

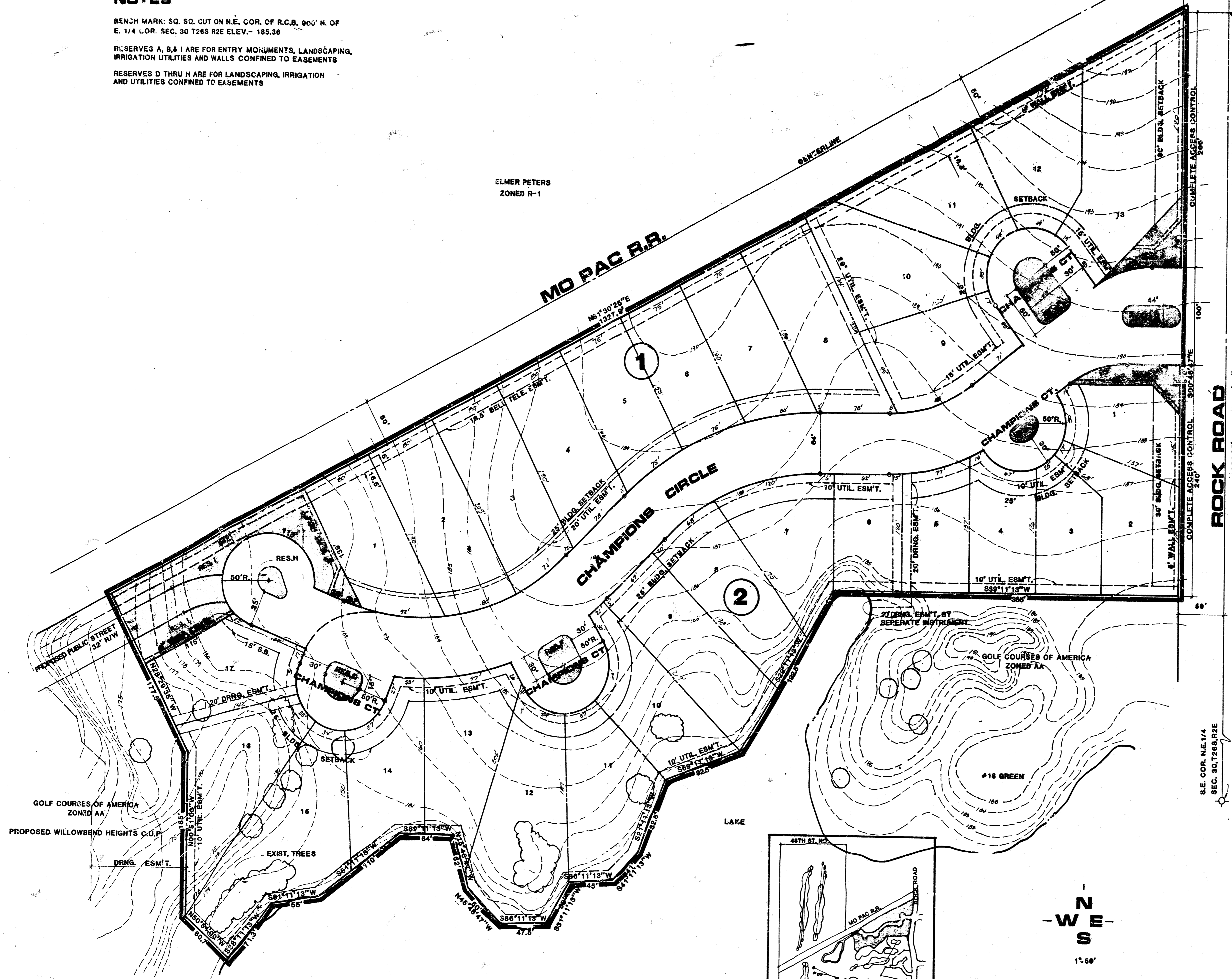
NOTES

BENCH MARK: SQ. 33, CUT ON N.E. COR. OF R.C.B. 900' N. OF E. 1/4 LOR. SEC. 30 T28S R2E ELEV. - 185.38

RESERVES A, B & I ARE FOR ENTRY MONUMENTS, LANDSCAPING, IRRIGATION UTILITIES AND WALLS CONFINED TO EASEMENTS

RESERVES D THRU H ARE FOR LANDSCAPING, IRRIGATION AND UTILITIES CONFINED TO EASEMENTS

ELMER PETERS
ZONED R-1



WILLOWBEND 2ND ZONED AA
5TH

CHAMPIONS

WILLOWBEND 2ND ADD. ZONED AA
WILLOWBEND

PRELIMINARY PLAT
WILLOWBEND
OWNER: GOLF COURSES OF AMERICA, 4110 N. TARA CIRCLE WICHITA, KANSAS 67220

Bill G. Yung Design
4812 E. 20TH STREET NORTH, WICHITA, KS 67220
318-833-6667
date: JUNE 14, 1987
rev.: JUNE 18, 1987
sheet title: PRELIMINARY PLAT
project: WILLOWBEND 6TH ADDITION
sheet: 6TH OF

October 14, 1987

Re: Conditional Letter of Map Revision
