

September 23, 1986

Columbia Engineering & Services, Inc.
5775A Glenridge Drive, Suite 202
Atlanta, GA 30328

Attention: Ali Mohajer

Dear Mr. Mohajer:

Please find enclosed one (1) set of plans we received from you on September 19, 1986, for certain private improvements for the Builders Square Development in Wichita, Kansas. The plans have been reviewed and our comments are on the plans.

When the plans have been updated to address comments, please resubmit them for review along with the "marked set" contained in this transmittal.

If I may be of further assistance, please advise.

Sincerely,



Carl Gipson, P.E.
Civil Engineer III

CG:gf

enclosure

COLUMBIA ENGINEERING & SERVICES, INC.
 5775A Glenridge Drive Suite 202
 ATLANTA, GEORGIA 30328

LETTER OF TRANSMITTAL

(404) 256-9088

DATE	9 - - 86	JOB NO.	1065
ATTENTION			
MR CARL GIBSON			
RE:			
WICHITA BUILDER'S SQUARE			

TO MR CARL GIBSON
City Engineer office, City Hall, 7th floor
455 NORTH Main st WICHITA KS
67202

WE ARE SENDING YOU Attached Under separate cover via FED-EX the following items:

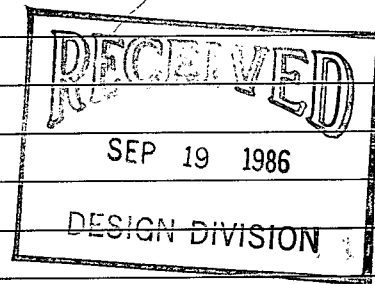
- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
2	9-16-86	C-10	TITLE SHEET + WATER LINE PLAN & PROFILE SHEET
2	9-16-86	C-11	" " + SAN SEWER PLAN & PROFILE SHEET

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____



COPY TO MR. ROBERT YOUNKIN, TIM BAKER @ E.B. ROBERTS
MR. BOB BARNES, MR ART HARDEN

SIGNED: ALI MOHAJER

COLUMBIA ENGINEERING & SERVICES, INC.

5775A Glenridge Drive Suite 202
ATLANTA, GEORGIA 30328

(404) 256-9088

LETTER OF TRANSMITTAL

TO MR. TEM BAKER
E.B. ROBERTS

DATE	9 - -86	JOB NO.	1065
ATTENTION	MR. TEM BAKER		
RE:	WICHITA . BUILDER'S SQUARE		

WE ARE SENDING YOU Attached Under separate cover via FED-EX the following items:

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COPY TO MR. CARL GIBSON, MR. ROBERT YOUNG
MR. ART HARDEY, MR. BOB BARNES

SIGNED: ALI MOHAJER

COLUMBIA ENGINEERING & SERVICES, INC.

5775A Glenridge Drive Suite 202
ATLANTA, GEORGIA 30328

(404) 256-9088

LETTER OF TRANSMITTAL

TO MR BOB BARNES

DATE	9 - - 86	JOB NO.	1065
ATTENTION	MR BOB BARNES		
RE:	WICHITA BUILDER'S SQUARE		

WE ARE SENDING YOU Attached Under separate cover via FED-EX the following items:

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COPY TO MR ROBERT YOUNG
MR ART HARDEN. MR CARL GIBSON
MR TIM BAKER @ E.B. ROBERTS

SIGNED: ALI MOHAJER

COLUMBIA ENGINEERING & SERVICES, INC.

5775A Glenridge Drive Suite 202
ATLANTA, GEORGIA 30328

(404) 256-9088

LETTER OF TRANSMITTAL

TO MR ROBERT YOUNKIN
city engineer office city Hall, 7th floor
455 North Main St WICHITA KS
67202

DATE	9 - -86	JOB NO.	1065
ATTENTION	MR ROBERT YOUNKIN		
RE:	WICHITA BUELDER'S SQUARE		

WE ARE SENDING YOU Attached Under separate cover via FED-EX the following items:

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COPY TO MR CARL GIBSON, MR ART HARDEN
MR BOB BARNES, MR TIM BAKER & EB. ROBERTS SIGNED: ALI MOHAJER



BARNES AND MORRIS CONSTRUCTION, INC.

555 S. Topeka, Suite 5 • Wichita, Ks 67202 • (316) 269-3470

January 6, 1987

Vicky Huong P.E.
Engineering Department
City of Wichita
7th Floor
City Building

Dear Vicky,

This letter is to confirm the conversation that we had this morning. The points of discussion as we noted them were:

- 1.) The requirement of a flap gate eliminates the possibility of the flowline of the outfall and flowline of the pipe being the same.
- 2.) The structure will be completed and a cap poured over the floor to bring it as close as possible to the original design grade.

This should have been considered by the design engineer, however it was missed when we checked the plan.

I wish to thank you for your timely response allowing us to proceed with our job.

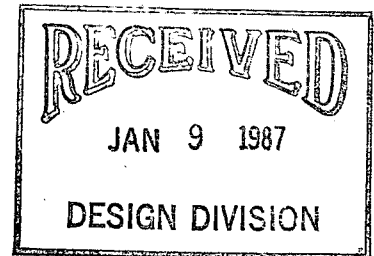
Thank you,

Robert D. "Bof" Barnes

Robert D. Barnes

RDB/krw

Private SWS for lot 5, The Pagen Center.





