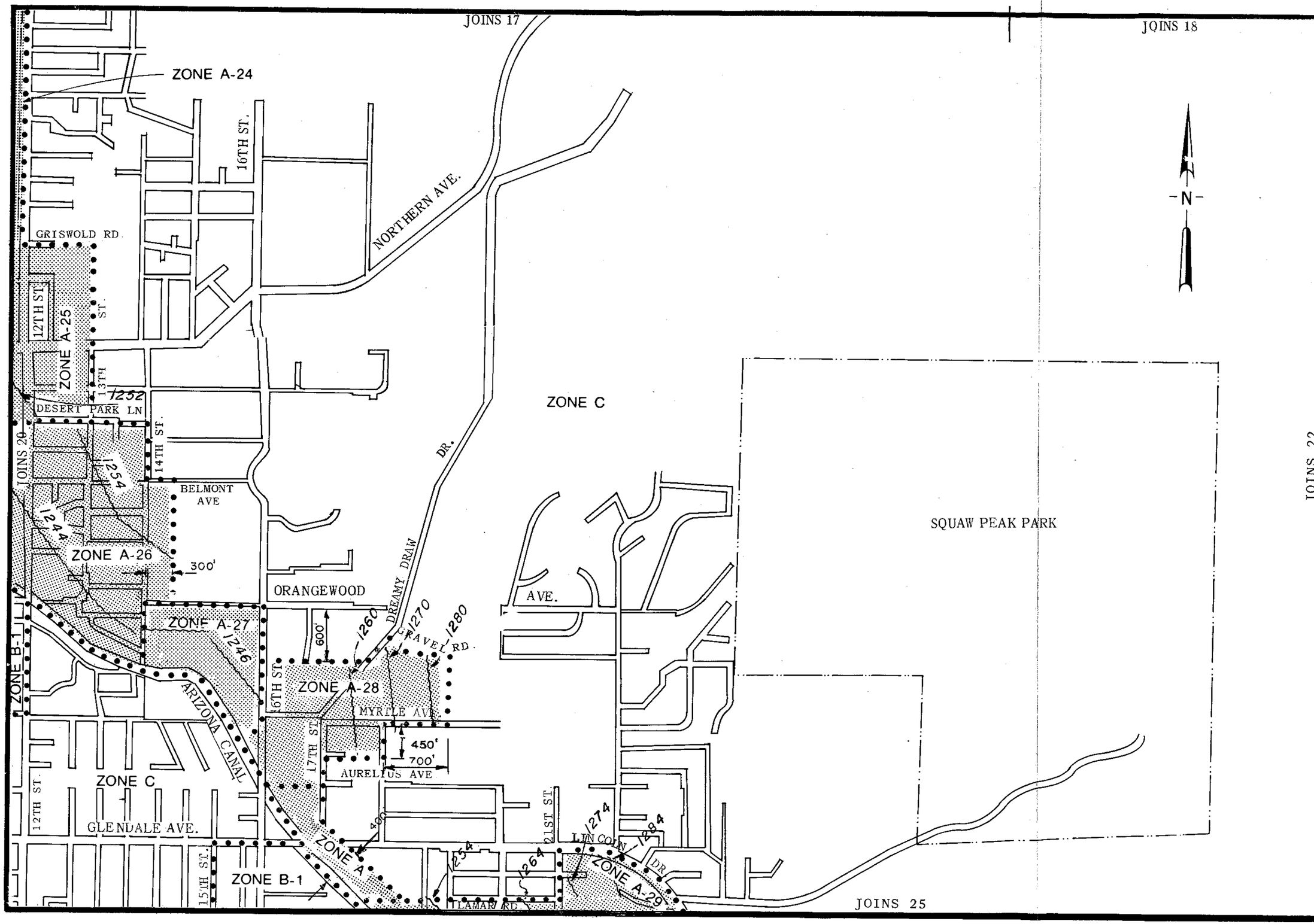
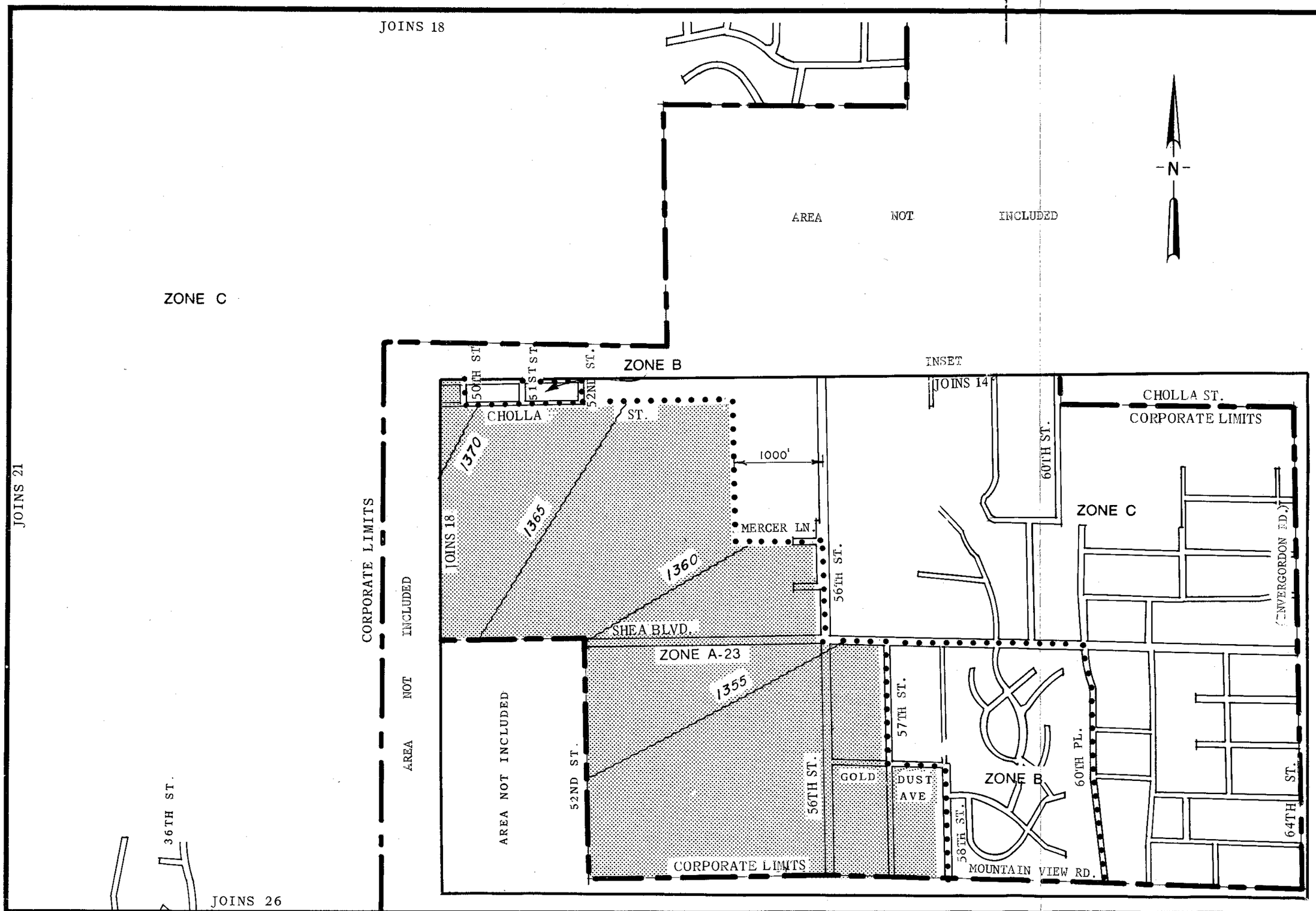

JOINS 17
JOINS 18
JOINS 20
JOINS 22
JOINS 25
ZONE A-24
ZONE A-25
ZONE A-26
ZONE A-27
ZONE A-28
ZONE A-29
ZONE A
ZONE B-1
ZONE C
16TH ST.
NORTHERN AVE.
GRISWOLD RD.
12TH ST.
13TH ST.
14TH ST.
15TH ST.
16TH ST.
17TH ST.
21ST ST.
DESERT PARK LN
BELMONT AVE
ORANGEWOOD
DREAMY DRAW DR.
RAVEL RD.
MYRTLE AVE.
AURELIUS AVE
GLENDALE AVE.
ARIZONA CANAL
LAMAR RD.
LINCOLN DR.
SQUAW PEAK PARK
AVE.
300'
600'
450'
700'
400
1252
1254
1244
1246
1260
1270
1280
1254
1264
1274
1284
N
APPROXIMATE SCALE
1000 0 1000 FEET
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
21



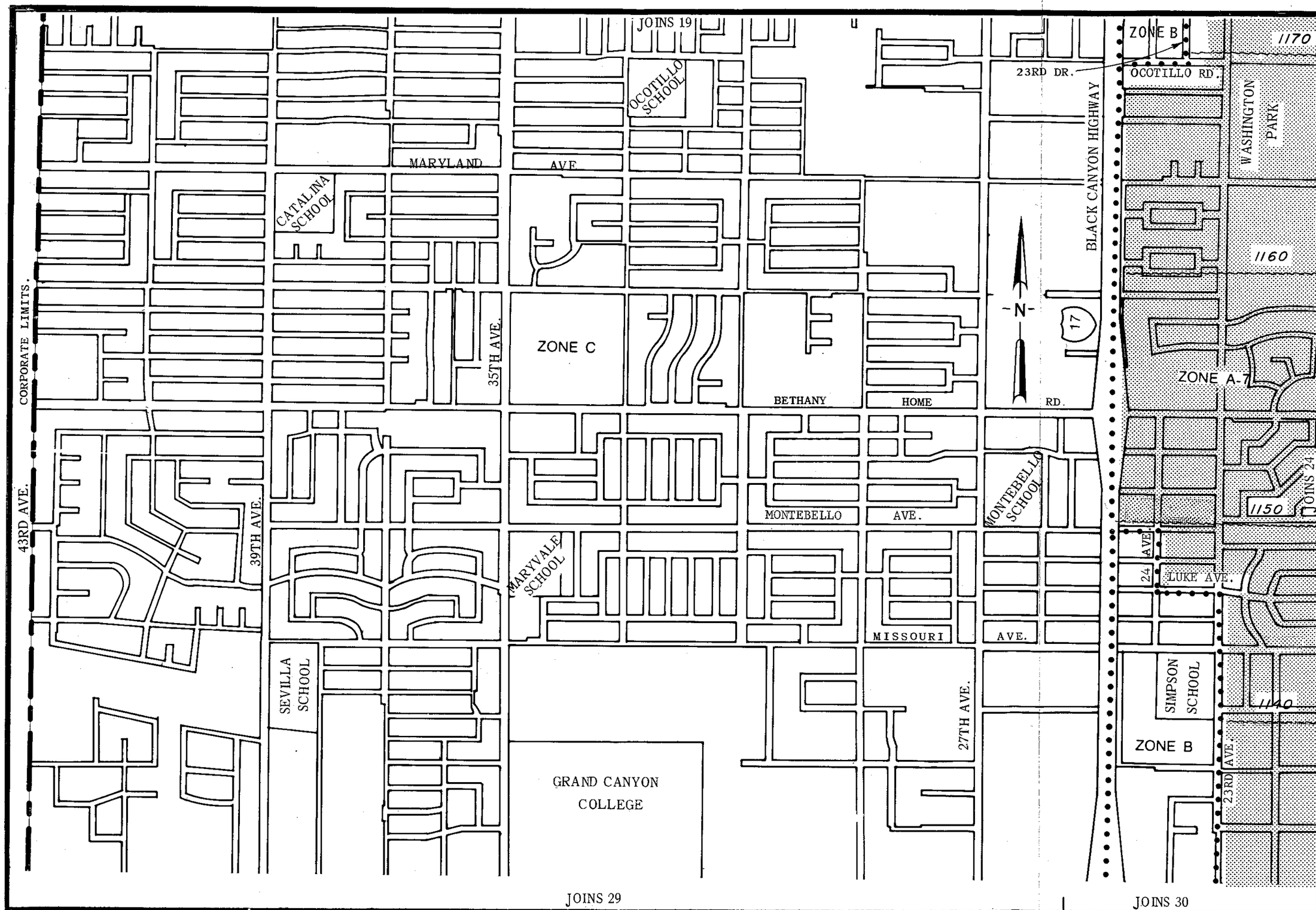
Effective Date:

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

APPROXIMATE SCALE
1000 FEET
0
1000

Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

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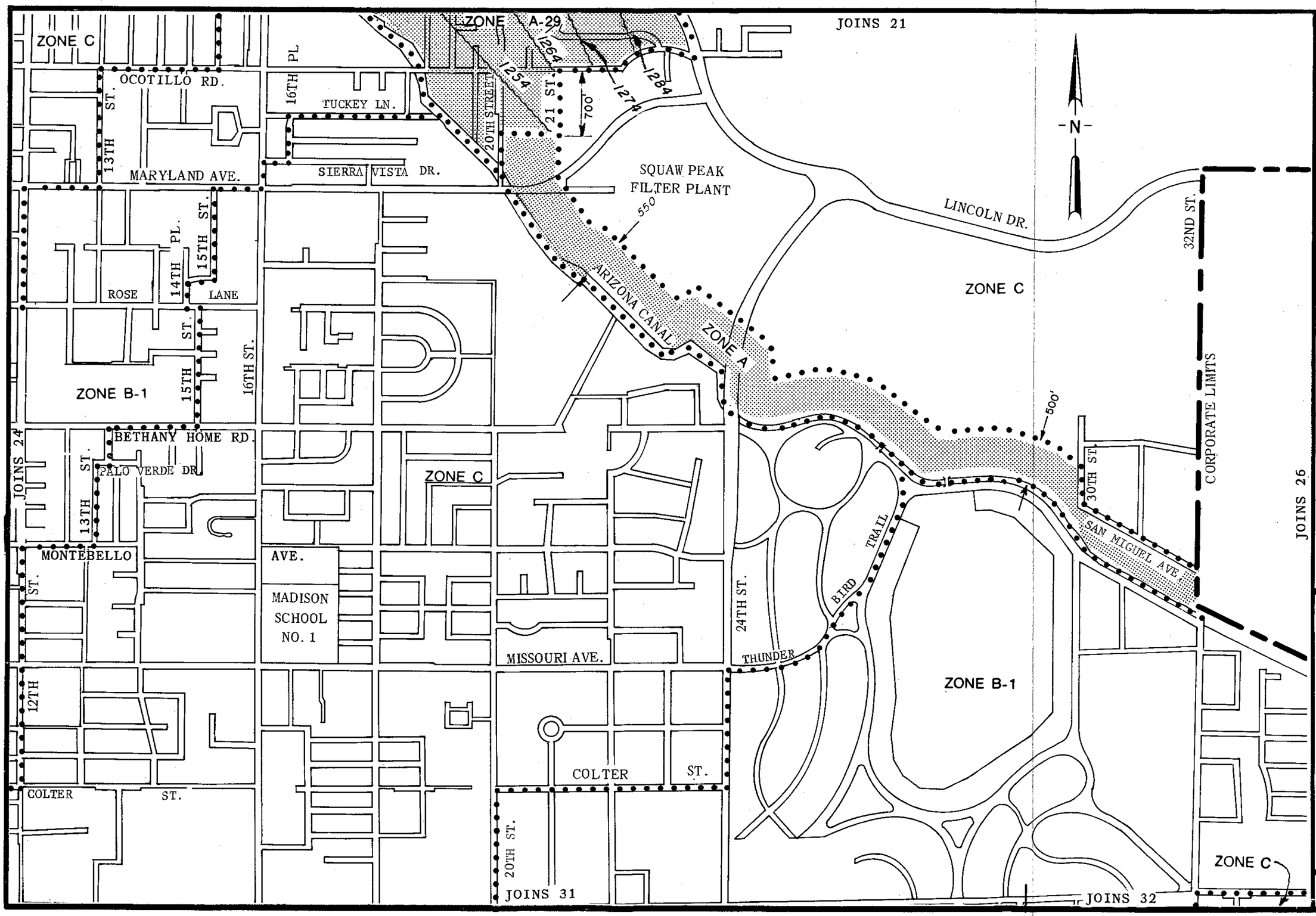


APPROXIMATE SCALE
1000 0 1000 FEET

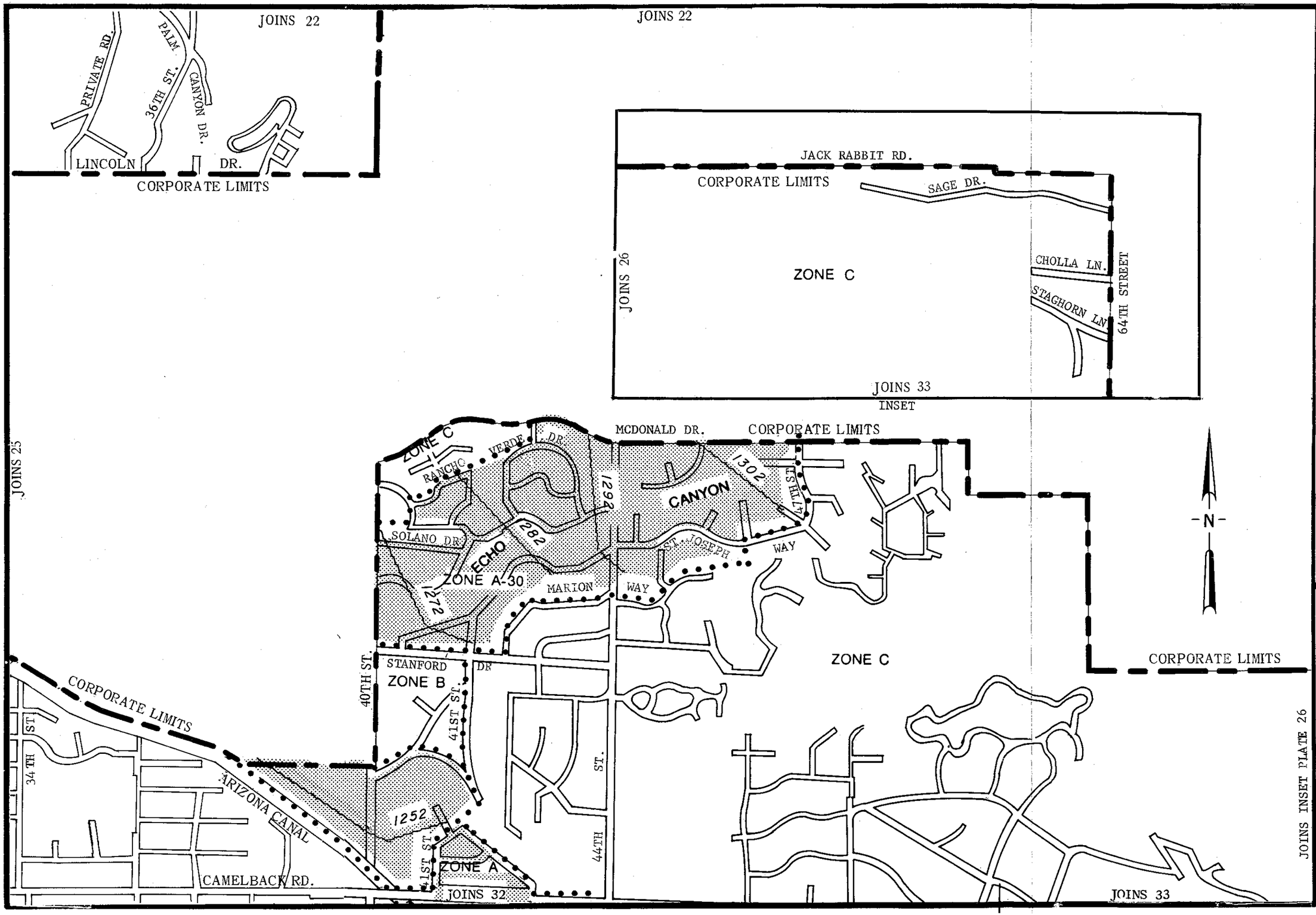
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA


JOINS 22
PRIVATE RD.
PALM
36TH ST.
CANYON DR.
LINCOLN
DR.
CORPORATE LIMITS
JOINS 22
JACK RABBIT RD.
CORPORATE LIMITS
SAGE DR.
JOINS 26
ZONE C
CHOLLA LN.
STAGHORN LN.
64TH STREET
JOINS 33
INSET
JOINS 25
ZONE C
RANCHO
VERDE
DR.
MCDONALD DR.
CORPORATE LIMITS
1292
1302
CANYON
47TH ST.
SOLANO DR.
282
ECHO
ST. JOSEPH
WAY
ZONE A-30
MARION
WAY
1272
N
ZONE C
CORPORATE LIMITS
STANFORD
DR
ZONE B
40TH ST.
41ST ST.
CORPORATE LIMITS
34 TH
ST
ARIZONA CANAL
1252
41ST ST.
ZONE A
44TH
ST.
CAMELBACK RD.
JOINS 32
JOINS 33
JOINS INSET PLATE 26
APPROXIMATE SCALE
1000 FEET
0
1000
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
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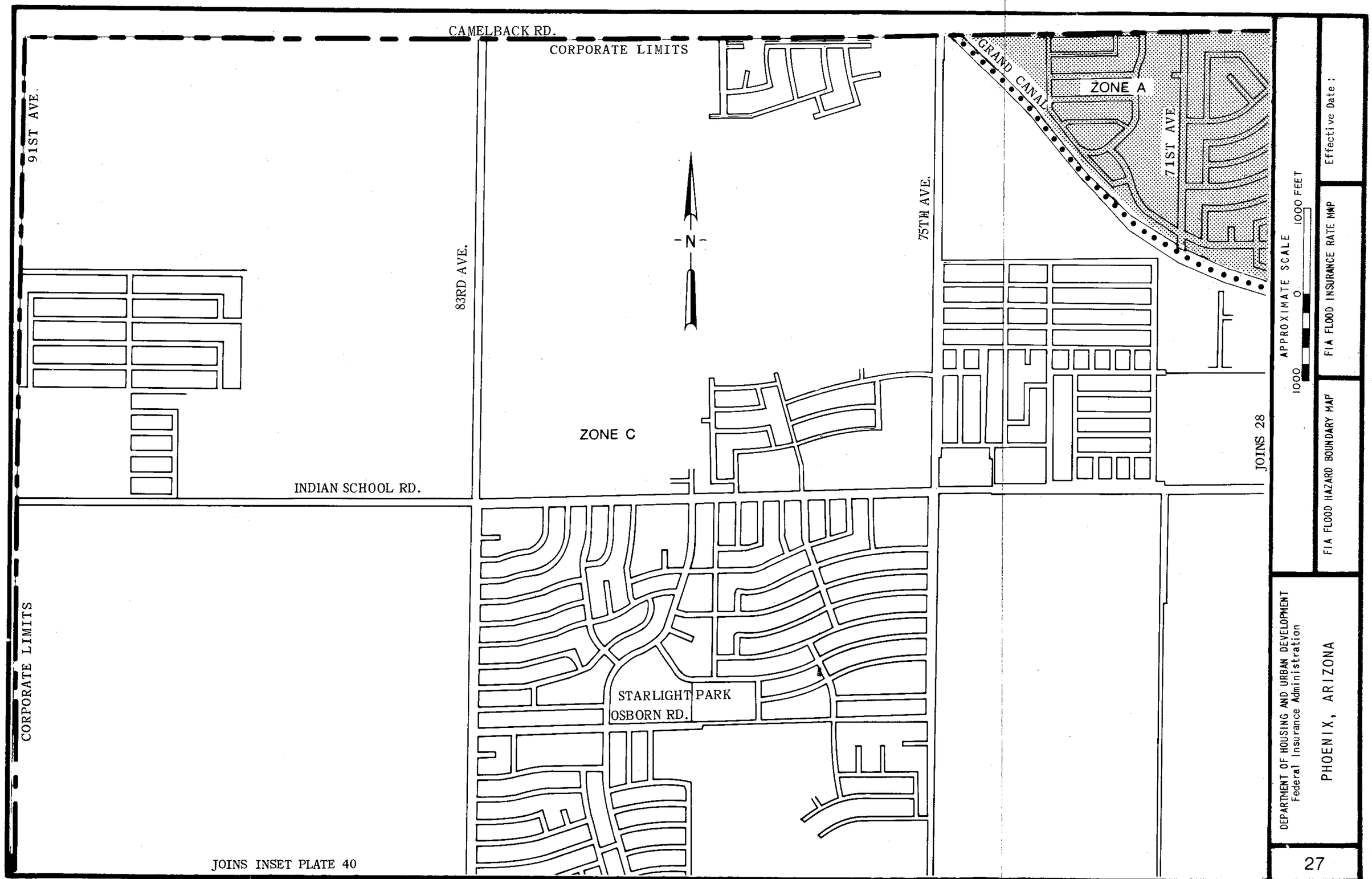
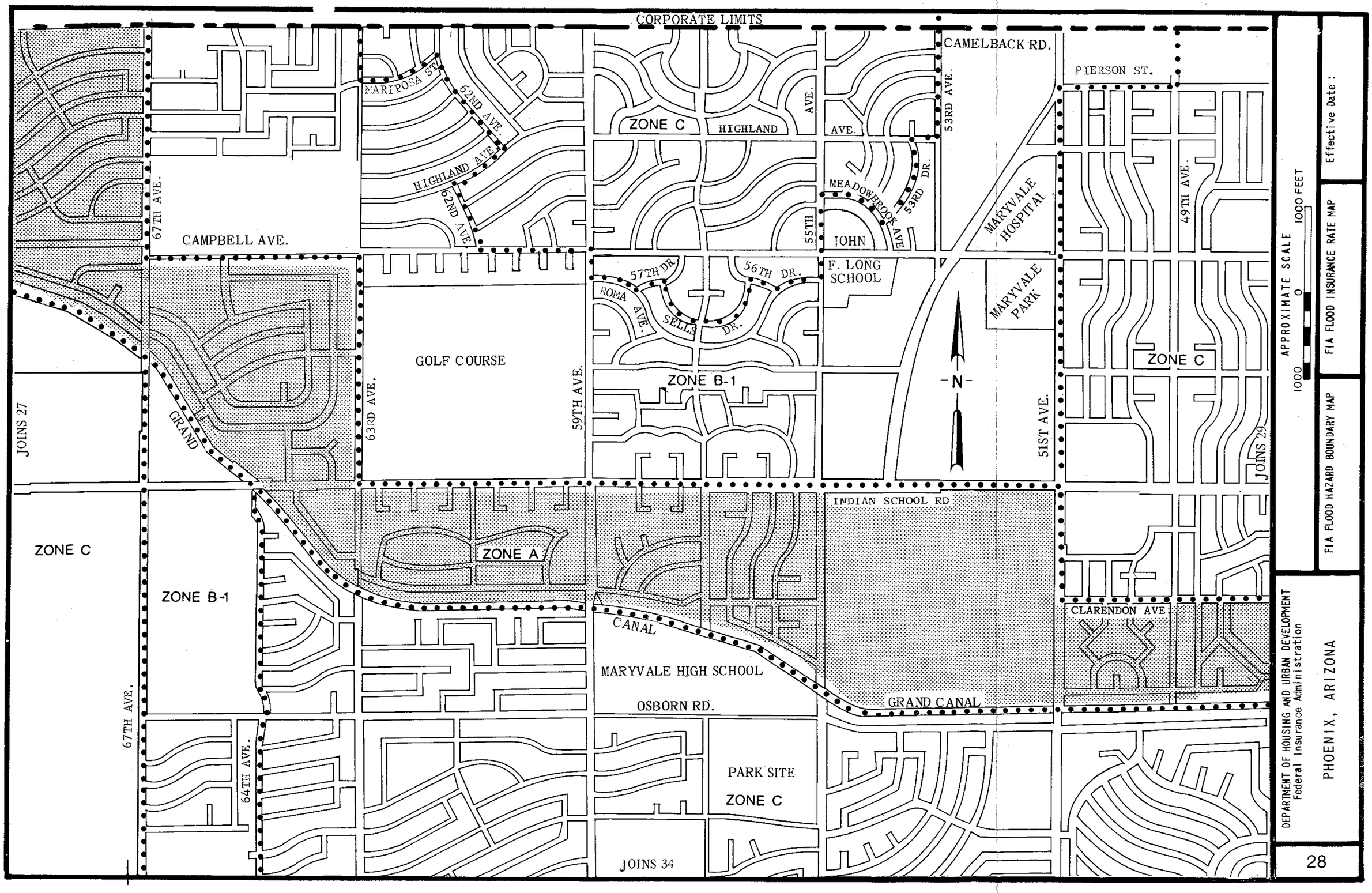
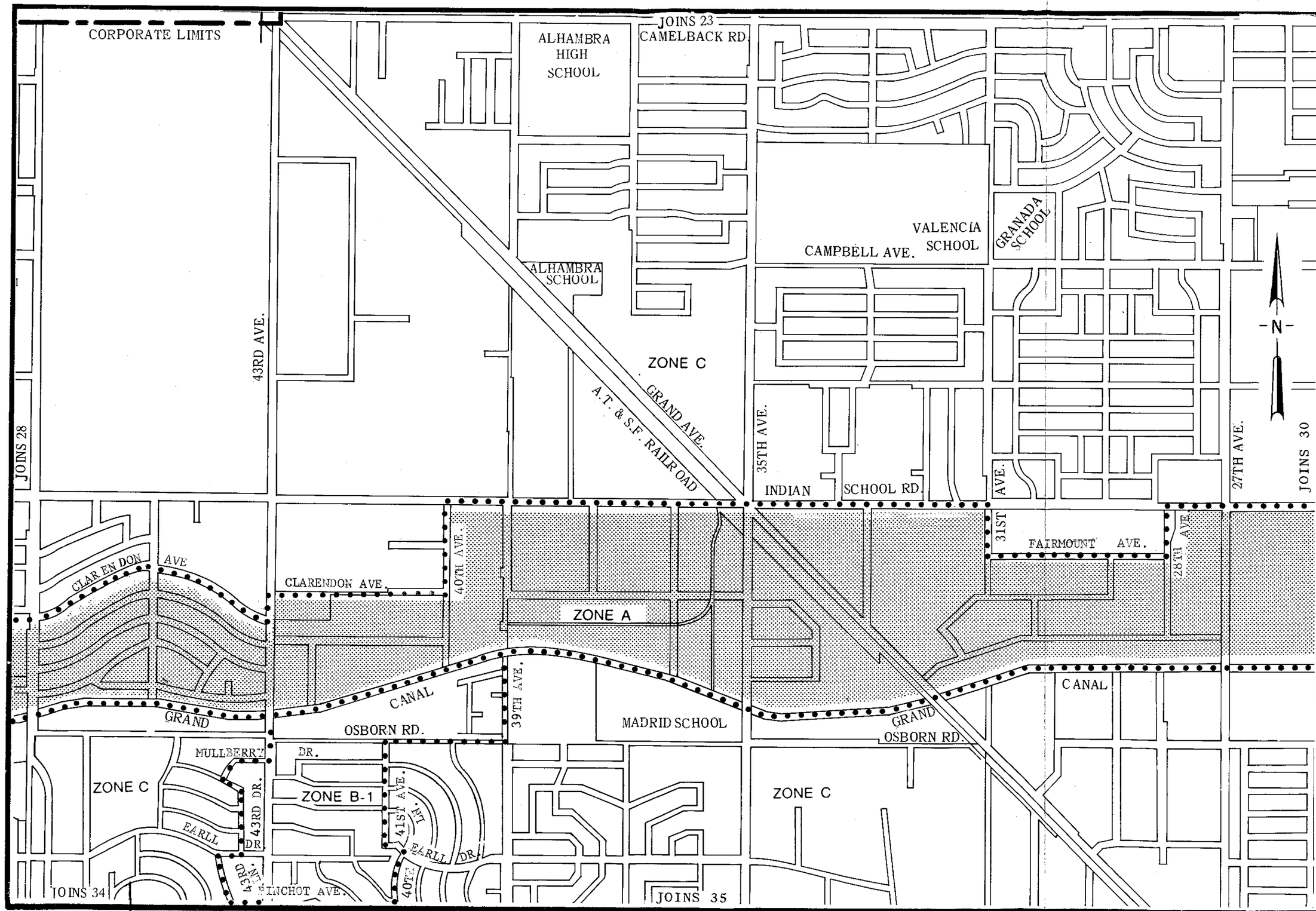
PHOENIX, ARIZONA
26


CAMELBACK RD.
CORPORATE LIMITS
91ST AVE.
83RD AVE.
75TH AVE.
71ST AVE.
GRAND CANAL
ZONE A
ZONE C
N
INDIAN SCHOOL RD.
JOINS 28
CORPORATE LIMITS
STARLIGHT PARK
OSBORN RD.
JOINS INSET PLATE 40
APPROXIMATE SCALE
1000 FEET
0
1000
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
27


CORPORATE LIMITS
CAMELBACK RD.
PIERSON ST.
MARIPOSA ST.
62ND AVE.
HIGHLAND AVE.
ZONE C
HIGHLAND
AVE.
53RD AVE.
MEADOWBROOK AVE.
53RD DR.
55TH
JOHN
F. LONG SCHOOL
MARYVALE HOSPITAL
49TH AVE.
67TH AVE.
CAMPBELL AVE.
57TH DR.
56TH DR.
ROMA AVE.
SELLS DR.
MARYVALE PARK
GOLF COURSE
63RD AVE.
59TH AVE.
ZONE B-1
ZONE C
51ST AVE.
JOINS 27
GRAND
JOINS 29
INDIAN SCHOOL RD
ZONE C
ZONE A
ZONE B-1
CLARENDON AVE
CANAL
MARYVALE HIGH SCHOOL
OSBORN RD.
GRAND CANAL
67TH AVE.
64TH AVE.
PARK SITE
ZONE C
JOINS 34
N
APPROXIMATE SCALE
0
1000
1000 FEET
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
28



Effective Date :

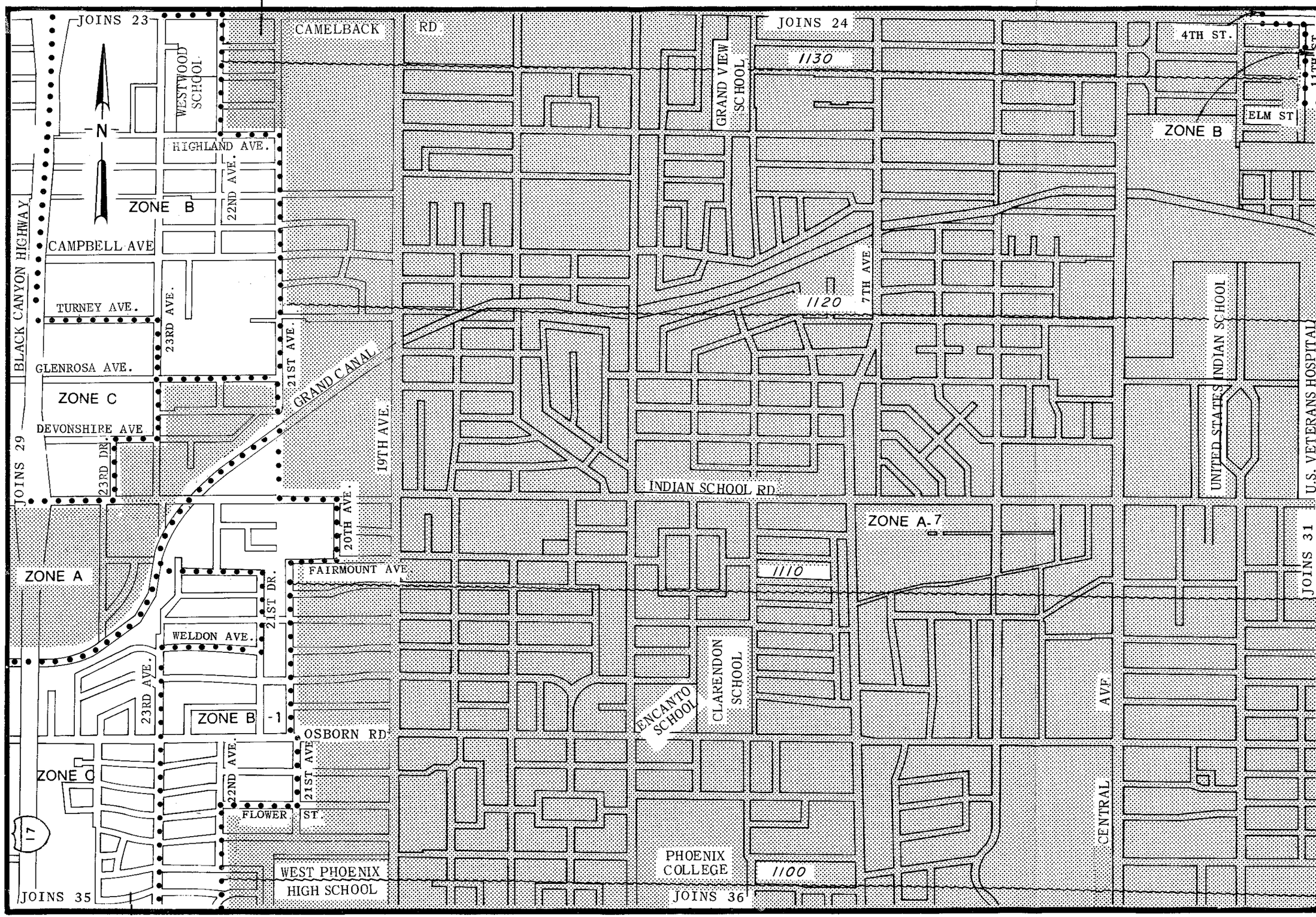
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

29



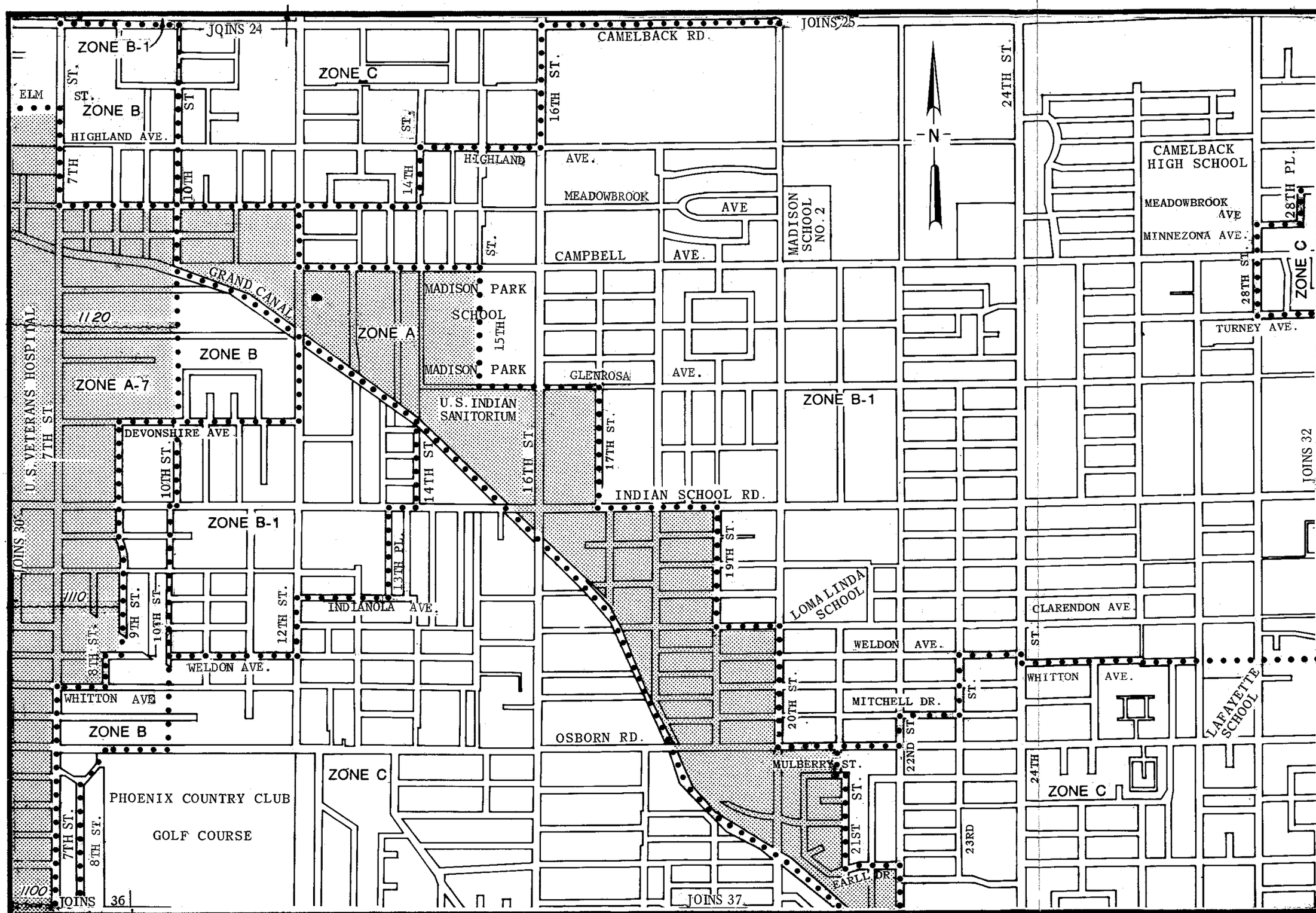
Effective Date :

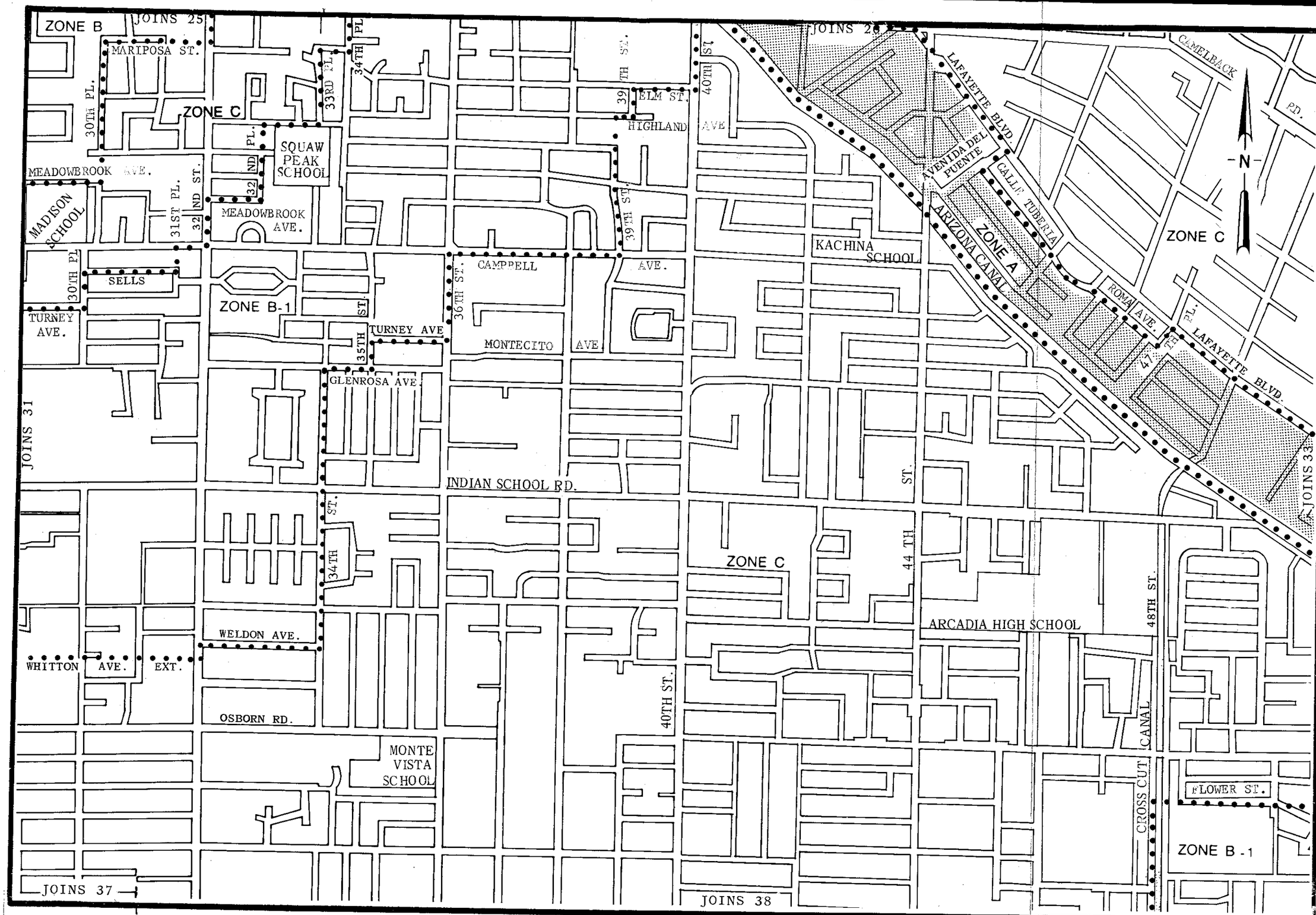
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA


JOINS 24
JOINS 25
CAMELBACK RD.
ZONE B-1
ZONE C
ZONE B
ELM
HIGHLAND AVE.
7TH ST.
10TH ST.
14TH ST.
16TH ST.
24TH ST.
HIGHLAND AVE.
MEADOWBROOK AVE
CAMPBELL AVE.
MADISON SCHOOL NO. 2
CAMELBACK HIGH SCHOOL
MEADOWBROOK AVE
MINNEZONA AVE.
28TH PL.
28TH ST.
TURNEY AVE.
GRAND CANAL
1120
ZONE A
MADISON PARK SCHOOL
15TH ST.
MADISON PARK
GLENROSA AVE.
ZONE A-7
U.S. INDIAN SANITORIUM
16TH ST.
17TH ST.
ZONE B-1
U.S. VETERANS HOSPITAL
7TH ST.
DEVONSHIRE AVE.
10TH ST.
14TH ST.
INDIAN SCHOOL RD.
JOINS 32
JOINS 30
ZONE B-1
13TH PL.
19TH ST.
1110
9TH ST.
10TH ST.
12TH ST.
INDIANOLA AVE.
LOMA LINDA SCHOOL
CLARENDON AVE.
8TH ST.
WELDON AVE.
WELDON AVE.
WHITTON AVE
WHITTON AVE.
MITCHELL DR.
20TH ST.
22ND ST.
LAFAYETTE SCHOOL
ZONE B
OSBORN RD.
MULBERRY ST.
ZONE C
PHOENIX COUNTRY CLUB
GOLF COURSE
7TH ST.
8TH ST.
21ST ST.
23RD
24TH
ZONE C
EARLL DR.
1100
JOINS 36
JOINS 37
N
APPROXIMATE SCALE
0
1000
1000 FEET
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
31



APPROXIMATE SCALE
1000 0 1000 FEET

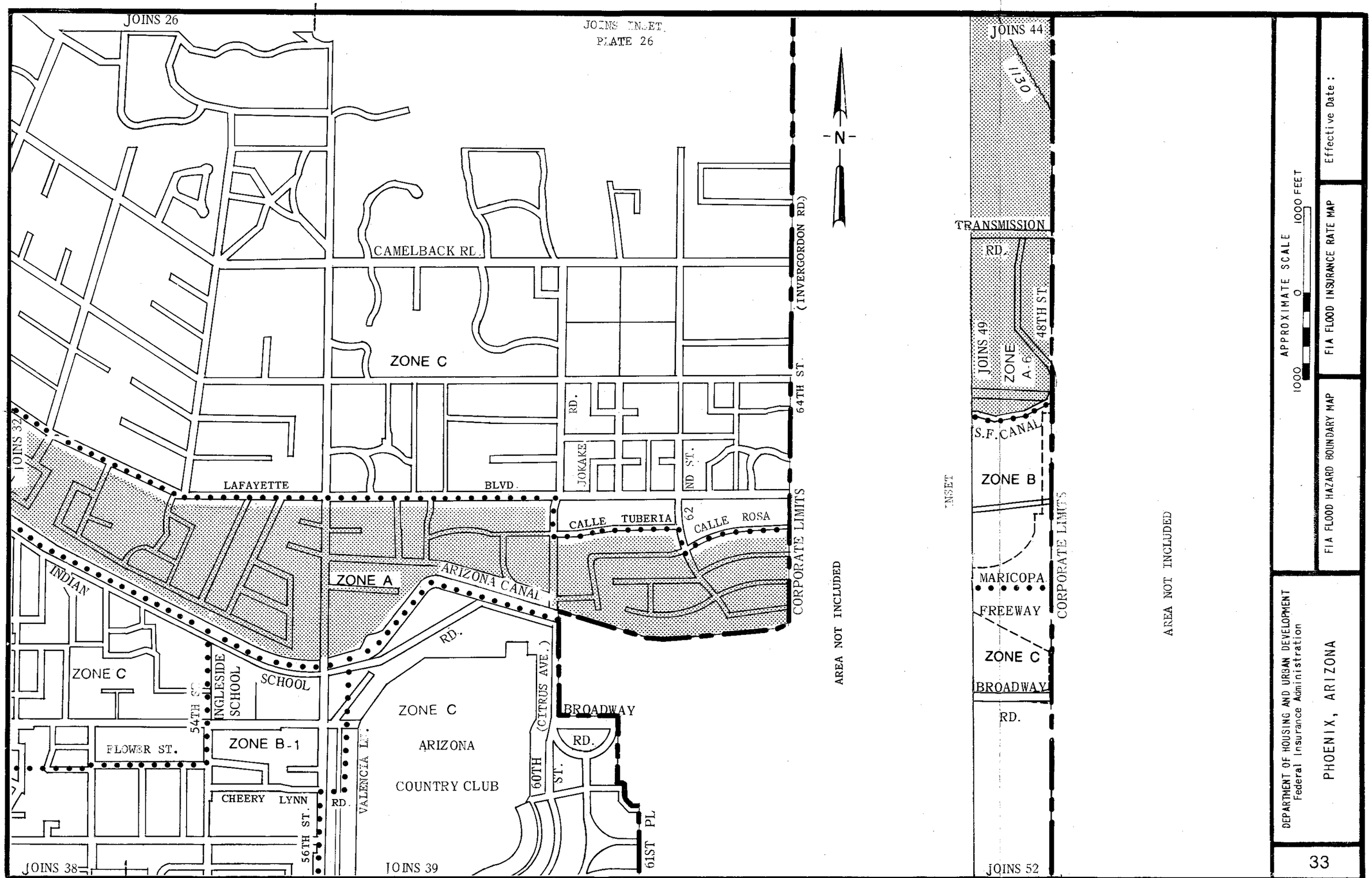
Effective Date :