East Fork of Chisholm Creek, Wichita, KS

Mr. Charles A. Lindsey, Chief
Federal Emergency Management Agency
500 C Street, SW, Room 422
Washington, D.C. 20472

Dear Mr. Lindsey,

We are submitting the following information for your review for the above referenced project:

1. Memo from Mid-Kansas Engineering Consultants to Mr. Chris Breitenstein outlining hydraulic calculations. Attachments to the memo include HEC-2 print-out.
2. Letter from Mr. Chris Breitenstein to your office acknowledging his concurrence with study.

We appreciate your consideration of this information. If additional information is needed, please feel free to contact this office.

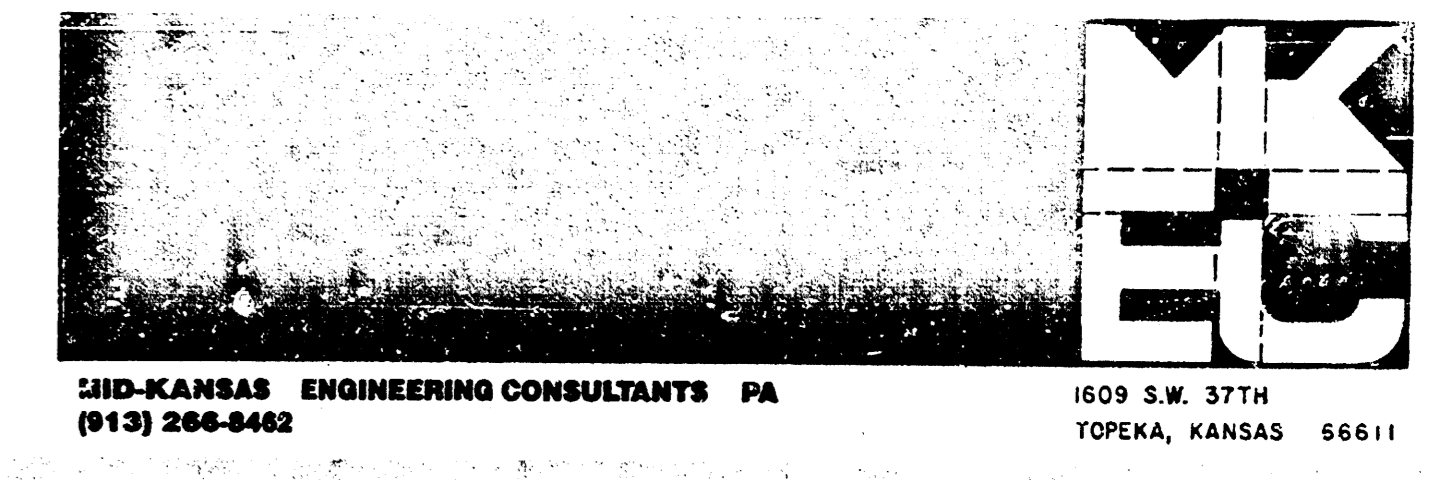
Very truly yours,
MID-KANSAS ENGINEERING CONSULTANTS, PA

John W. White
John W. White, P.E.