KANSAS STATE BOARD OF AGRICULTURE

Sam Brownback, Secretary

DIVISION OF WATER RESOURCES

David L. Pope, Chief Engineer-Director
901 S. Kansas Avenue, Second Floor
Topeka, Kansas 66612-1283
(913) 296-3717 Fax (913) 296-1176

ATTENTION: Hakim Saadi

Prepared by: Donald J. Bishop, P.E.
913/296-2933

APPLICATION NOTICE

As required by the Water Projects Environmental Coordination Act, K.S.A. 82a 325-327

Notice No.: 93062
WS No.: CSG-0121-L and LSG-0080-C

Date of Notice: 02/17/93
Expiration Date: 03/19/93

This notice of application is provided so that agencies identified by the Water Projects Environmental Coordination Act and interested persons or organizations may have an opportunity to review the plans and submit any comments to the Chief Engineer for consideration. The plans are available in this office for review any time during regular office hours. Comments should be submitted, in writing, prior to the expiration date listed above. If no comments are received by that date, we will presume you have no information to be considered.

APPLICANT:

Name: Dugan Centre Addition
Kenneth L. Reichenberger, Owner
Address: 501 South Summitlawn
Wichita, Kansas 67209
Telephone: (316) 943-6617

DESIGNER

Name: Baughman Company
N. Brent Wooten, P.E.
Address: 315 Ellis
Wichita, Kansas 67211
Telephone: (316) 262-7271

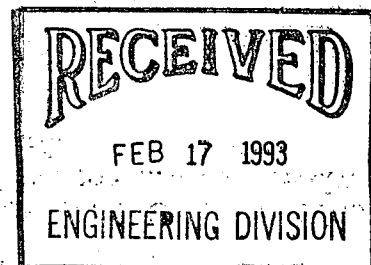
PROJECT LOCATION: (See attached 7 1/2 minute quadrangle map: Wichita West, Kansas.)

In, along, and across Dugan tributary (Hoover Street Drain) at a location in the SE 1/4 of the SW 1/4 of the NW 1/4 of Section 27, Township 27 South, Range 1 West, Sedgwick County, Kansas.

STATUTE: K.S.A. 82a-301 to 305a.

PROJECT ACTIVITY: Construct Channel Change and Levee. See Application and Supplement.

pc: District Engineer, Kansas City
Corps of Engineers
Kansas Water Office
Stafford Field Office
Mr. Fred Foshag, P.E.
~~Mr. Chris Breitenstein, P.E.~~



Prior Agency Comments (Attached): Yes () No (x)

93062

CSG-0121-L

THE STATE OF KANSAS



STATE BOARD OF AGRICULTURE
Sam Brownback, Secretary

DIVISION OF WATER RESOURCES
David L. Pope, Chief Engineer

APPLICATION

for
Permit to Construct
OBSTRUCTIONS IN STREAMS
K.S.A. 82a-301 to 305a



PLEASE USE INSTRUCTIONS ON REVERSE SIDE OF PAGE.

Application is hereby made for the written consent or permit of the Chief Engineer, Division of Water Resources, pursuant to K.S.A. 82a-301 et seq. by:

1. Applicant: Kenneth L. Reichenberger Telephone No.: 316-943-6617
Address: 501 S. Summitlawn, Wichita, KS. 67209

2. Name of Stream or Watercourse: Dugan Tributary - Hoover Street Drain

3. Description of type and purpose of proposed construction: The application is for the approval of an existing channel change and fill which was completed in the 1986-1987 period by others. A development now proposes to build in platted areas within The Dugan Centre and The Dugan Centre 2nd Addition which are presently within the mapped F.E.M.A. Floodway and Flood Plain areas. See attached FIRM and Floodway maps within the F.E.M.A. Report.

4. Legal description of location:
The project location is in part of the S $\frac{1}{2}$, NW $\frac{1}{4}$, Sec. 27, Twp. 27-S, R-1-W, Wichita, Sedgwick County, Kansas, located between Kellogg and Taft from Ridge Road to Dugan Road in Wichita.

5. Complete plans, maps, profiles, specifications, all papers and data shall be filed with this application and made a part thereof. See Attached Report.

6. Copies of Environmental Reviews, Environmental Impact Statement, letters of comment and any other information pertinent to the requirements of K.S.A. 82a-325 through 82a-327, Water Projects Environmental Coordination Act, have/have not been conducted and are/are not attached and made a part hereof.