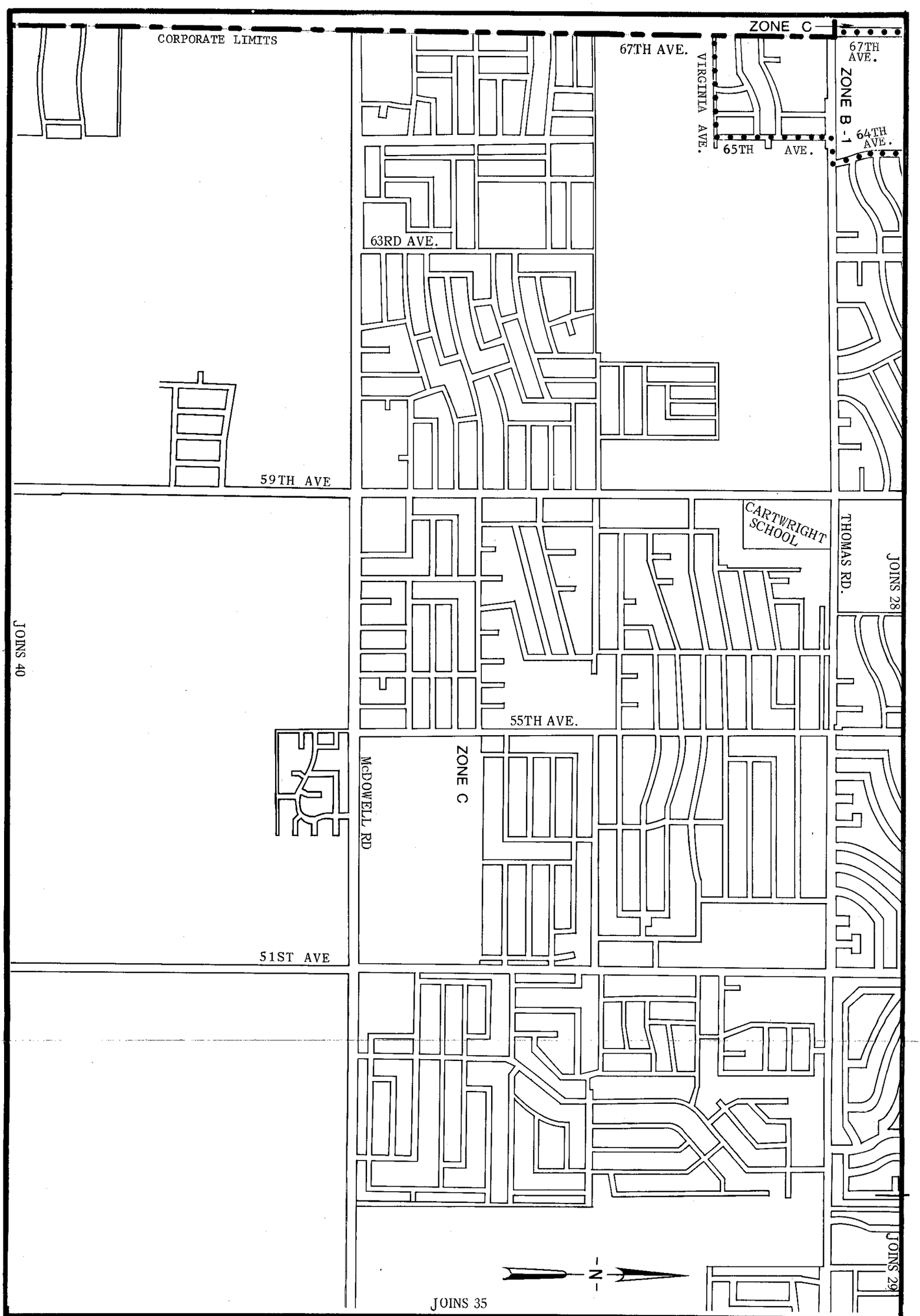
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA


JOINS 26
JOINS INSET
PLATE 26
N
JOINS 44
1130
TRANSMISSION
RD.
JOINS 49
ZONE
A-6
48TH ST.
S.F. CANAL
ZONE B
CORPORATE LIMITS
MARICOPA
FREEWAY
ZONE C
BROADWAY
RD.
JOINS 52
AREA NOT INCLUDED
INSET
AREA NOT INCLUDED
CAMELBACK RD.
(INVERGORDON RD.)
64TH ST.
ZONE C
RD.
JOKAKE
ND ST.
JOINS 32
LAFAYETTE
BLVD.
CALLE TUBERIA
62
CALLE ROSA
CORPORATE LIMITS
ZONE A
ARIZONA CANAL
INDIAN
RD.
ZONE C
INGLESIDE SCHOOL
SCHOOL
54TH ST.
ZONE C
ARIZONA
COUNTRY CLUB
(CITRUS AVE.)
BROADWAY
RD.
FLOWER ST.
ZONE B-1
VALENCIA LN.
60TH
ST.
CHEERY LYNN
RD.
56TH ST.
61ST PL
JOINS 38
JOINS 39
APPROXIMATE SCALE
1000 FEET
0
1000
Effective Date:
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
33



DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

APPROXIMATE SCALE
1000 0 1000 FEET

FIA FLOOD HAZARD BOUNDARY MAP

FIA FLOOD INSURANCE RATE MAP

Effective Date :

Effective Date :

FIA FLOOD INSURANCE RATE MAP

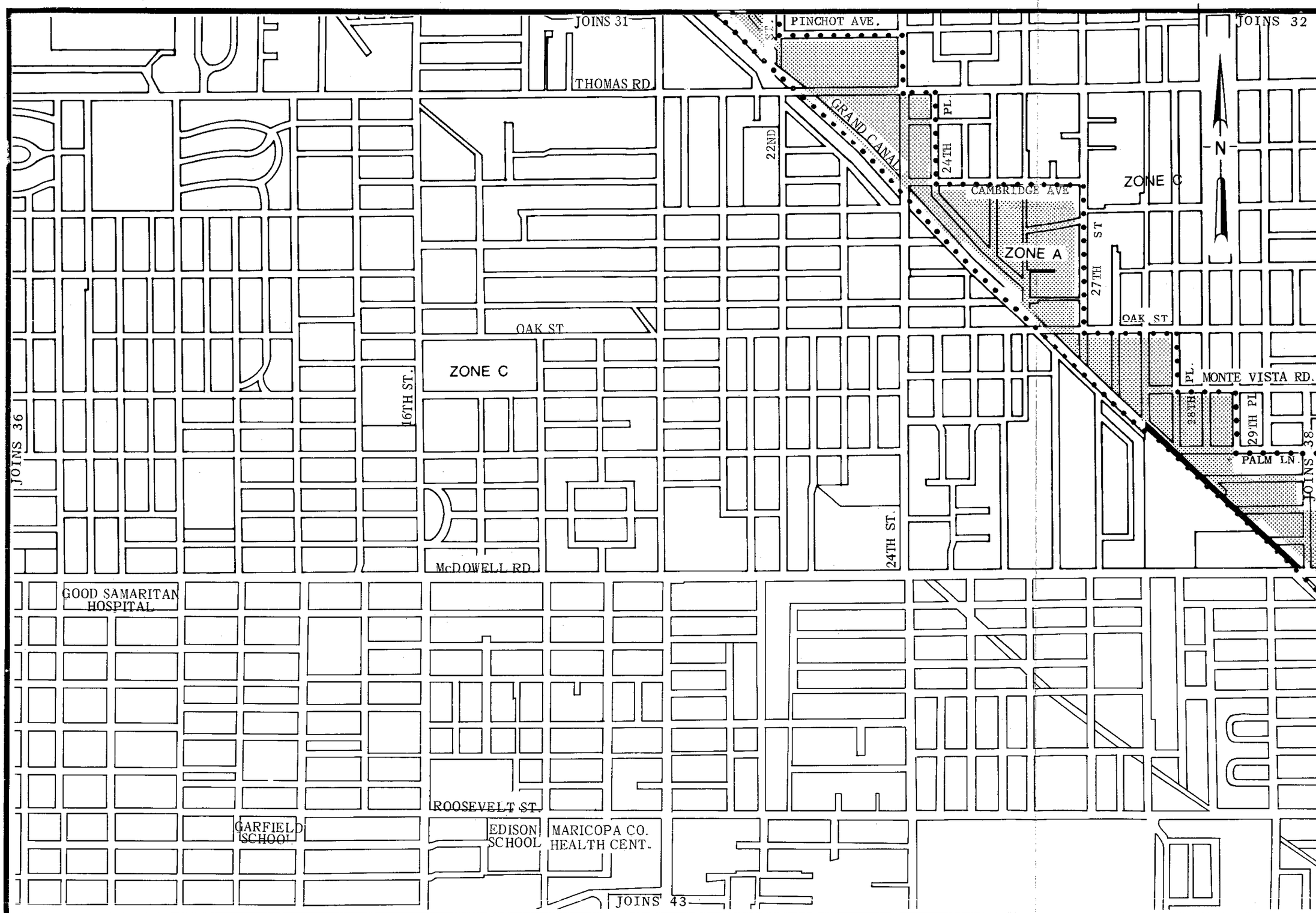
FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

35

JOINS 30
JOINS 31
JOINS 35
JOINS 37
JOINS 42
WEST PHOENIX HIGH SCHOOL
22ND AVE
THOMAS RD.
VERDE
LN.
C. DR.
ZONE C
ZONE B
23RD AVE.
21ST AVE.
ENCANTO GOLF COURSE
ZONE A-7
ENCANTO PARK
ARIZ. HWY. PATROL HDQR'S
ENCANTO BLVD
GRAND AVE.
19TH AVE.
ARIZONA STATE FAIRGROUNDS
15TH AVE.
1090
ENCANTO BLVD
ALVARADO RD.
3RD ST.
MONTEREY PARK
7TH ST.
MONTE VISTA RD
PALM LN
EMERSON SCHOOL
A.T.&S.F. RAILROAD
GRAND AVE
McDOWELL RD.
CENTRAL AVE
LIBRARY
ZONE C
WILLETTA ST.
1ST ST.
2ND ST.
KENILWORTH SCHOOL
CANYON HIGHWAY
1080
E. PORTLAND ST.
ROOSEVELT ST.
BLACK
1ST AVE
GARFIELD ST.
W. MCKINLEY ST.
N
APPROXIMATE SCALE
0
1000
1000 FEET
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
36



APPROXIMATE SCALE
0 1000 FEET
1000

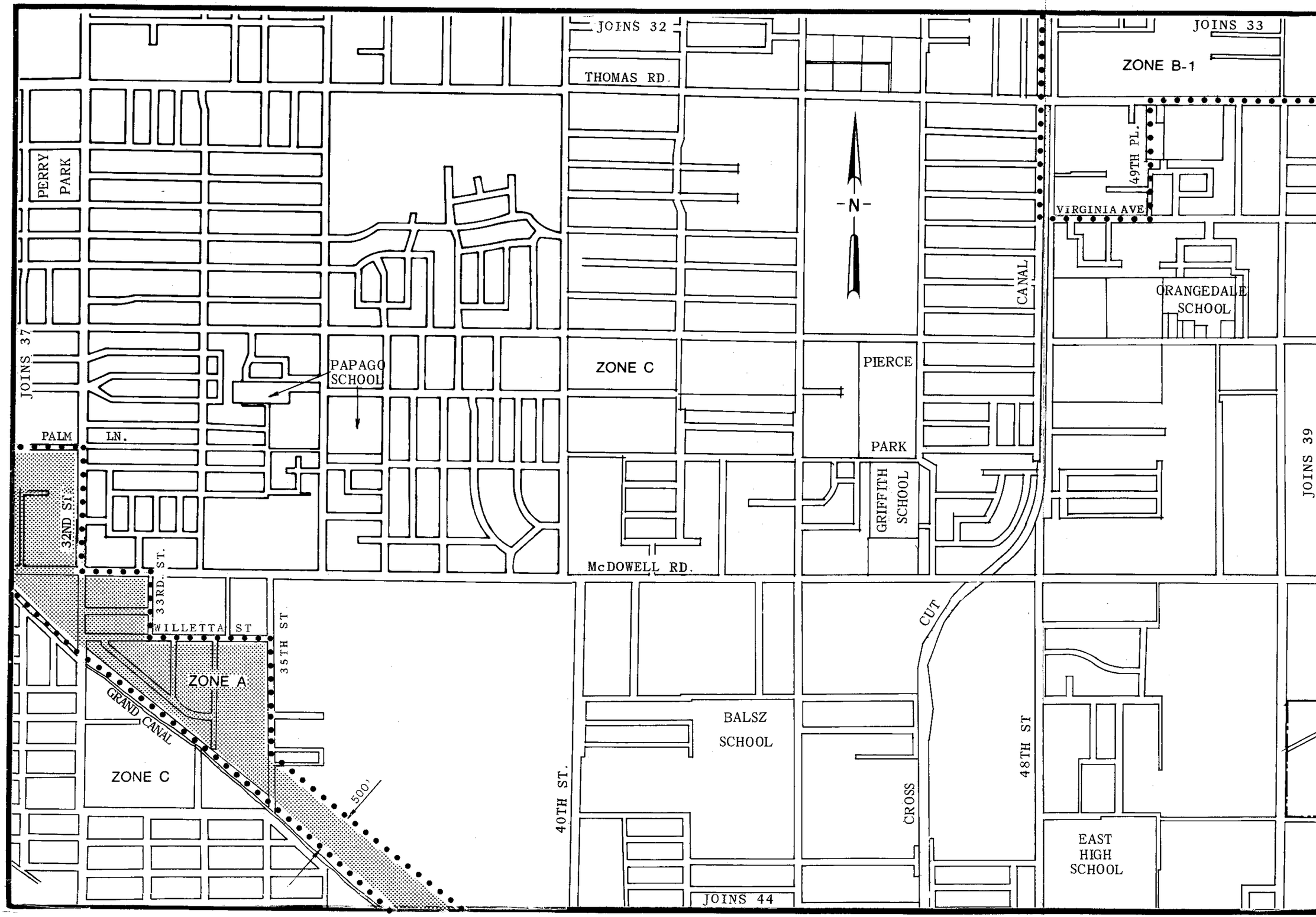
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



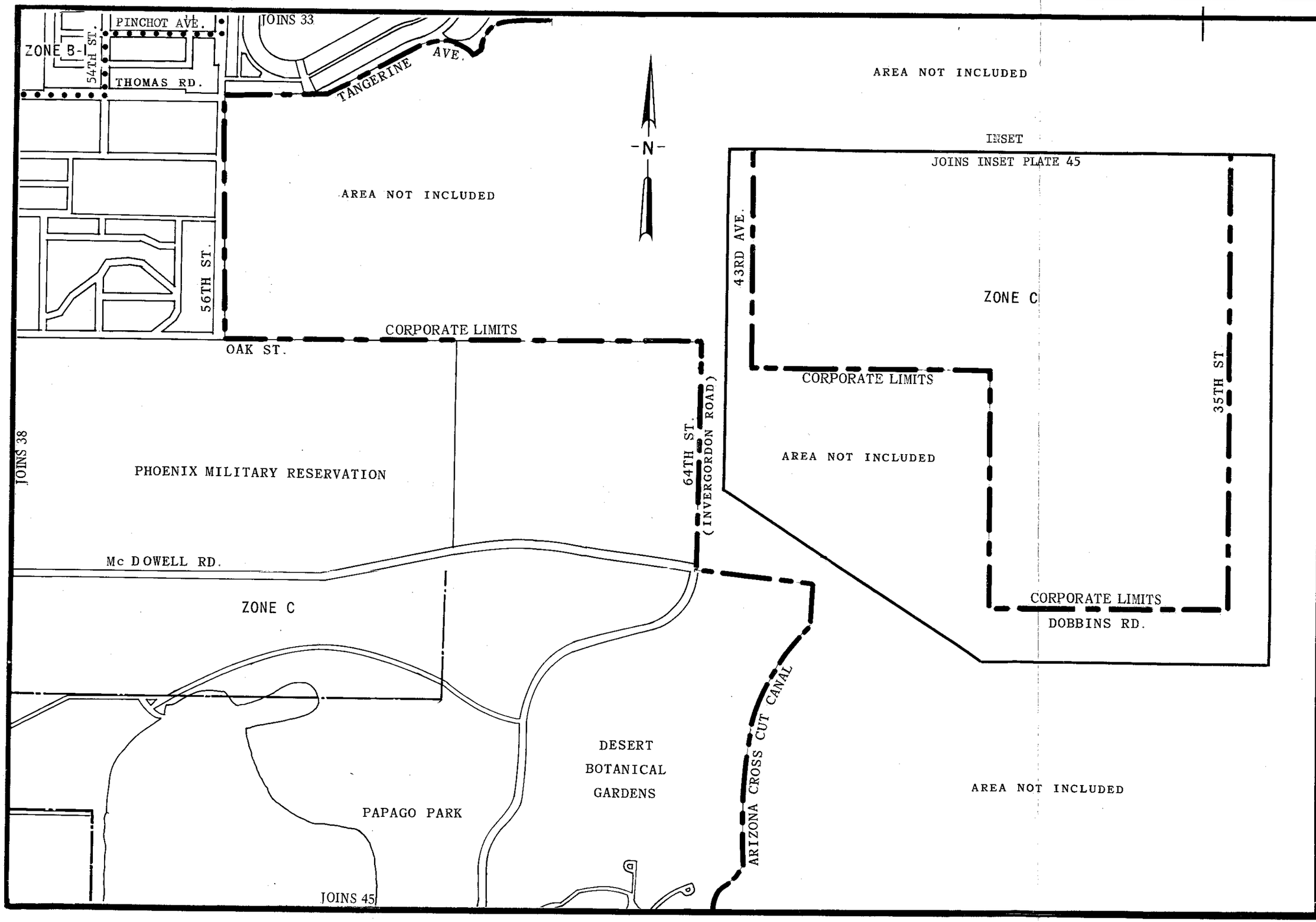
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



APPROXIMATE SCALE
0 1000 1000 FEET

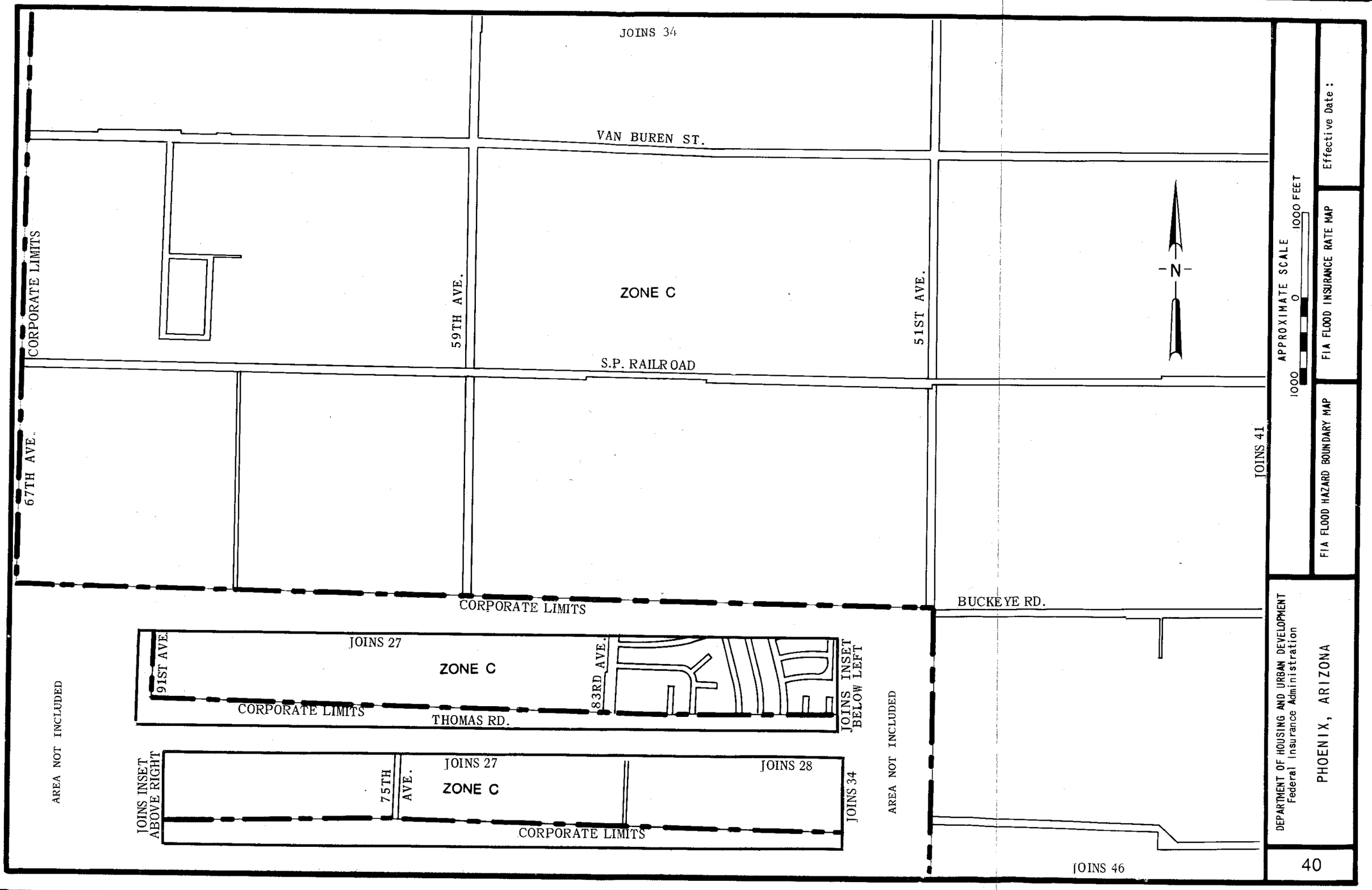
Effective Date :

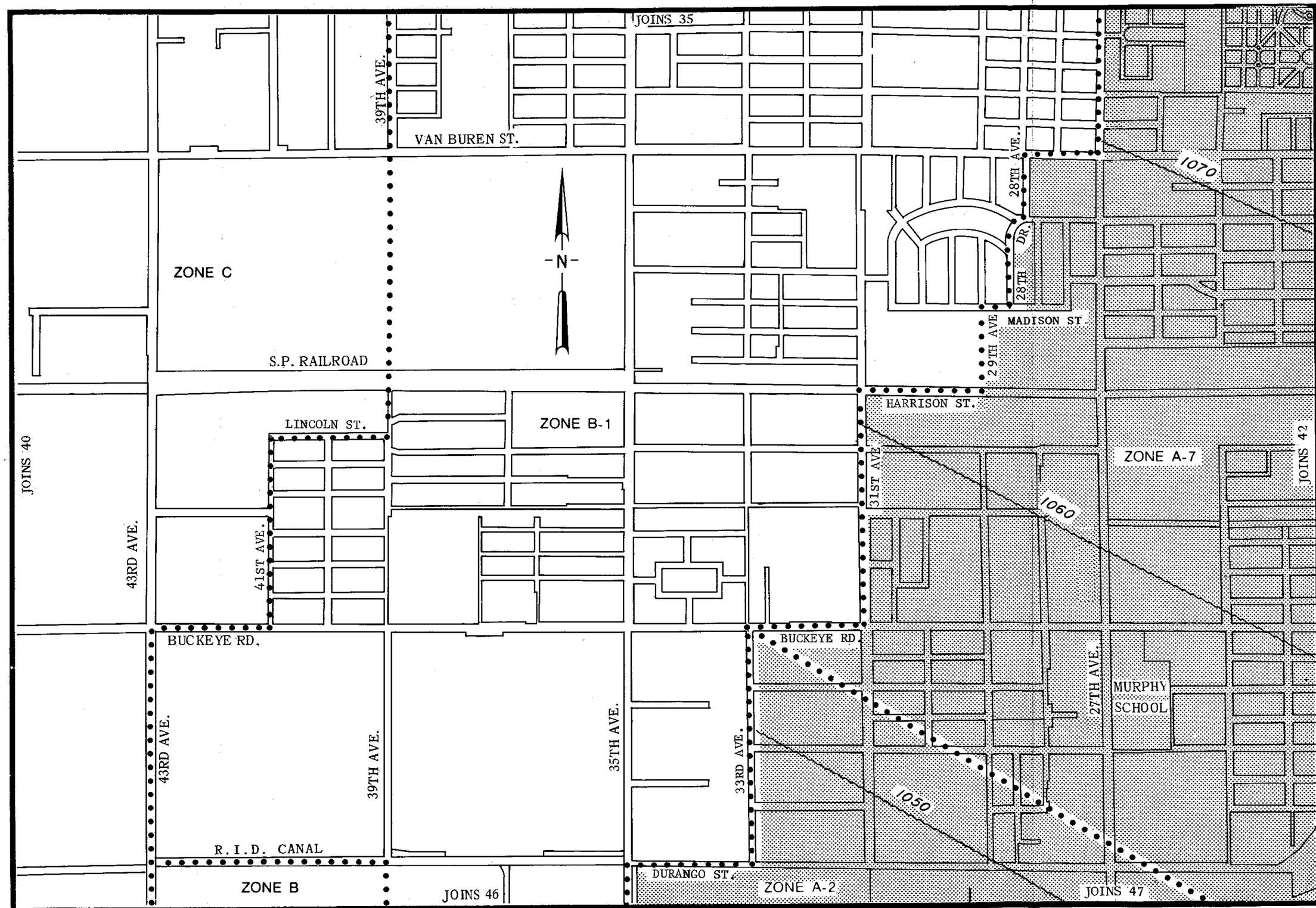
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA


JOINS 34
VAN BUREN ST.
CORPORATE LIMITS
59TH AVE.
ZONE C
51ST AVE.
S.P. RAILROAD
67TH AVE.
JOINS 41
CORPORATE LIMITS
BUCKEYE RD.
91ST AVE.
JOINS 27
ZONE C
83RD AVE.
JOINS INSET BELOW LEFT
CORPORATE LIMITS
THOMAS RD.
AREA NOT INCLUDED
JOINS INSET ABOVE RIGHT
75TH AVE.
JOINS 27
ZONE C
JOINS 28
JOINS 34
CORPORATE LIMITS
AREA NOT INCLUDED
JOINS 46
N
APPROXIMATE SCALE
1000 FEET
0
1000
Effective Date :
FIA FLOOD INSURANCE RATE MAP
FIA FLOOD HAZARD BOUNDARY MAP
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
PHOENIX, ARIZONA
40



Effective Date :

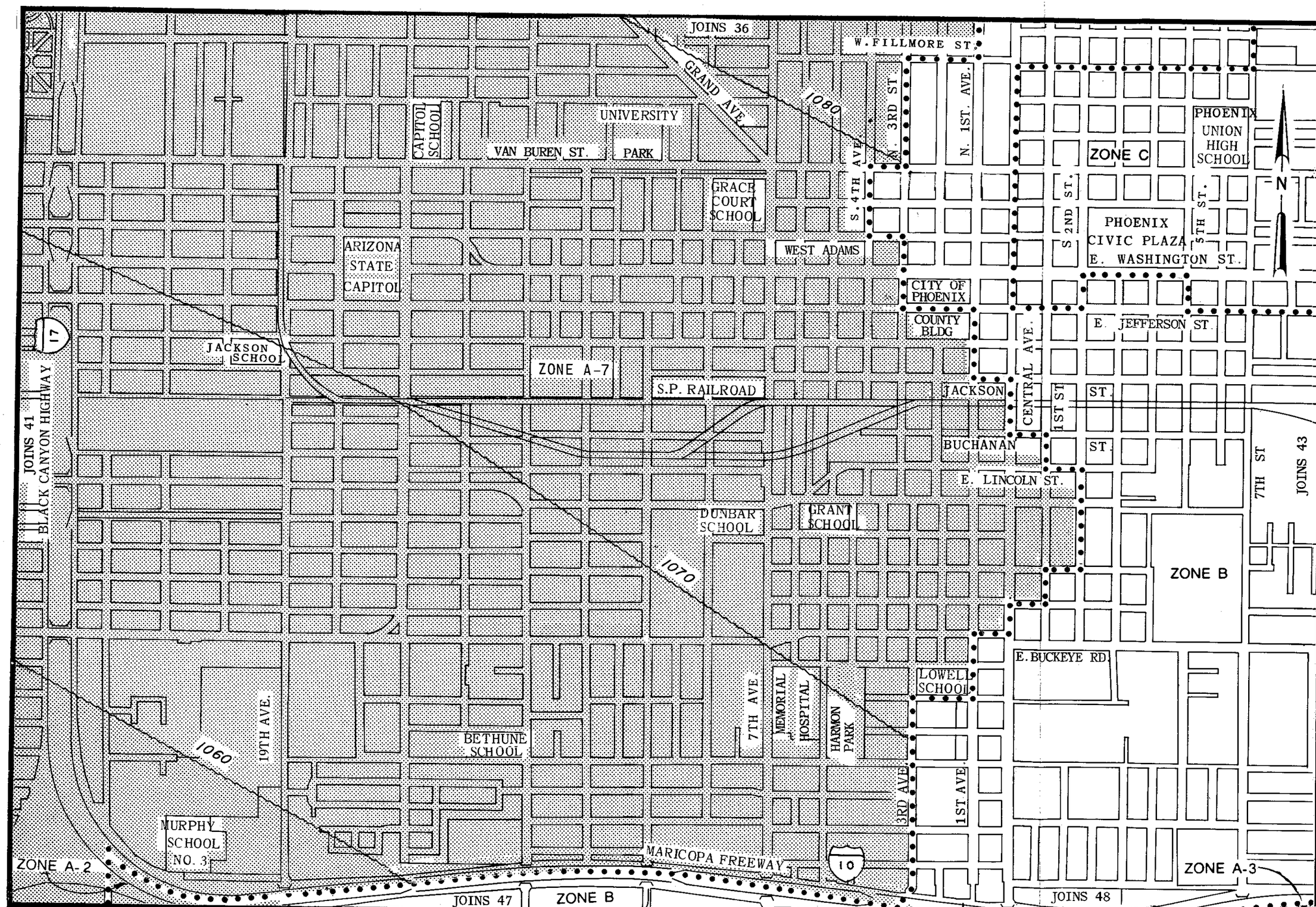
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

41



Effective Date :

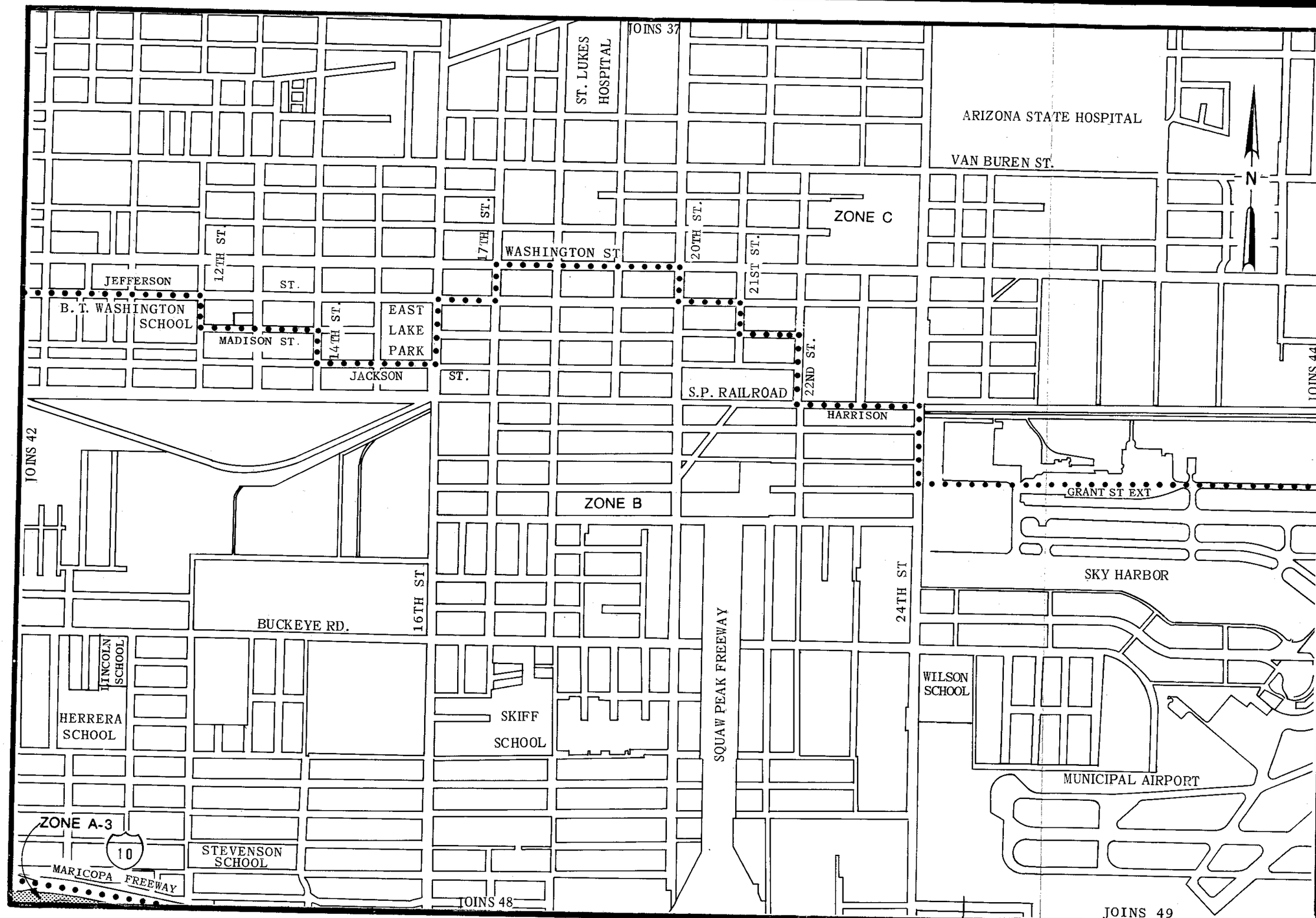
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

42



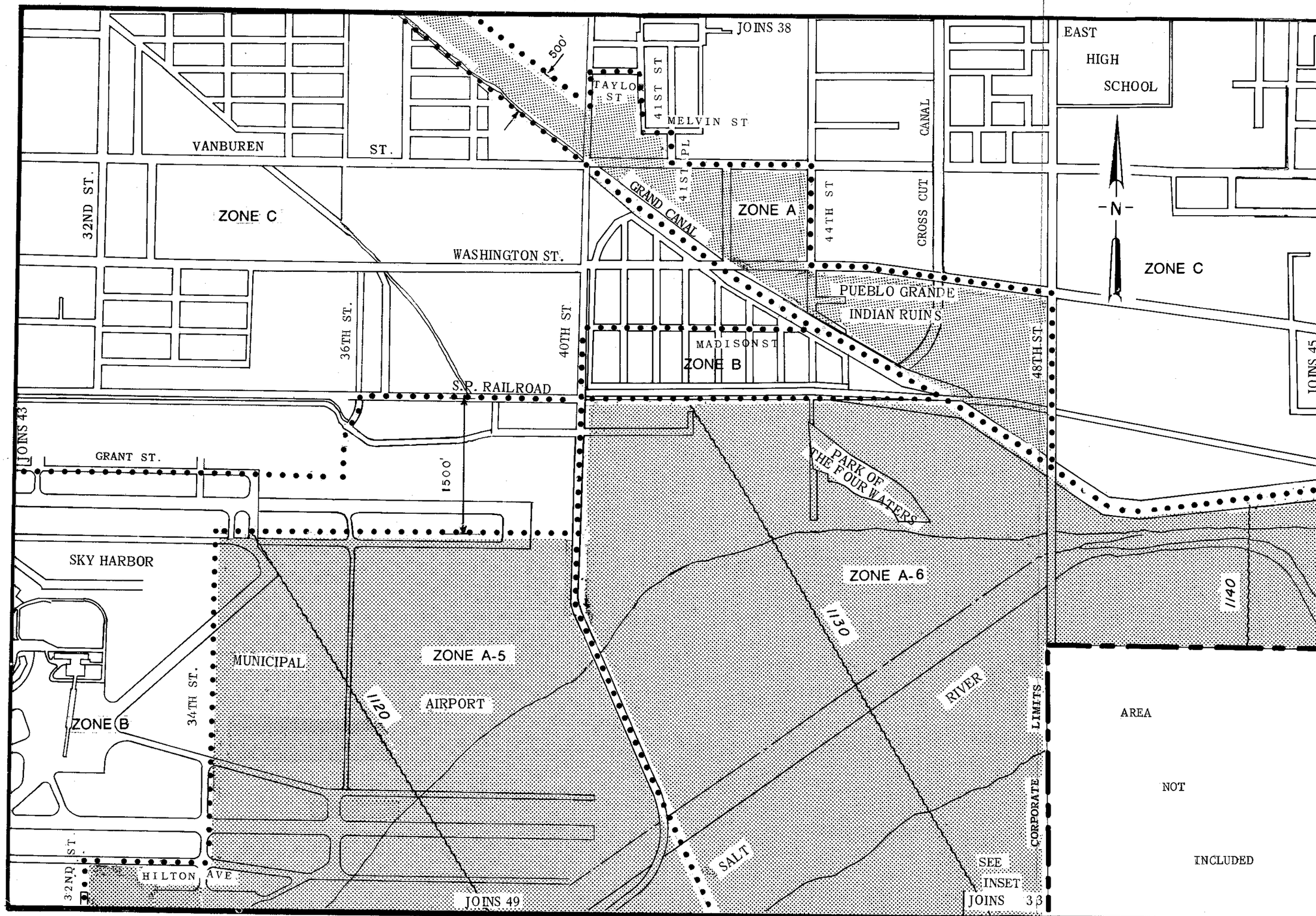
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



APPROXIMATE SCALE
1000 0 1000 FEET

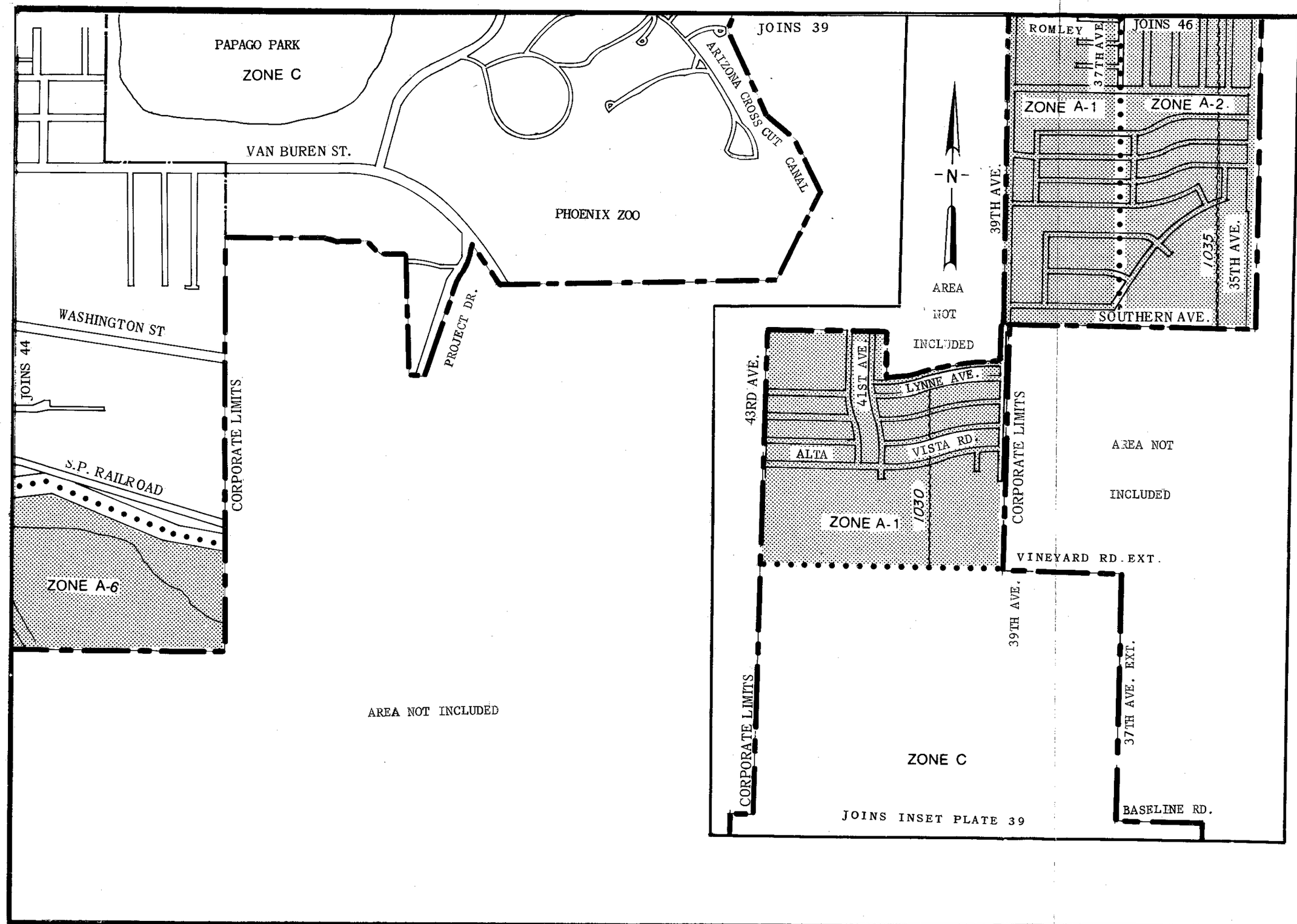
Effective Date:

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



APPROXIMATE SCALE
1000 0 1000 FEET

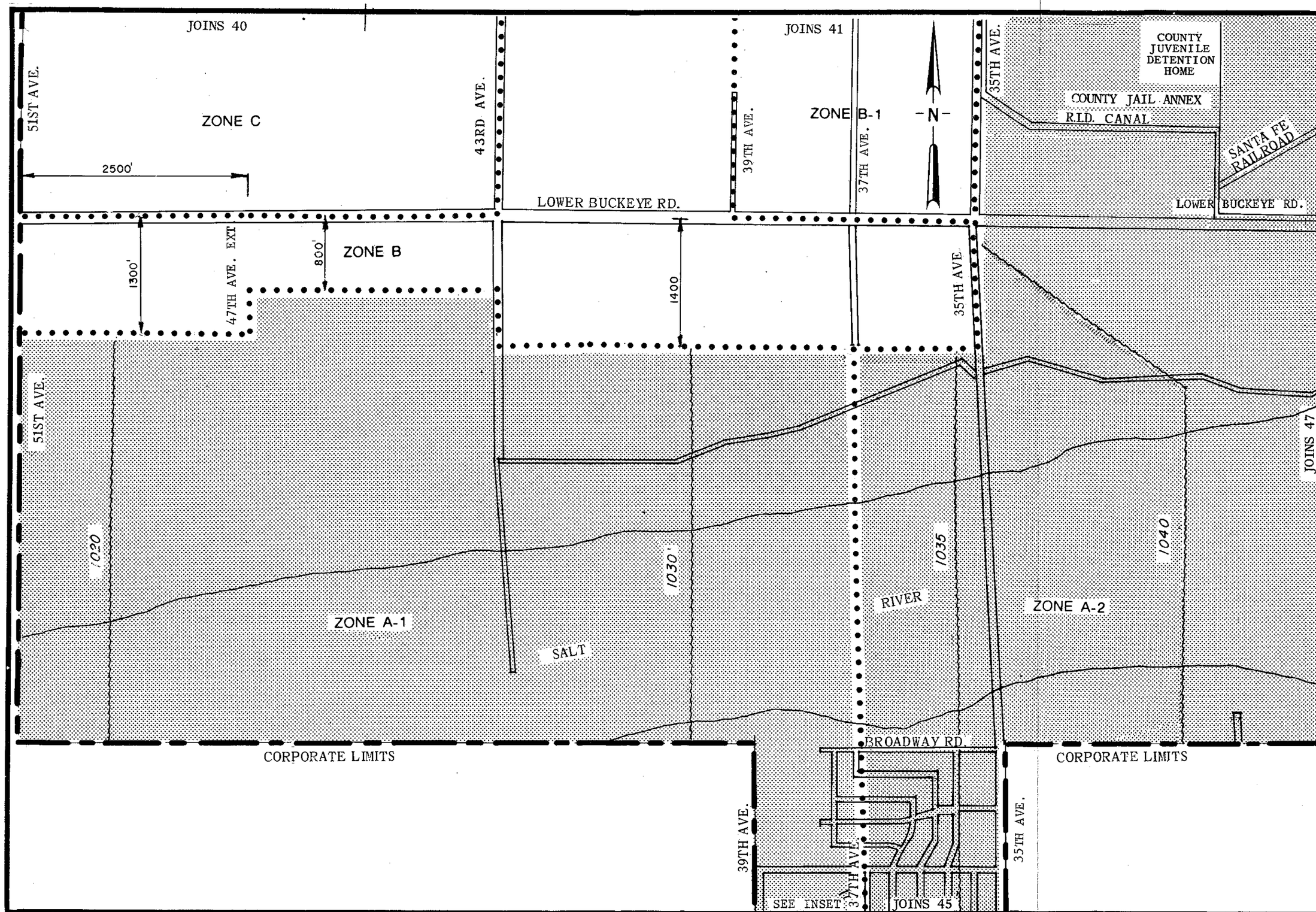
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



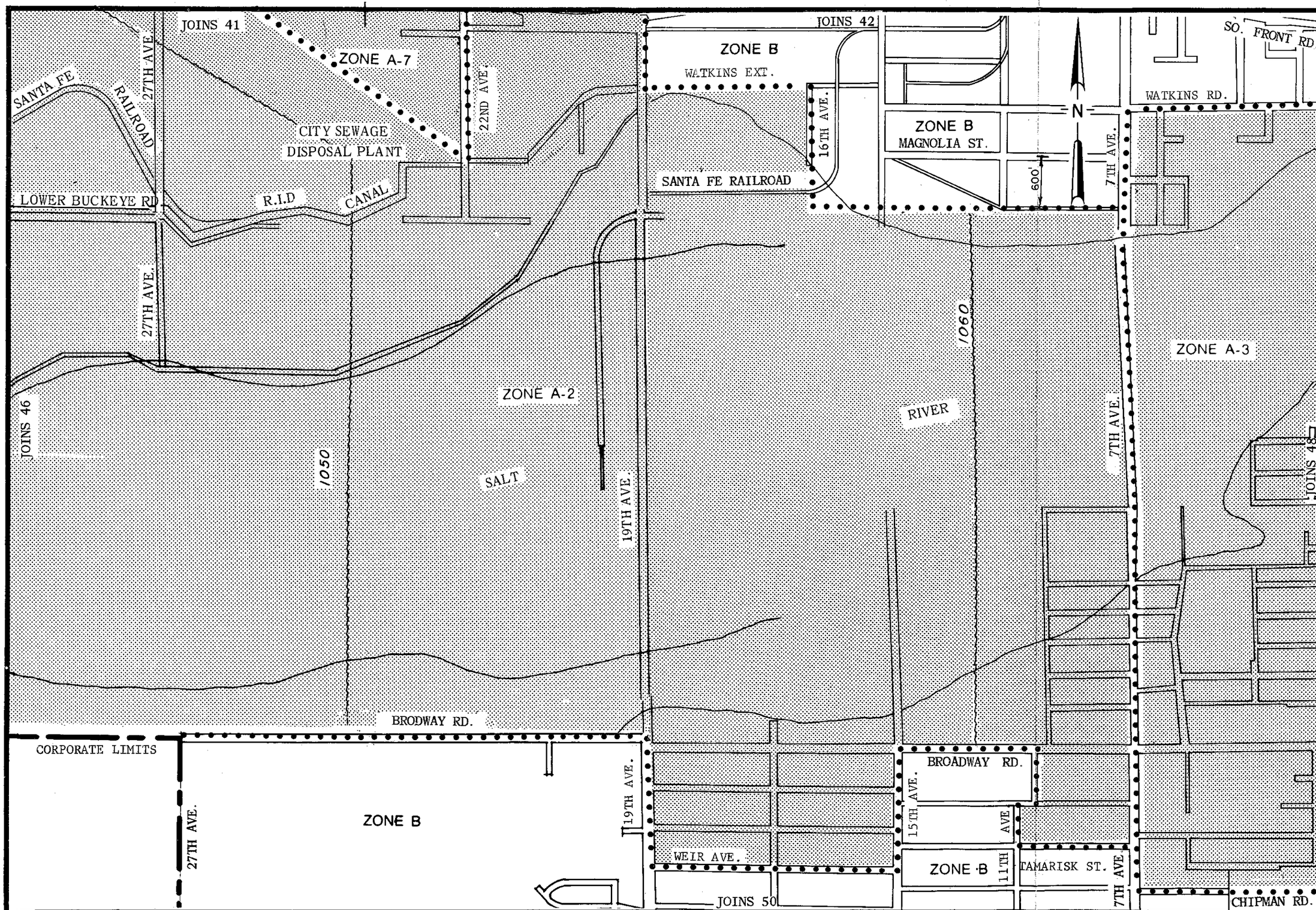
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