JHW:ak

Enclosures

cc: Chris Breitenstein, City of Wichita
Ken Bengtson, MKEC, Wichita



WICHITA

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
CITY HALL - SEVENTH FLOOR
100 N. MAIN STREET
WICHITA, KANSAS 67202
(913) 268-4400

October 1, 1987

Mr. Charles A. Lindsey, Chief
Federal Emergency Management Agency
Federal Insurance Administration
Office of Risk Assessment
Technical Operations Division
500 C Street, SW, Room 422
Washington, D.C. 20472

Subject: Conditional Letter of Map Revision

Dear Mr. Lindsey:

This letter is to acknowledge review and concurrence with the hydraulic study performed by Mid-Kansas Engineering Consultants, P.A., on a portion of the East Fork of Chisholm Creek.

Sincerely,
Chris A. Breitenstein
Chris A. Breitenstein, P.E.
Civil Engineer III

CJB:gr

cc: Willow Bend Heights Plat File



CONFIRMATION MEMO

PROJECT: East Fork of Chisholm Creek
(Willow Bend Heights)
PROJECT NO.: DATE: 9/29/87
TO: Chris Breitenstein
FROM: John White
REF: Summary of Hydraulic Review

This memo is written to summarize the findings of our hydraulic review of the East Fork of Chisholm Creek in Wichita, Kansas. Our study began north of 37th Street and extended to the downstream end of the Missouri Pacific Railroad. Attached is a copy of the flood boundary map for the study area.

Hydraulic analysis was completed using the HEC2 computer program. Cross section data for input was taken from field surveys. Starting elevations and 100 year flows were taken from the FEMA report dated May 15, 1986.

Two water surface profiles were developed for review. The first profile considered existing conditions. For an existing condition, the "n" factor used was relatively low. With these "n" factors, the calculated profile was similar to higher than that presented in the FEMA report. These elevations are outlined in the attached table.

The discrepancies in the two profiles were considered acceptable because of potential variances that would be expected in the methods of gathering cross section data.