APPROXIMATE SCALE
1000 0 1000 FEET

Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

47

APPROXIMATE SCALE
1000 0 1000 FEET

Effective Date :

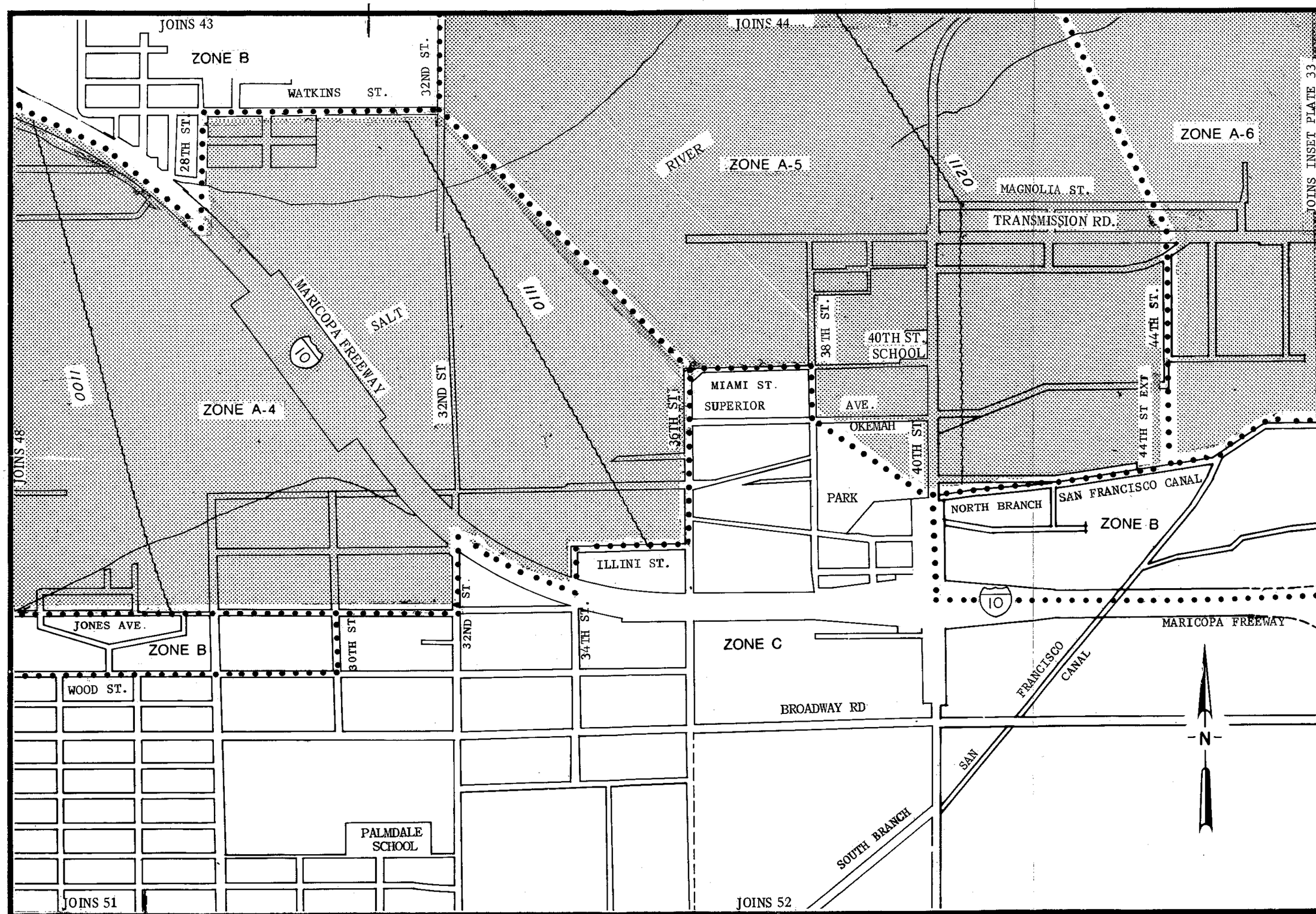
FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA

48

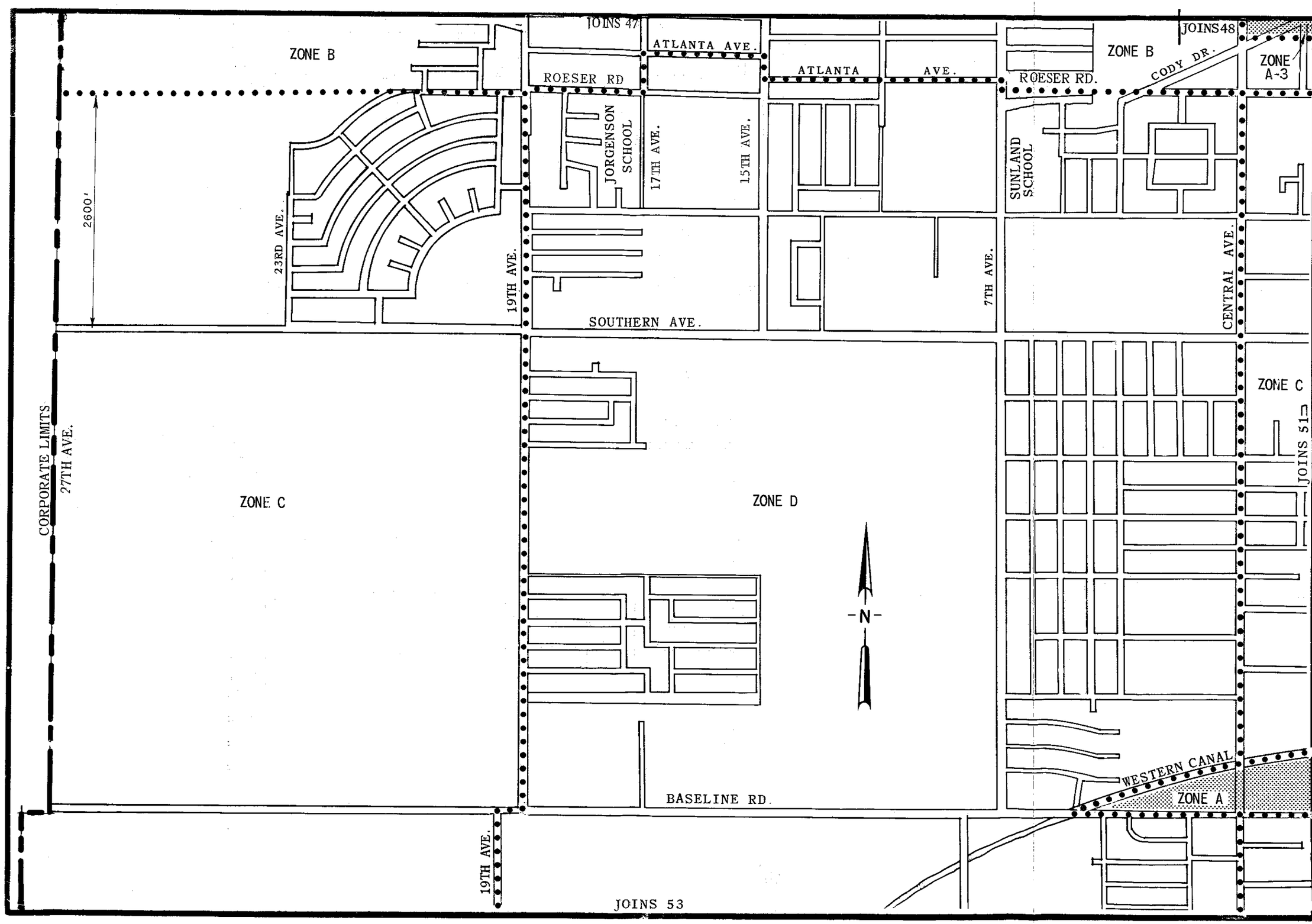


Effective Date :

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



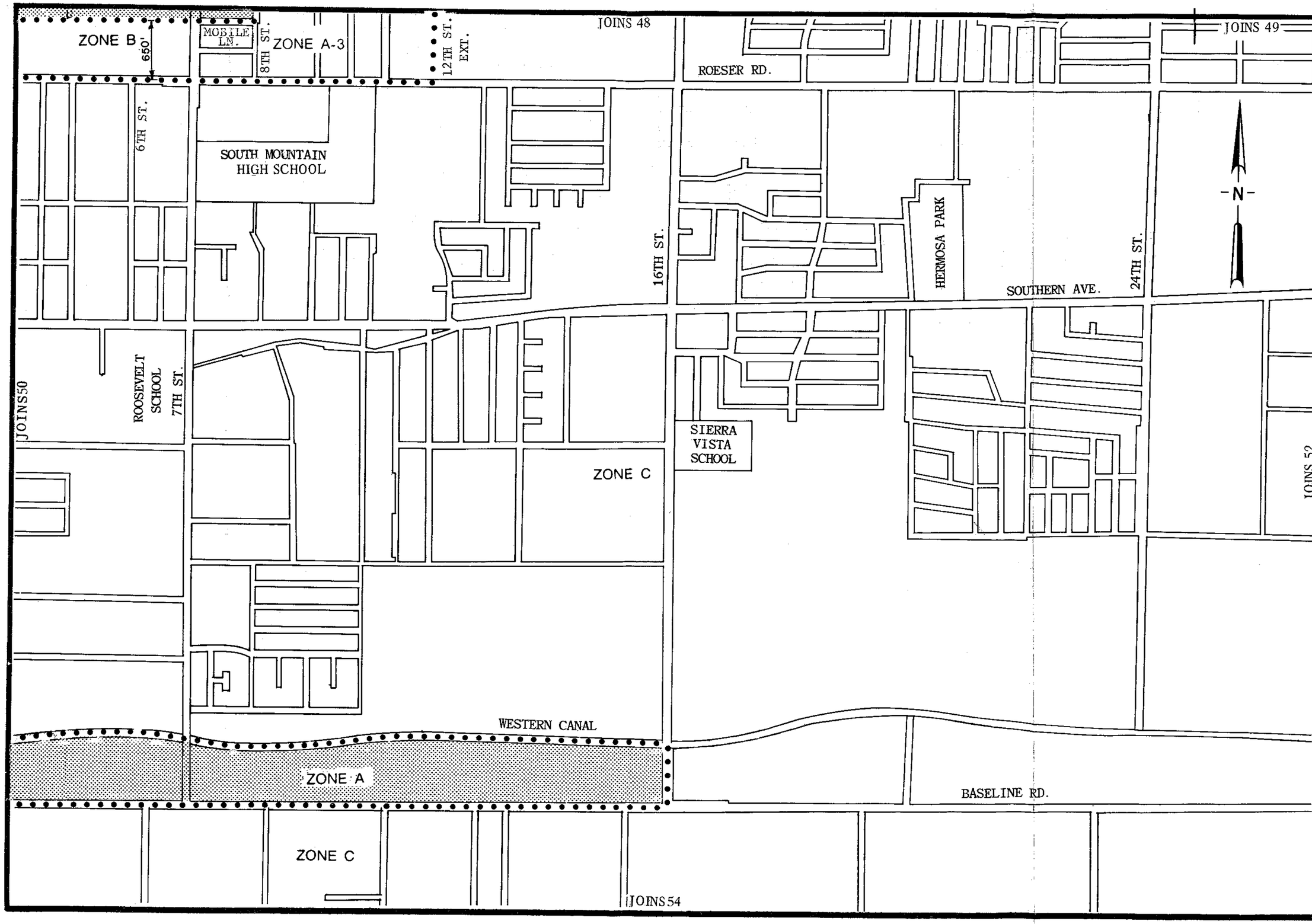
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



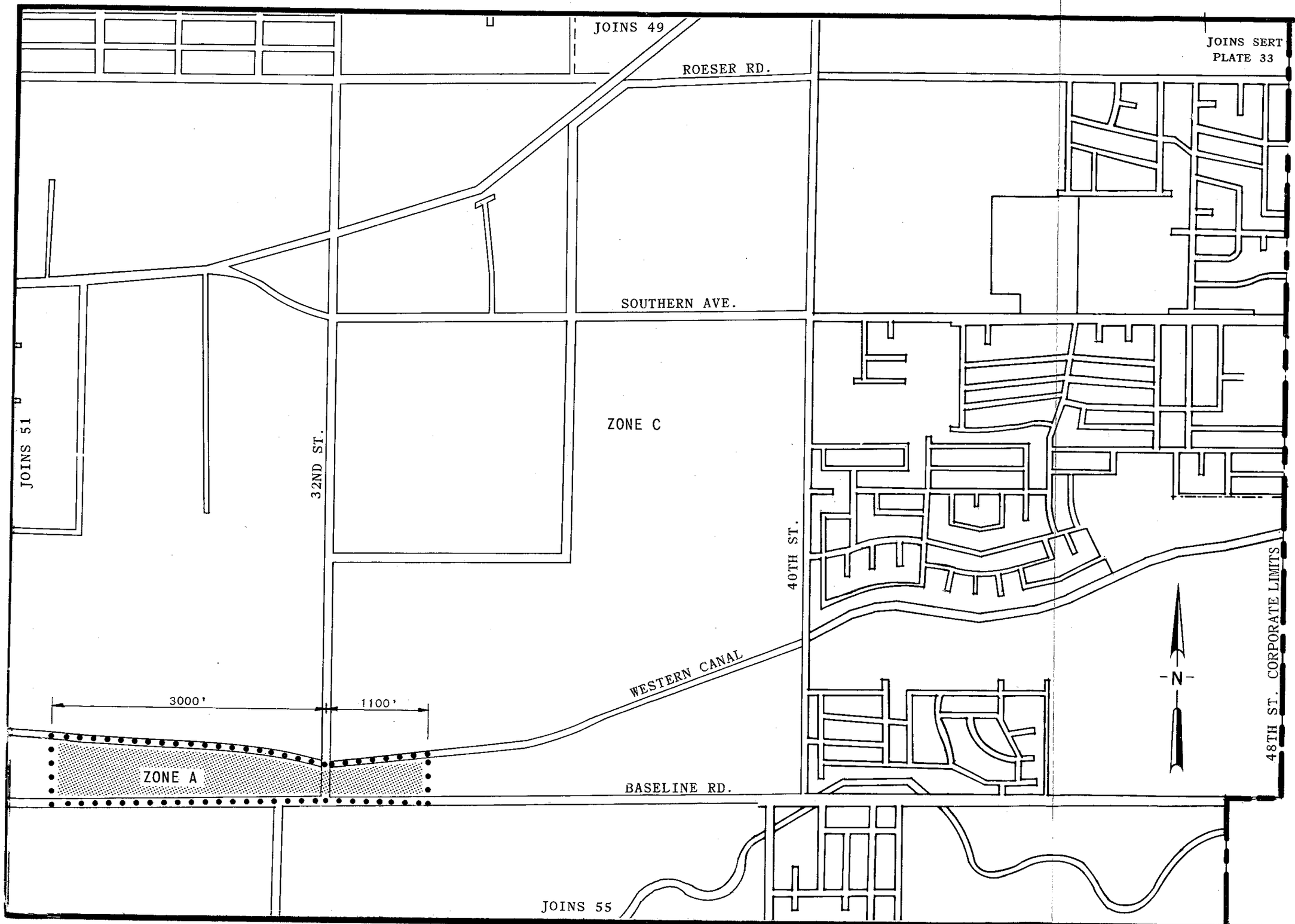
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



APPROXIMATE SCALE
1000 0 1000 FEET

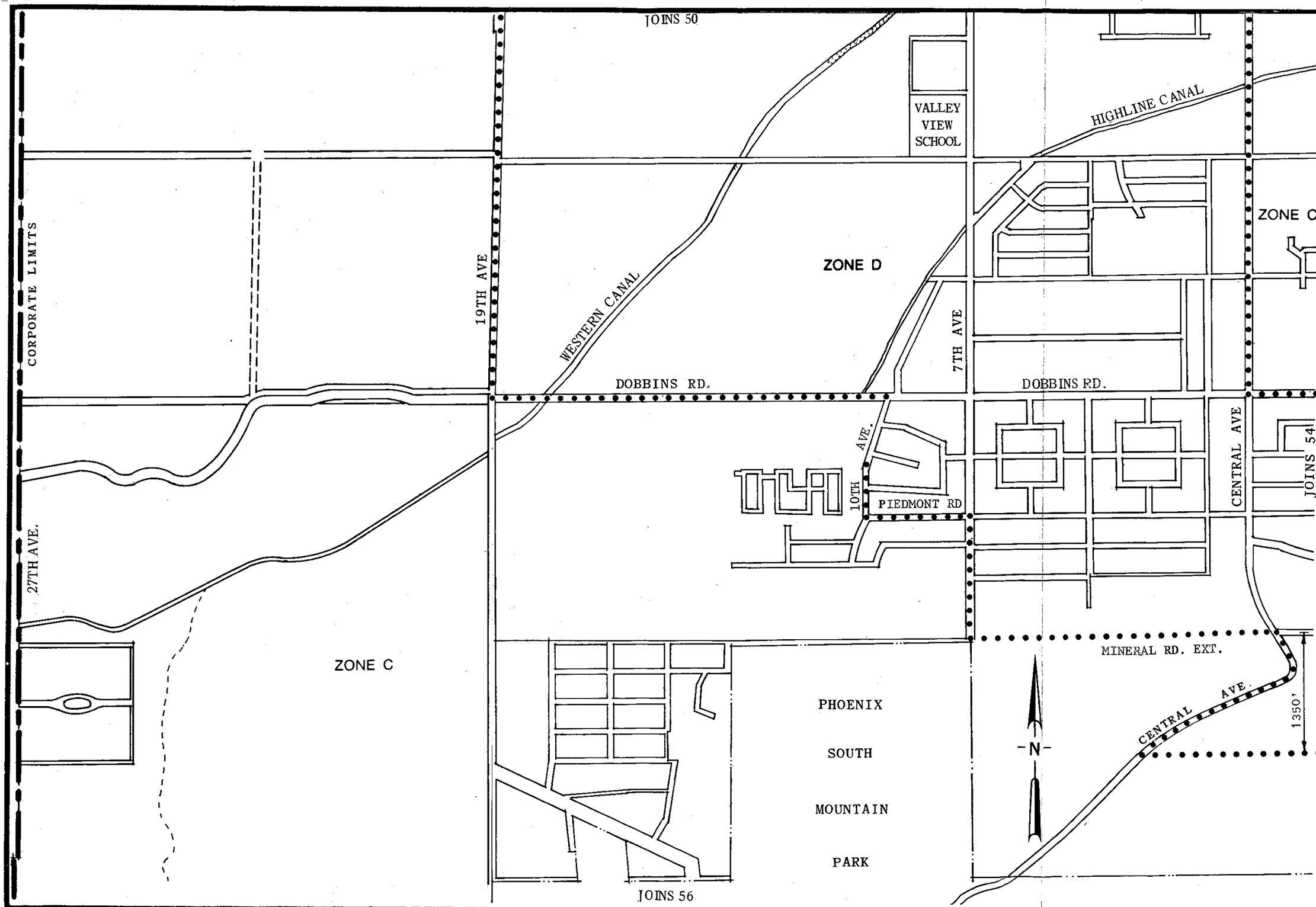
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



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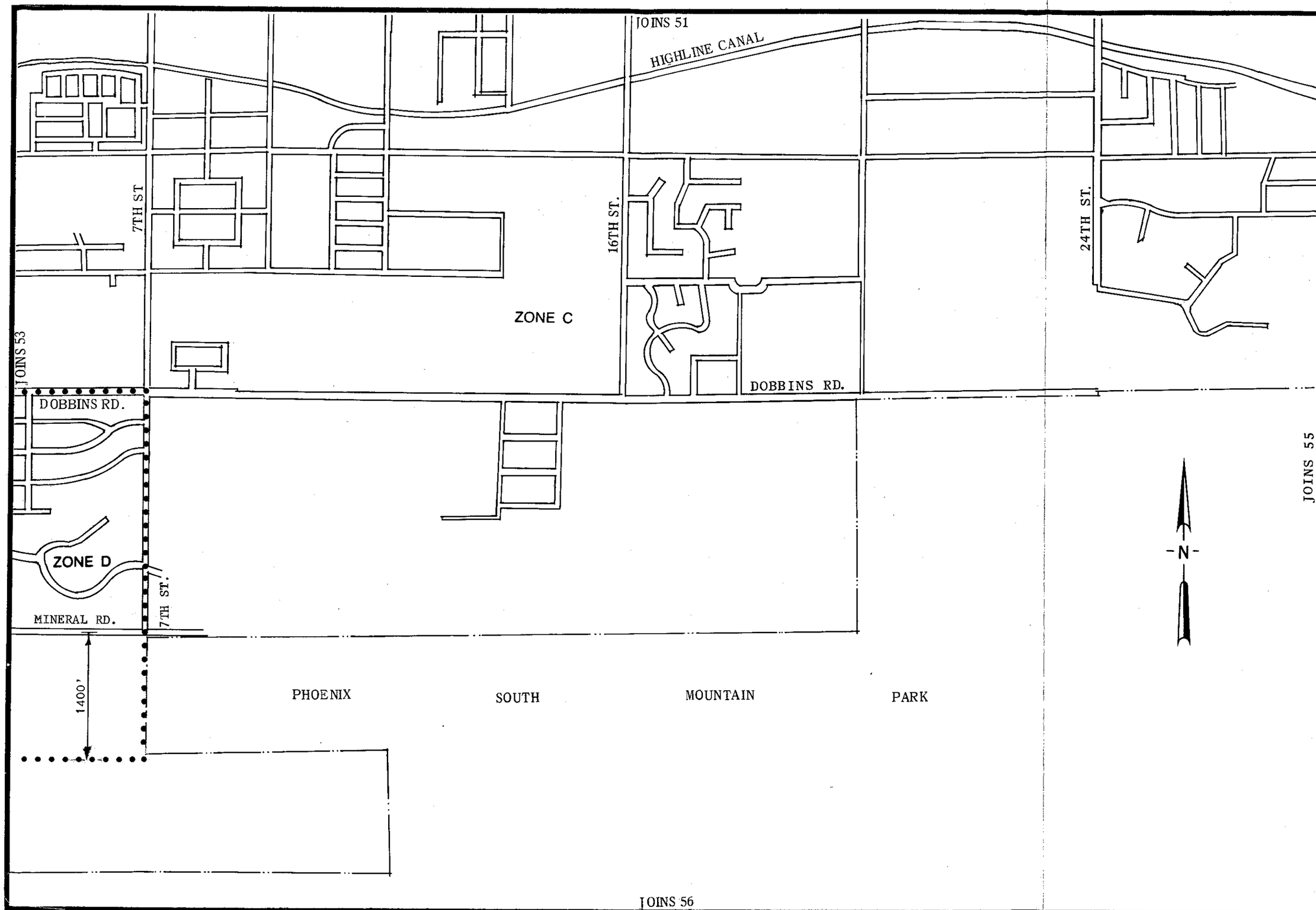
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



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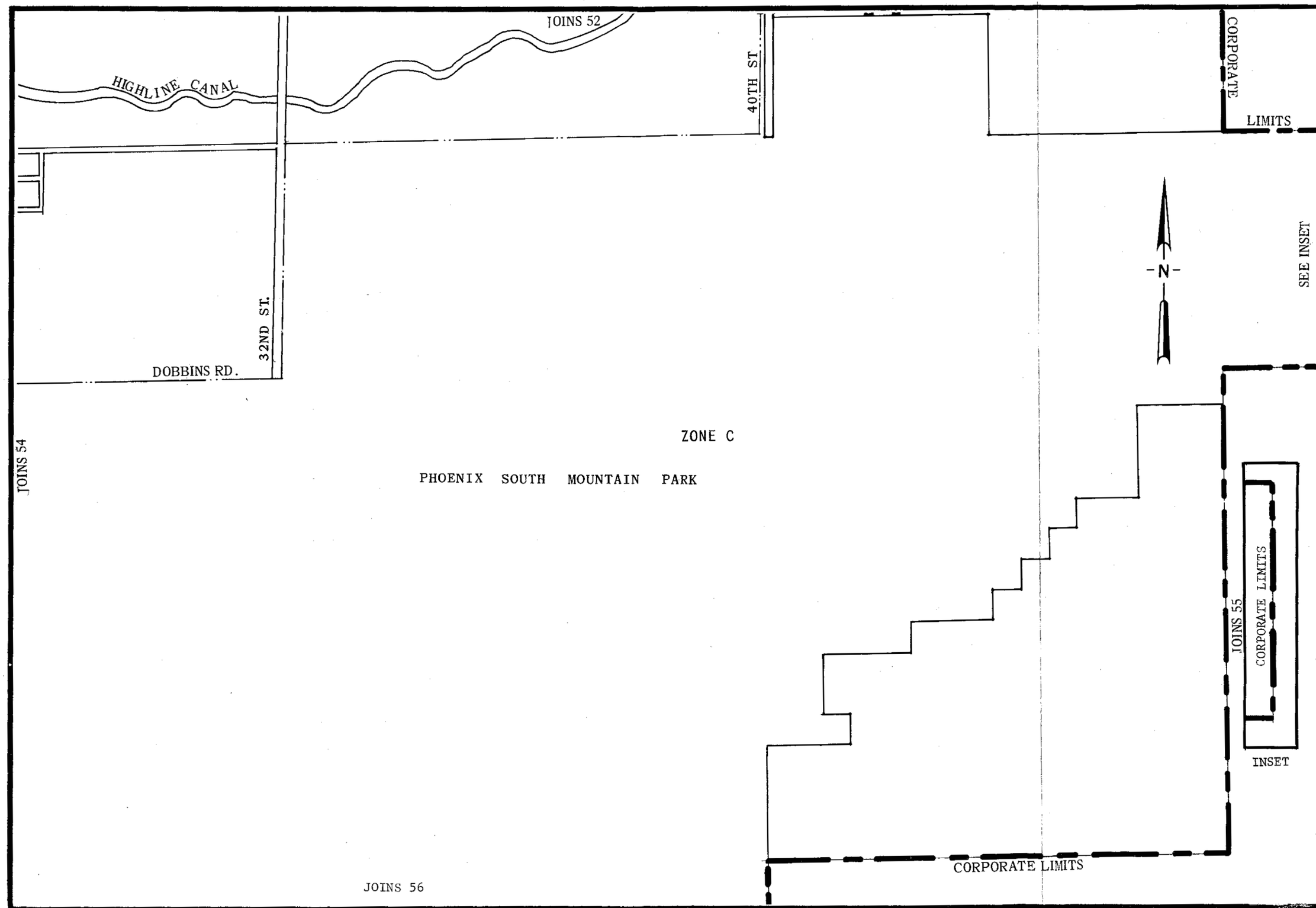
PHOENIX, ARIZONA



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FIA FLOOD INSURANCE RATE MAP

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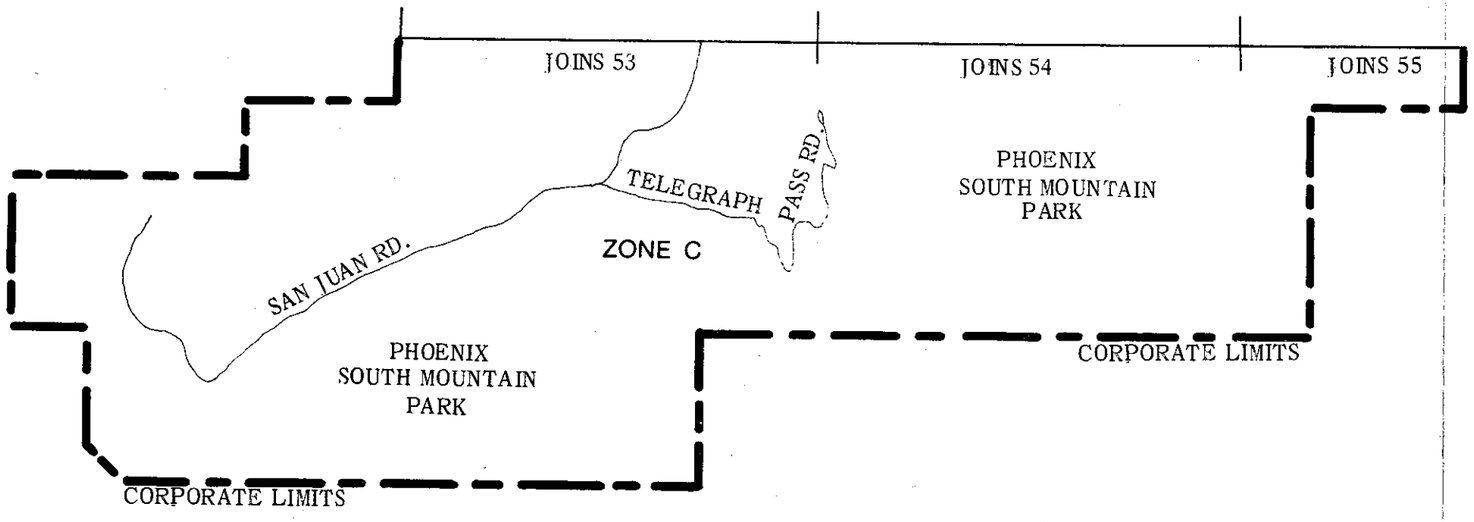
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



N

APPROXIMATE SCALE
1/4 1/2 0 1 MILE

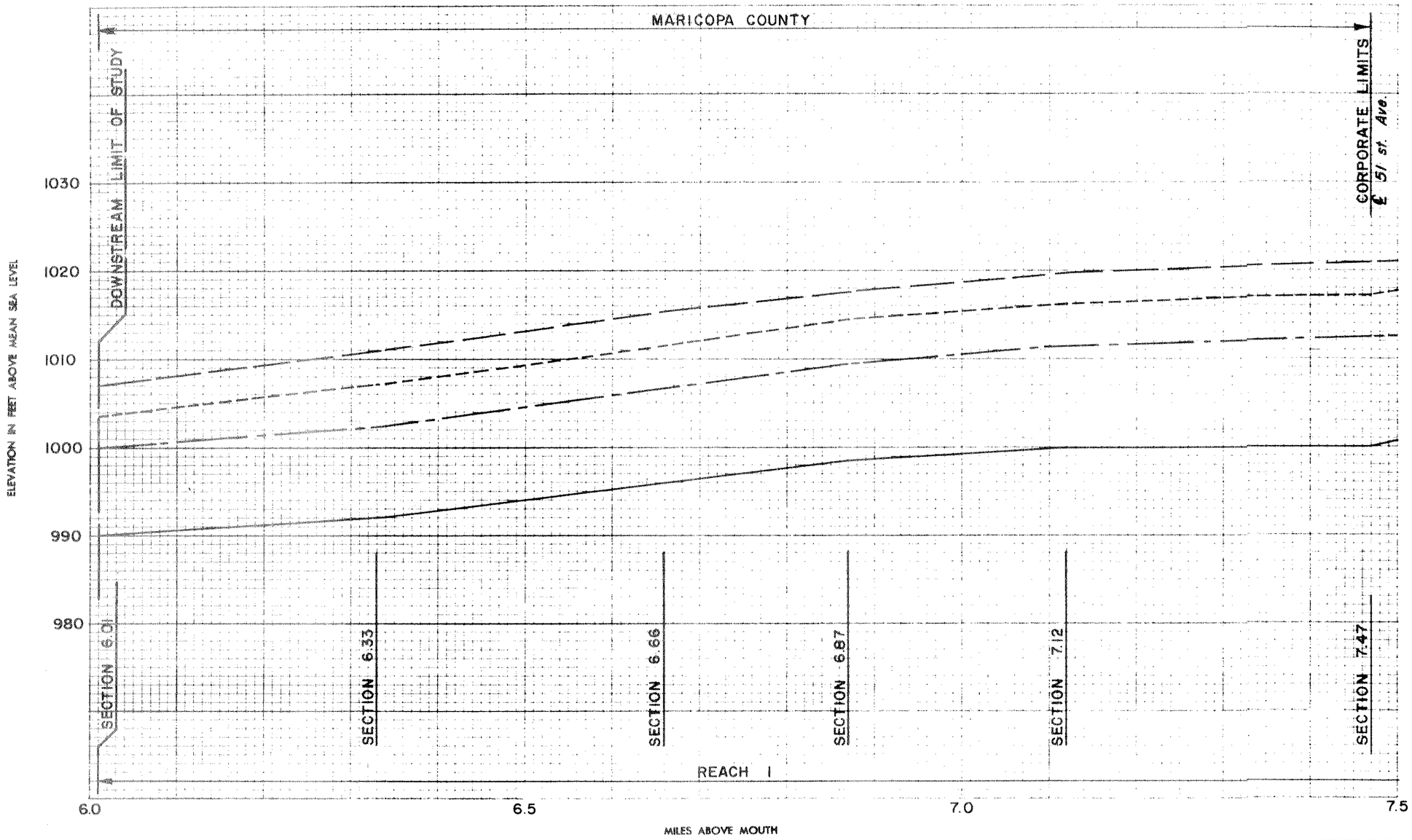
Effective Date :

FIA FLOOD INSURANCE RATE MAP

FIA FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration

PHOENIX, ARIZONA



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

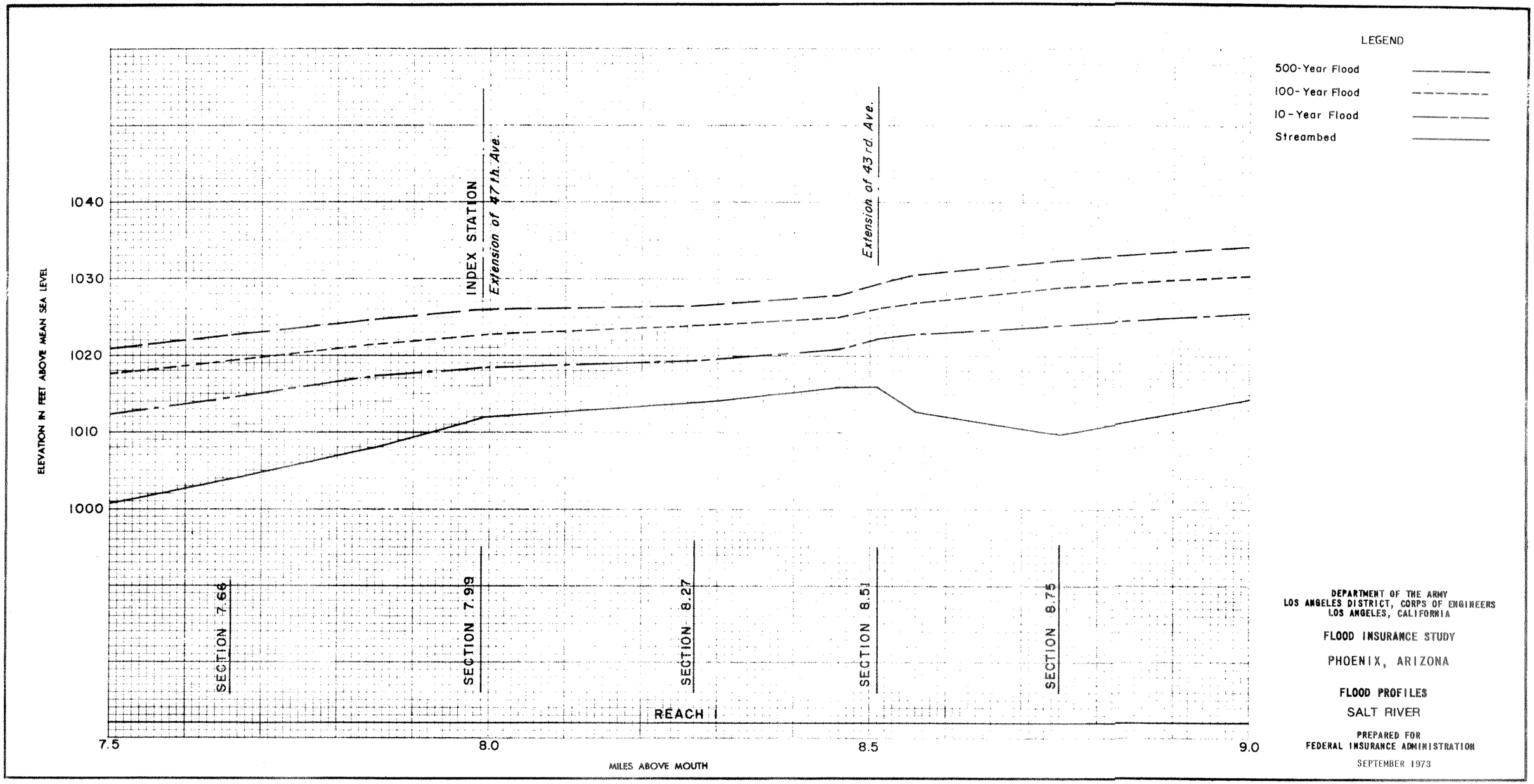
PHOENIX, ARIZONA

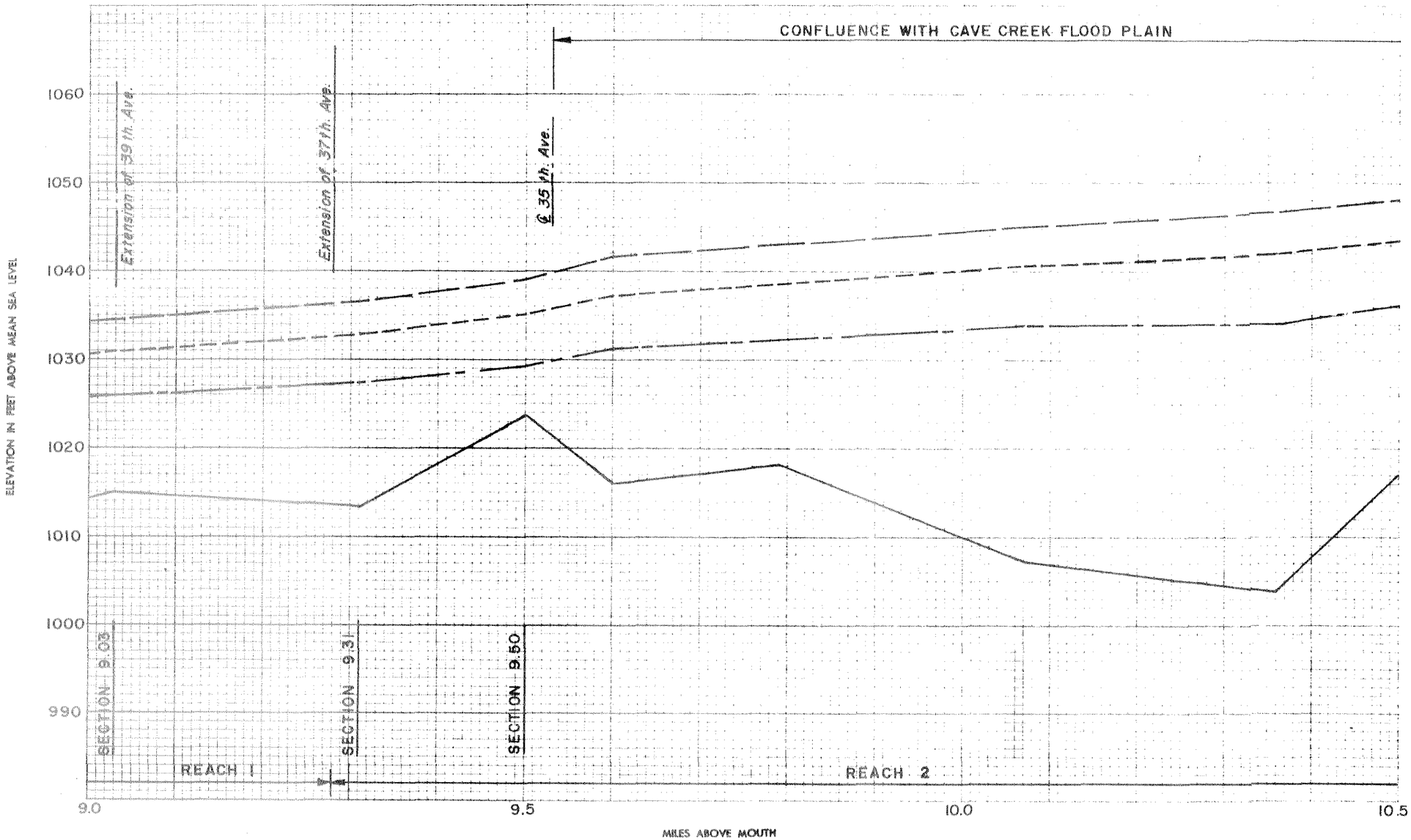
FLOOD PROFILES

SALT RIVER

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973


LEGEND
500-Year Flood
100-Year Flood
10-Year Flood
Streambed
ELEVATION IN FEET ABOVE MEAN SEA LEVEL
1040
1030
1020
1010
1000
INDEX STATION
Extension of 47th. Ave.
Extension of 43rd. Ave.
SECTION 7.66
SECTION 7.99
SECTION 8.27
SECTION 8.51
SECTION 8.75
REACH I
7.5
8.0
8.5
9.0
MILES ABOVE MOUTH
DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA
FLOOD INSURANCE STUDY
PHOENIX, ARIZONA
FLOOD PROFILES
SALT RIVER
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

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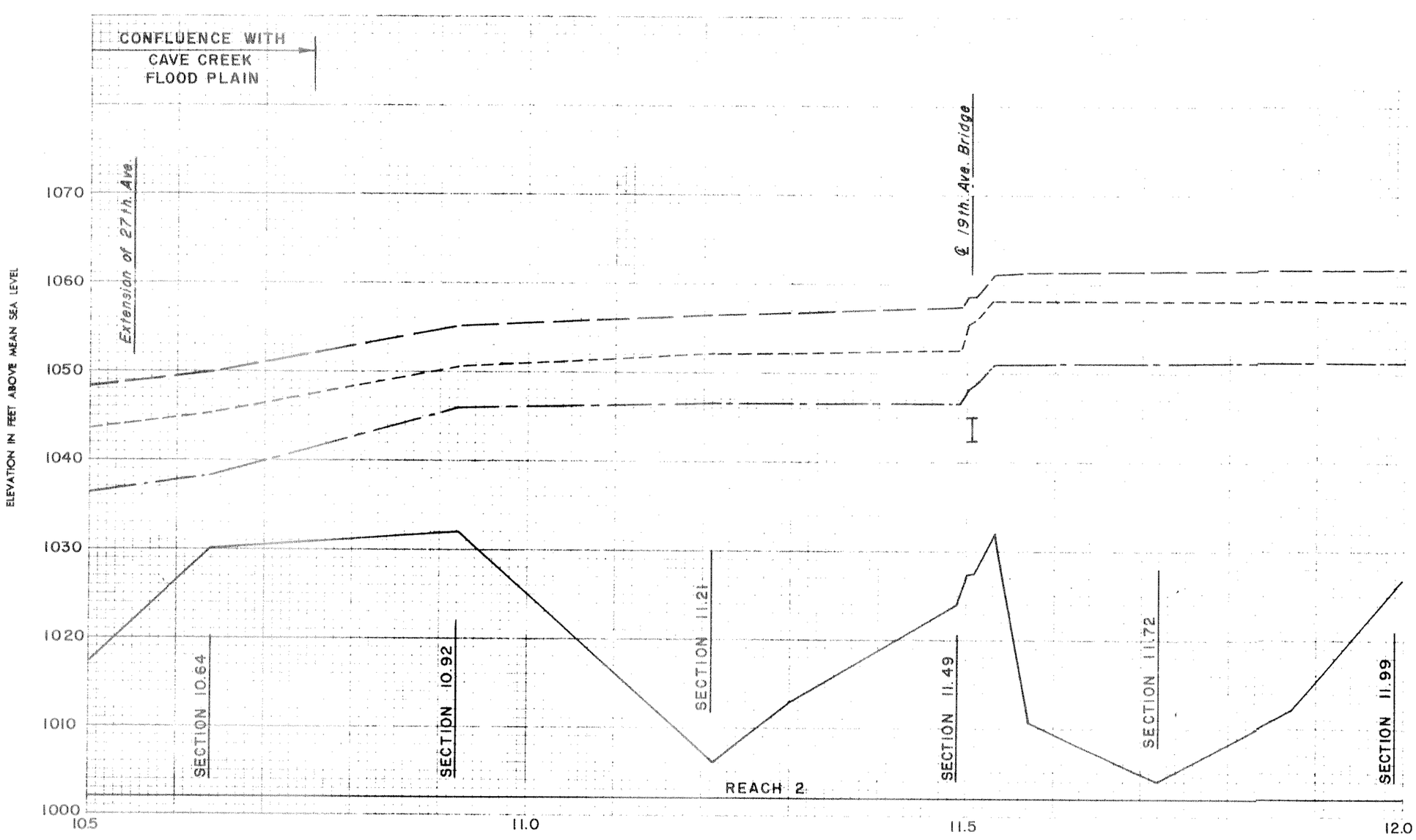

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

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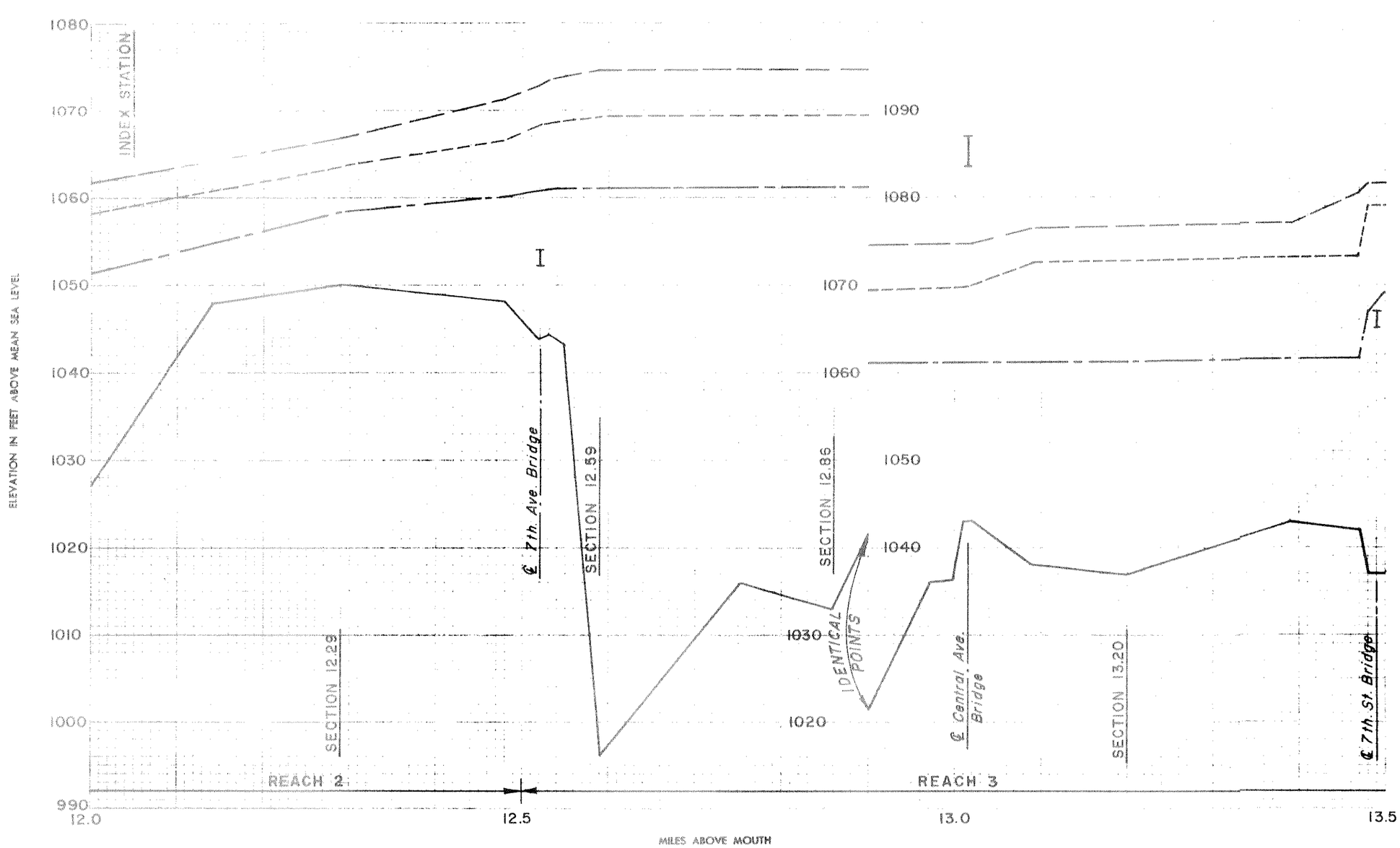

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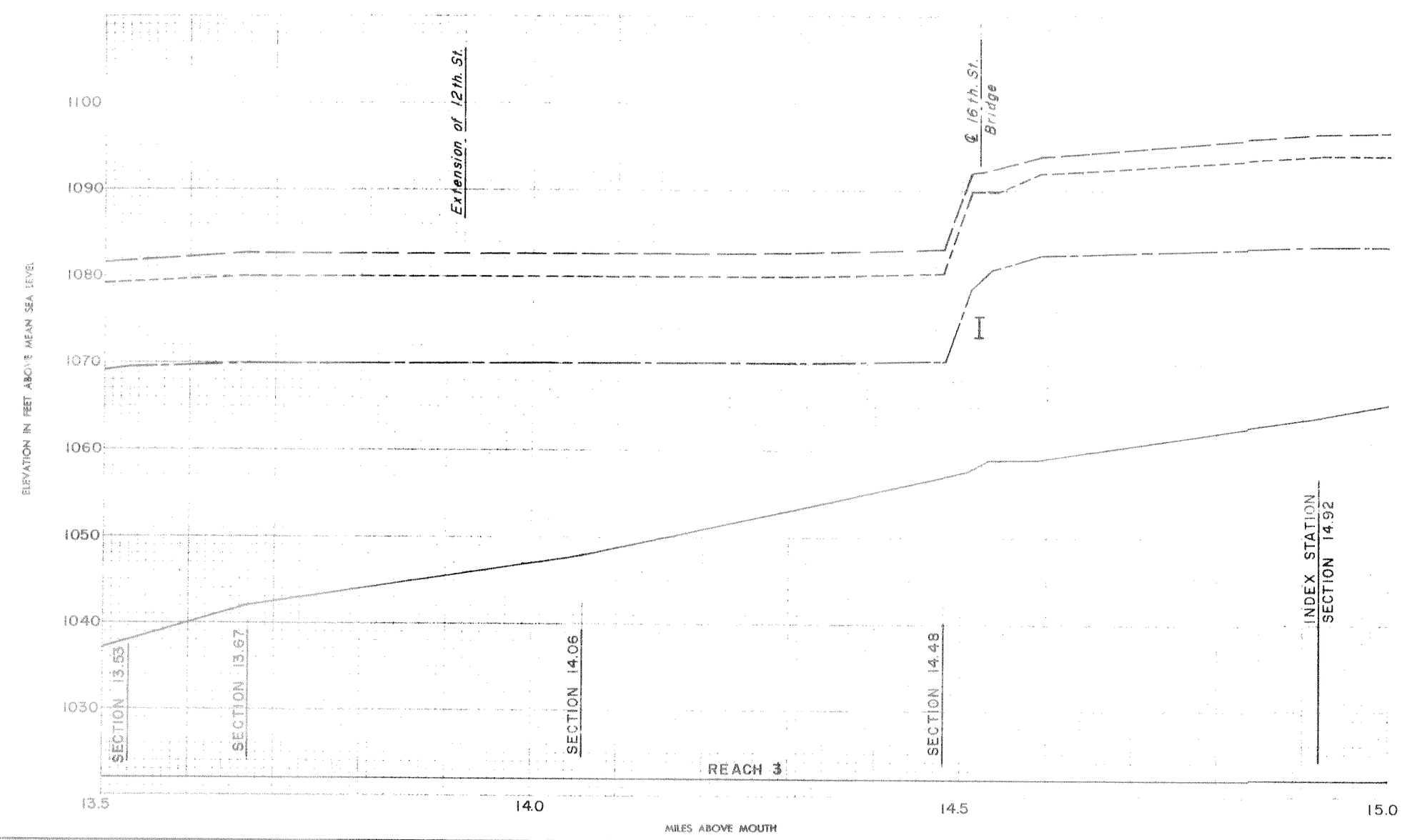

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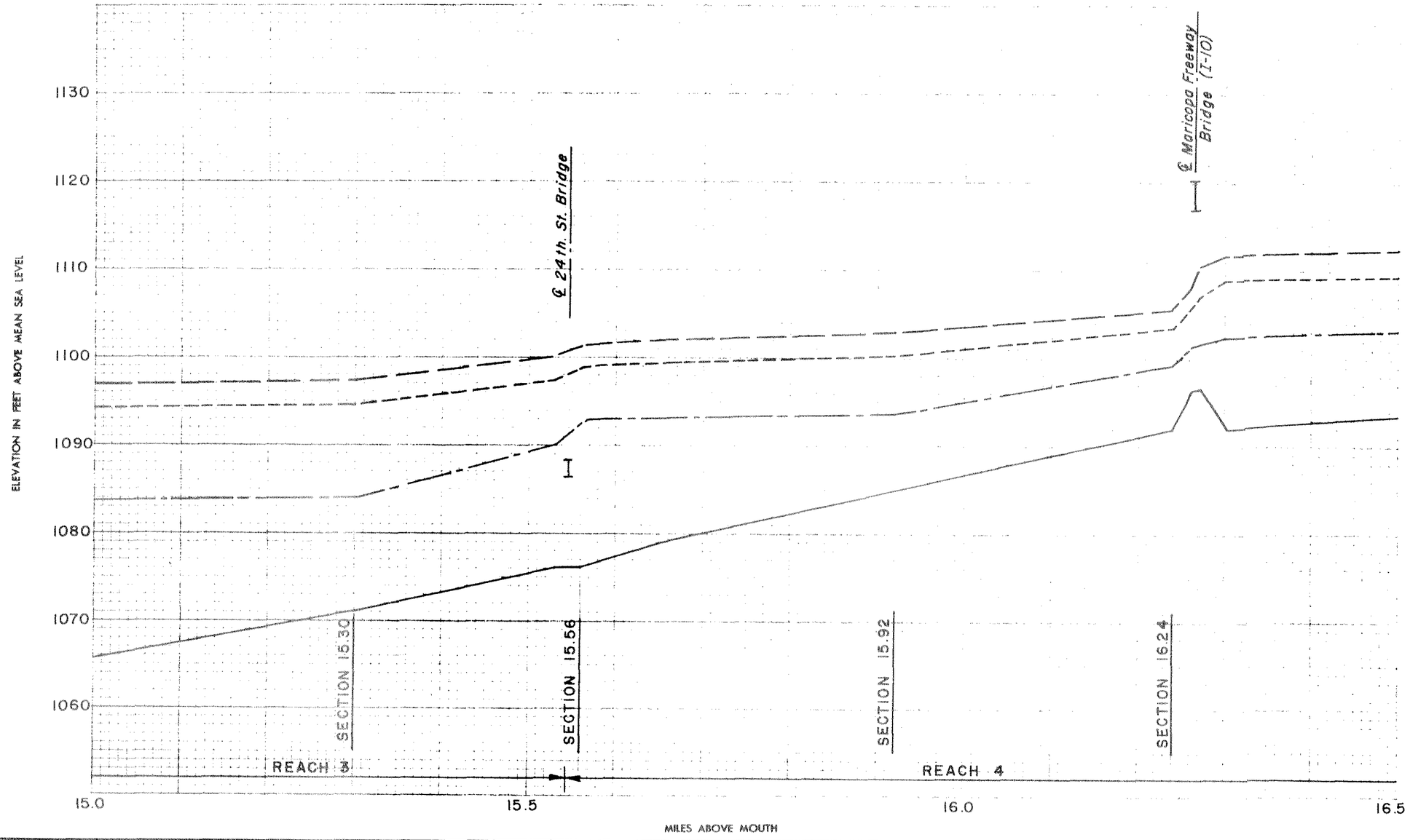

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

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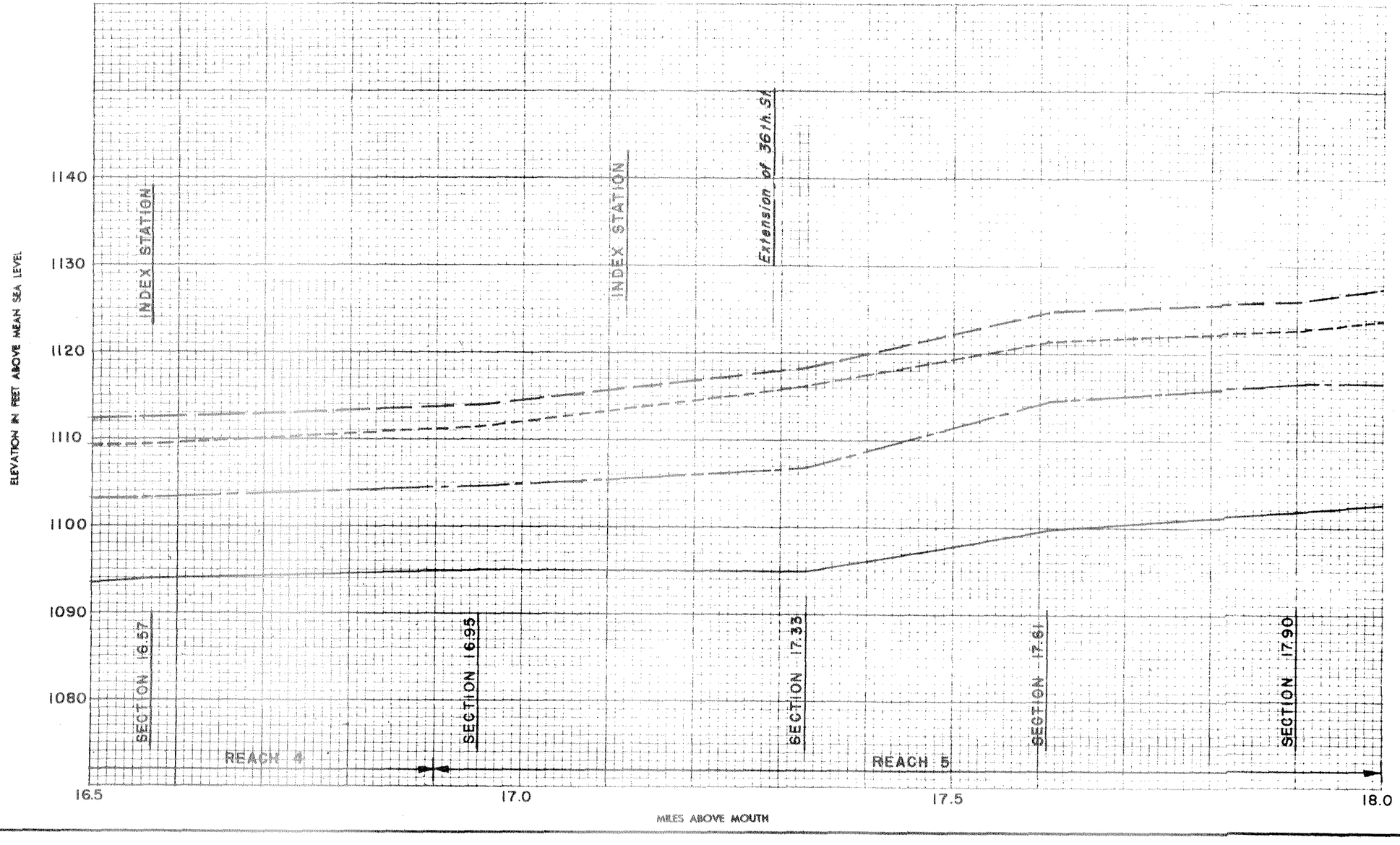

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

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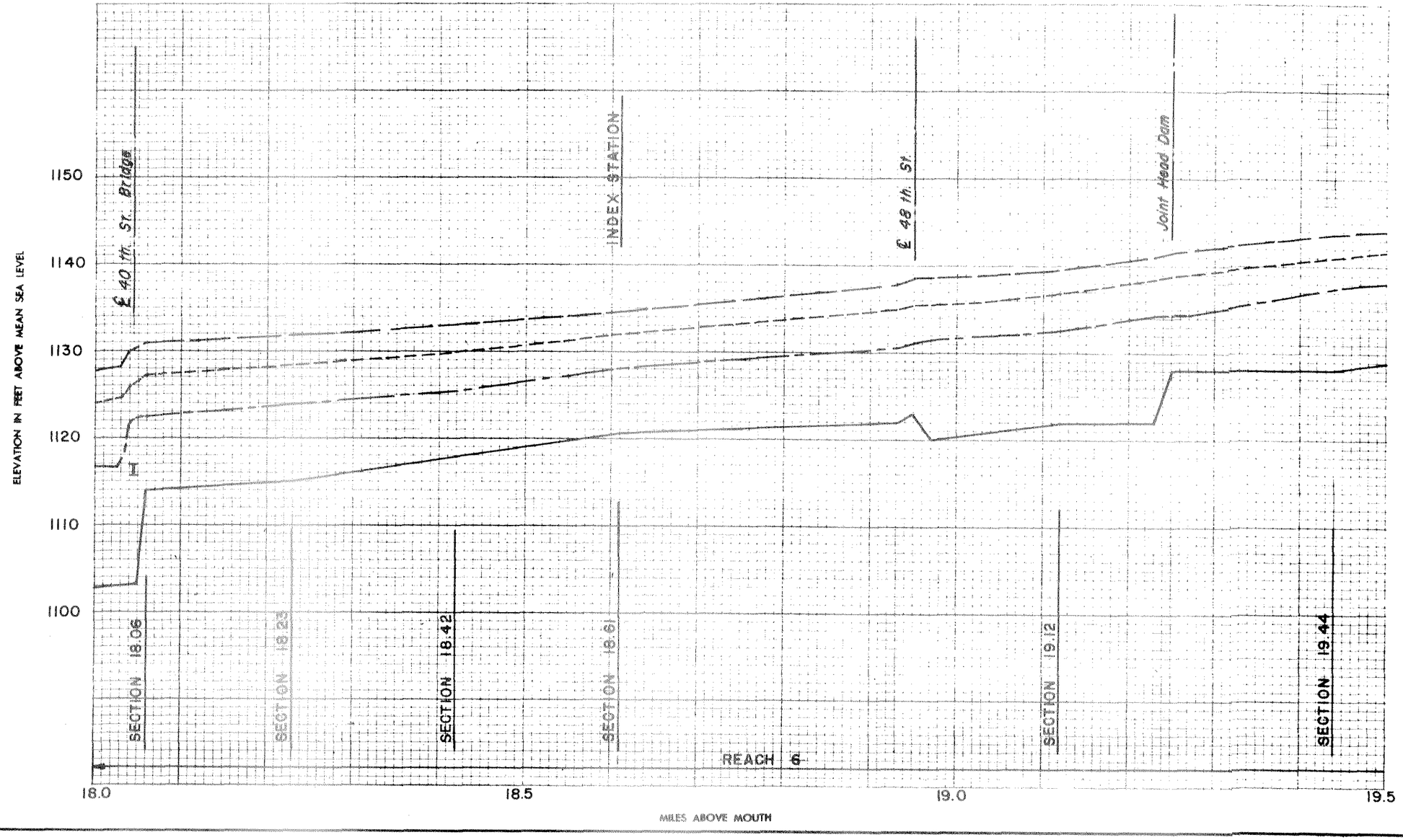

LEGEND

500-Year Flood

100-Year Flood

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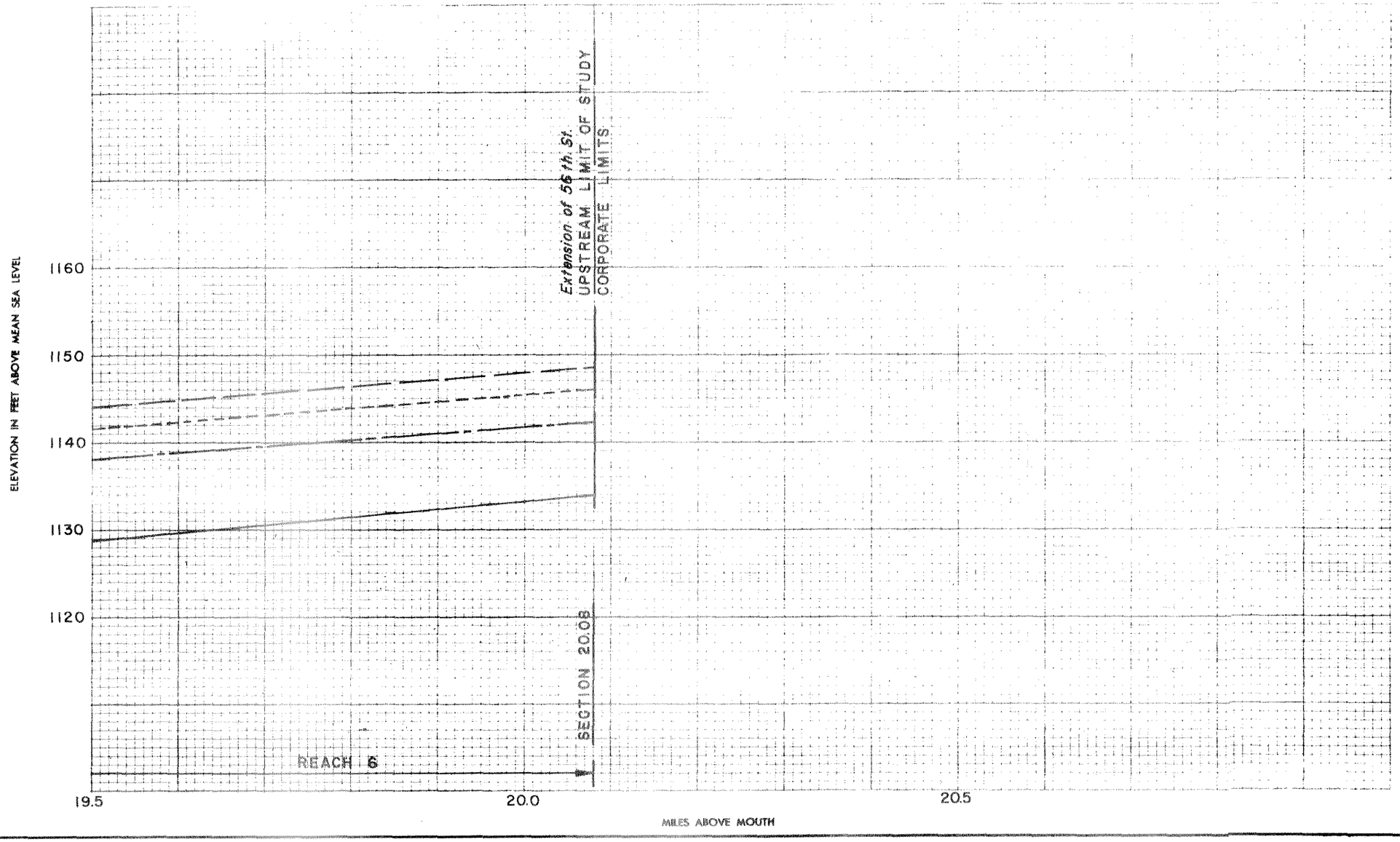

LEGEND

500-Year Flood

100-Year Flood

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Streambed

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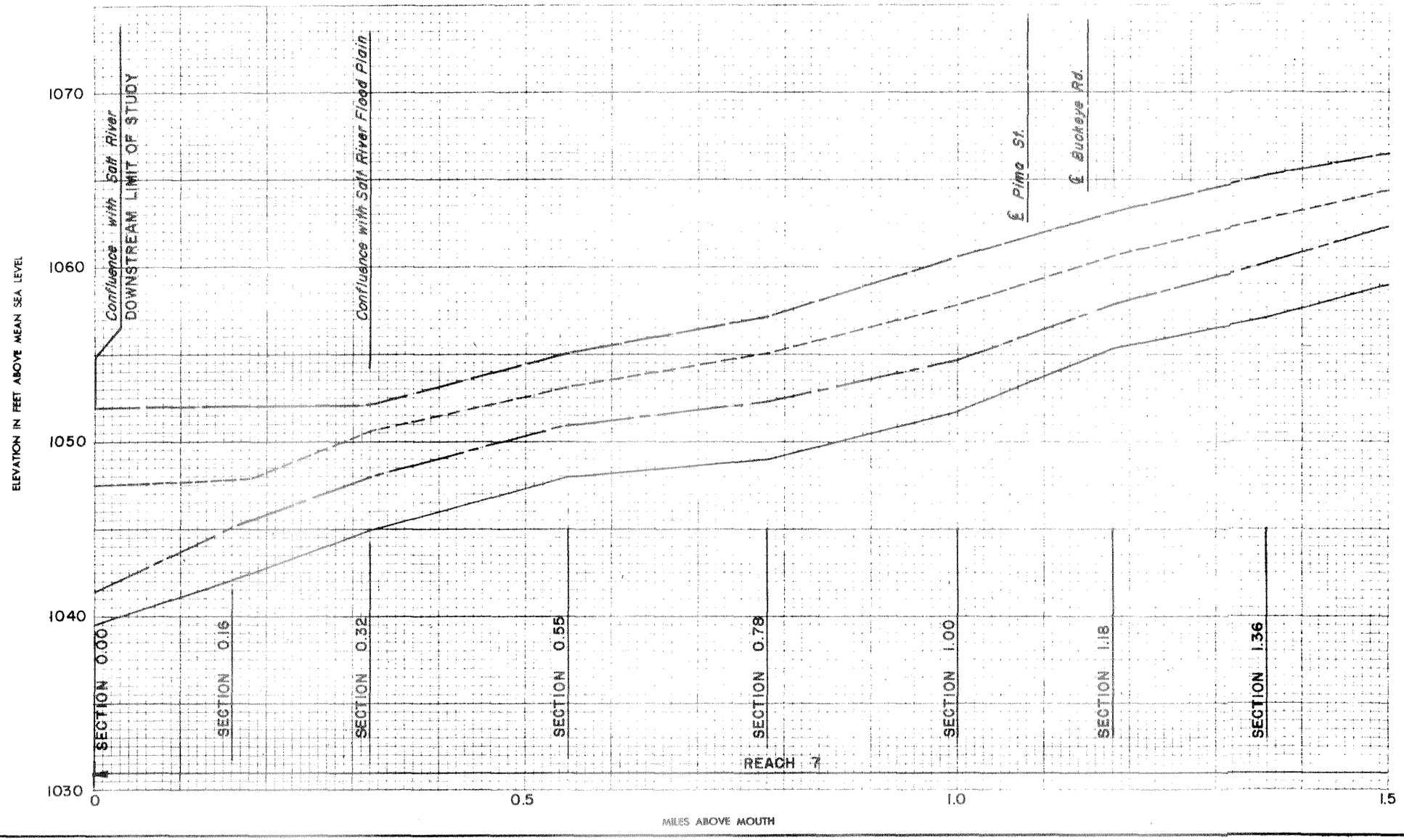

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

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CAVE CREEK

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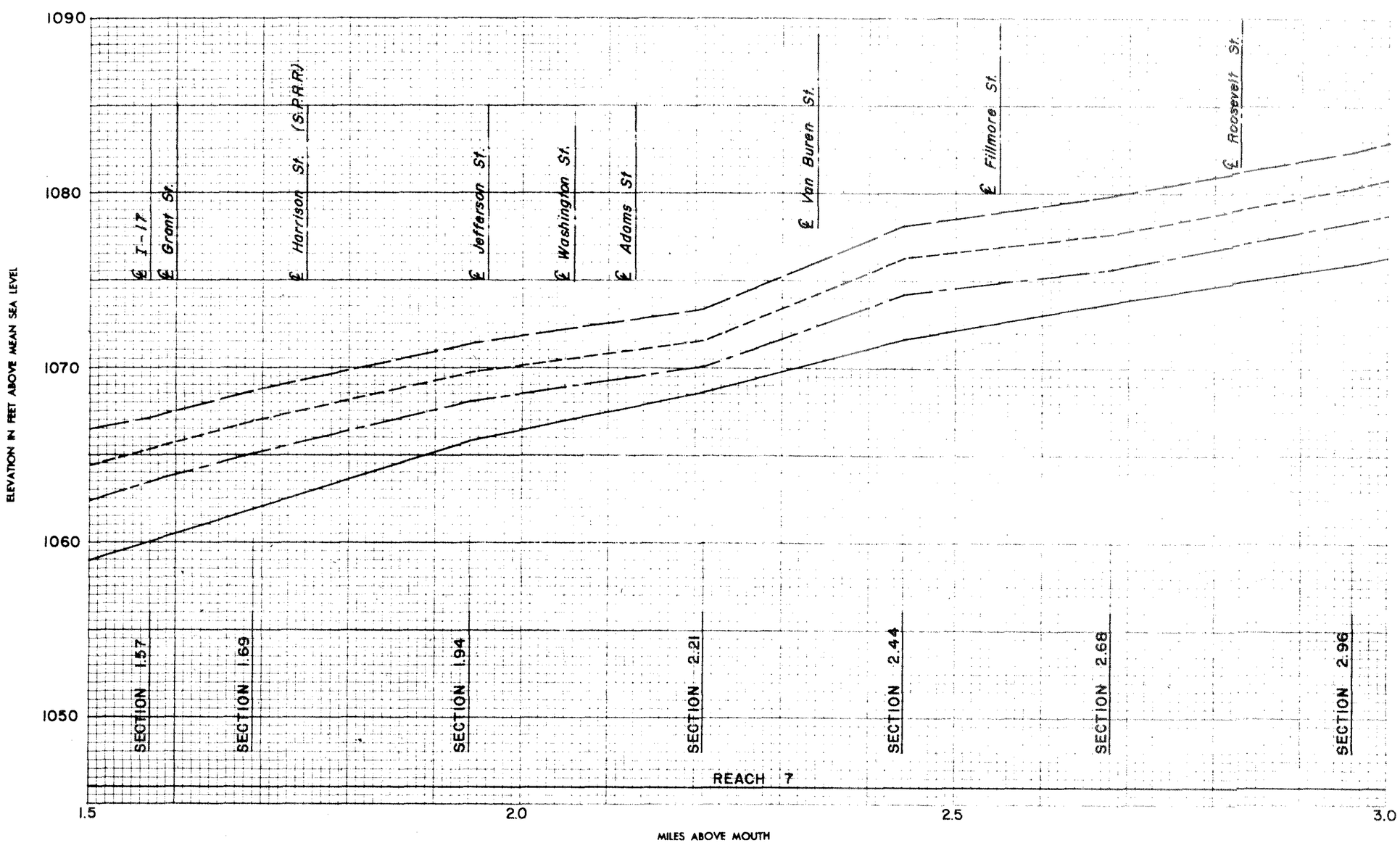

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

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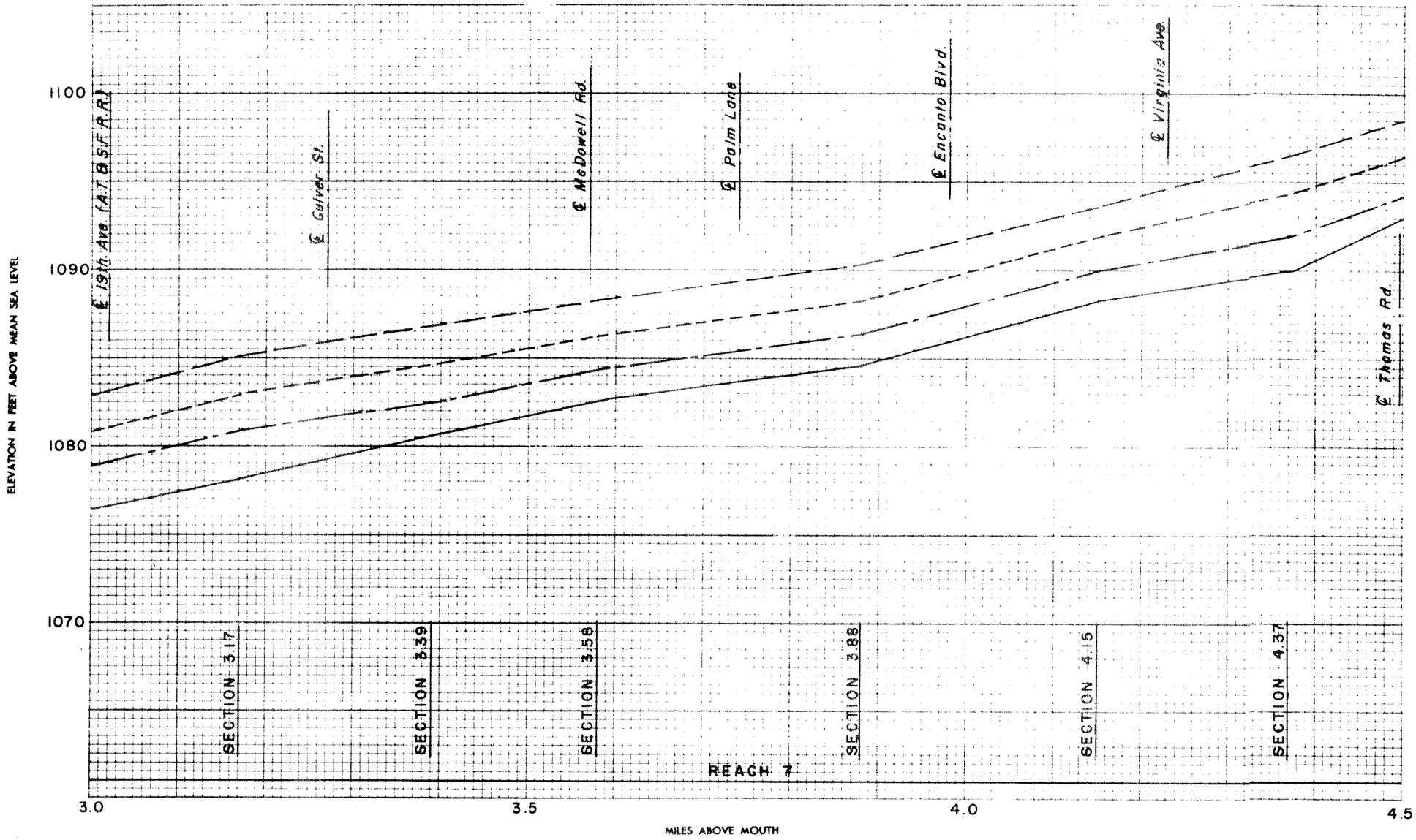

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

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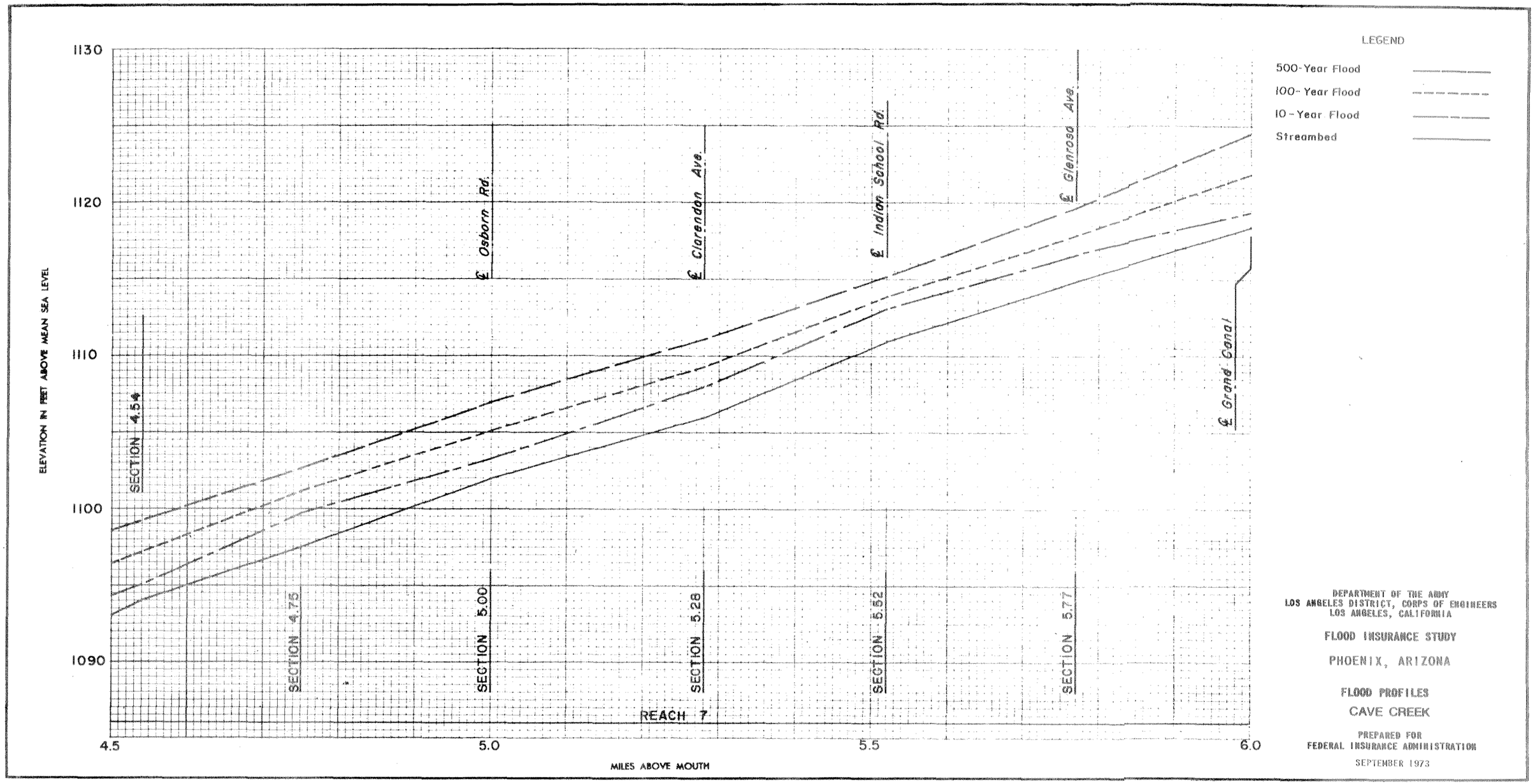
LEGEND
500-Year Flood
100-Year Flood
10-Year Flood
Streambed
1130
1120
1110
1100
1090
ELEVATION IN FEET ABOVE MEAN SEA LEVEL
4.5
5.0
5.5
6.0
MILES ABOVE MOUTH
SECTION 4.54
SECTION 4.75
SECTION 5.00
SECTION 5.28
SECTION 5.52
SECTION 5.77
REACH 7
℄ Osborn Rd.
℄ Clarendon Ave.
℄ Indian School Rd.
℄ Glenrosa Ave.
℄ Grand Canal
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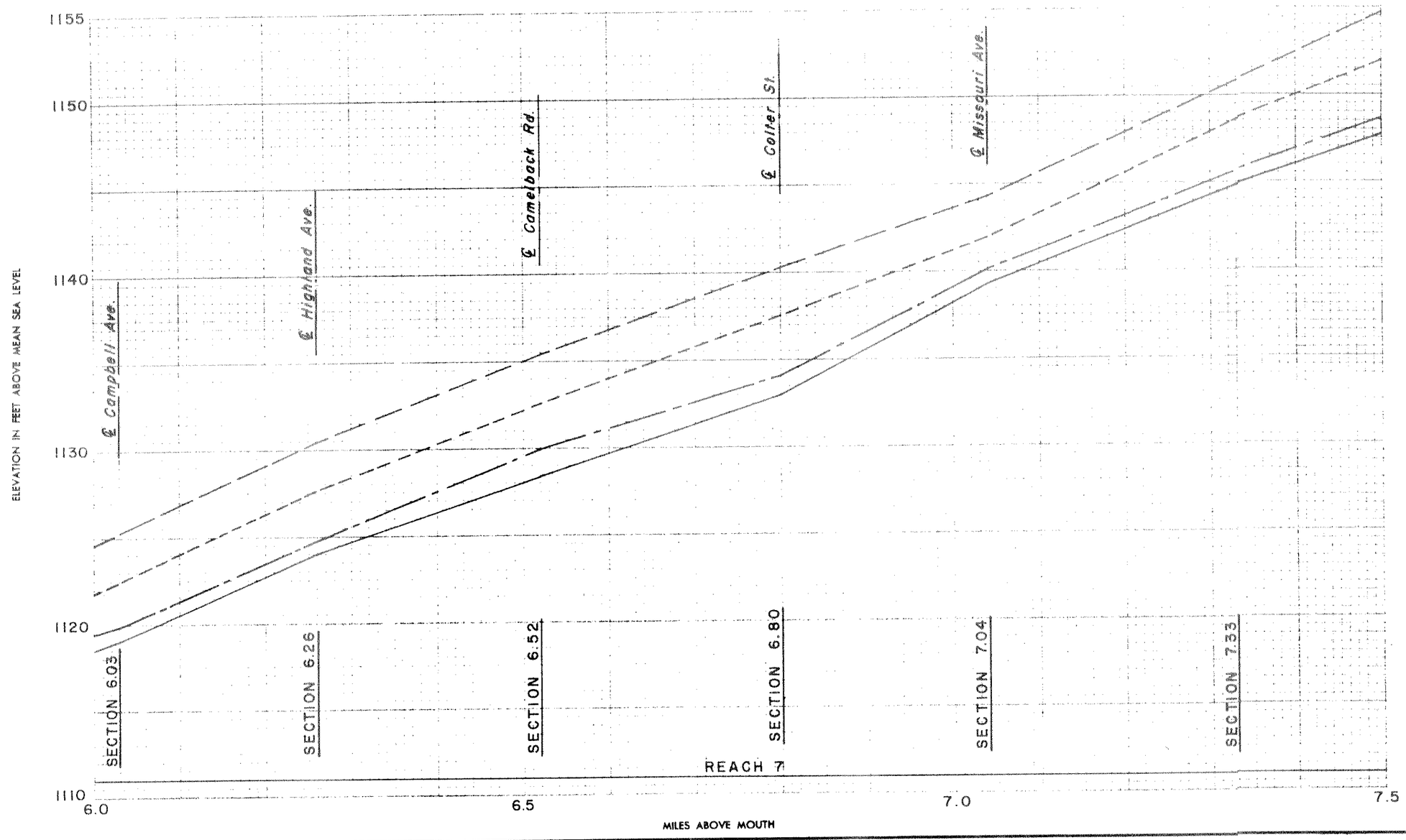

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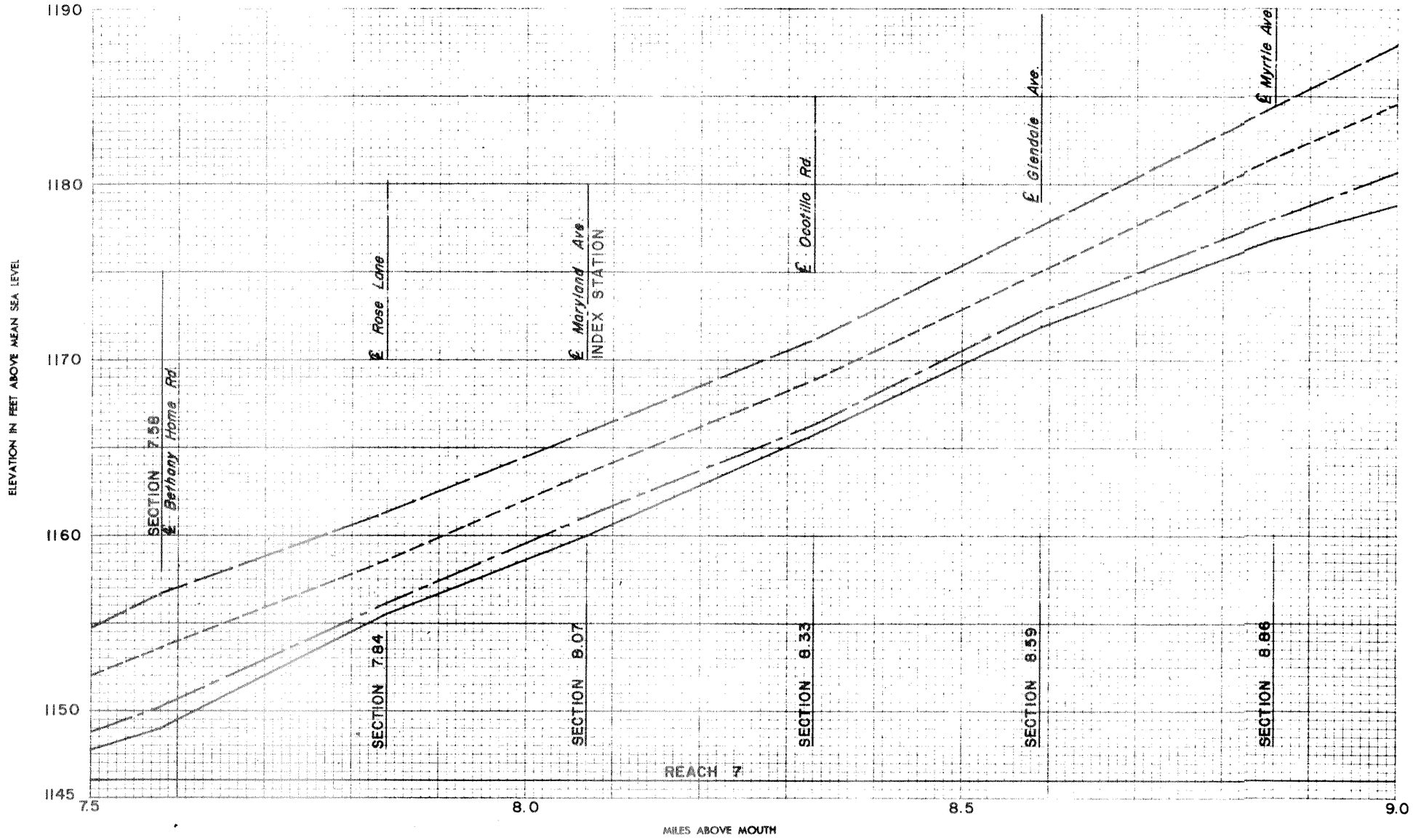

LEGEND

500-Year Flood

100-Year Flood

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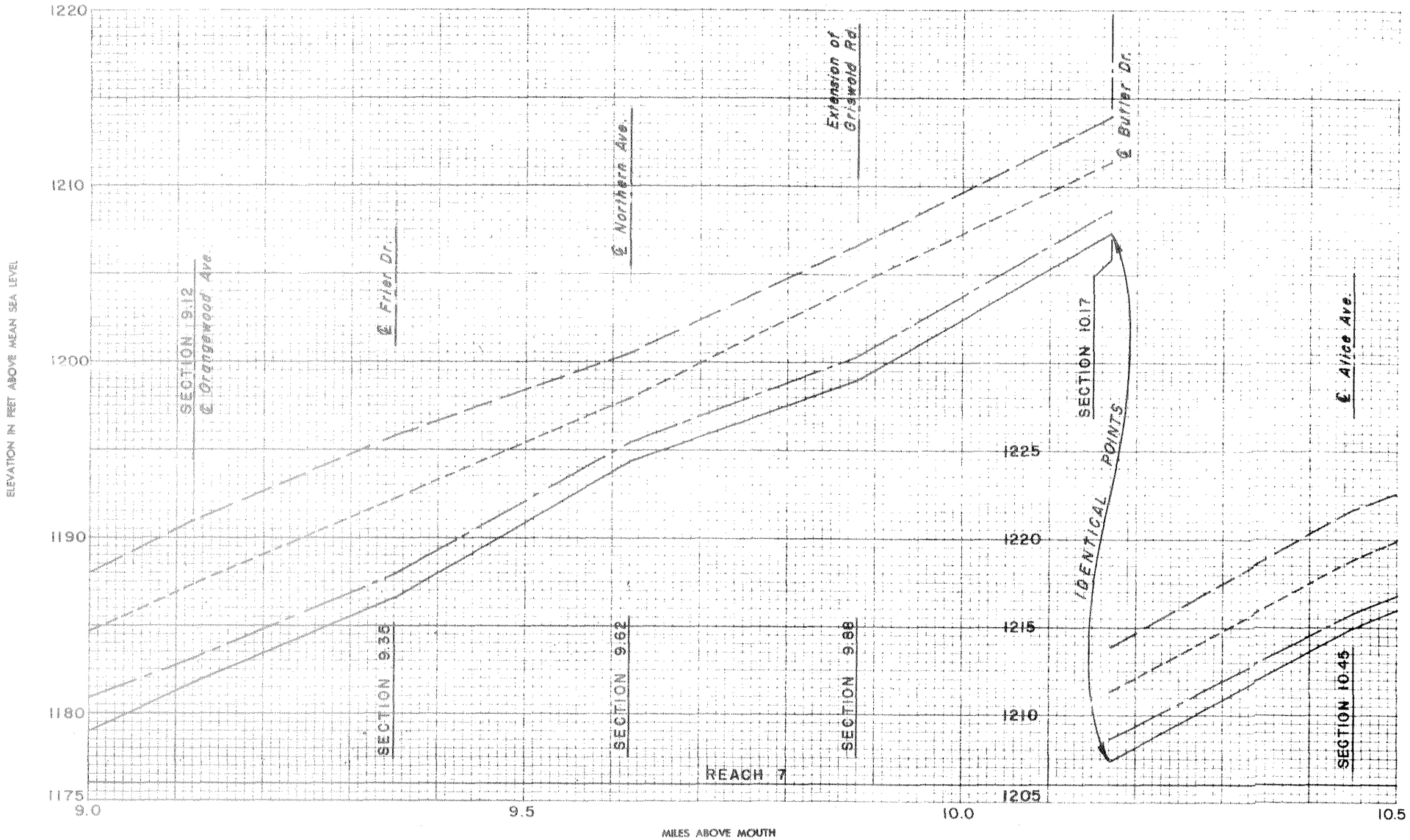

LEGEND

500-Year Flood

100-Year Flood

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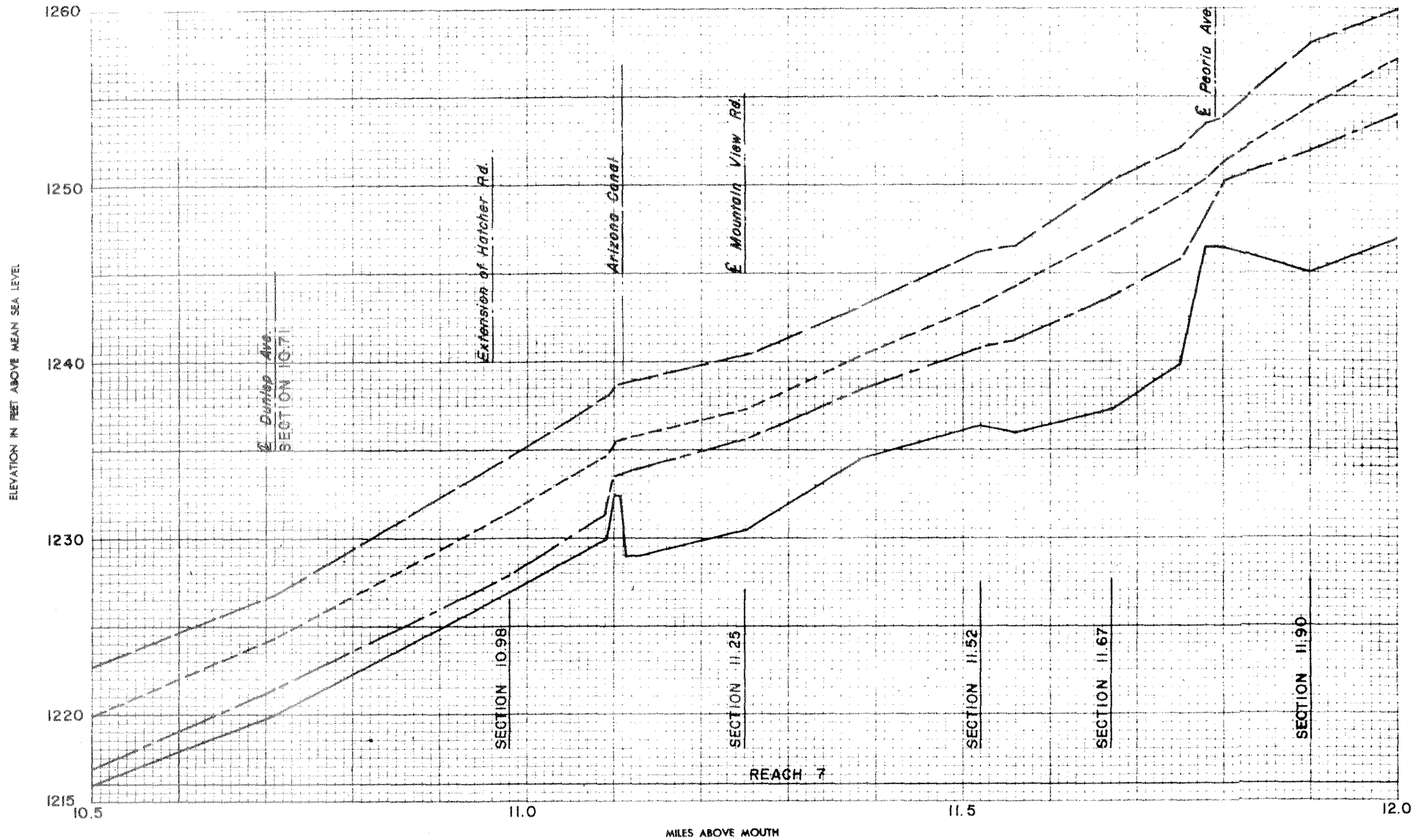

LEGEND

500-Year Flood

100-Year Flood

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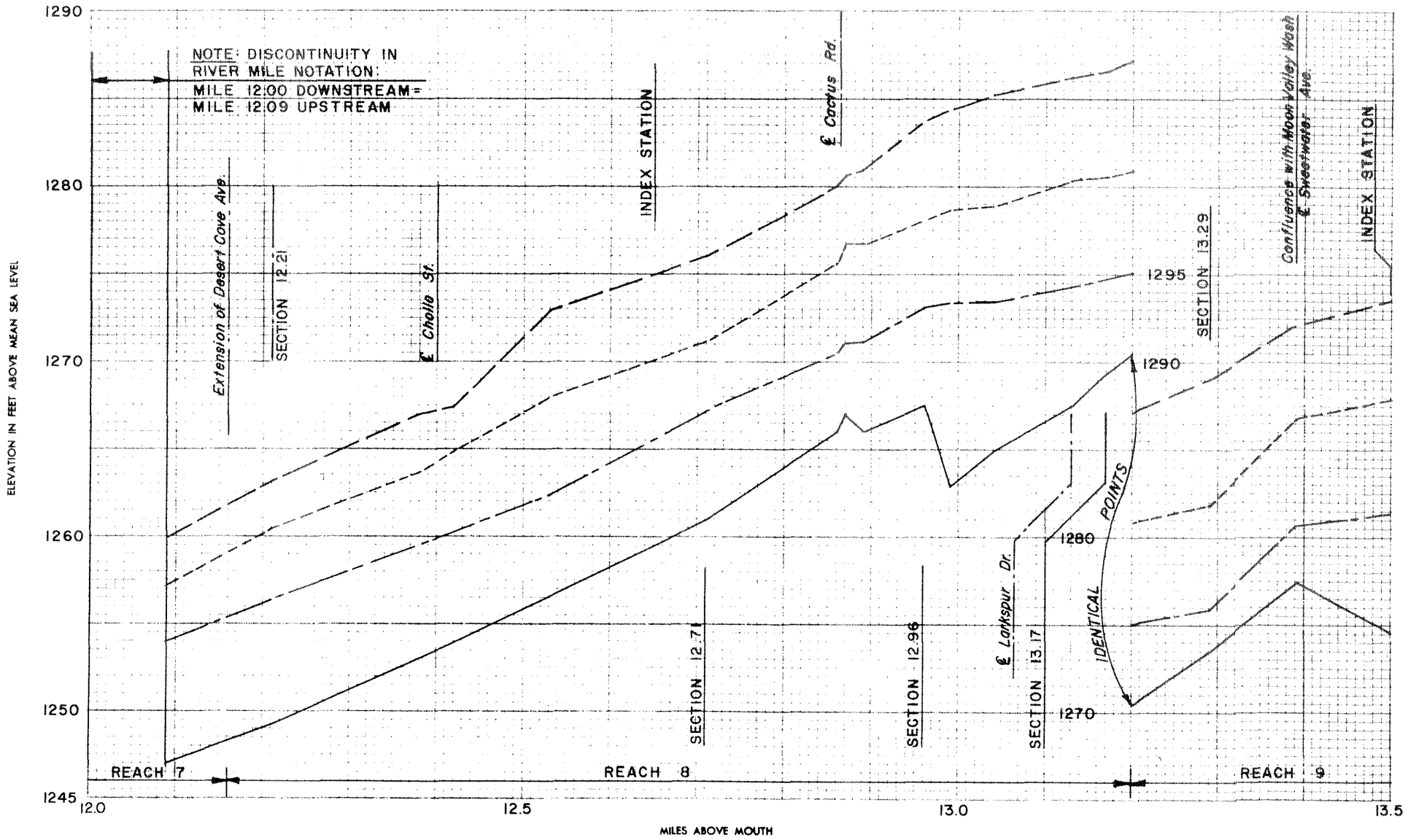