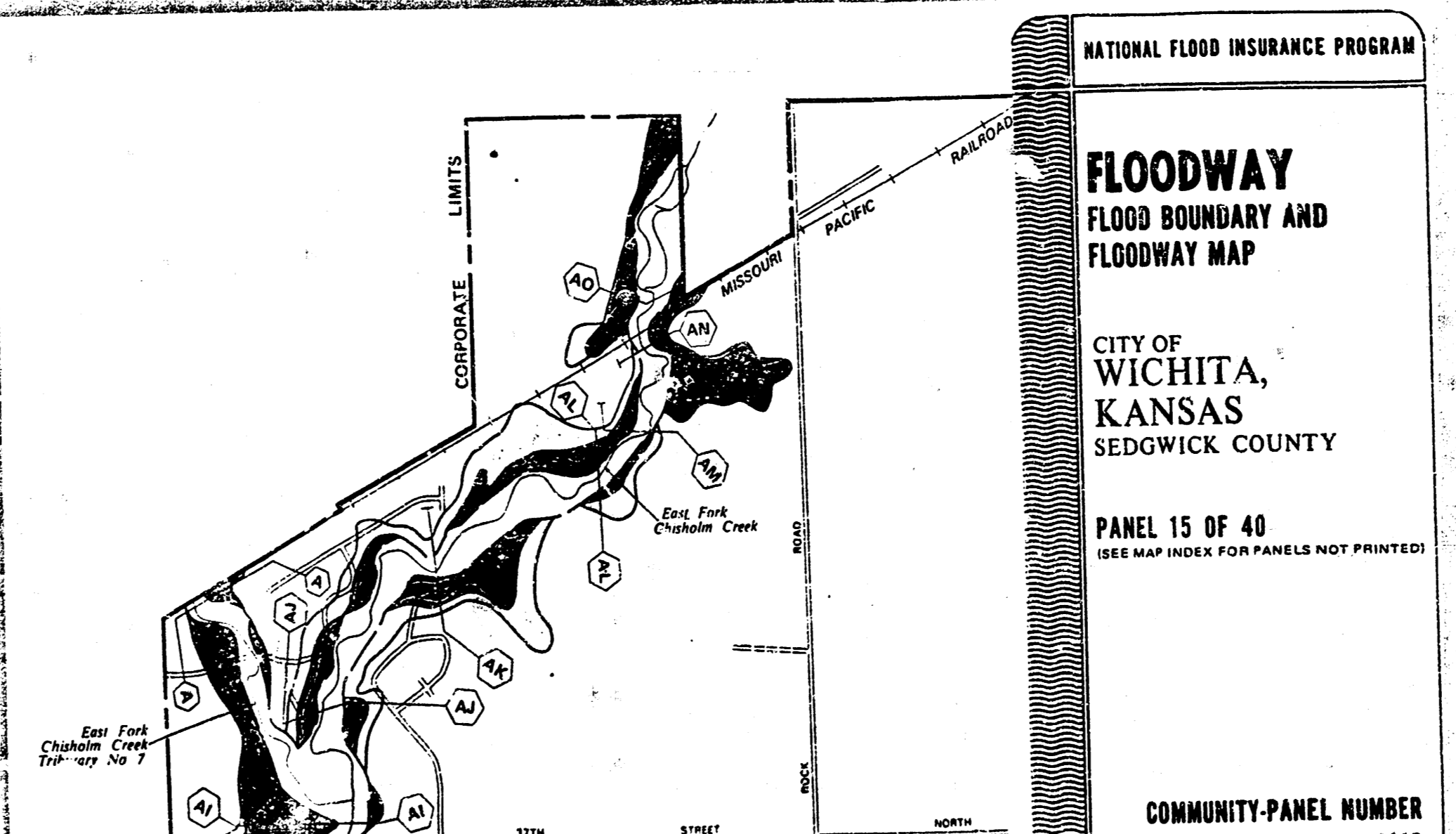
The profile for the improved conditions considered an improved channel for the first 800 feet downstream of the Missouri Pacific Railroad. The improved channel will have a 52 foot flat bottom with near vertical limestone rock walls up 5 feet to a flat bench on each side. The bench will be 15 feet wide with 1:2 side slopes. The model assumed that low areas along the channel were filled to an elevation above the maximum high water.

The improved channel profile indicates a reduction of about 0.5 feet in

EAST FORK CHISHOLM CREEK
Wichita, Kansas

MKEC Station	FEMA Section	FEMA 100 Year	MKEC 100 Year Existing	MKEC 100 Year Improved
50+00	AK	1364.1	1364.10	1364.10
55+50			1364.58	1364.58
60+00			1365.04	1365.04
64+00			1365.91	1365.91
68+00	AL	1366.2	1366.38	1366.38
70+00			1366.75	1366.75
72+00			1366.56	1366.86
75+00	AM	1367.3	1367.84	1367.04
80+00 (1)	AN	1368.1	1368.91	1367.63

(1) Downstream of Missouri Pacific Railroad



NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY FLOOD BOUNDARY AND FLOODWAY MAP

CITY OF WICHITA, KANSAS SEDGWICK COUNTY

PANEL 15 OF 40
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER

NO.	DESCRIPTION	DATE	BY
1	WILLOWBEND HEIGHTS WICHITA KANSAS		
2	PROPOSED CHANGE IMPROVEMENTS		
3	100 YEAR FLOW		

THIS PLAN EXECUTED 05/11/87