LEGEND

500-Year Flood

100-Year Flood

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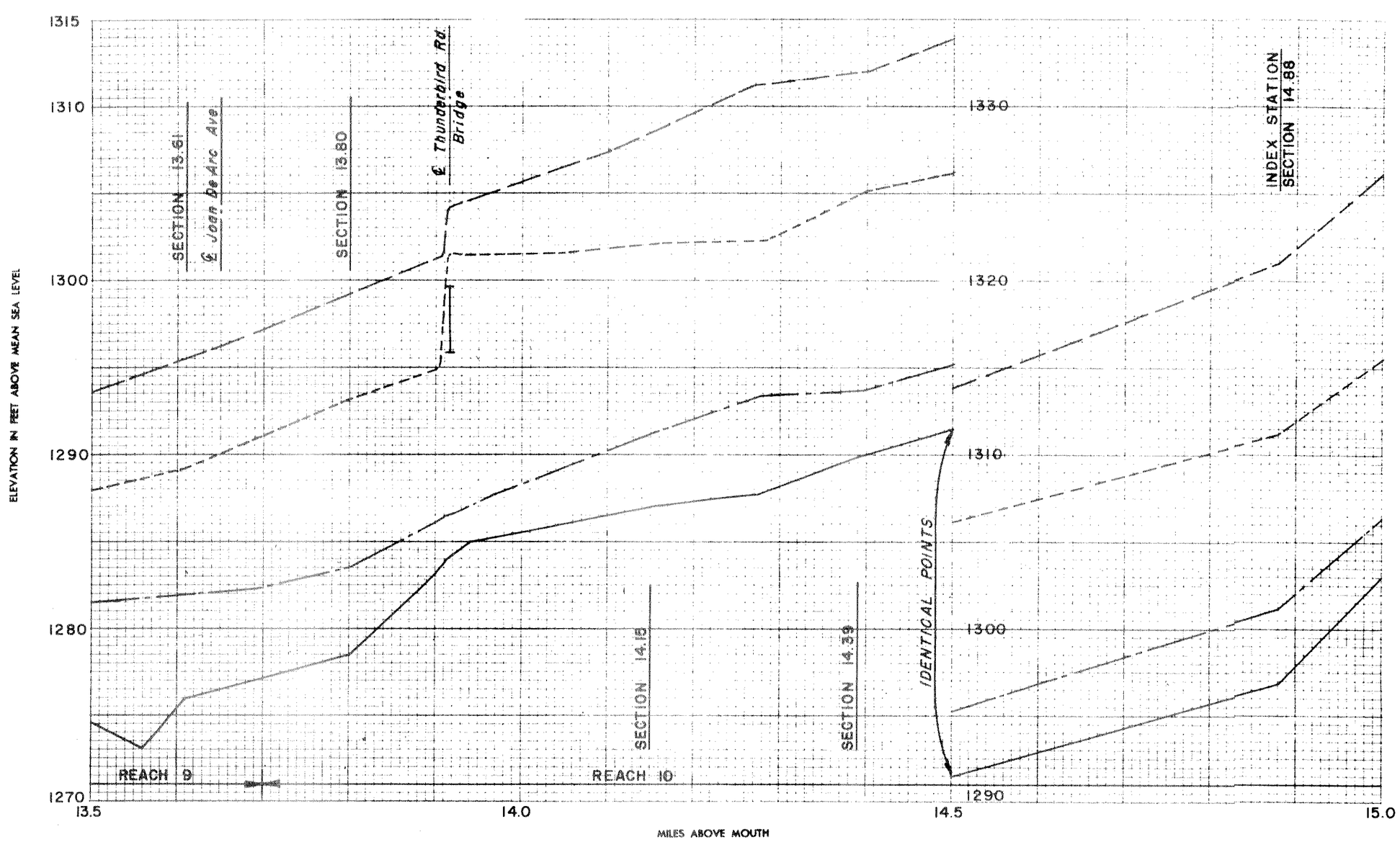

LEGEND

500-Year Flood

100-Year Flood

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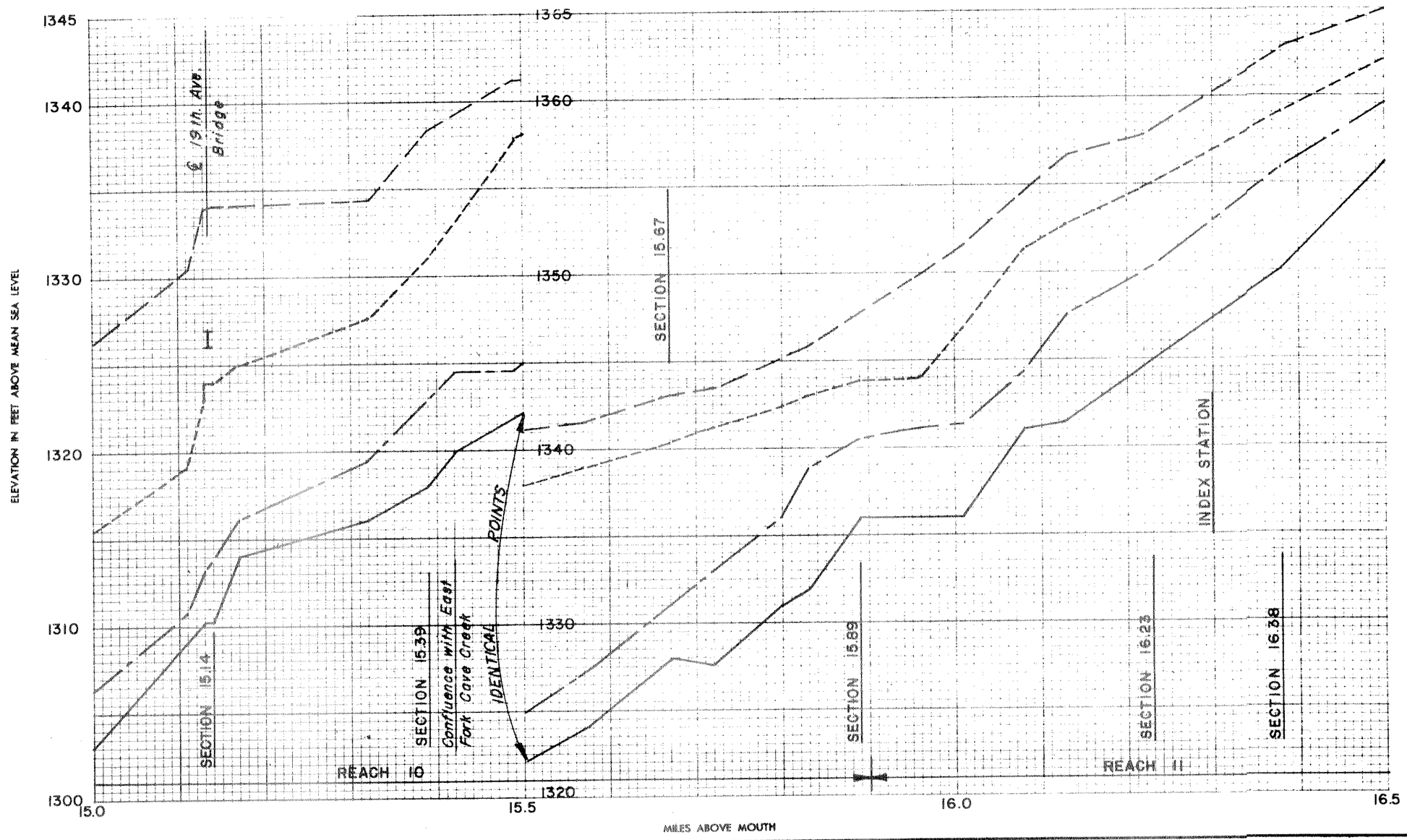

LEGEND

500-Year Flood

100-Year Flood

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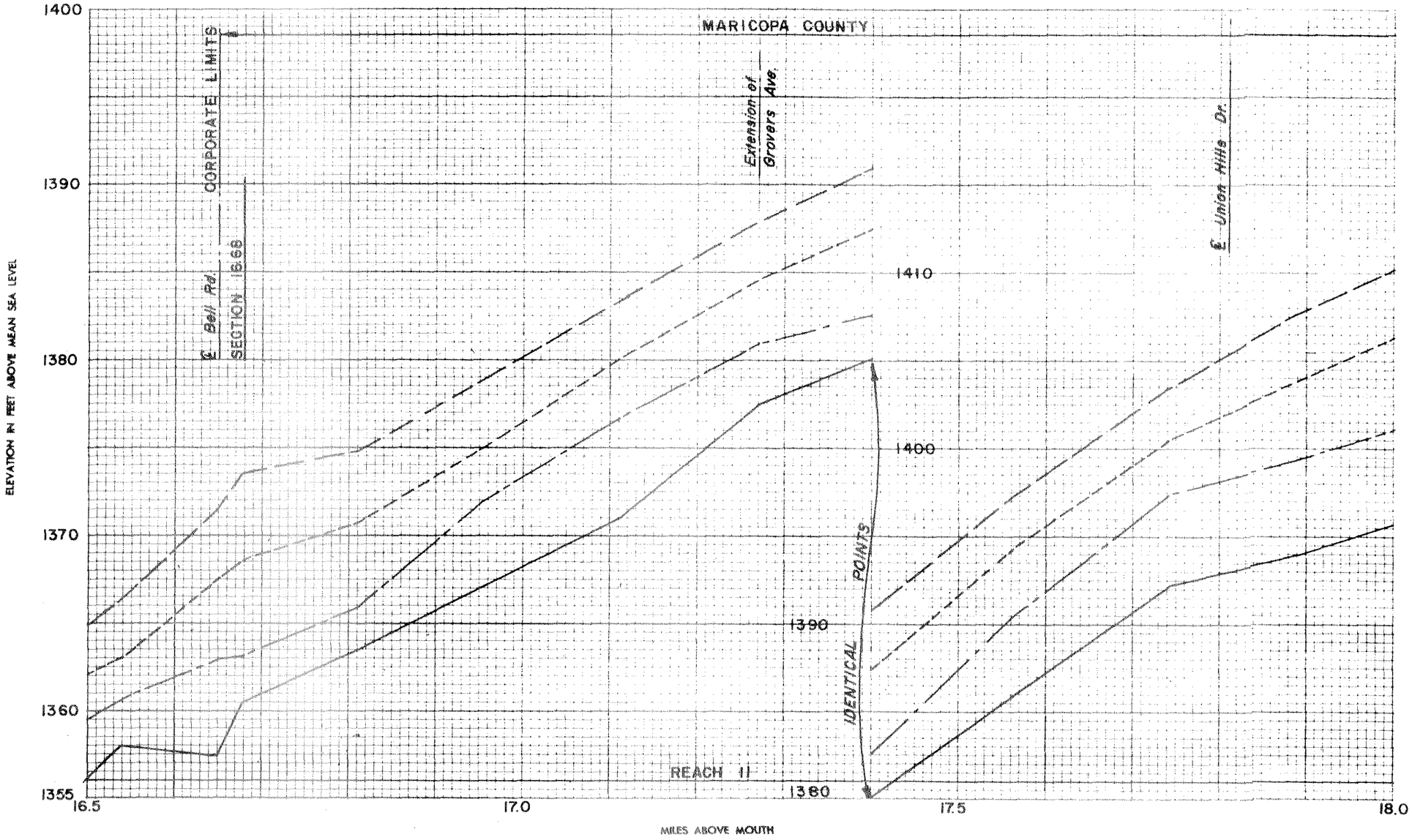

LEGEND

500-Year Flood

100-Year Flood

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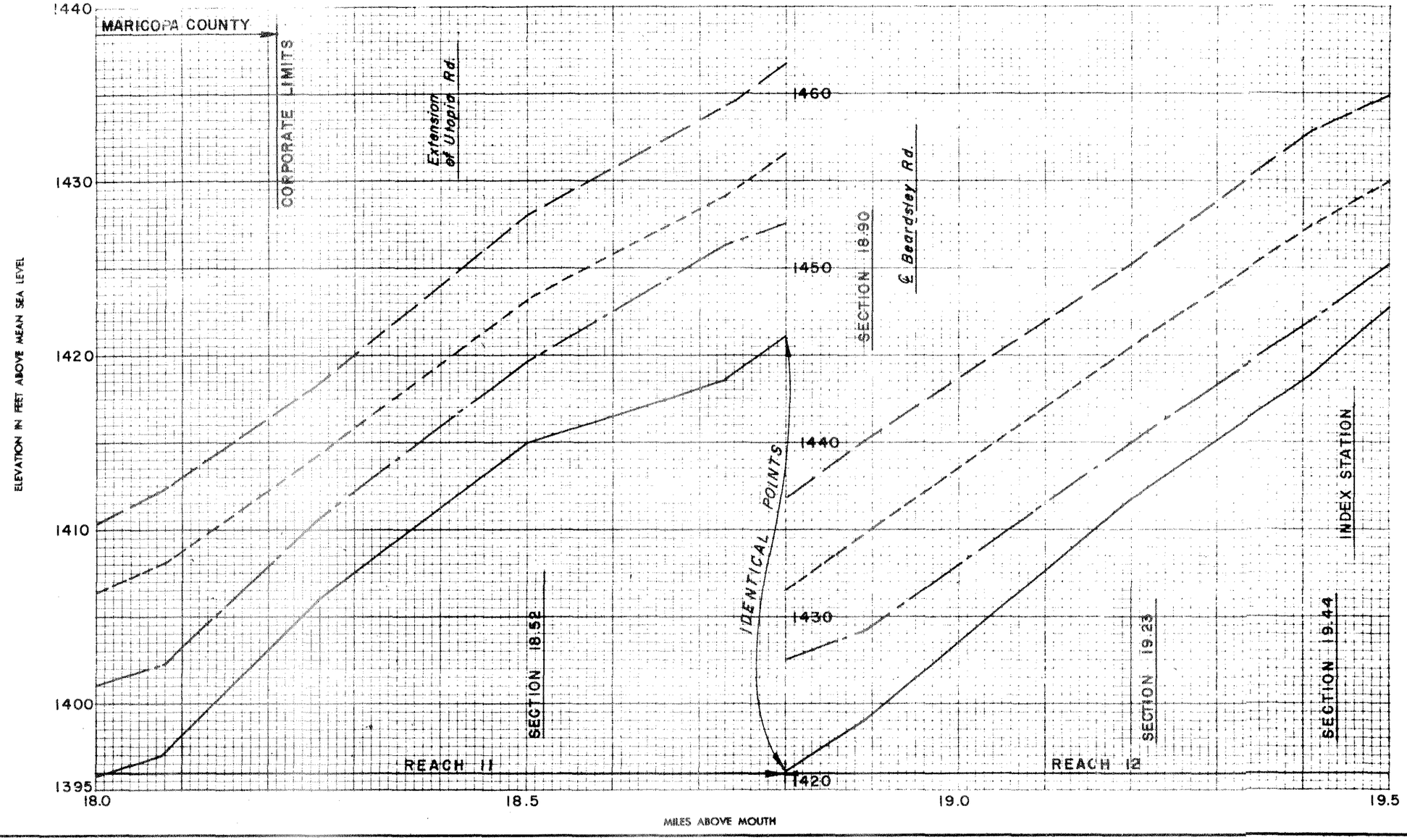

LEGEND

500-Year Flood

100-Year Flood

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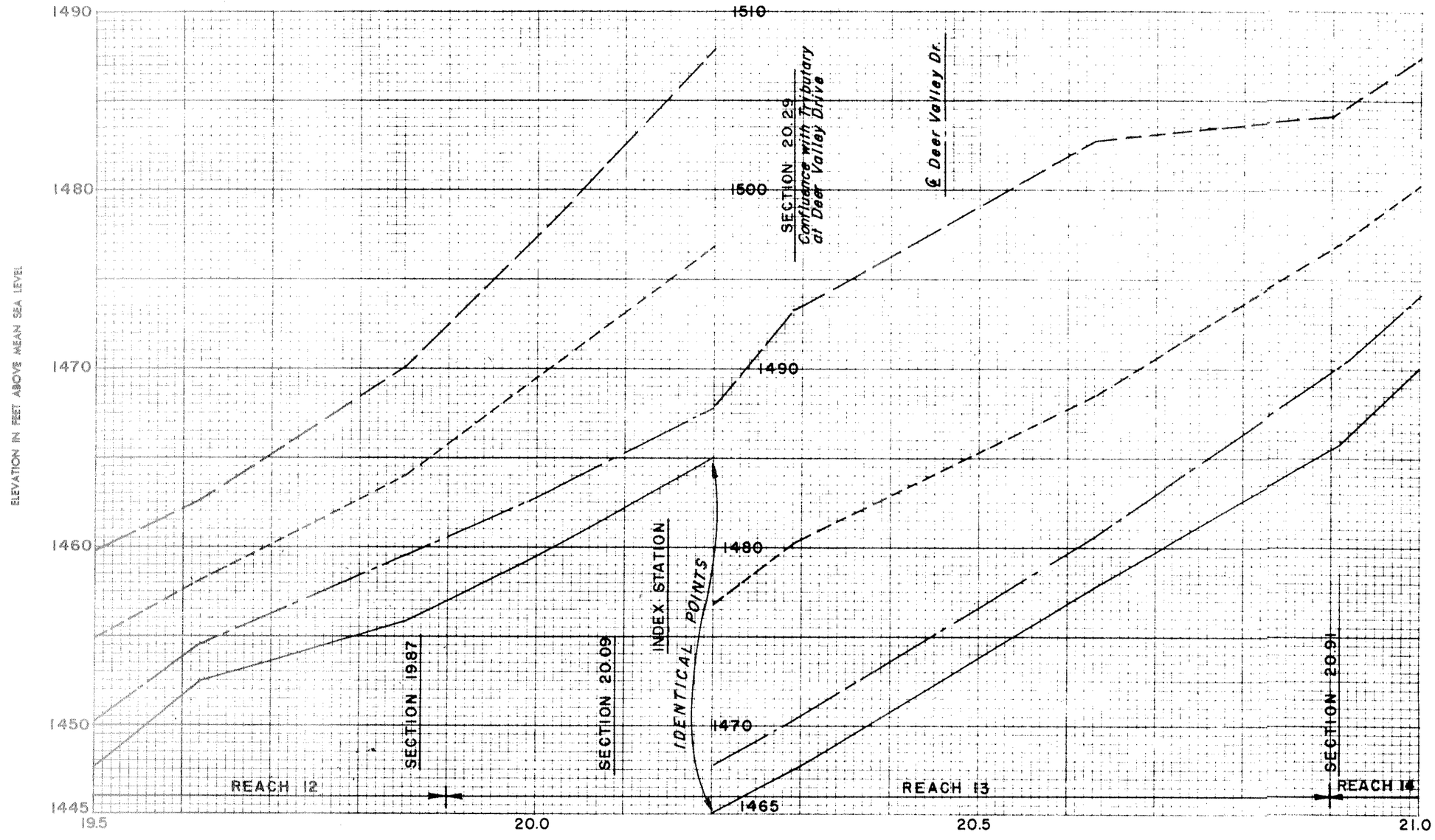

LEGEND

500-Year Flood

100-Year Flood

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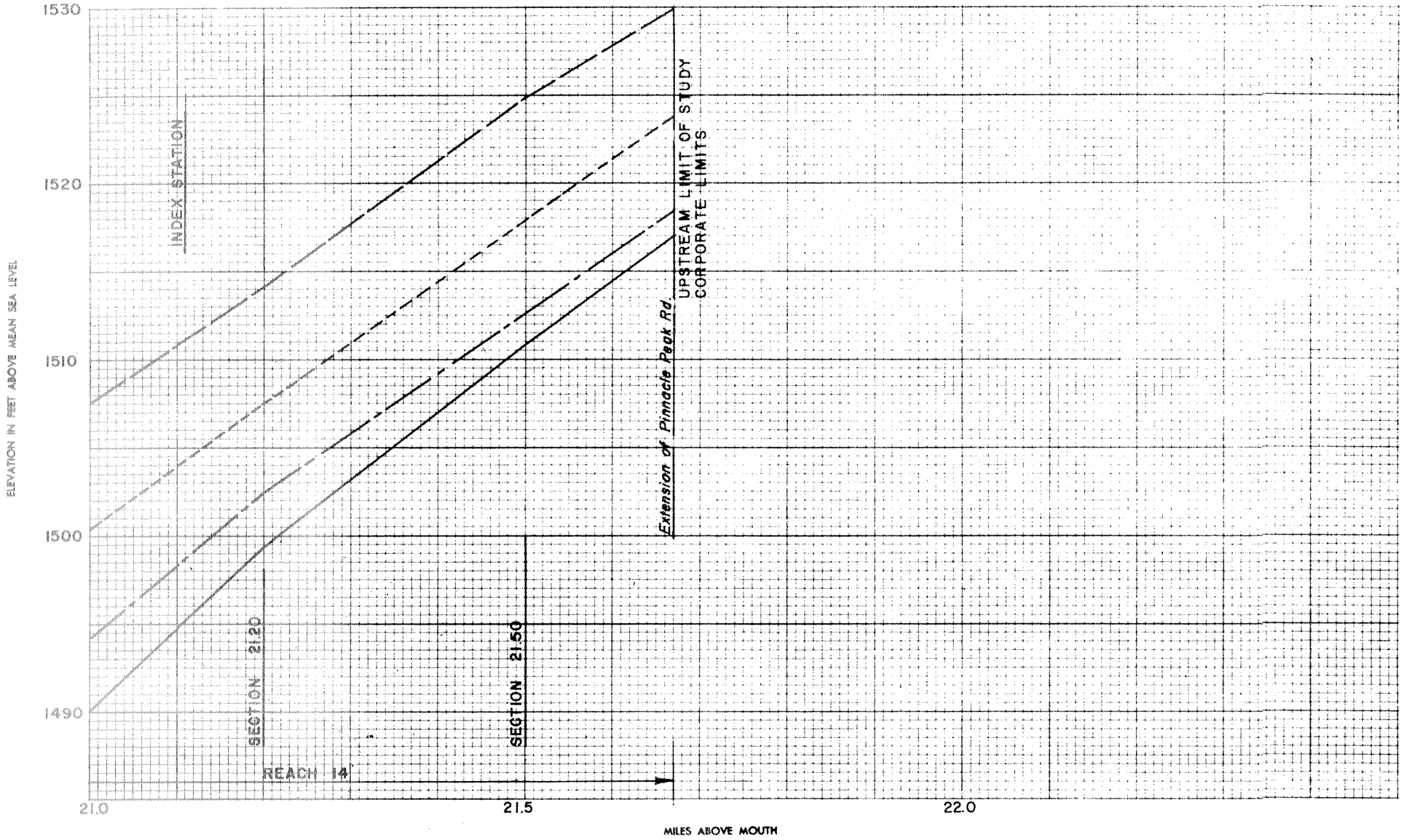

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

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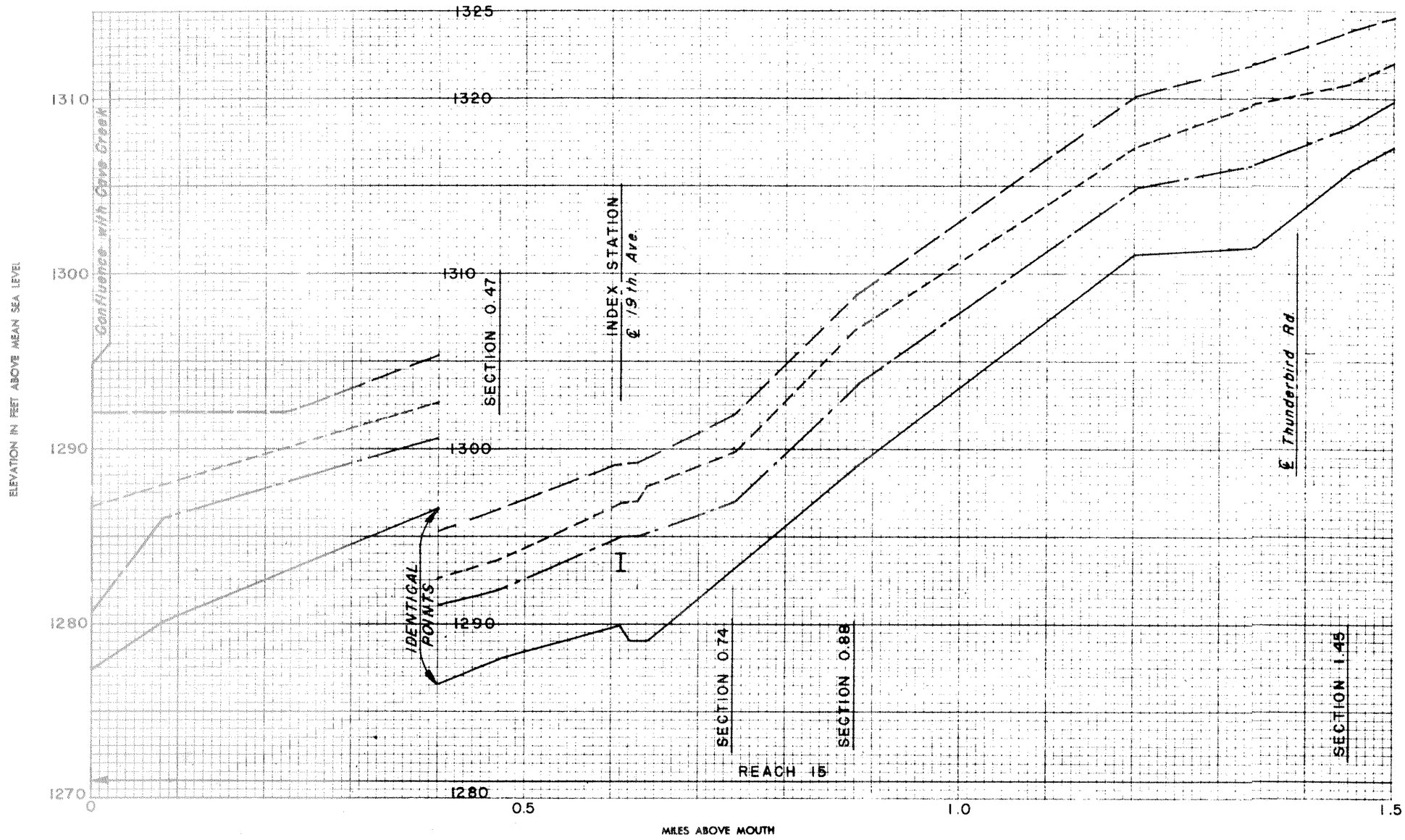

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

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MOON VALLEY WASH

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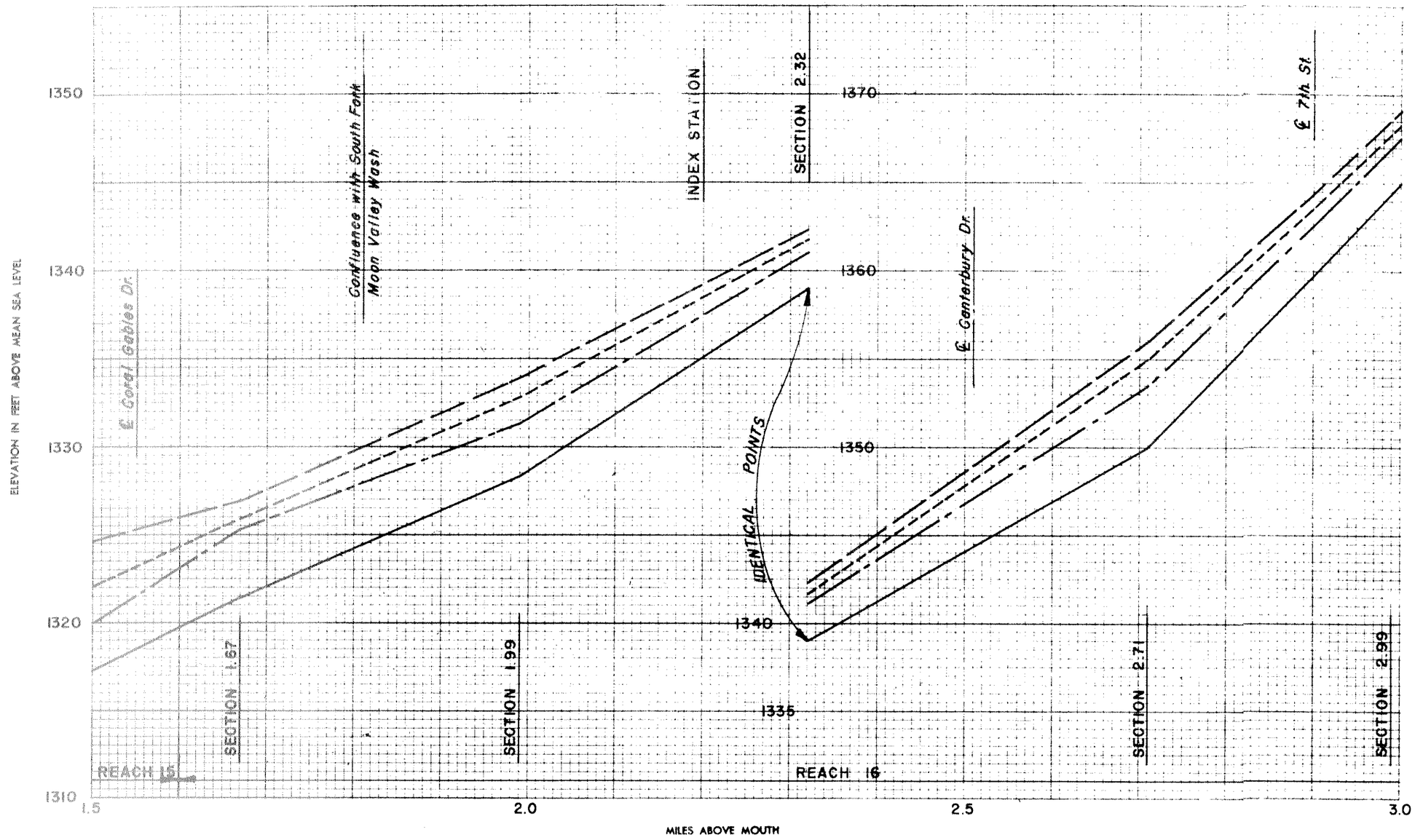
SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

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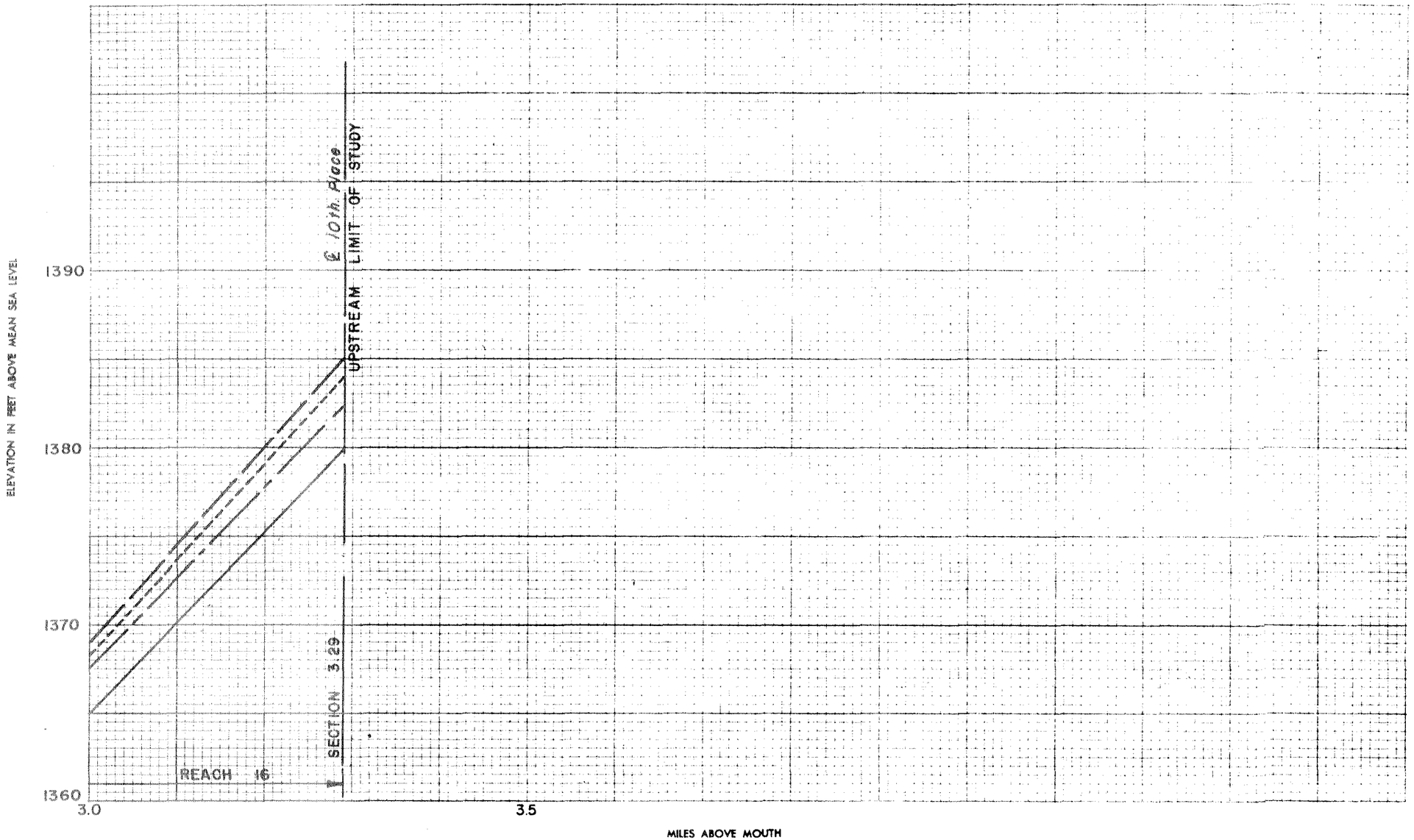

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

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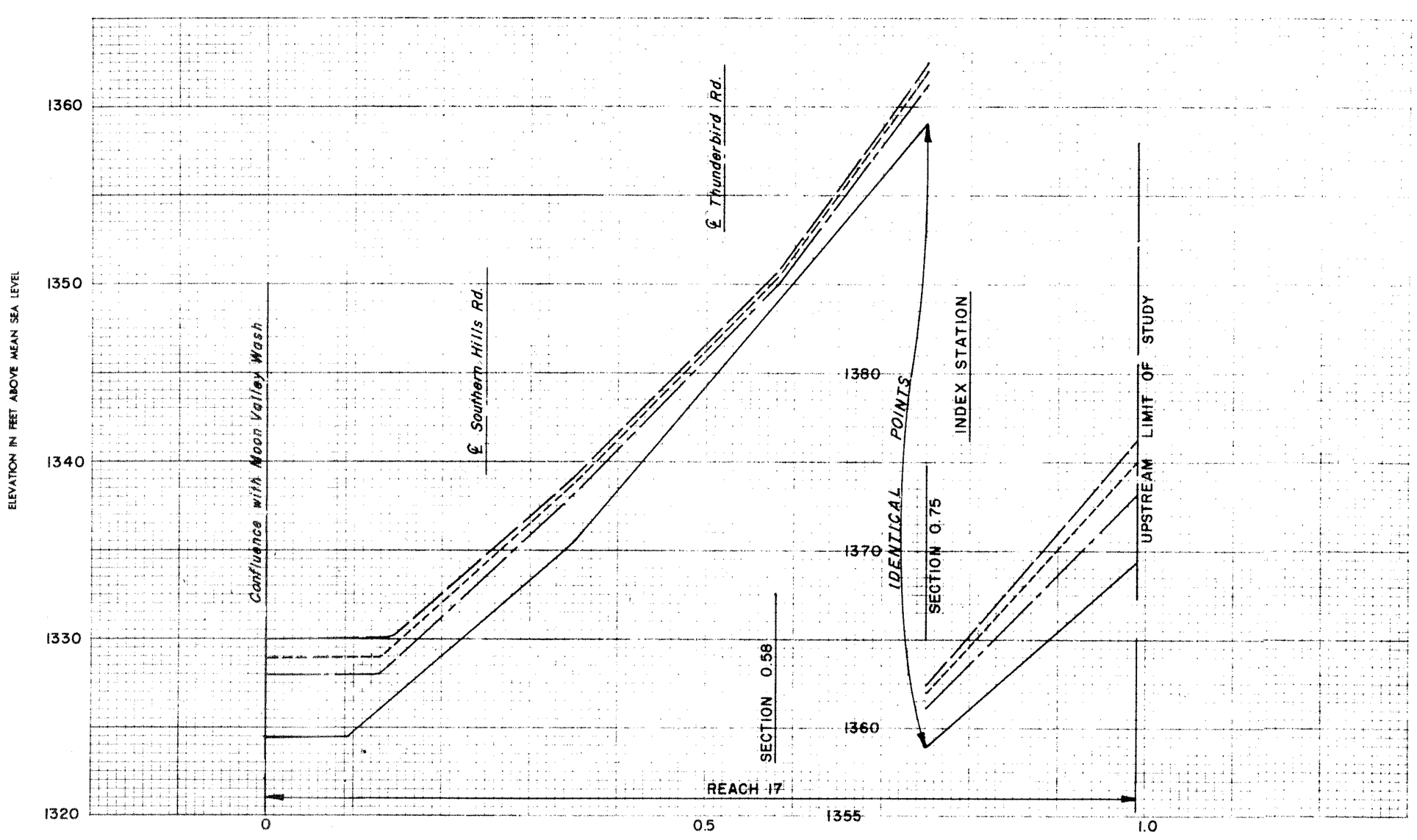

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

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S. FORK MOON VALLEY WASH

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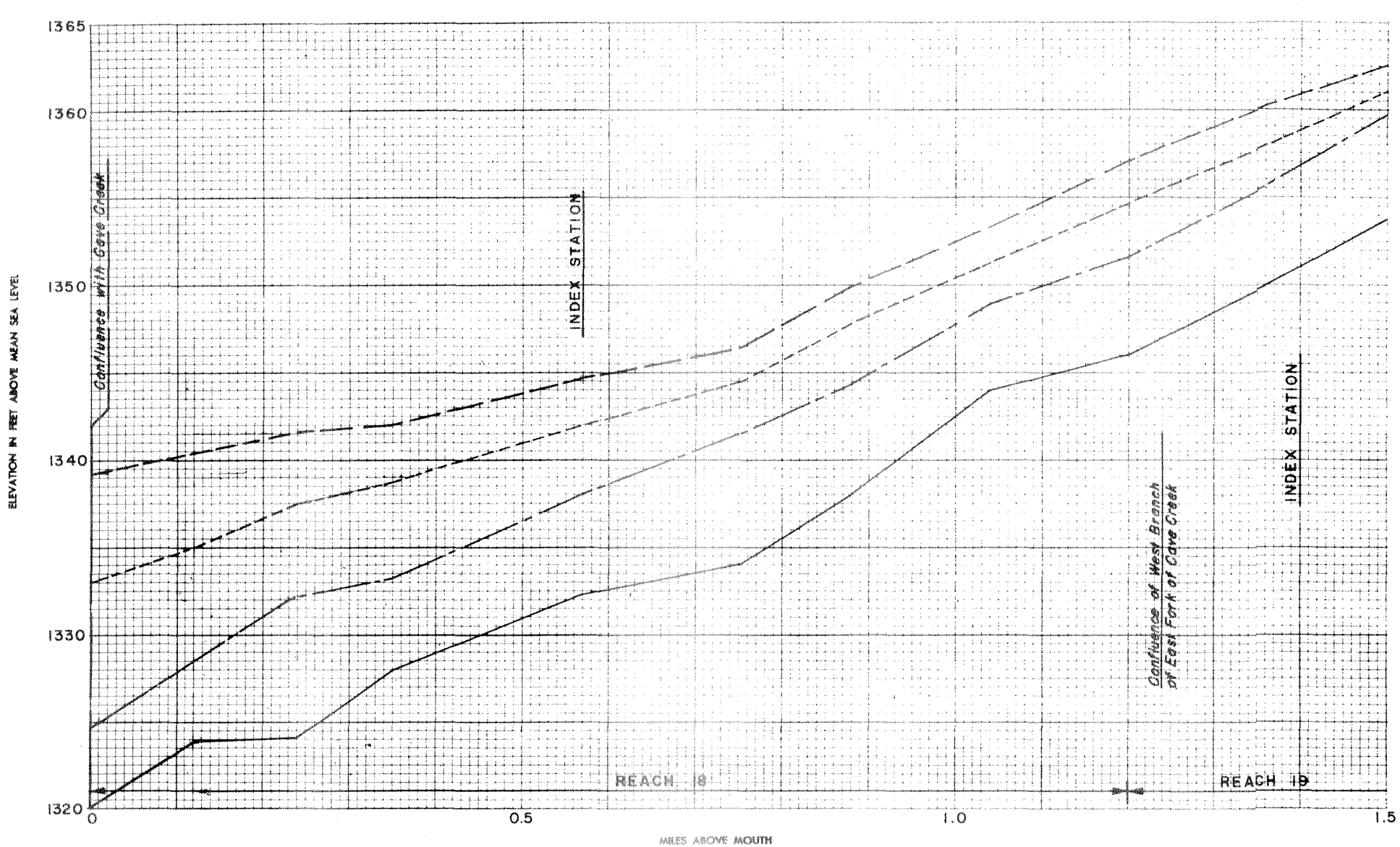

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

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E. FORK CAVE CREEK

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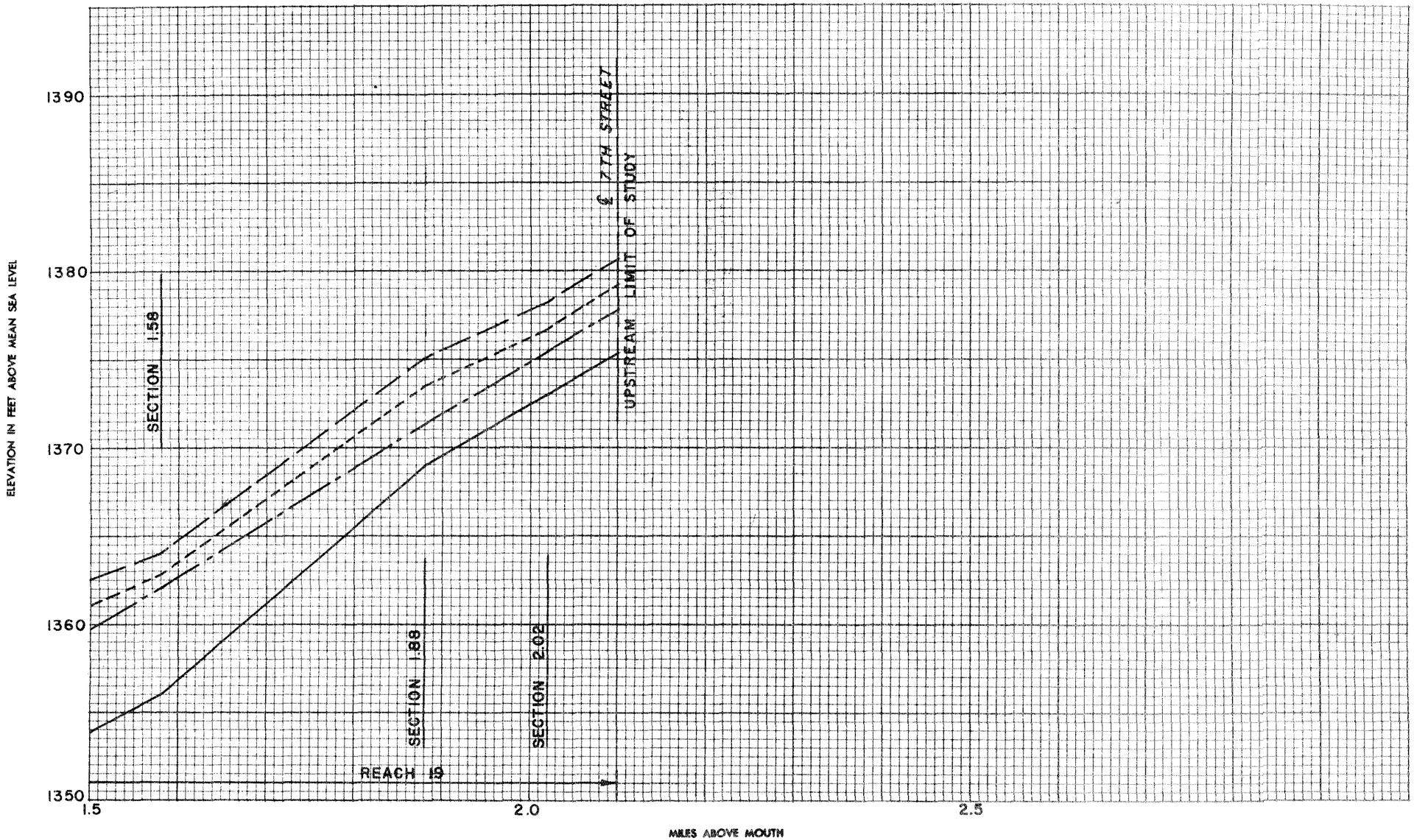
SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

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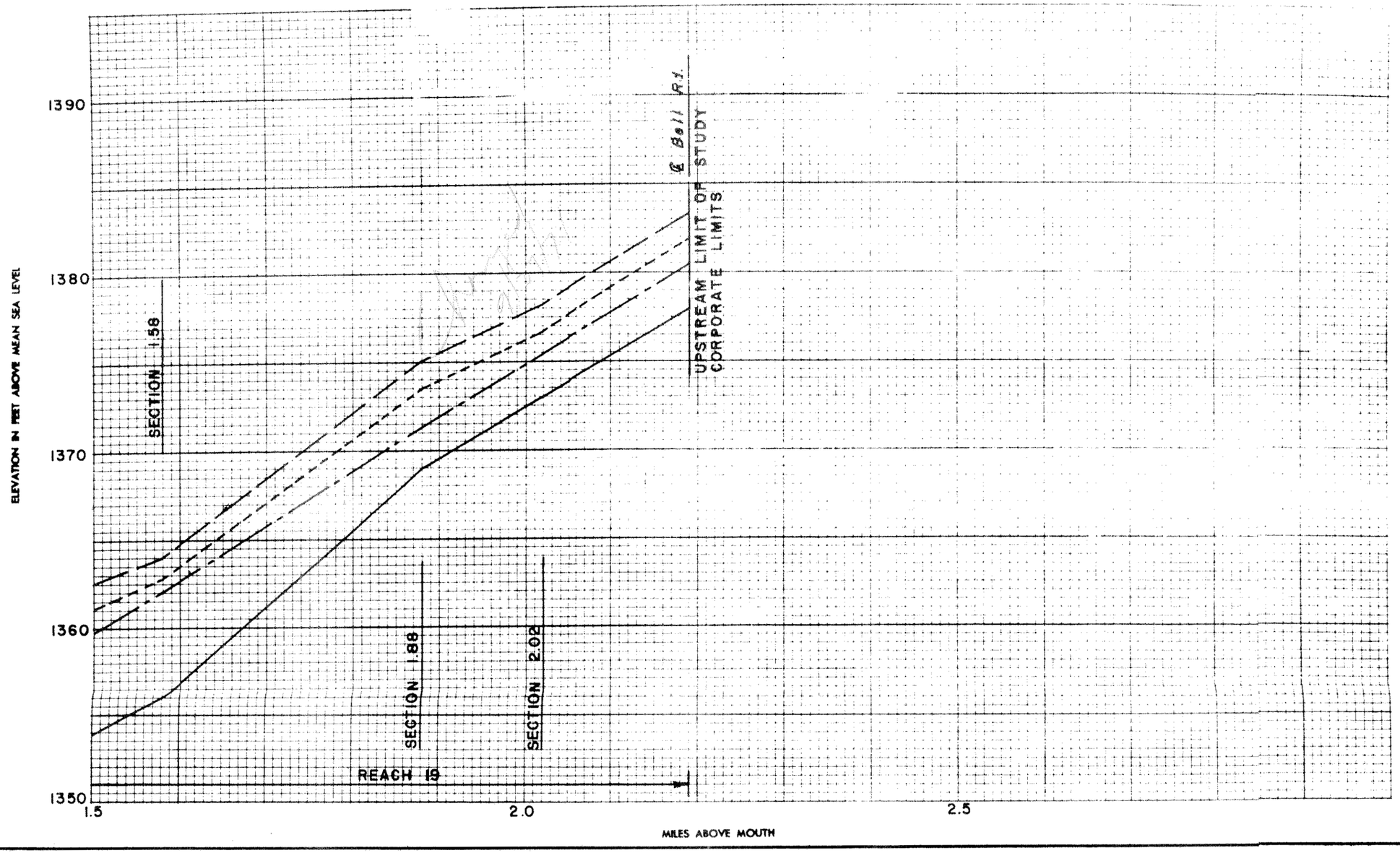

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

See 8th 7/2/74

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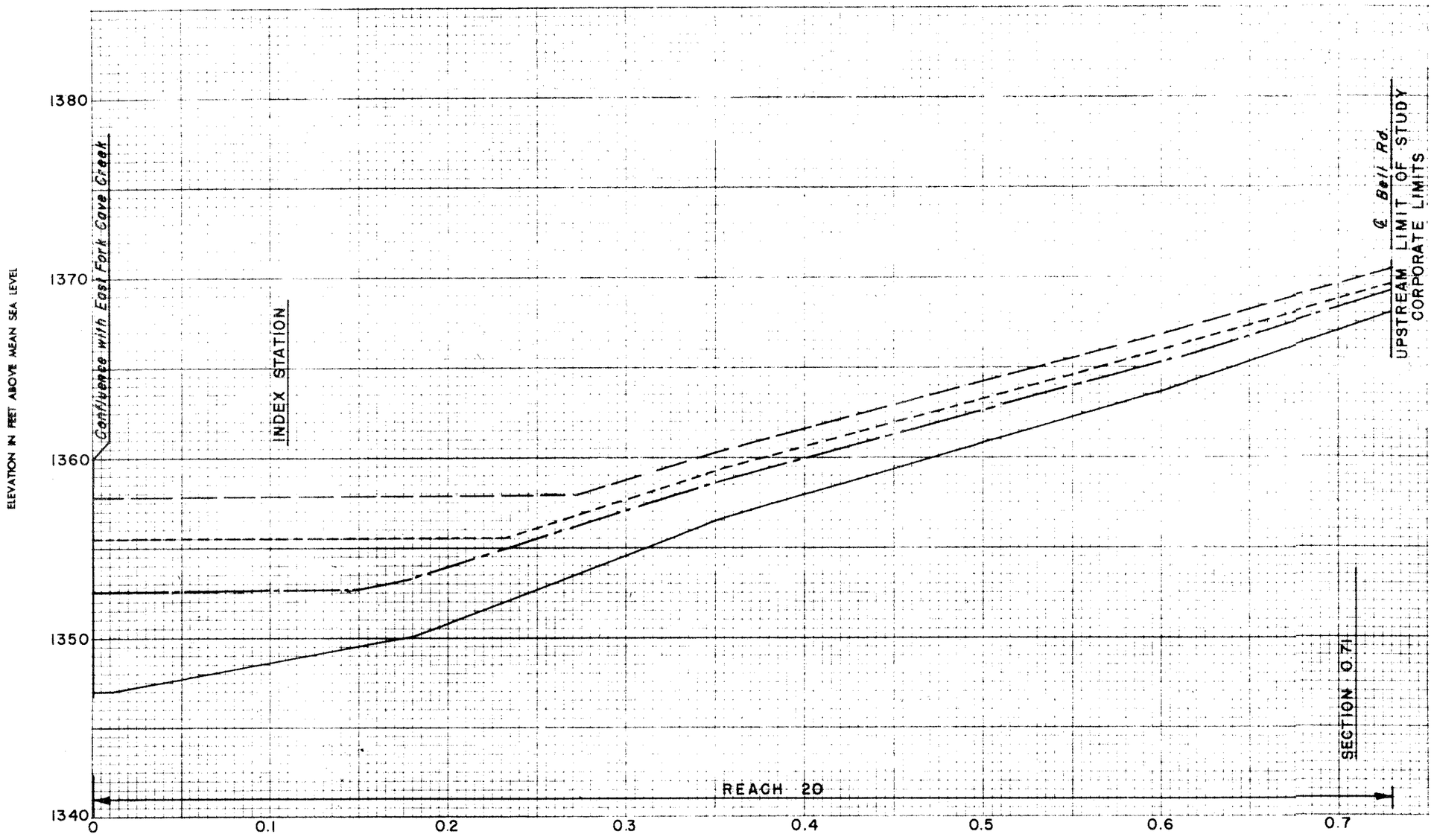

LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

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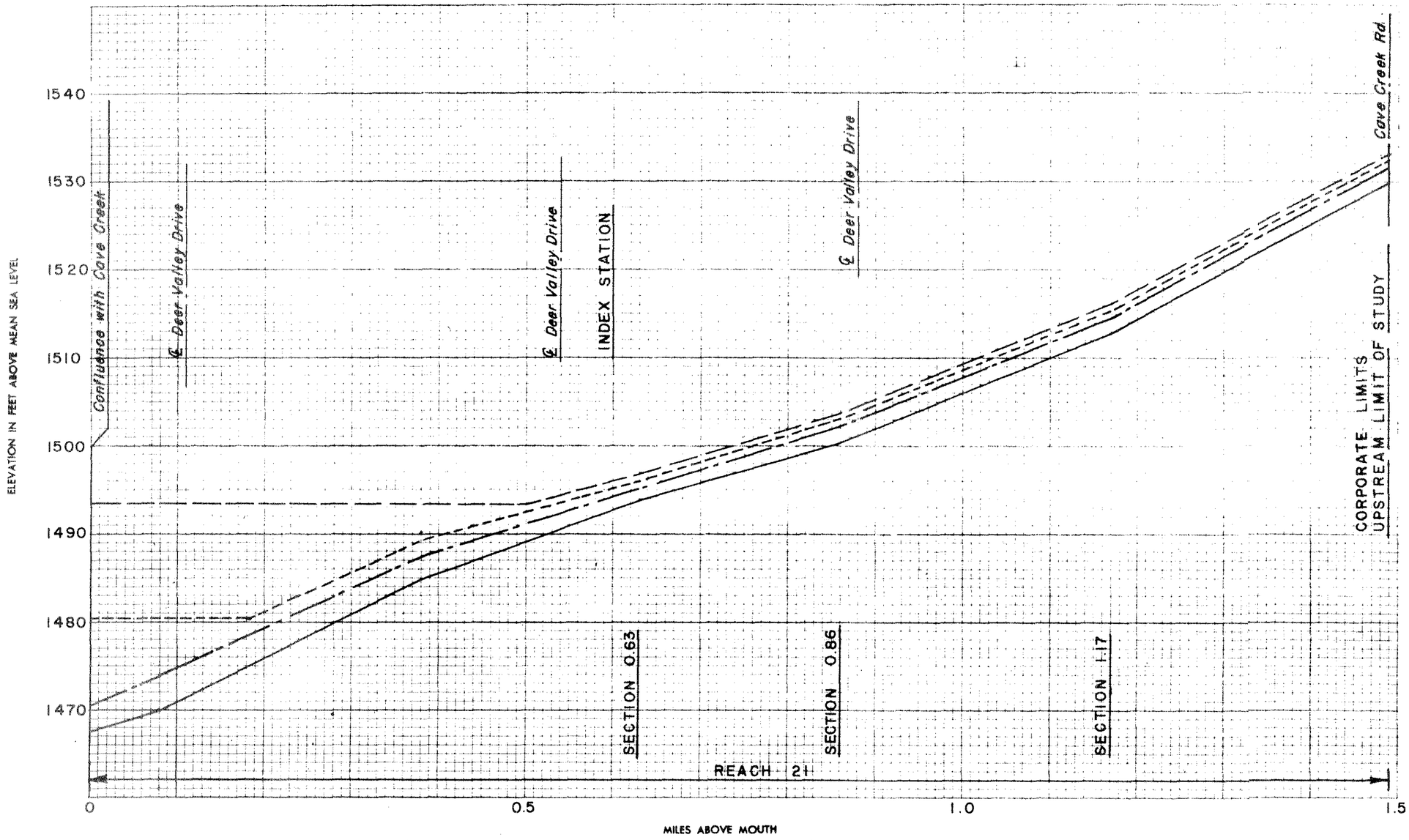
W. BRANCH E. FORK CAVE CREEK

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

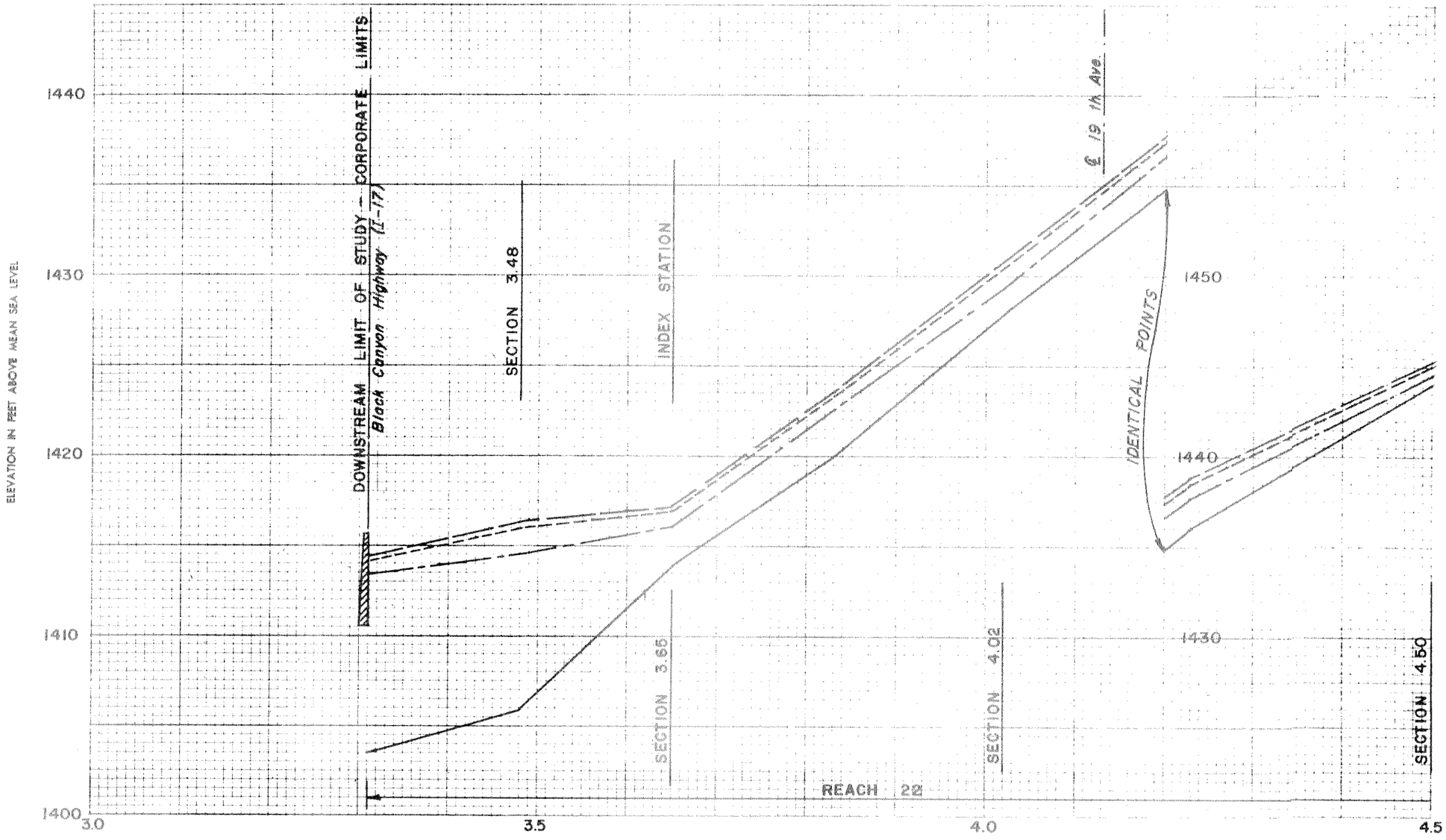
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

FLOOD PROFILES
CAVE CR. TRIB.
AT DEER VALLEY DR.

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

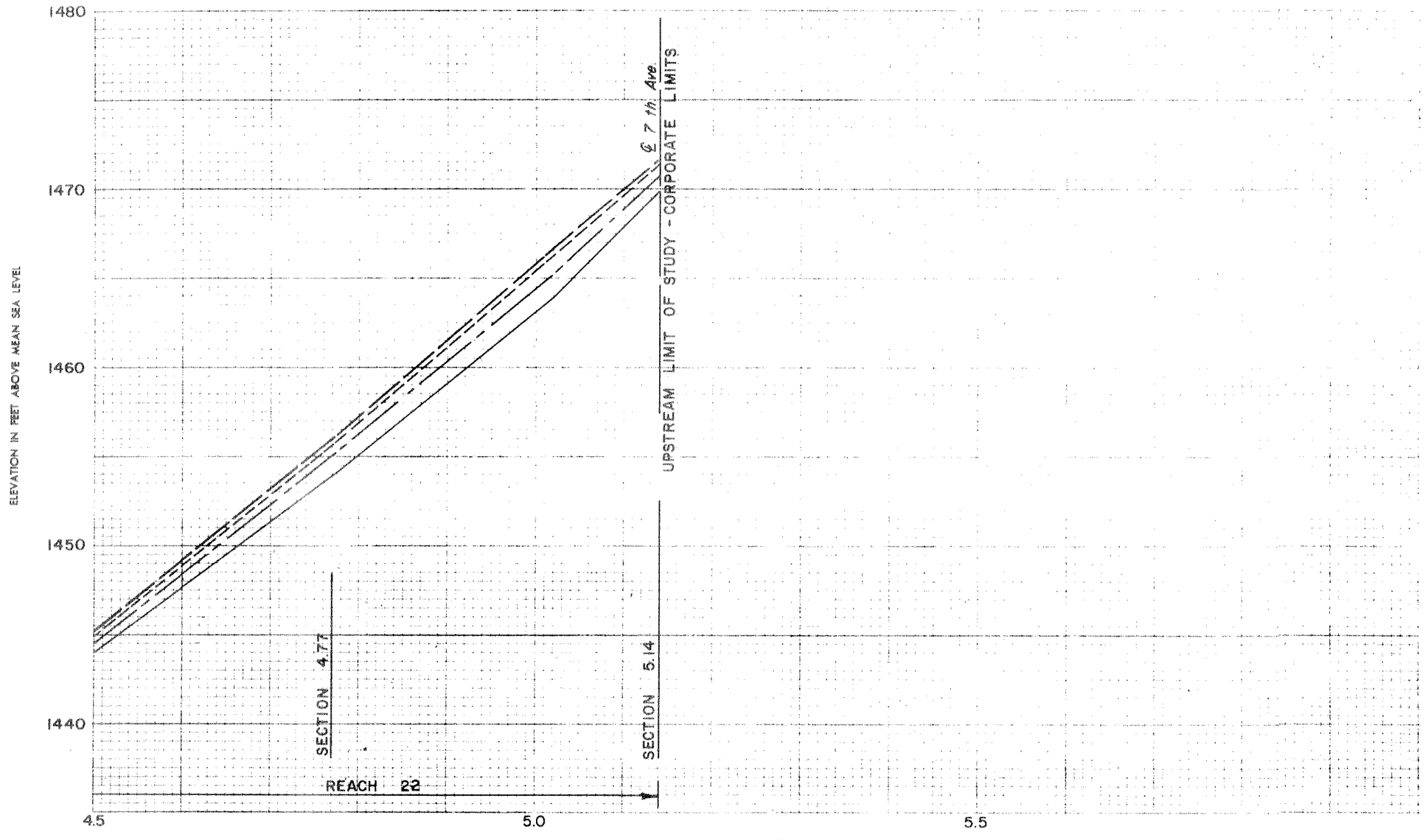
PHOENIX, ARIZONA

FLOOD PROFILES

SCATTER WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

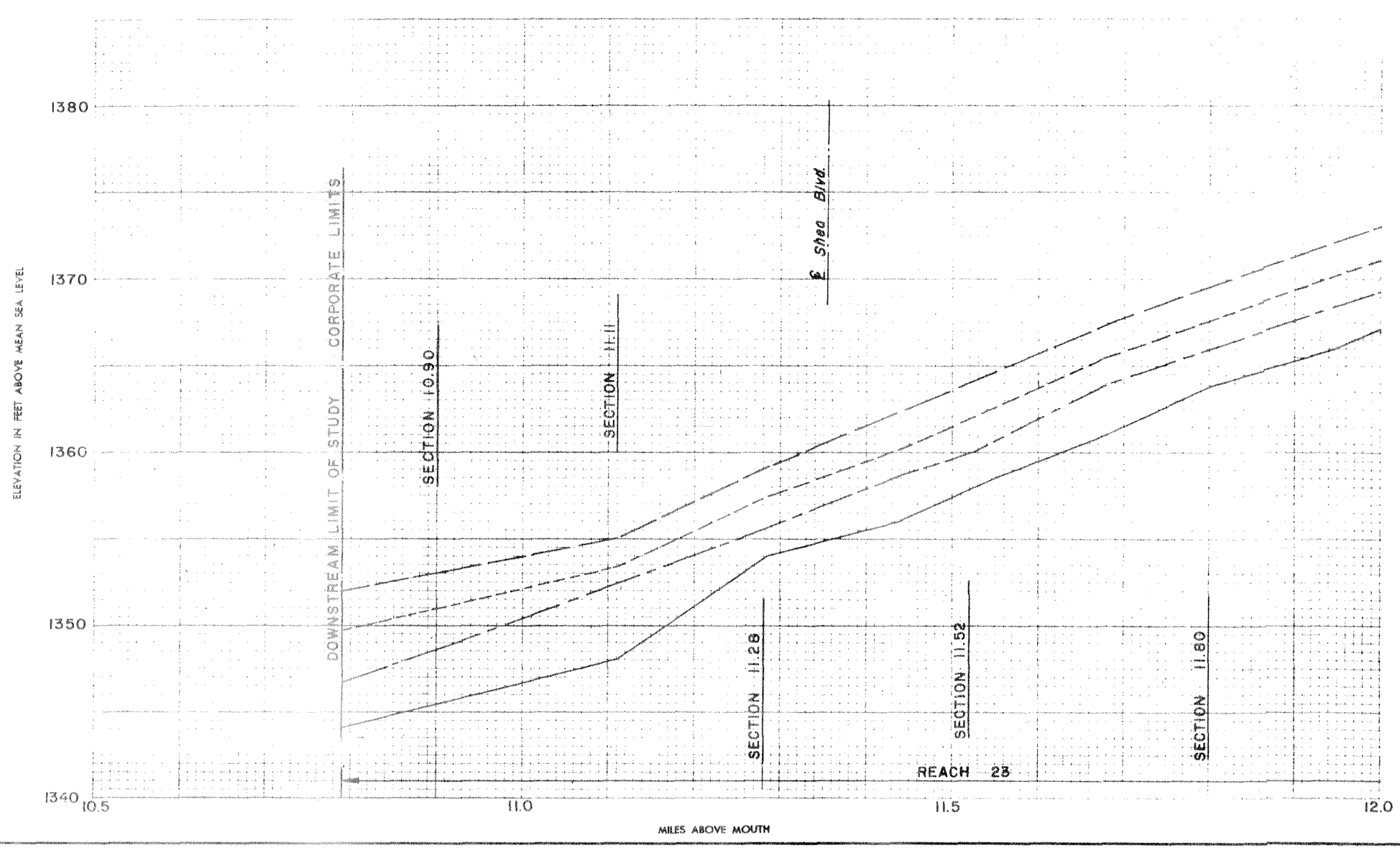
PHOENIX, ARIZONA

FLOOD PROFILES

SCATTER WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

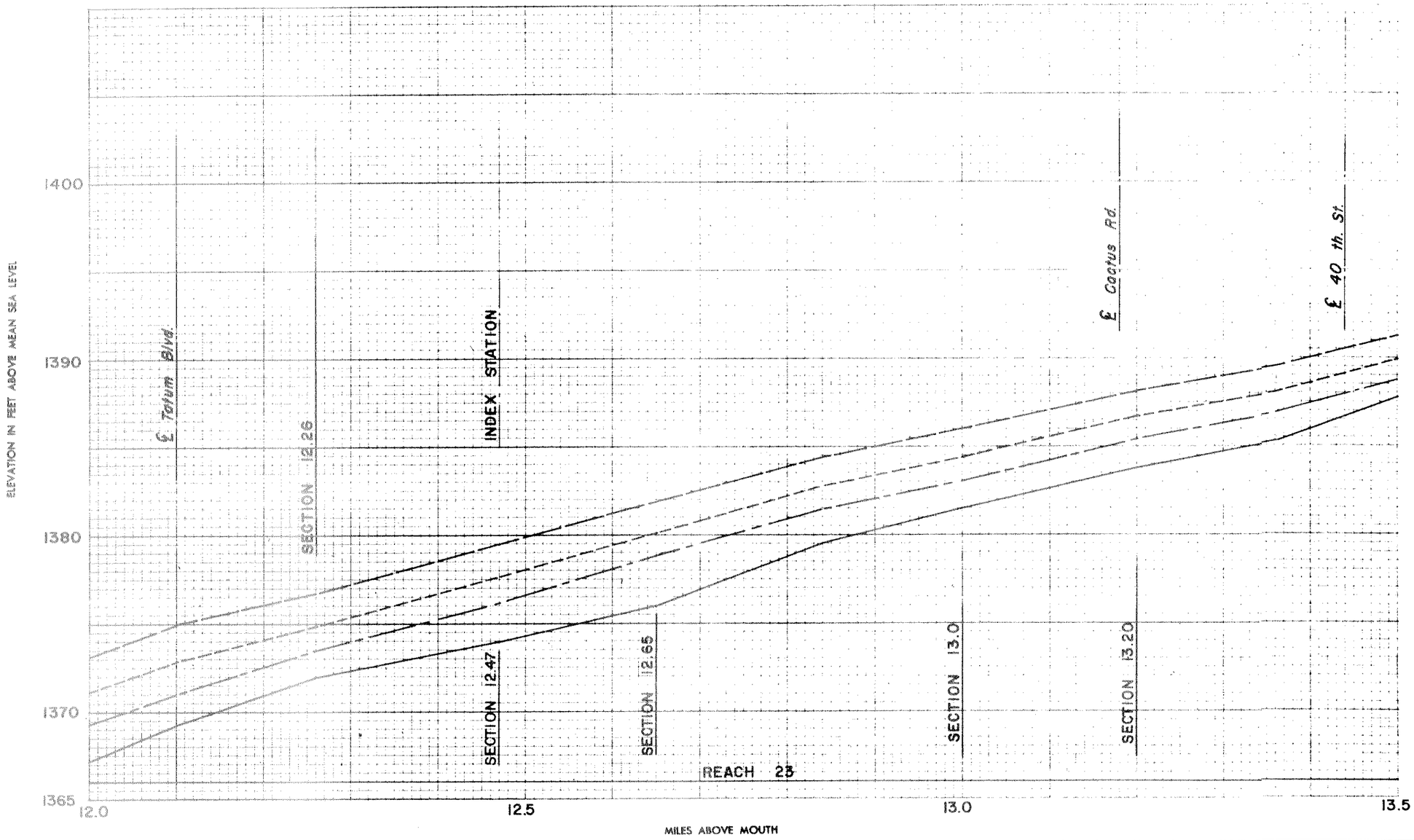
PHOENIX, ARIZONA

FLOOD PROFILES

INDIAN BEND WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

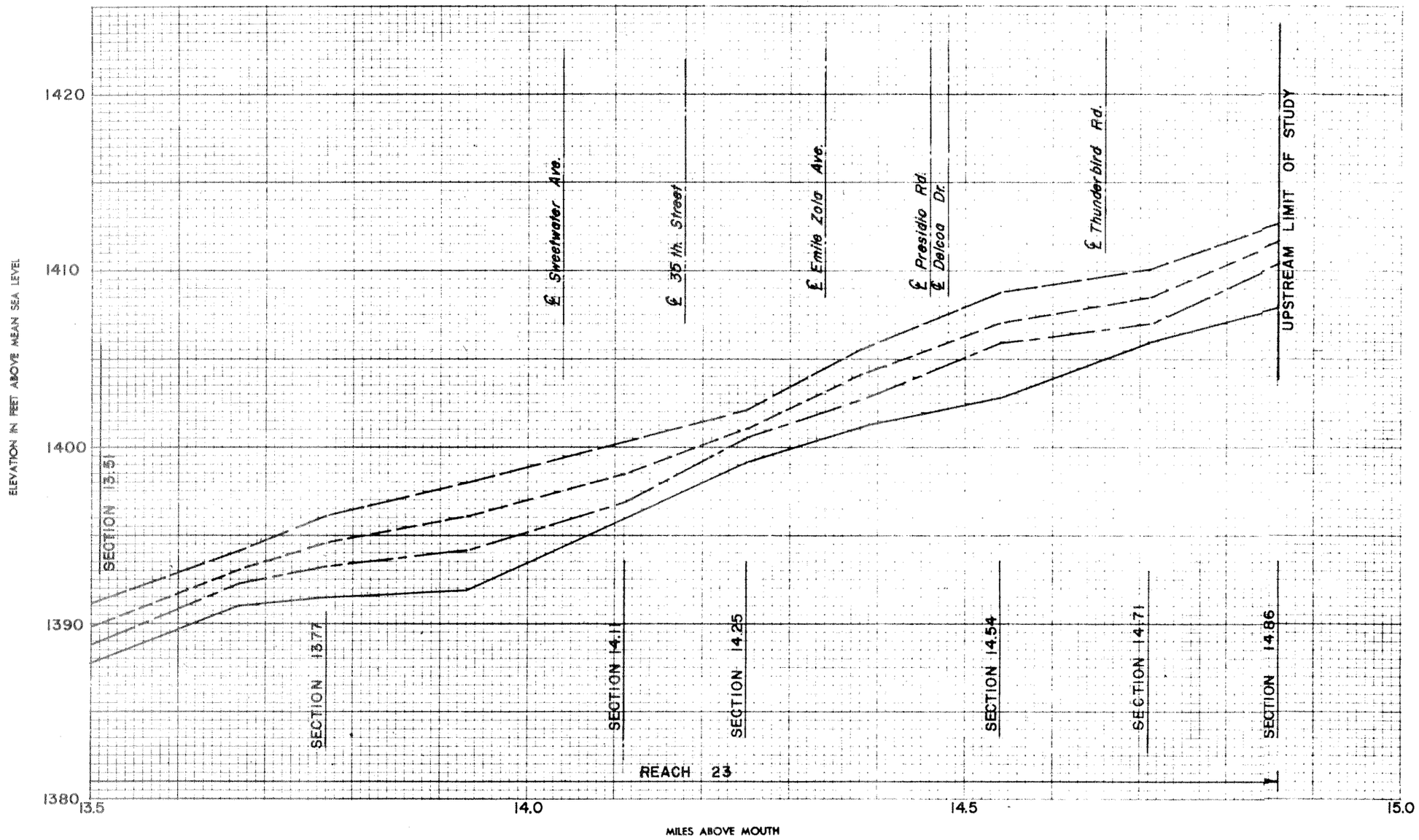
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

FLOOD PROFILES

INDIAN BEND WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION
SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

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PHOENIX, ARIZONA

FLOOD PROFILES

INDIAN BEND WASH

PREPARED FOR
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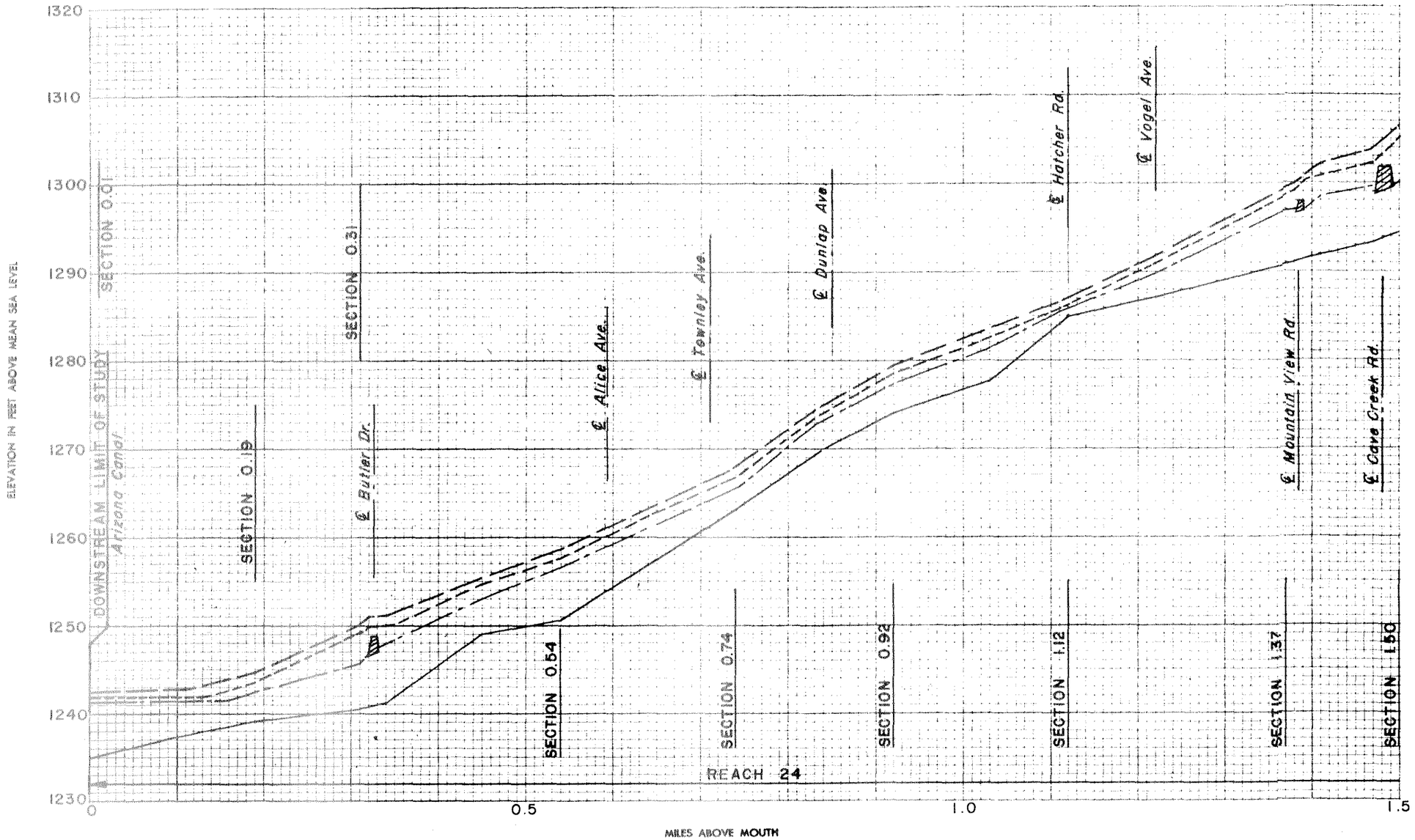
SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

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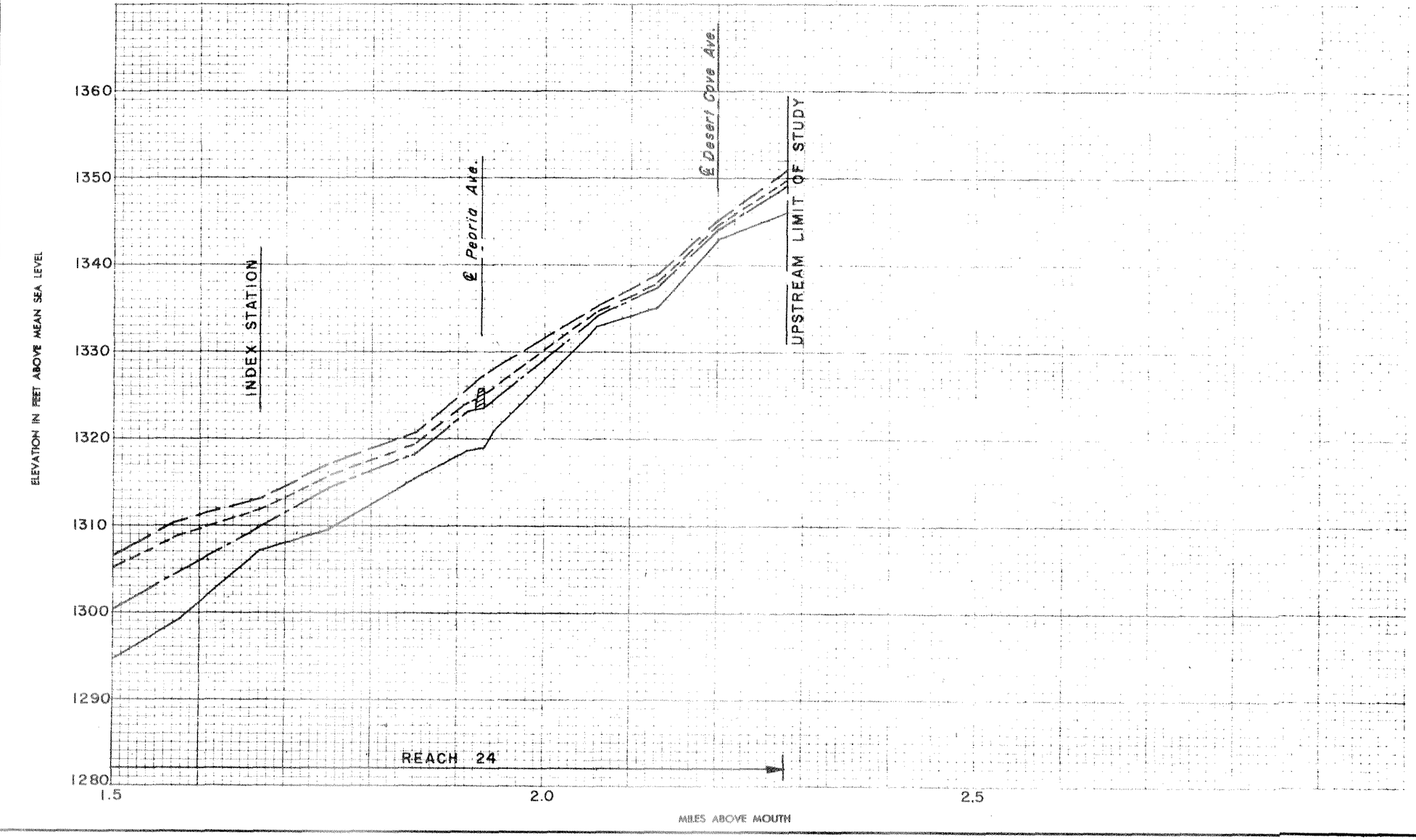
PHOENIX, ARIZONA

FLOOD PROFILES

TENTH ST. WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

FLOOD PROFILES

TENTH ST. WASH

PREPARED FOR
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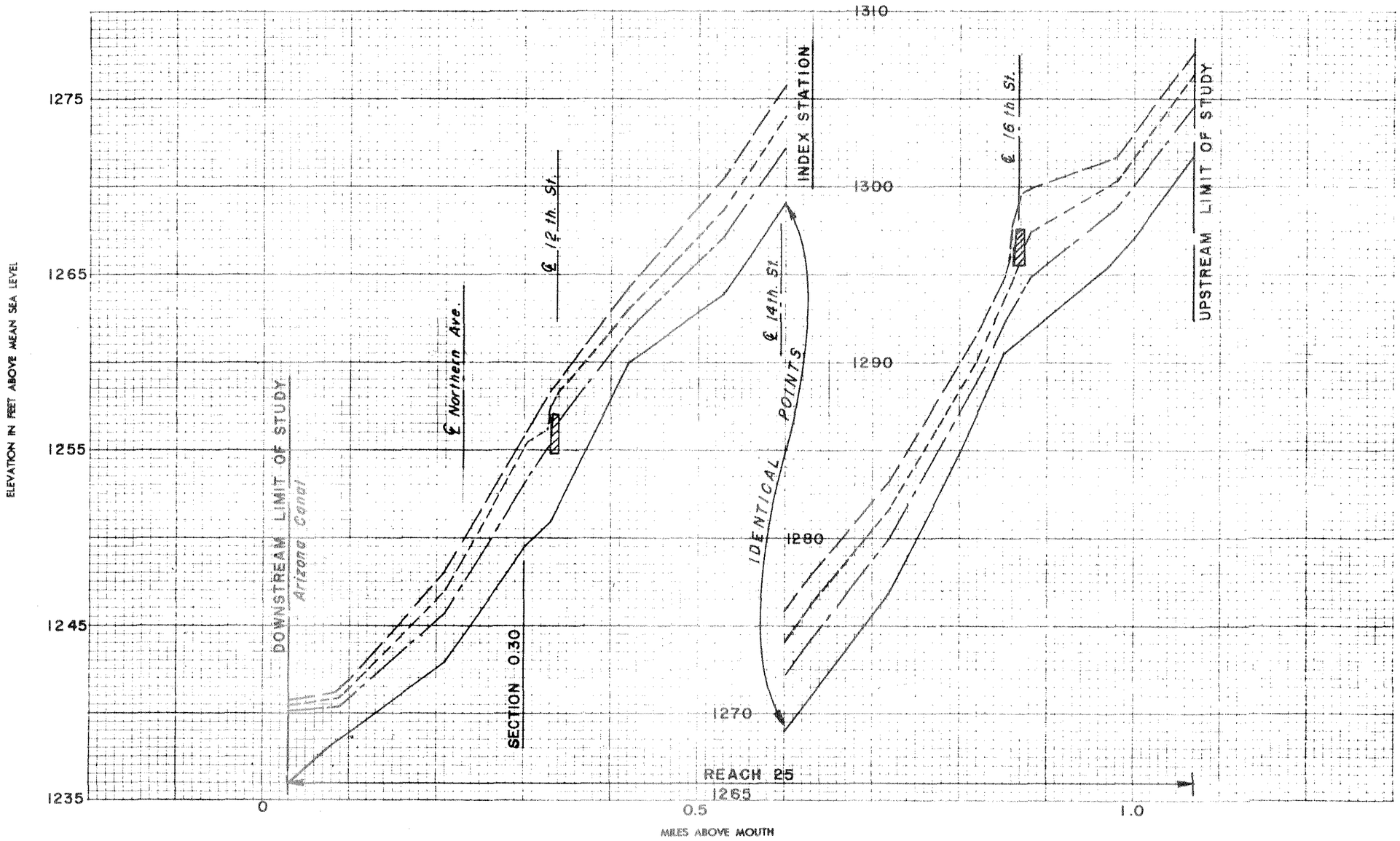
SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

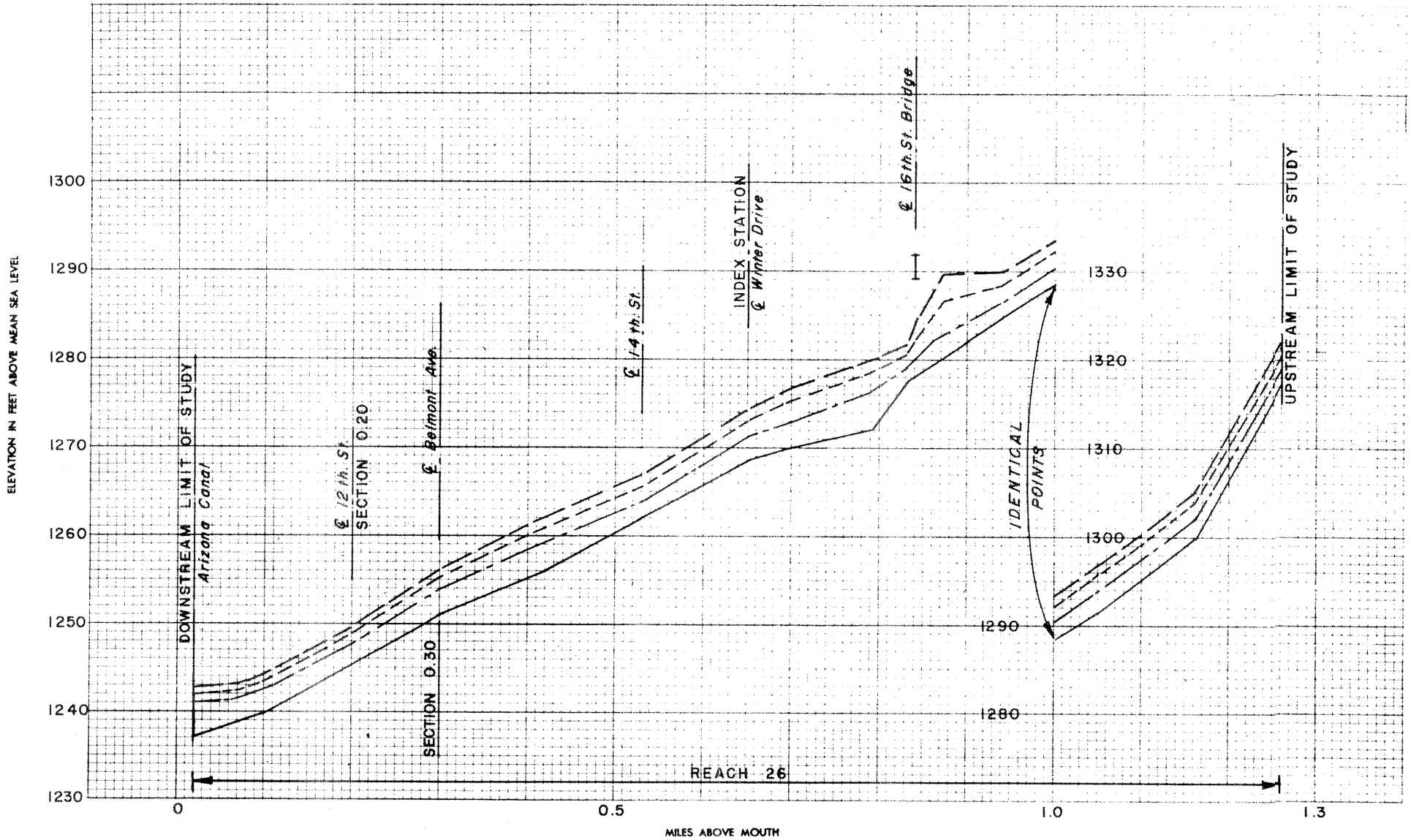
PHOENIX, ARIZONA

FLOOD PROFILES

NORTHERN AVE. WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

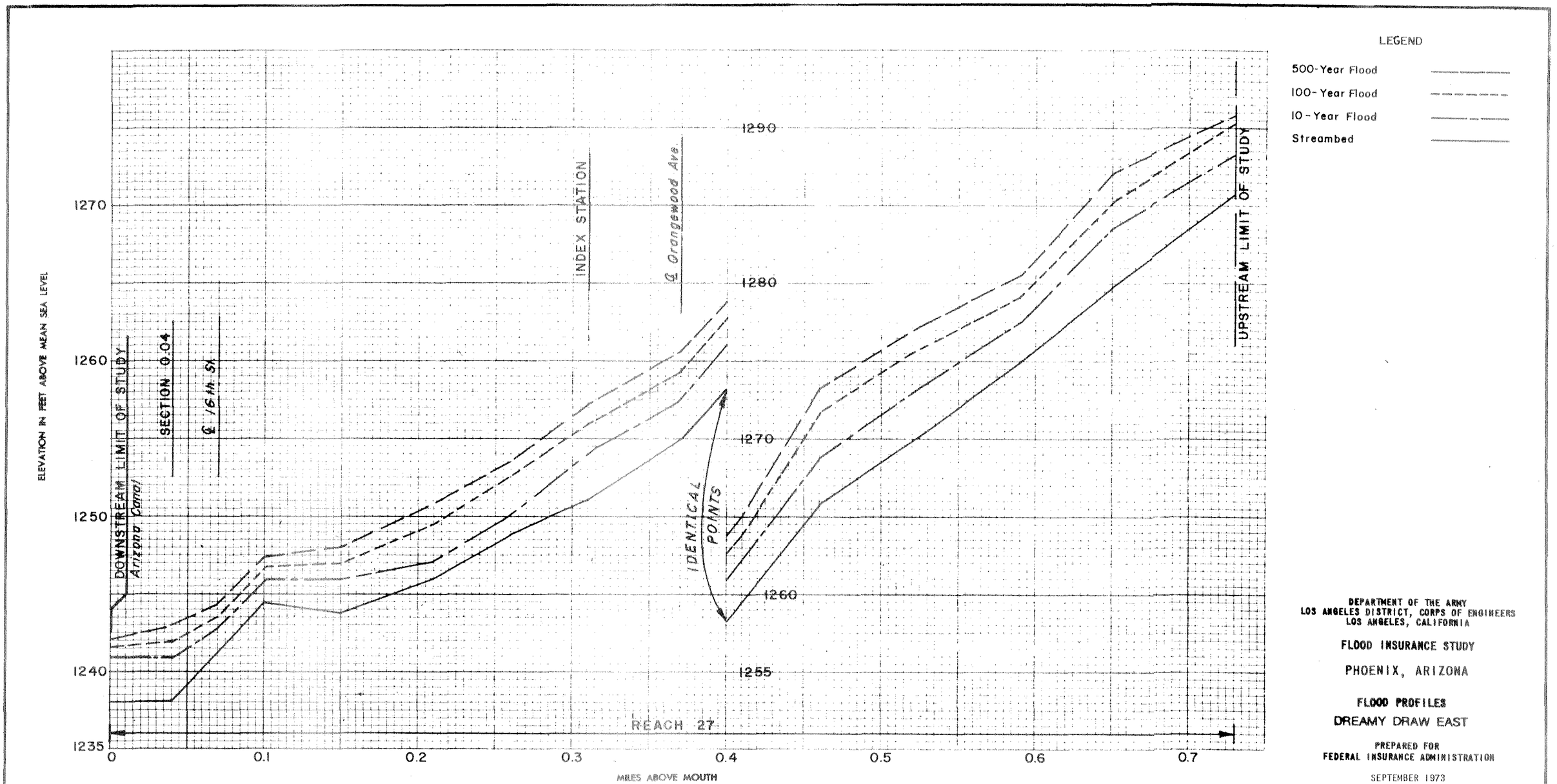
PHOENIX, ARIZONA

FLOOD PROFILES

DREAMY DRAW WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

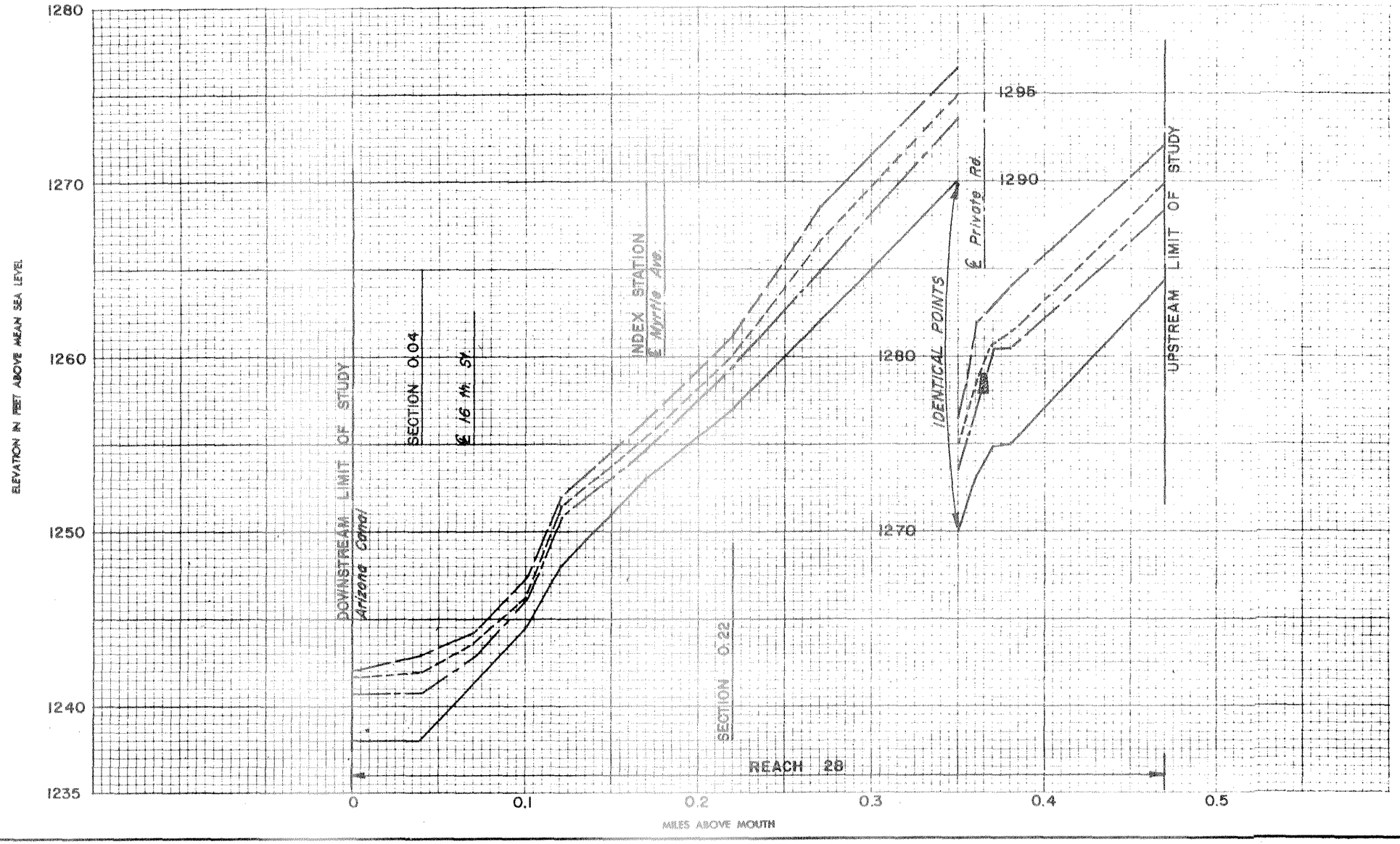
PHOENIX, ARIZONA

FLOOD PROFILES

DREAMY DRAW EAST

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

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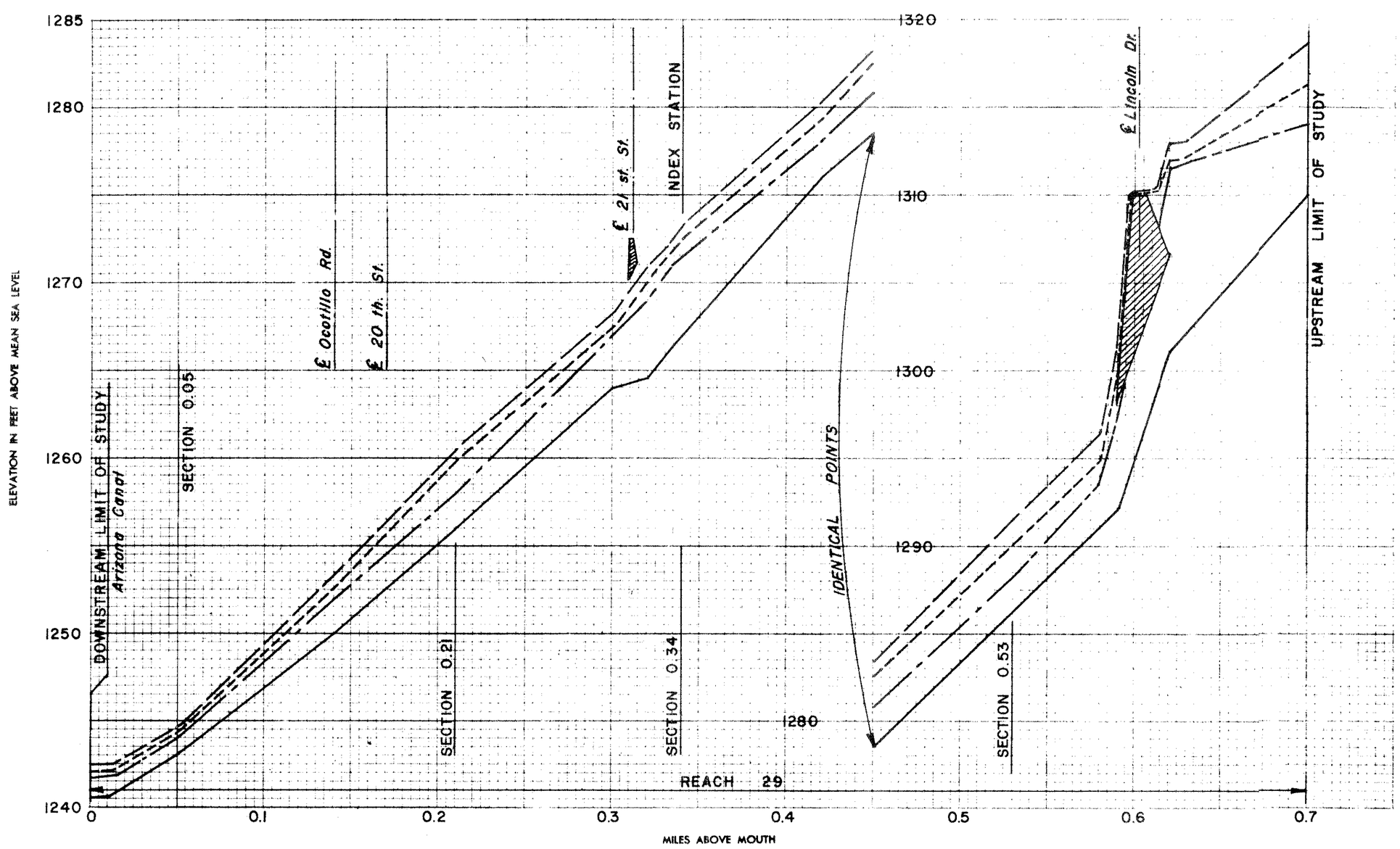
FLOOD PROFILES

MYRTLE AVE. WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

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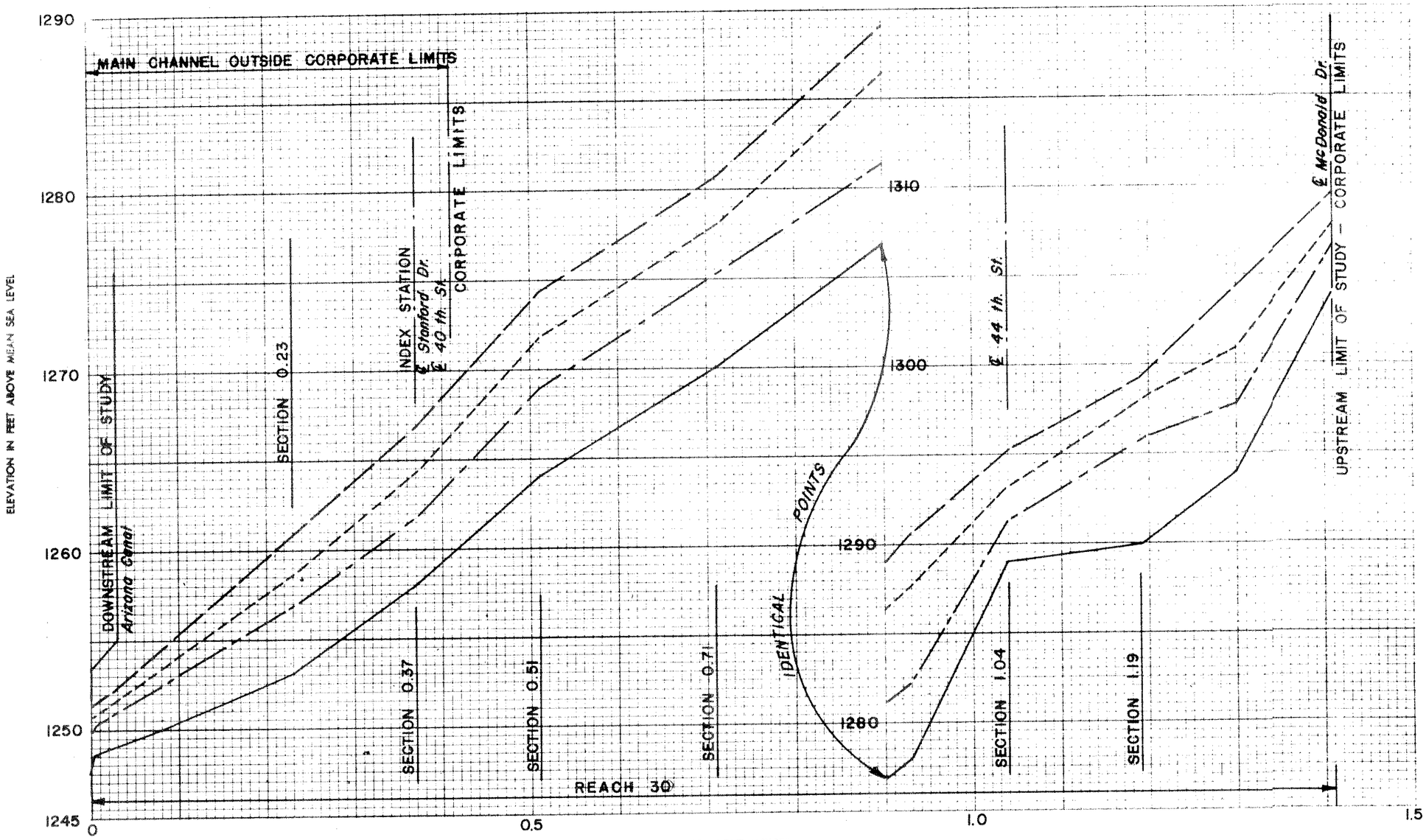
PHOENIX, ARIZONA

FLOOD PROFILES

FLYNN LANE WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

10-Year Flood

Streambed

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

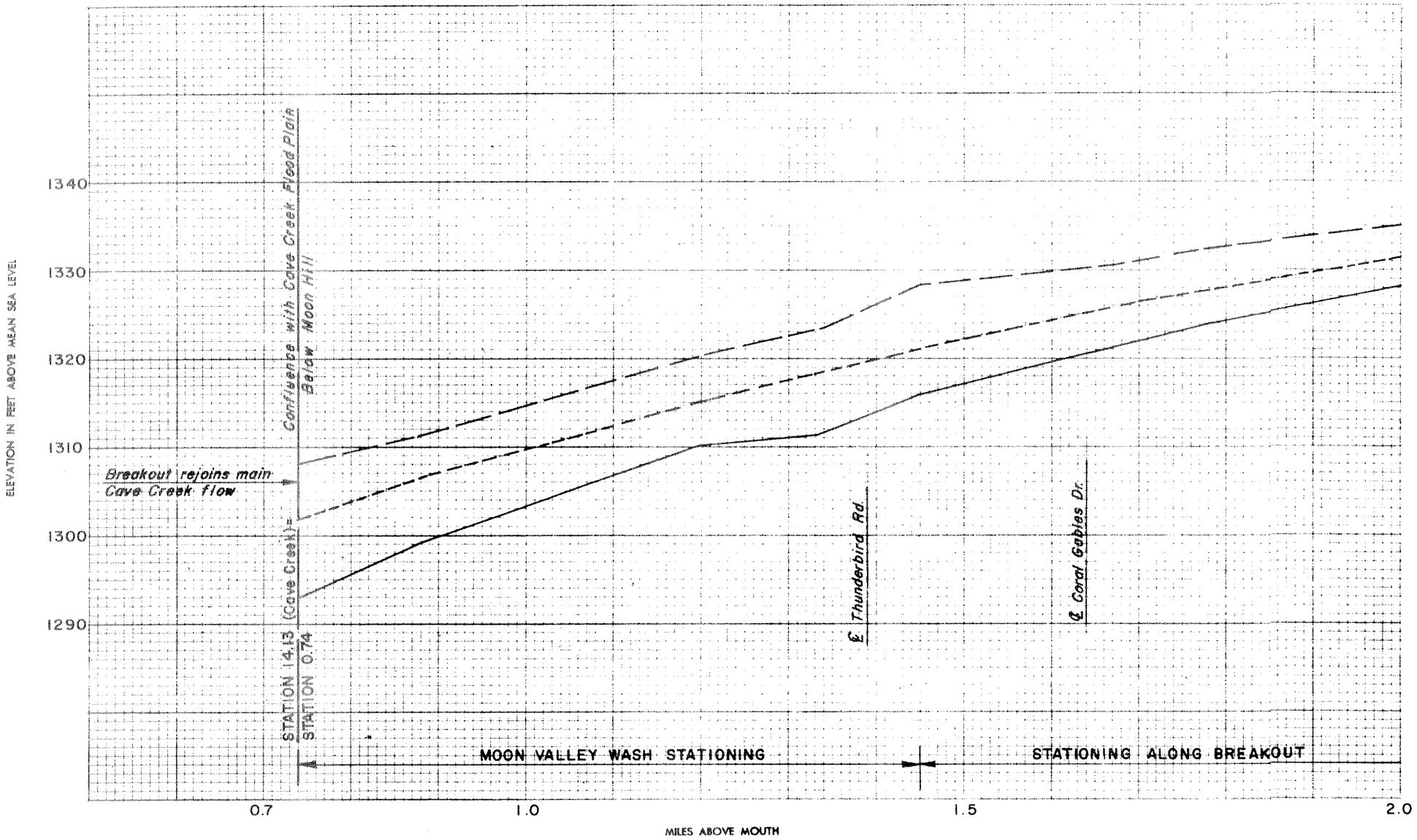
PHOENIX, ARIZONA

FLOOD PROFILES

ECHO CANYON

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

Streambed

NOTE:
For the 100 Yr. & 500 Yr. Floods on Cave Creek the water divides around Moon Hill. These Profiles show the water surfaces which will occur on the east side of Moon Hill due to the breakout from Cave Creek. See Paragraph 6.f. in Text.

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

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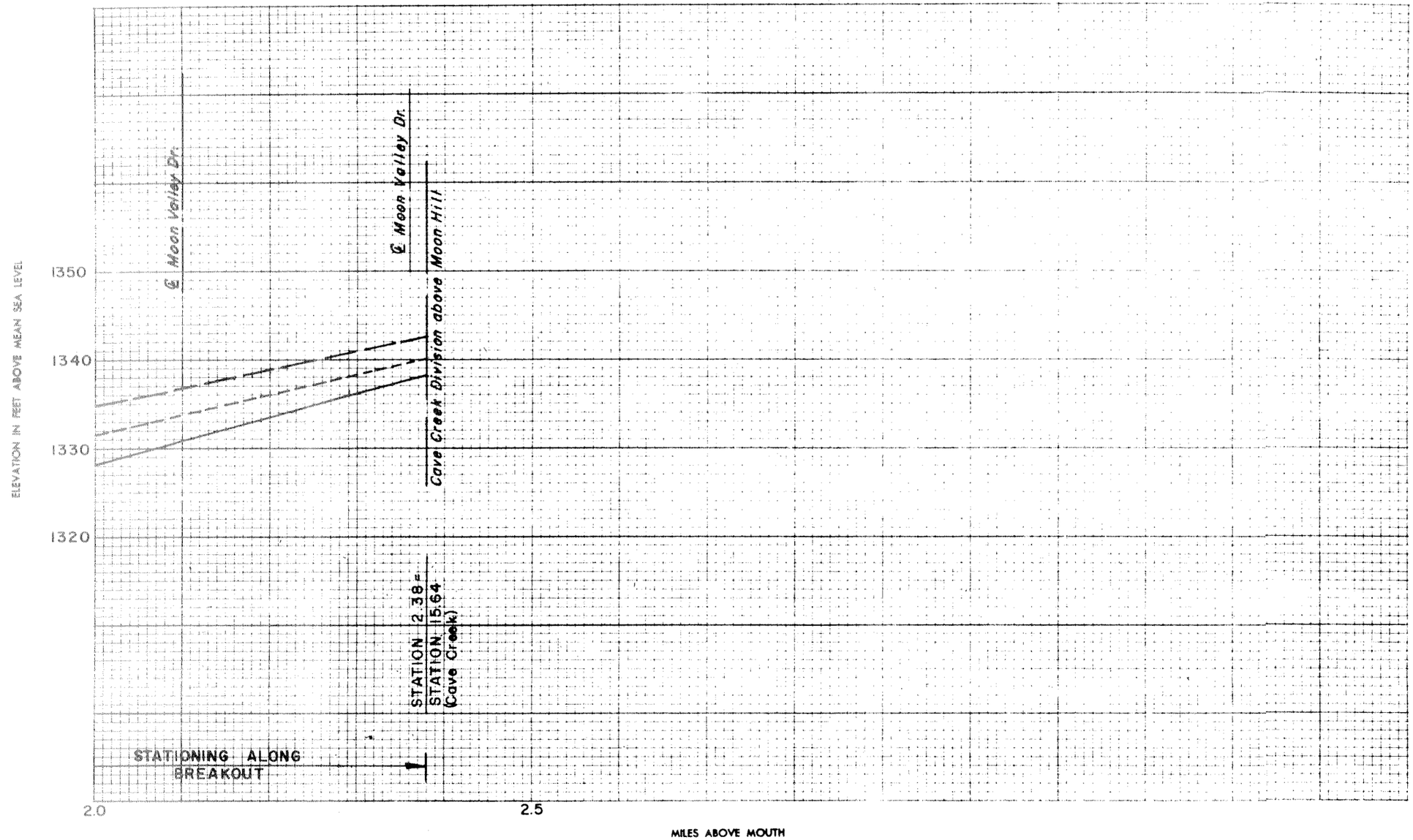
PHOENIX, ARIZONA

FLOOD PROFILES
MOON VALLEY WASH due to
CAVE CREEK BREAKOUT
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

500-Year Flood

100-Year Flood

Streambed

NOTE:
For the 100 Yr. & 500 Yr. Floods on Cave Creek the water divides around Moon Hill. These Profiles show the water surfaces which will occur on the east side of Moon Hill due to the breakout from Cave Creek. See Paragraph 6.f. in Text.

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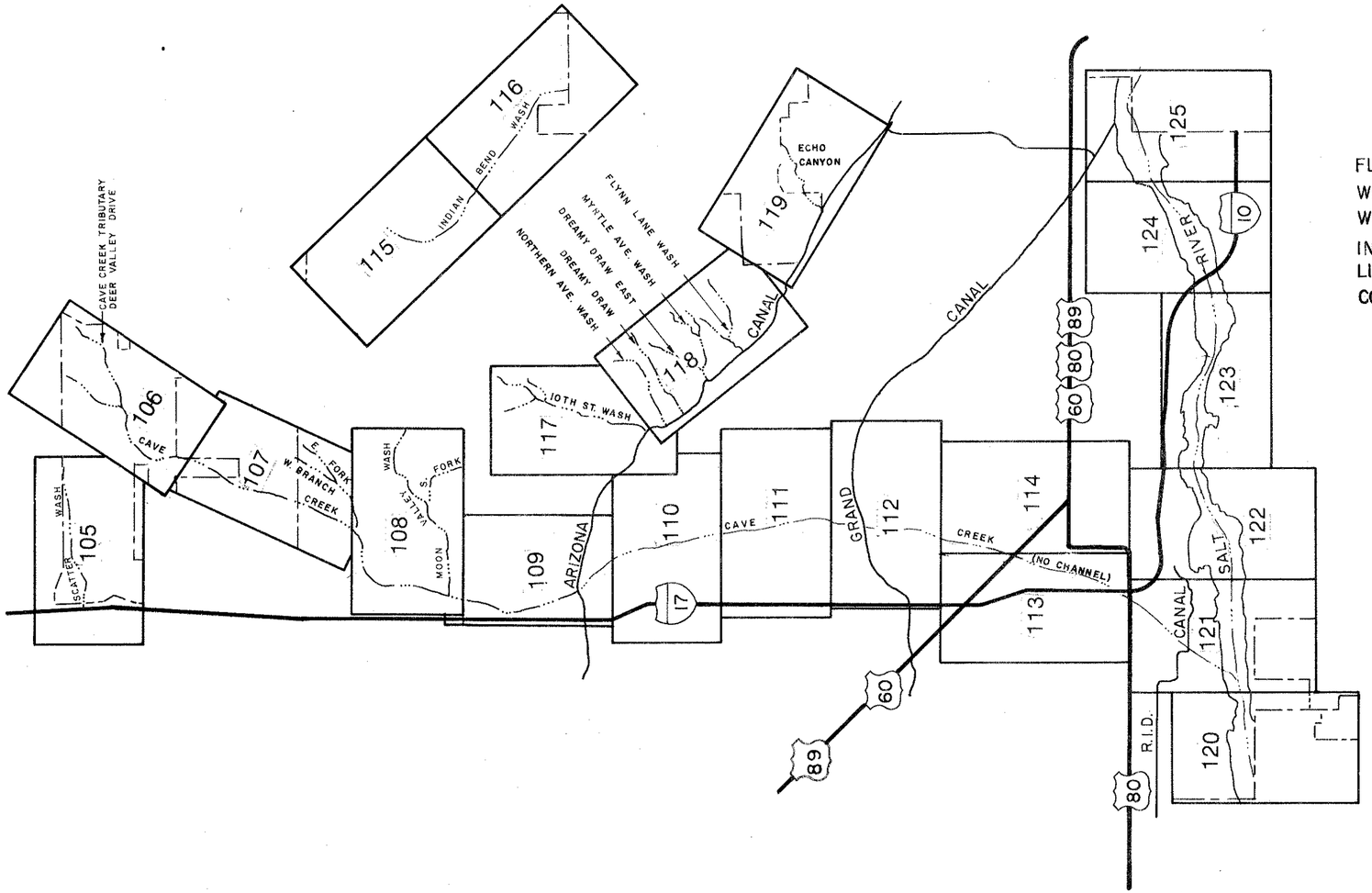
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

FLOOD PROFILES
MOON VALLEY WASH due to
CAVE CREEK BREAKOUT
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



FLOODWAY FRINGES ARE SHOWN ONLY WHERE ENCROACHMENT ON FLOODWAY WOULD NOT CAUSE EXCESSIVE VELOCITIES.

IN ALL OTHER AREAS THE FLOODWAY LIMITS AND BASE FLOOD LIMITS ARE CONTERMINOUS.

N

110

PLATE NUMBER AND LOCATION

CORPORATE LIMITS

STREAMBED

SCALE IN FEET

10000 0 10000

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

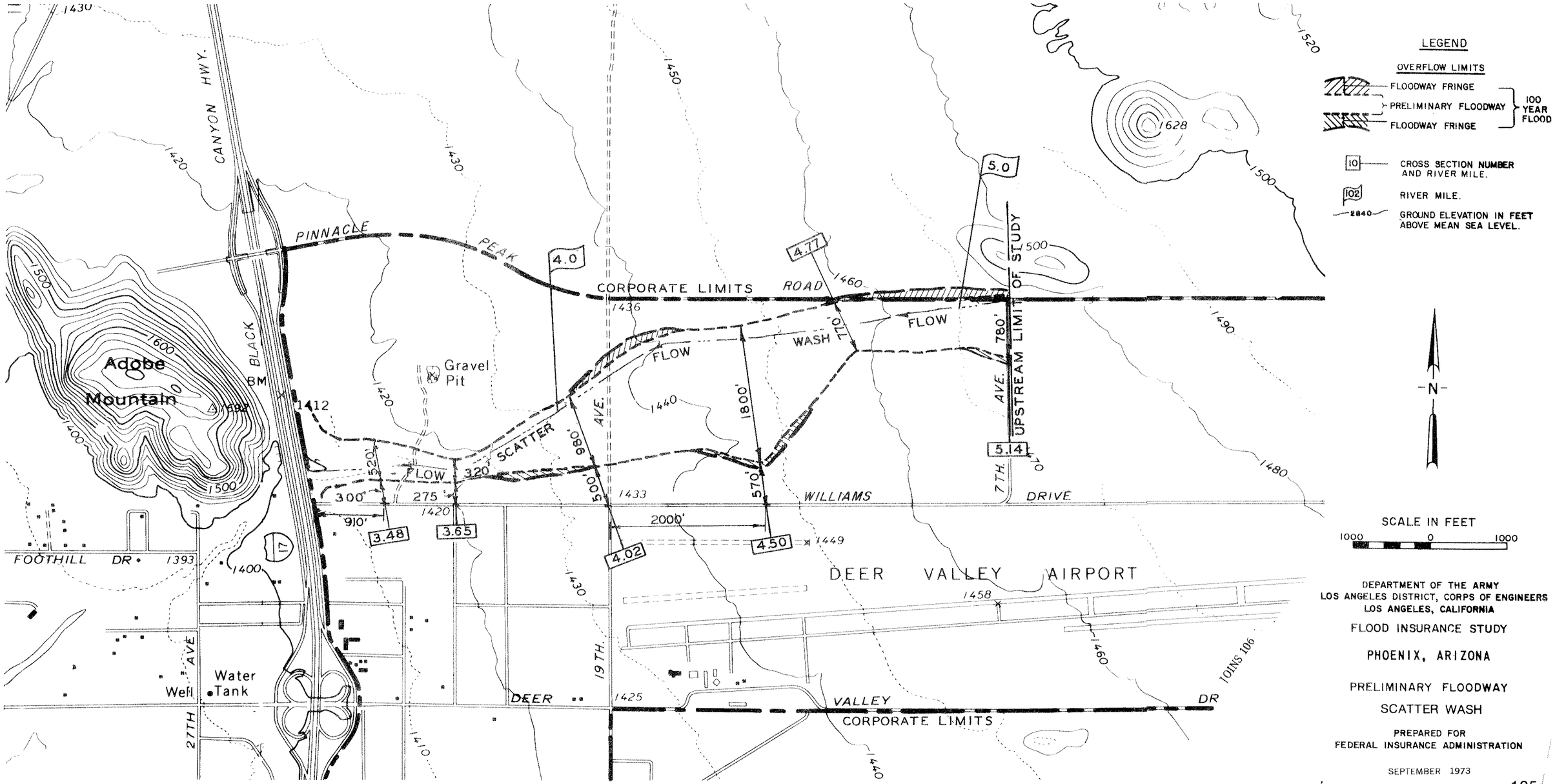
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

PRELIMINARY FLOODWAY INDEX

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973


LEGEND
OVERFLOW LIMITS
FLOODWAY FRINGE
PRELIMINARY FLOODWAY
FLOODWAY FRINGE
100 YEAR FLOOD
CROSS SECTION NUMBER AND RIVER MILE.
RIVER MILE.
GROUND ELEVATION IN FEET ABOVE MEAN SEA LEVEL.
N
SCALE IN FEET
1000 0 1000
DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
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PHOENIX, ARIZONA
PRELIMINARY FLOODWAY
SCATTER WASH
PREPARED FOR
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SEPTEMBER 1973
CANYON HWY.
BLACK
PINNACLE PEAK ROAD
CORPORATE LIMITS
Adobe Mountain
BM 1412
Gravel Pit
FLOW
SCATTER WASH
AVE.
WILLIAMS DRIVE
7TH. AVE.
UPSTREAM LIMIT OF STUDY
DEER VALLEY AIRPORT
FOOTHILL DR.
27TH AVE
Water Well
Tank
19TH
DEER VALLEY DR
CORPORATE LIMITS
3.48
3.65
4.02
4.50
4.77
5.0
5.14
910'
300'
275'
320'
520'
980'
500'
2000'
1800'
570'
770'
780'
101NS 106

LEGEND

OVERFLOW LIMITS

FLOODWAY FRINGE

PRELIMINARY FLOODWAY

FLOODWAY FRINGE

100 YEAR FLOOD

10 — CROSS SECTION NUMBER AND RIVER MILE.

102 — RIVER MILE.

2840 — GROUND ELEVATION IN FEET ABOVE MEAN SEA LEVEL.

N

SCALE IN FEET

1000 0 1000

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

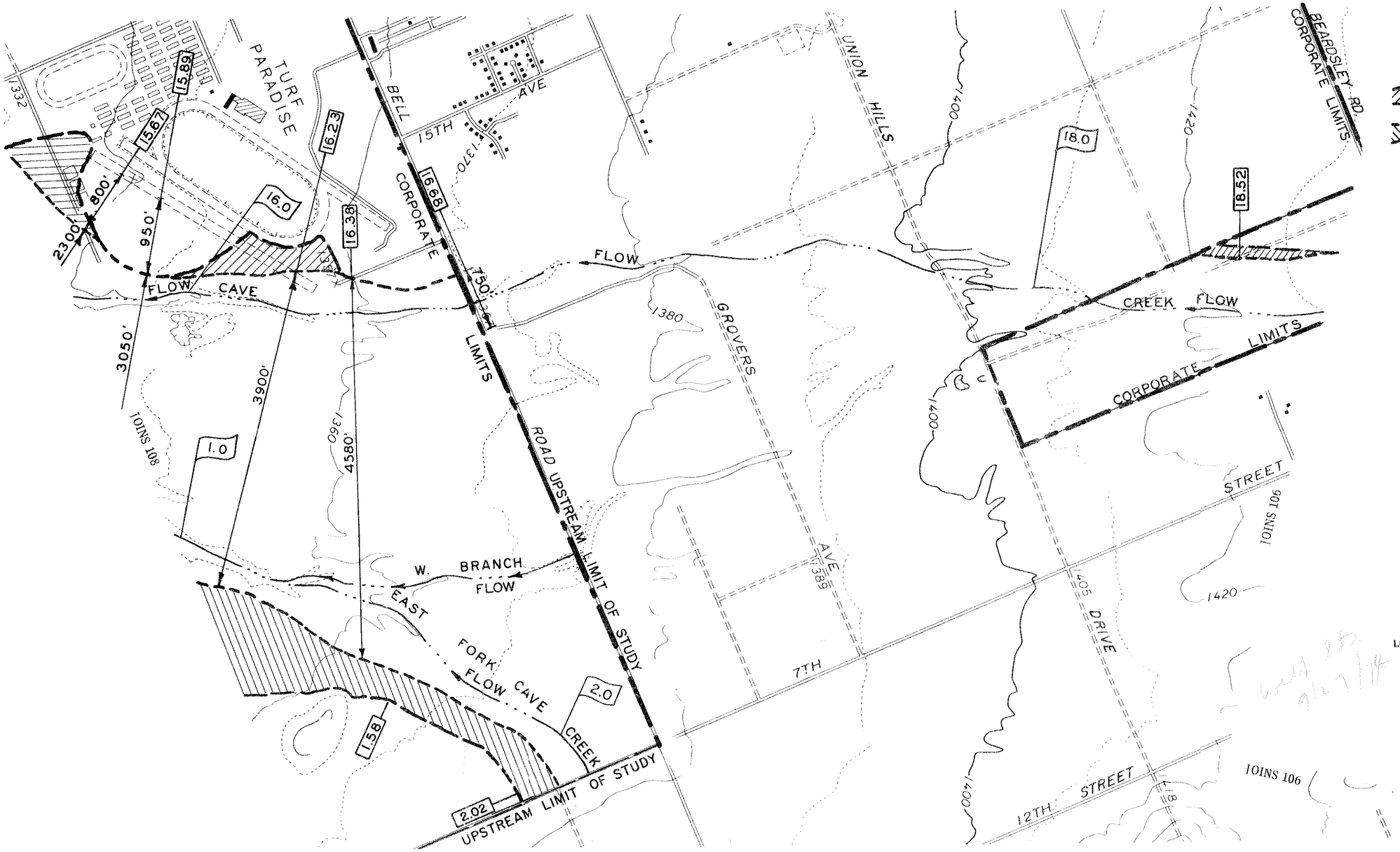
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

PRELIMINARY FLOODWAY
CAVE CREEK
CAVE CR. TRIB.
AT DEER VALLEY DR.

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

OVERFLOW LIMITS

FLOODWAY FRINGE
PRELIMINARY FLOODWAY
FLOODWAY FRINGE
} 100 YEAR FLOOD

10 — CROSS SECTION NUMBER AND RIVER MILE.

102 — RIVER MILE.

2840 — GROUND ELEVATION IN FEET ABOVE MEAN SEA LEVEL.

N

SCALE IN FEET

1000 0 1000

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

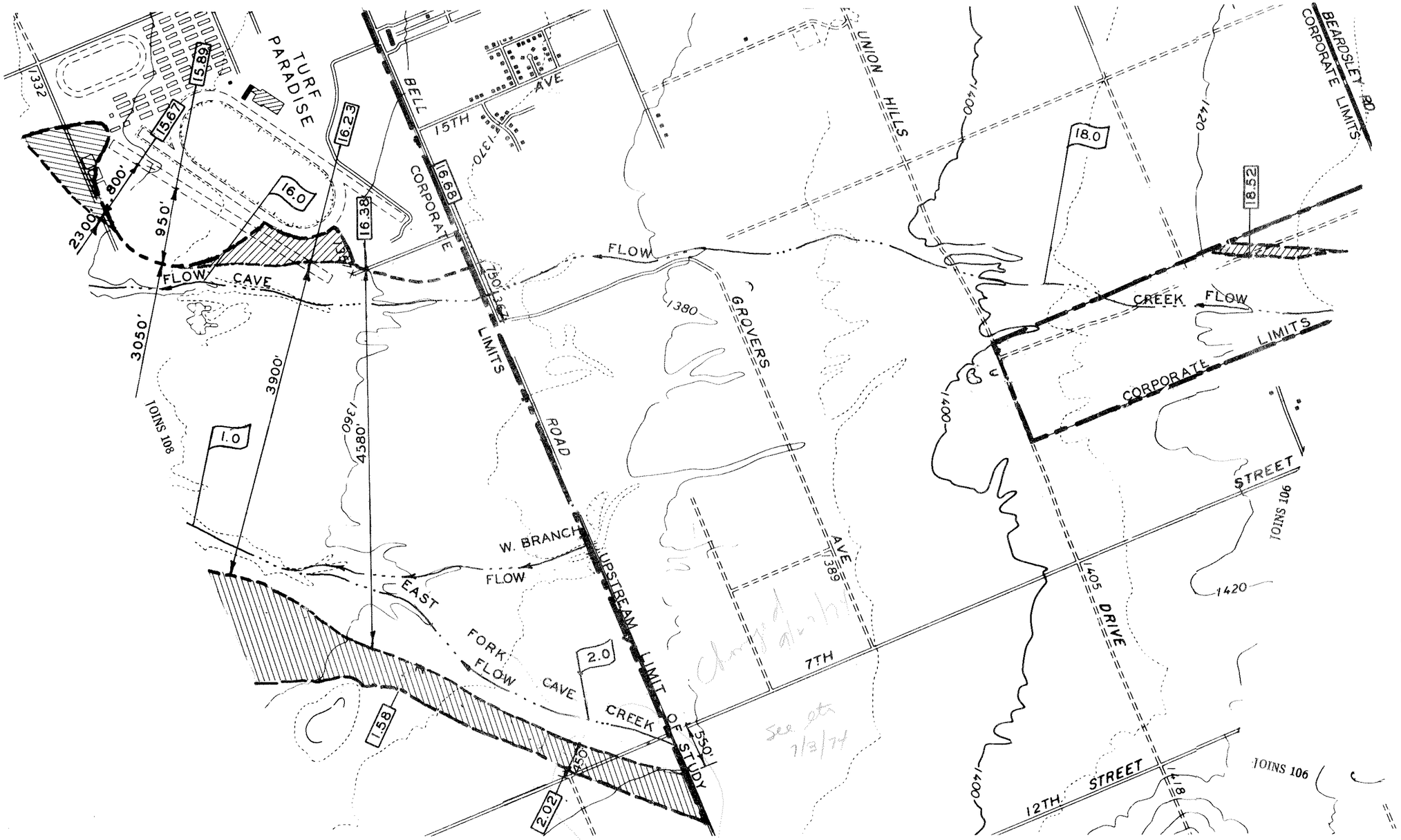
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

PRELIMINARY FLOODWAY
CAVE CREEK
E. FORK CAVE CREEK
W. BRANCH E. FORK CAVE CREEK

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

DECEMBER 1973



LEGEND

OVERFLOW LIMITS

FLOODWAY FRINGE
PRELIMINARY FLOODWAY
FLOODWAY FRINGE
100 YEAR FLOOD

10 — CROSS SECTION NUMBER AND RIVER MILE.

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2840 — GROUND ELEVATION IN FEET ABOVE MEAN SEA LEVEL.

N

SCALE IN FEET

1000 0 1000

DEPARTMENT OF THE ARMY
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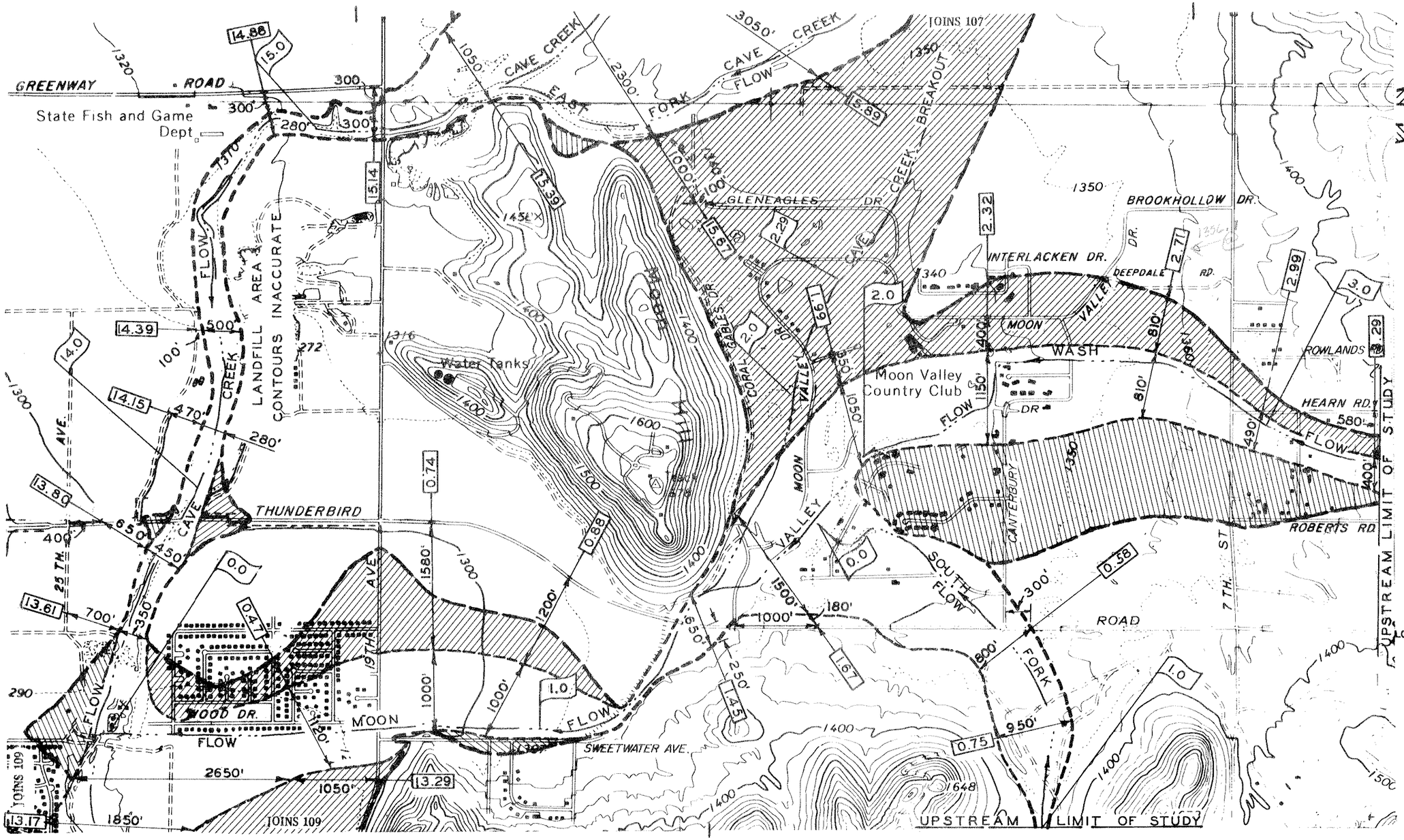
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

PRELIMINARY FLOODWAY
CAVE CREEK
E. FORK CAVE CREEK
W. BRANCH E. FORK CAVE CREEK
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
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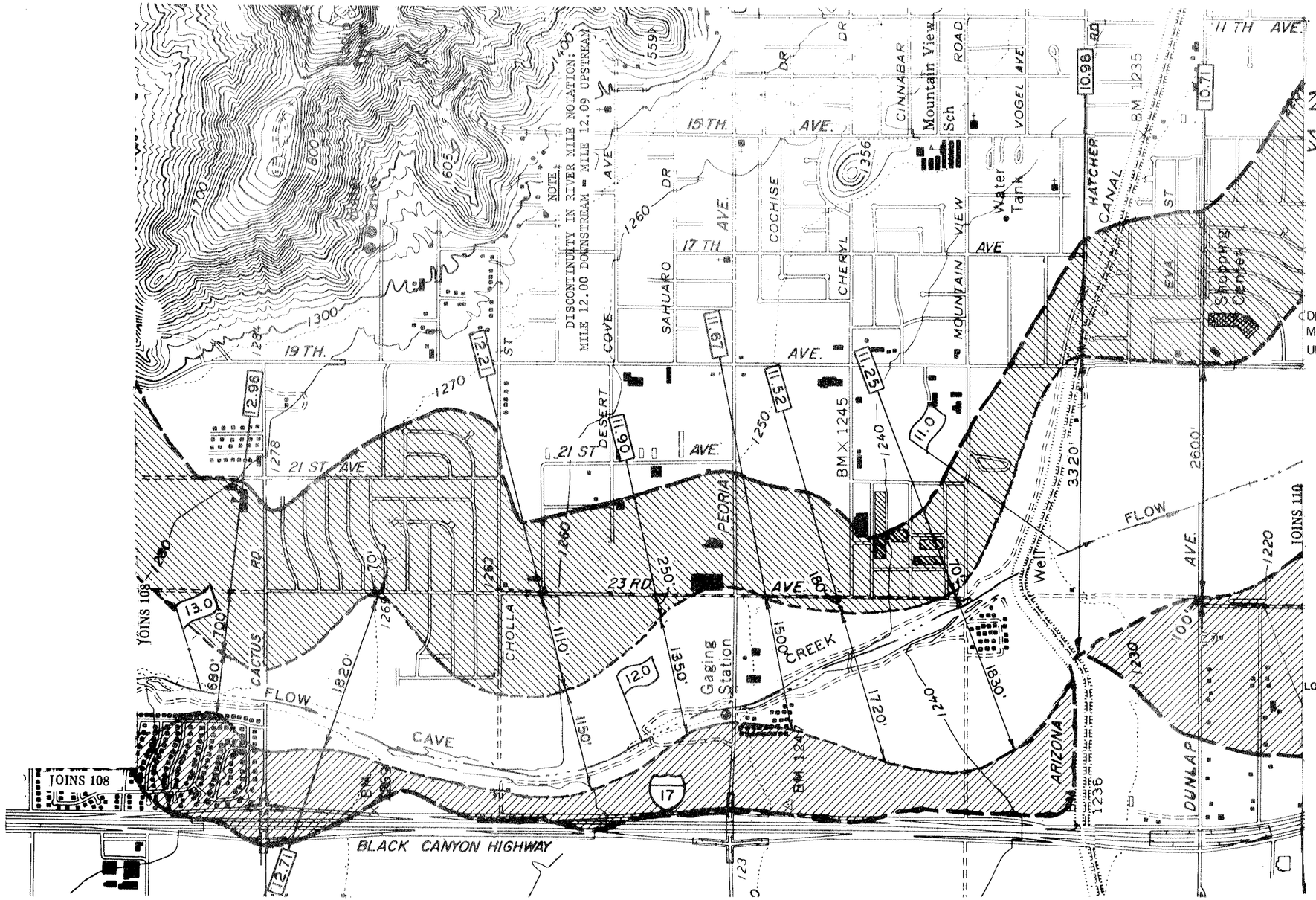
PHOENIX, ARIZONA

PRELIMINARY FLOODWAY
CAVE CREEK
MOON VALLEY WASH
S. FORK MOON VALLEY WASH
PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

OVERFLOW LIMITS

FLOODWAY FRINGE
PRELIMINARY FLOODWAY
FLOODWAY FRINGE
} 100 YEAR FLOOD

10 — CROSS SECTION NUMBER AND RIVER MILE.

102 — RIVER MILE.

2840 — GROUND ELEVATION IN FEET ABOVE MEAN SEA LEVEL.

DISCONTINUITY IN RIVER MILE NOTATION: MILE 12.00 DOWNSTREAM = MILE 12.09 UPSTREAM

N

SCALE IN FEET

1000 0 1000

DEPARTMENT OF THE ARMY
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PHOENIX, ARIZONA

PRELIMINARY FLOODWAY

CAVE CREEK

PREPARED FOR
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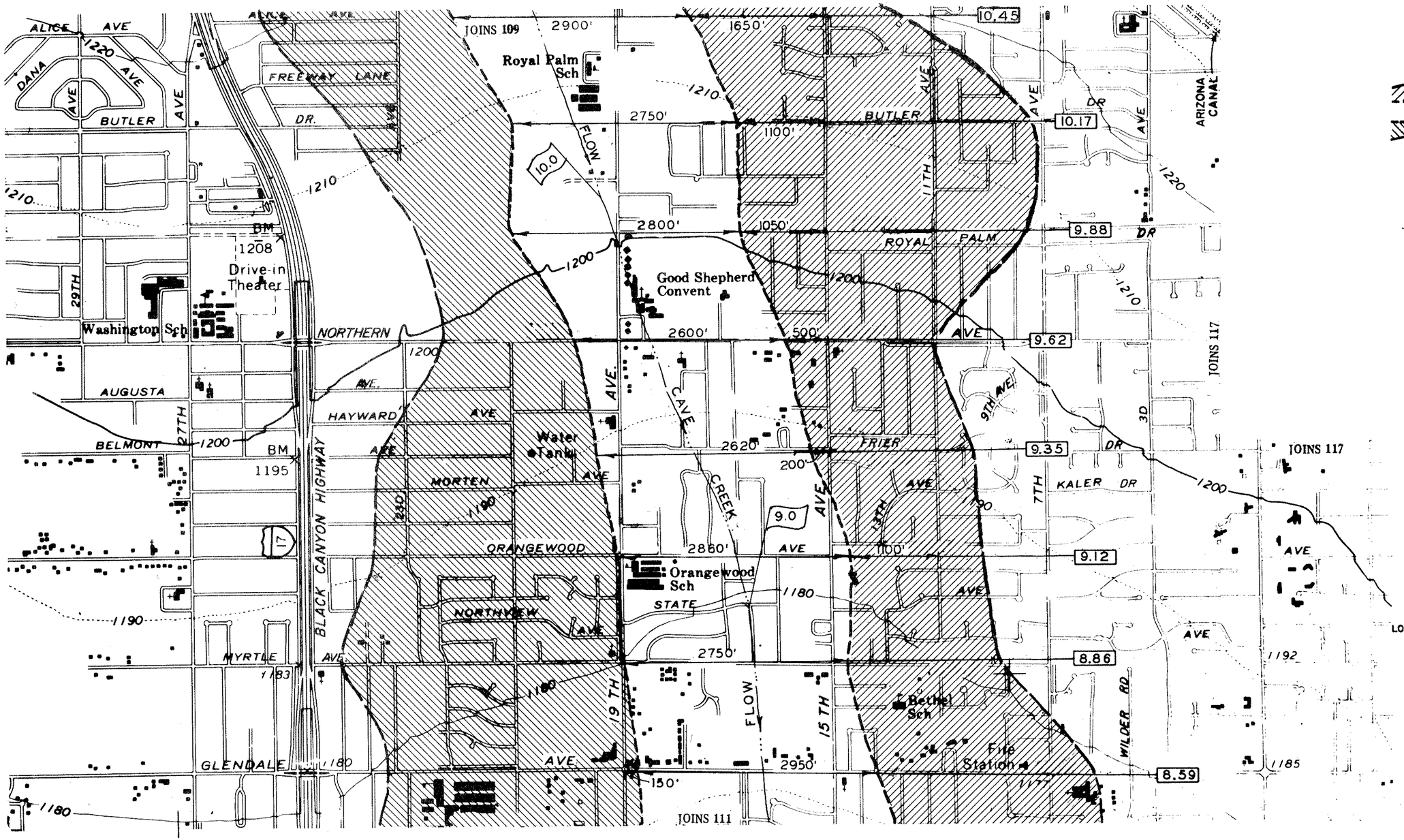

LEGEND

OVERFLOW LIMITS

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PRELIMINARY FLOODWAY
FLOODWAY FRINGE
100 YEAR FLOOD

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N

SCALE IN FEET

1000 0 1000

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

PRELIMINARY FLOODWAY

CAVE CREEK

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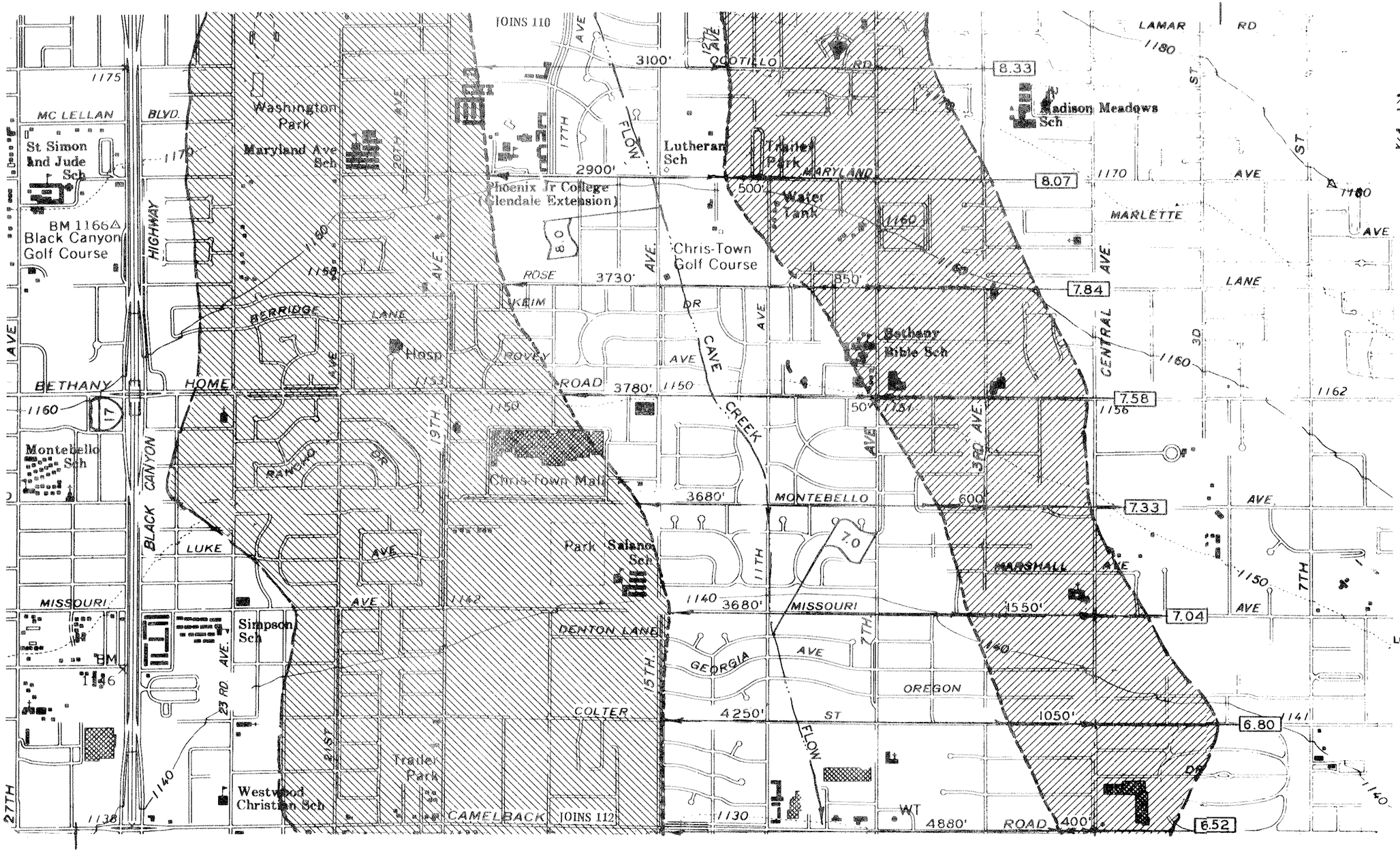

LEGEND

OVERFLOW LIMITS

FLOODWAY FRINGE
PRELIMINARY FLOODWAY
FLOODWAY FRINGE
100 YEAR FLOOD

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N

SCALE IN FEET

1000 0 1000

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

PRELIMINARY FLOODWAY

CAVE CREEK

PREPARED FOR
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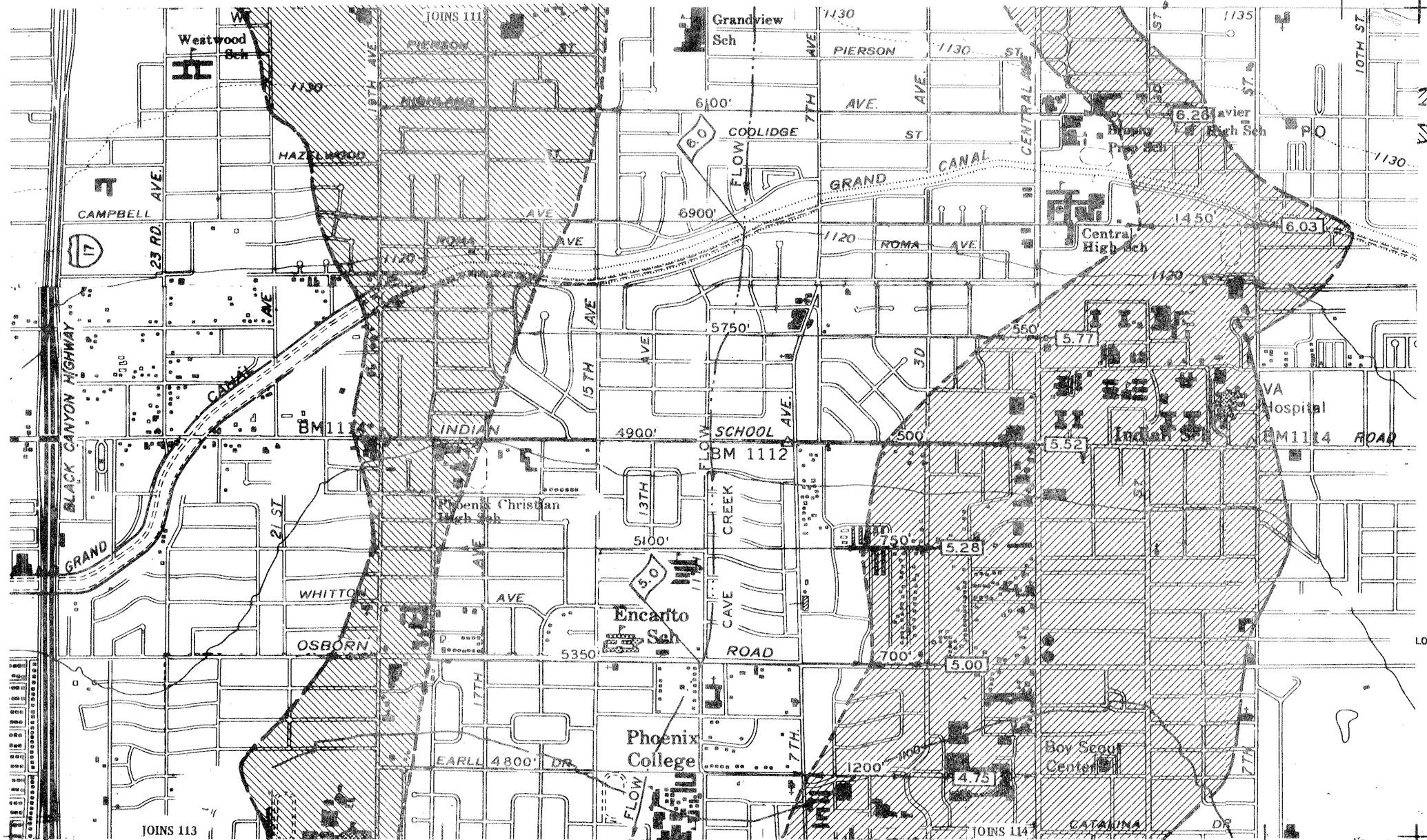
SEPTEMBER 1973



LEGEND

OVERFLOW LIMITS

FLOODWAY FRINGE
PRELIMINARY FLOODWAY
FLOODWAY FRINGE
} 100 YEAR FLOOD

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SCALE IN FEET

1000 0 1000

DEPARTMENT OF THE ARMY
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LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

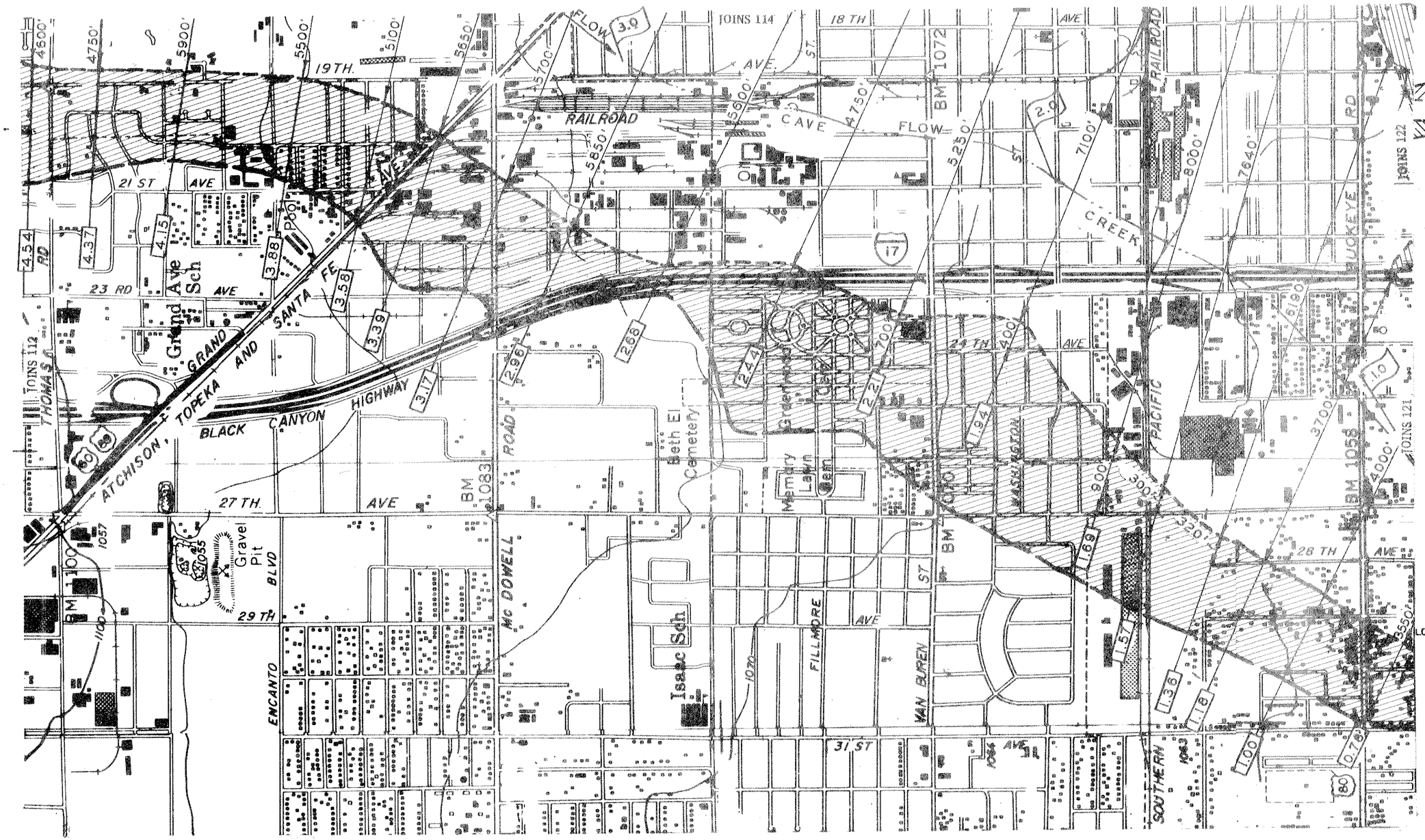
PHOENIX, ARIZONA

PRELIMINARY FLOODWAY

CAVE CREEK

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

OVERFLOW LIMITS

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FLOODWAY FRINGE
} 100 YEAR FLOOD

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SCALE IN FEET

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DEPARTMENT OF T 'E ARMY
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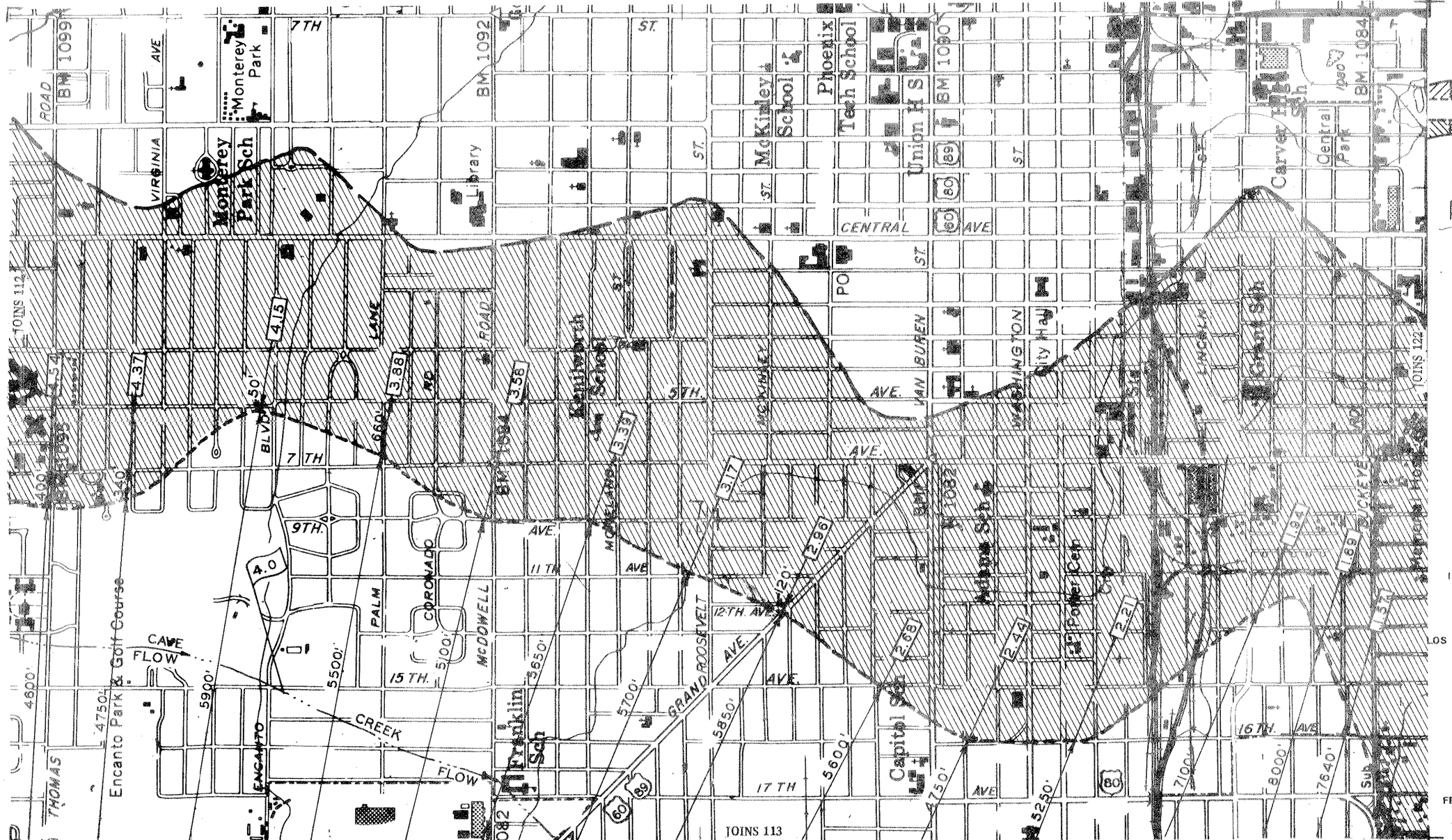
PRELIMINARY FLOODWAY

CAVE CREEK

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



LEGEND

OVERFLOW LIMITS

FLOODWAY FRINGE
PRELIMINARY FLOODWAY
FLOODWAY FRINGE
100 YEAR FLOOD

10 — CROSS SECTION NUMBER AND RIVER MILE.

102 — RIVER MILE.

2840 — GROUND ELEVATION IN FEET ABOVE MEAN SEA LEVEL.

N

SCALE IN FEET

1000 0 1000

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

PRELIMINARY FLOODWAY

CAVE CREEK

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973

LEGEND

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LOS ANGELES DISTRICT, CORPS OF ENGINEERS
LOS ANGELES, CALIFORNIA

FLOOD INSURANCE STUDY

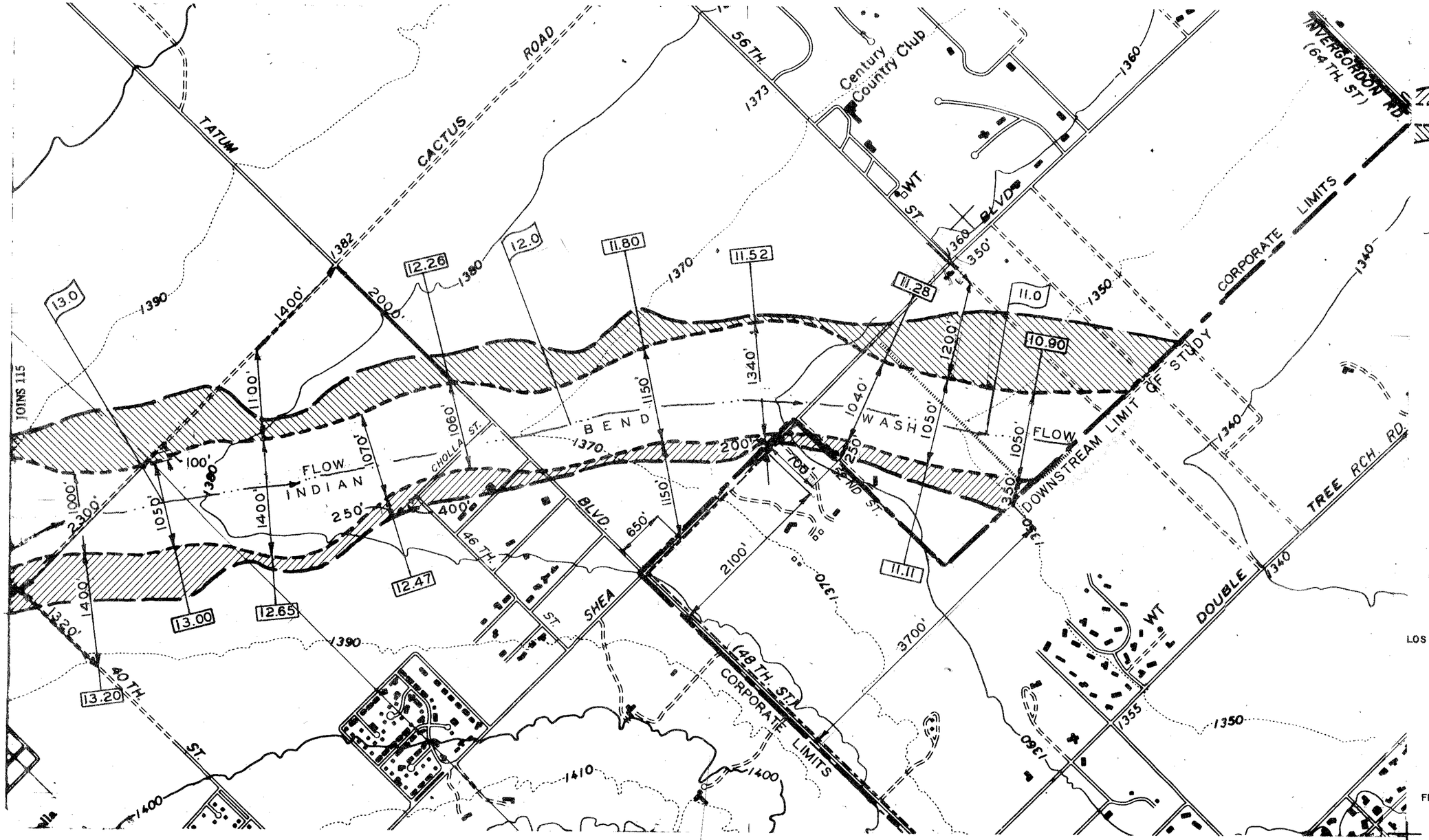
PHOENIX, ARIZONA

PRELIMINARY FLOODWAY

INDIAN BEND WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973


TATUM
CACTUS ROAD
56 TH.
Century Country Club
WT
ST.
BLVD.
INVERGORDON RD. (64 TH. ST.)
CORPORATE LIMITS
DOWNSTREAM LIMIT OF STUDY
INDIAN BEND WASH
FLOW
CHOLLA ST.
46 TH.
SHEA
BLVD.
2ND ST.
148 TH. ST.
CORPORATE LIMITS
DOUBLE TREE RCH. RD.
40 TH. ST.
13.0
12.26
12.0
11.80
11.52
11.28
11.0
10.90
13.00
12.65
12.47
11.11
13.20
1390
1382
1380
1373
1370
1360
1350
1340
1355
1410
1400
1320
1000'
2300'
1400'
1100'
2000'
1050'
1070'
1060'
1150'
1340'
1200'
1040'
1050'
2100'
3700'
650'
400'
250'
100'
200'
700'
350'
LEGEND
OVERFLOW LIMITS
FLOODWAY FRINGE
PRELIMINARY FLOODWAY
FLOODWAY FRINGE
100 YEAR FLOOD
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RIVER MILE.
2840
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SCALE IN FEET
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0
1000
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LOS ANGELES, CALIFORNIA
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PHOENIX, ARIZONA
PRELIMINARY FLOODWAY
INDIAN BEND WASH
PREPARED FOR
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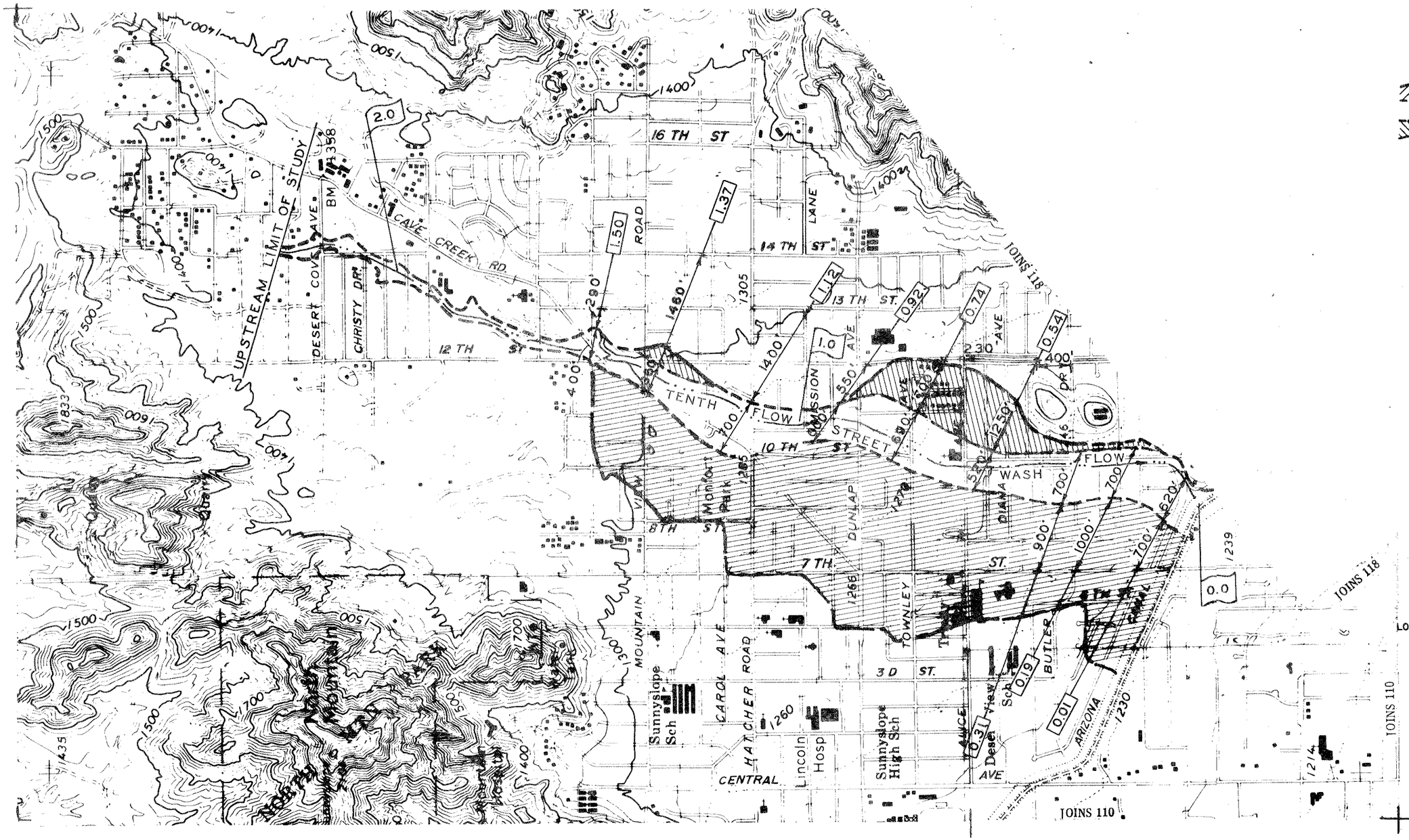
SEPTEMBER 1973



LEGEND

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LOS ANGELES DISTRICT, CORPS OF ENGINEERS
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FLOOD INSURANCE STUDY

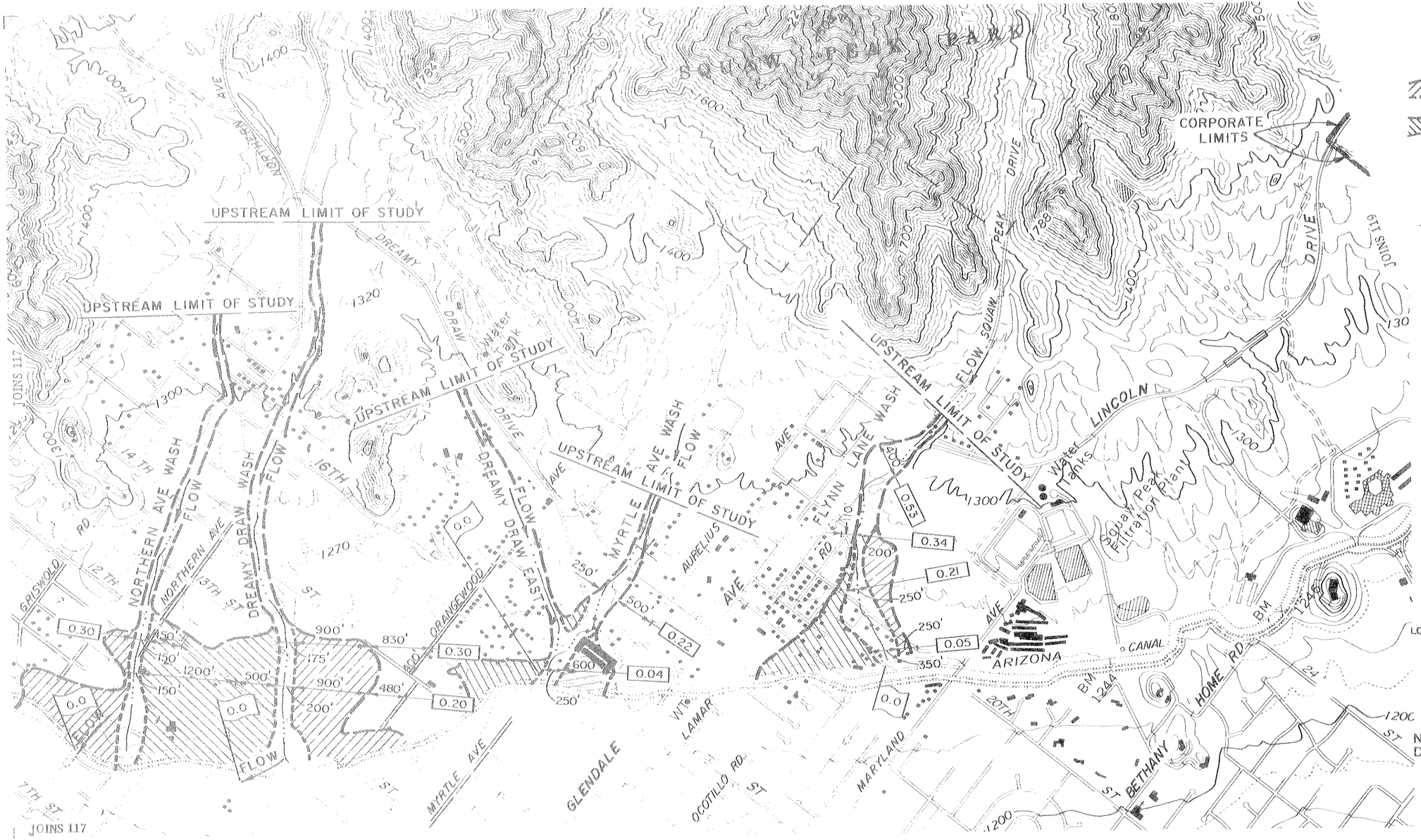
PHOENIX, ARIZONA

PRELIMINARY FLOODWAY

TENTH ST. WASH

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



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LOS ANGELES, CALIFORNIA

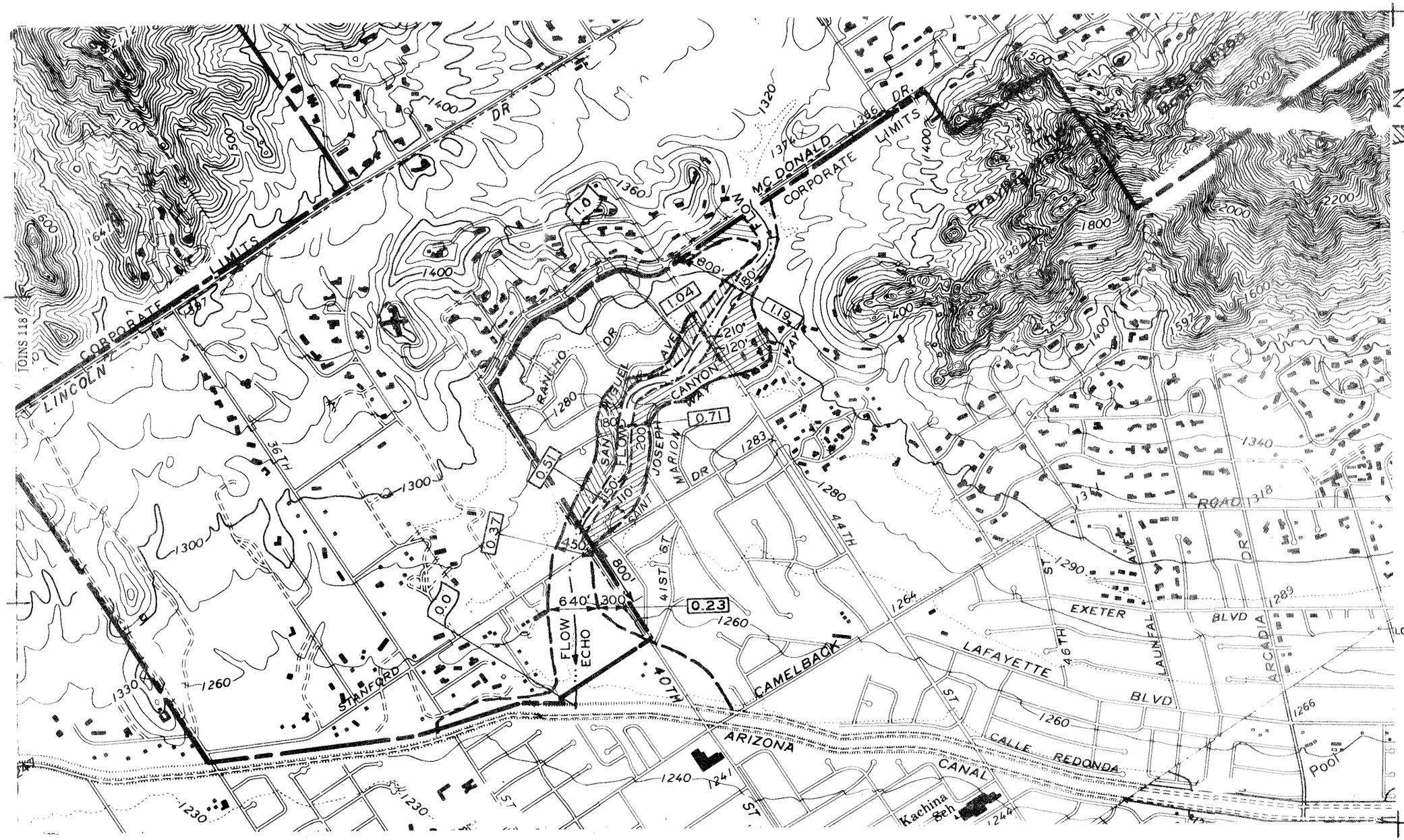
FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

PRELIMINARY FLOODWAY
NORTHERN AVE., DREAMY DRAW
DREAMY DRAW EAST, MYRTLE AVE.
AND FLYNN LANE WASHES

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

DECEMBER 1973



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FLOOD INSURANCE STUDY

PHOENIX, ARIZONA

PRELIMINARY FLOODWAY

ECHO CANYON

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973

LEGEND

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FLOOD INSURANCE STUDY

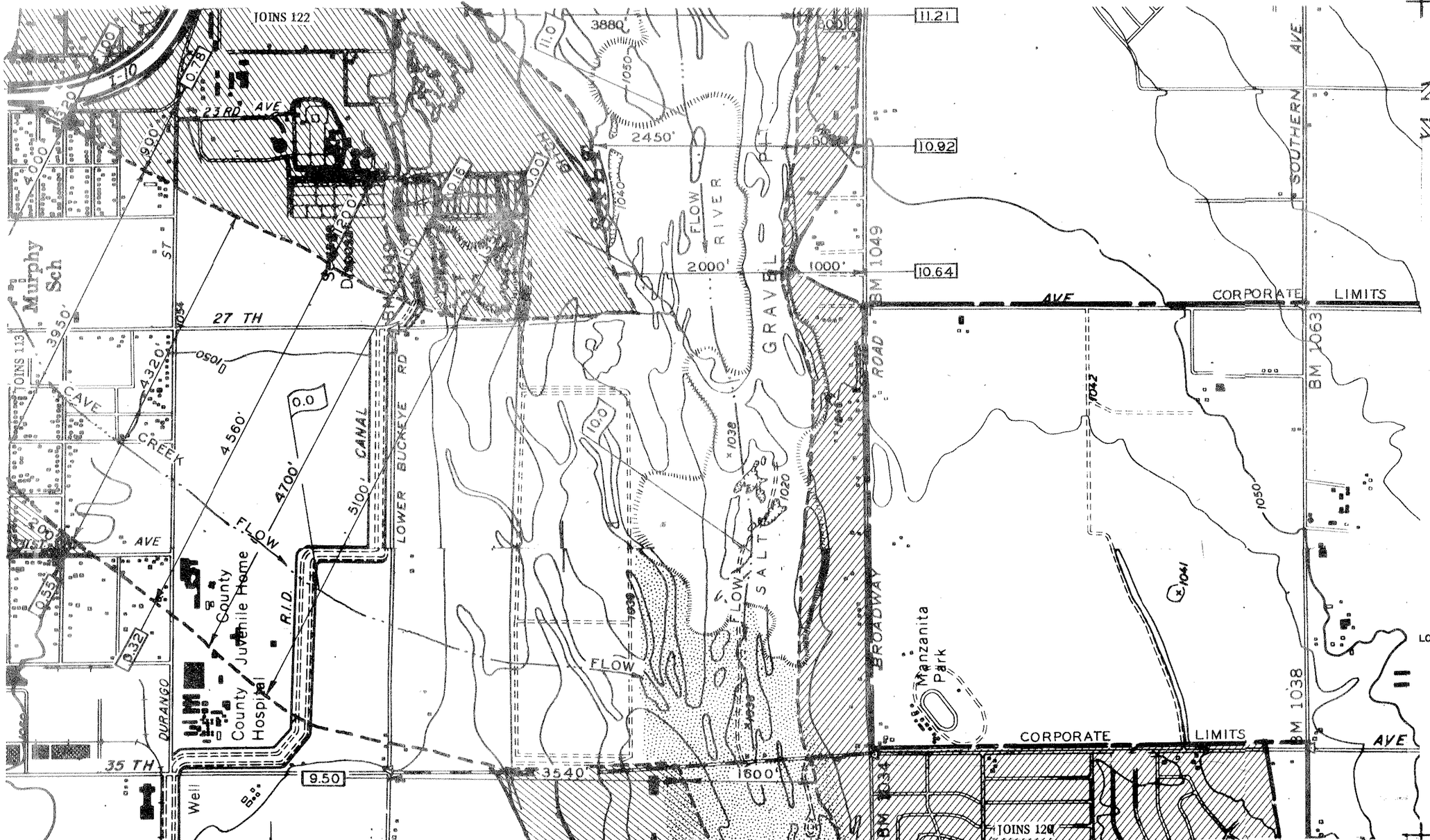
PHOENIX, ARIZONA

PRELIMINARY FLOODWAY

SALT RIVER

PREPARED FOR
FEDERAL INSURANCE ADMINISTRATION

SEPTEMBER 1973



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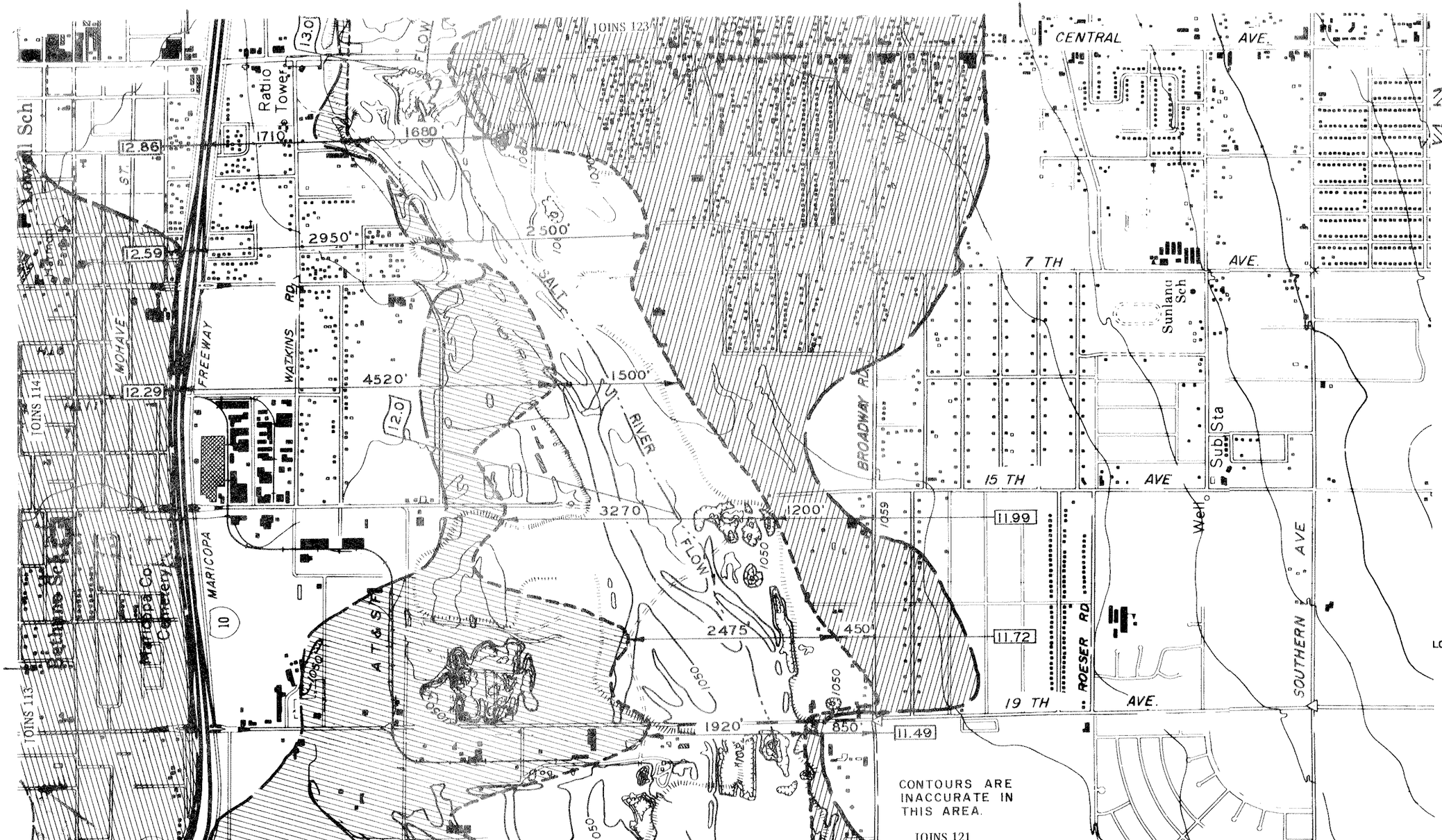

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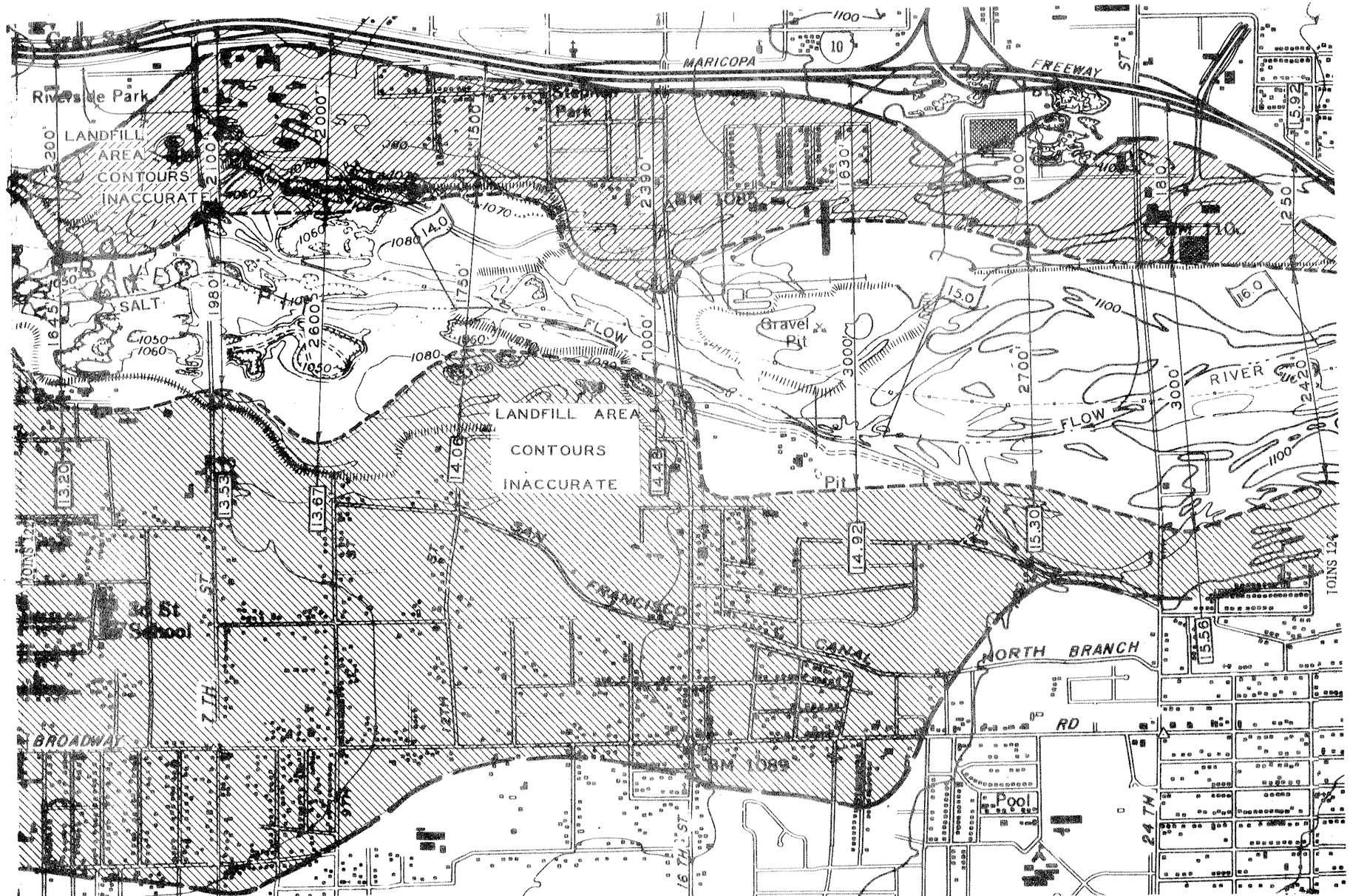

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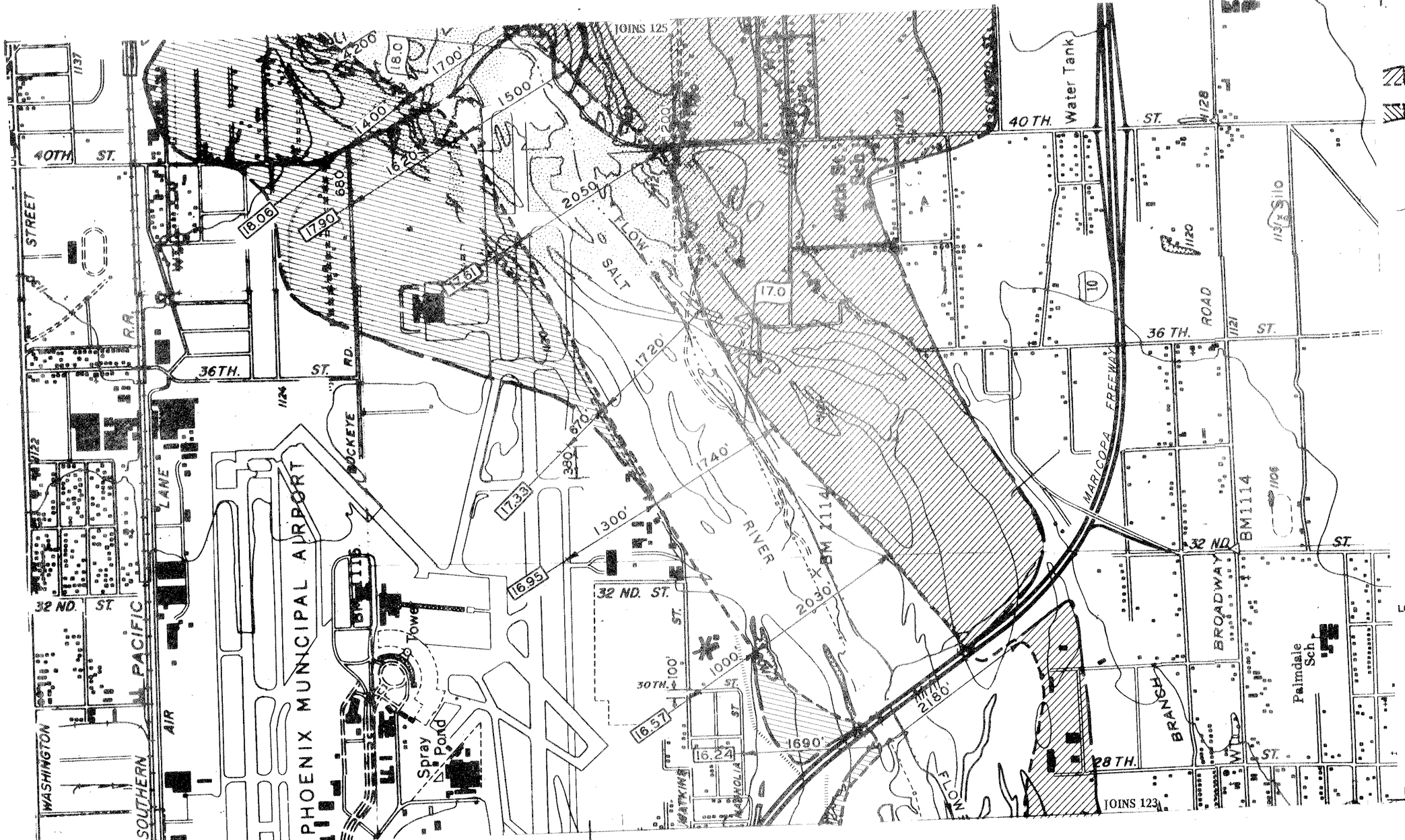

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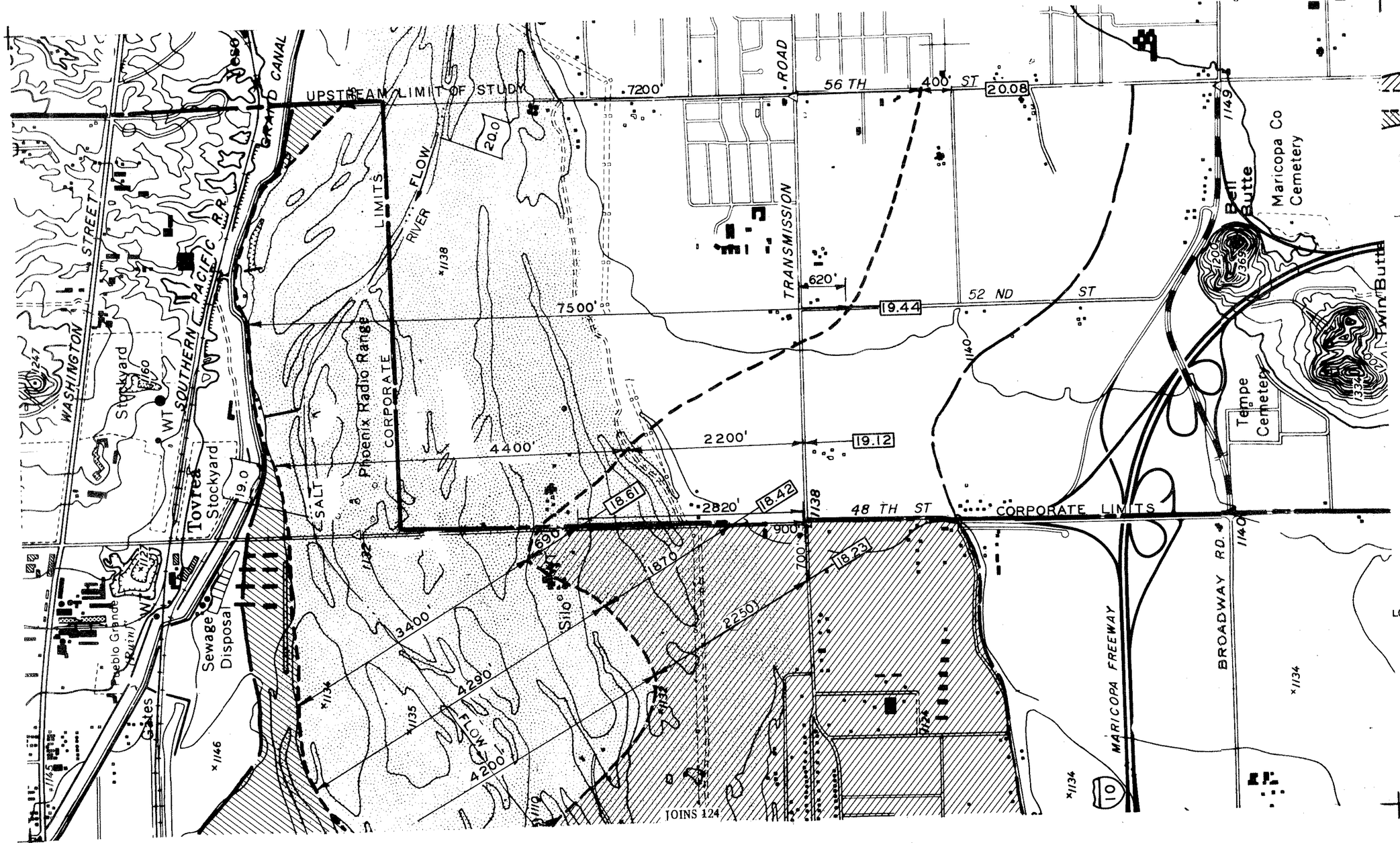

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