7. Signature of Applicant: *Kenneth Reichenberger*
Date: 2/5/93 Title: OWNER

Instructions

1. The applicant may be an individual, partnership, corporation, municipality, state or federal agency, etc. The address should be the mailing address and the telephone number at which the applicant may be contacted during office hours.
2. The official name of the stream or watercourse should be entered. If the stream or watercourse is unnamed, please indicate what named stream it is tributary to.
3. The description should indicate what type of project is being considered, such as a dam, a bridge, sand plant, channel alteration, jetty, bank stabilization, or other stream obstruction. It should indicate the overall size of the project, for example: "A channel change is proposed and it will realign the channel, shortening it from a length of 420 feet to a length of 300 feet. The new channel will have a cross-section comprised of a bottom width of 10 feet and 3:1 side slope. A total of 1,200 cubic yards are to be excavated."
4. The legal description of the location (section, township, range) of the project should be to the nearest 10 acre-tract in which the centerline of the project intersects the centerline of the stream. The project location should be identified in feet North and West from the Southeast corner of the section. In case of a channel alteration within or along the stream each 40 acre tract in which the project is located shall be identified.
5. Plans shall be developed and submitted as provided by rules and regulations.
6. Copies of any Environmental reviews or Environmental Impact Statements (EISs) should be attached and made a part of the application. Submittal of EISs does not necessarily obviate the need for implementation of the Water Projects Environmental Coordination Act (ECA) and a mandatory 30 day comment period prior to final processing; however, in cases where the EISs satisfy the ECA the review process may be accelerated.
7. The signature of the applicant is required along with his or her title, if signing as an authorized agent or officer of a corporation, municipality, federal or state agency, etc.

83062

LSG-0080-C

THE STATE



OF KANSAS

STATE BOARD OF AGRICULTURE

Sam Brownback, Secretary

DIVISION OF WATER RESOURCES

David L. Pope, Chief Engineer

APPLICATION

for
Approval of Levee Plans
K.S.A. 24-126



PLEASE USE INSTRUCTIONS ON REVERSE SIDE OF PAGE.

Application is hereby made for the approval of plans by the Chief Engineer, Division of Water Resources, pursuant to K.S.A. 24-126 by:

1. Applicant: Kenneth L. Reichenberger Telephone No.: 316-943-6617

Address: 501 S. Summitlawn, Wichita, KS. 67209

2. Name of Stream or Watercourse: Dugan Tributary - Hoover Street Drain

3. Description of type and purpose of proposed construction: The application is for the approval of an existing channel change and fill which was completed in the 1986-1987 period by others. A development now proposes to build in platted areas within The Dugan Centre and The Dugan Centre 2nd Addition which are within the mapped FEMA floodway and flood plain areas. See Attached FIRM and Floodway Maps within the F.E.M.A. Report.

4. Legal description of location:

The project location is in part of the S $\frac{1}{2}$, NW $\frac{1}{4}$, Sec. 27, Twp. 27-S, R-1-W, Wichita, Sedgwick County, Kansas, located between Kellogg and Taft from Ridge Road to Dugan Road in Wichita.

5. Complete plans, maps, profiles, specifications, all papers and data shall be filed with this application and made a part thereof. See Attached Report.

6. Copies of Environmental Reviews, Environmental Impact Statement, letters of comment and any other information pertinent to the requirements of K.S.A. 82a-325 through 82a-327, Water Projects Environmental Coordination Act, ~~have~~/have not been conducted and ~~are~~/are not attached and made a part hereof.

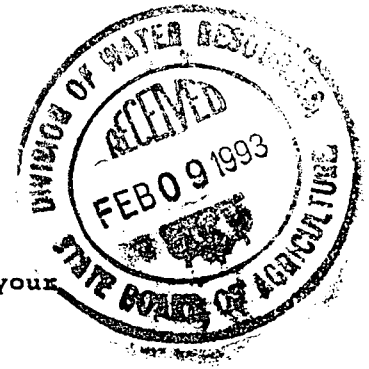
7. Signature of Applicant: *Kenneth Reichenberger*

Date: 2/5/93 Title OWNER

Instructions

1. The applicant may be an individual, partnership, corporation, municipality, state or federal agency, etc. The address should be mailing address and the telephone number at which the applicant may be contacted during office hours.
2. The official name of the stream or watercourse should be entered. If the stream or watercourse is unnamed, please indicate what named stream it is tributary to.
3. The description should indicate what type of project is being considered e.g. levee, residential fill. It should indicate the overall size of the project, for example: "A levee is proposed and it will parallel the channel for a length of 300 feet. The levee will have a cross-section comprised of a top width of 10 feet and 3:1 side slopes. A total of 1,200 cubic yards are to be included in the embankment."
4. The legal description of the location (section, township, range) of the project shall be identified along the stream by each 40 acre tract in which the project is located.
5. Plans shall be developed and submitted as provided by rules and regulations.
6. Copies of any Environmental reviews or Environmental Impact Statements (EISs) should be attached and made a part of the application. Submittal of EISs does not necessarily obviate the need for implementation of the Water Projects Environmental Coordination Act (ECA) and a mandatory 30 day comment period prior to final processing; however, in cases where the EISs satisfy the ECA the review process may be accelerated.
7. The signature of the applicant is required along with his or her title, if signing as an authorized agent or officer of a corporation, municipality, federal or state agency, etc.

Application Supplement
Water Projects Environmental Coordination Act
K.S.A. 82a-325 to 327



Questionnaire

Completion of this questionnaire is required before your application can be processed

1. List the Designer's name, title, address and telephone number.
N. Brent Wooten, P.E.

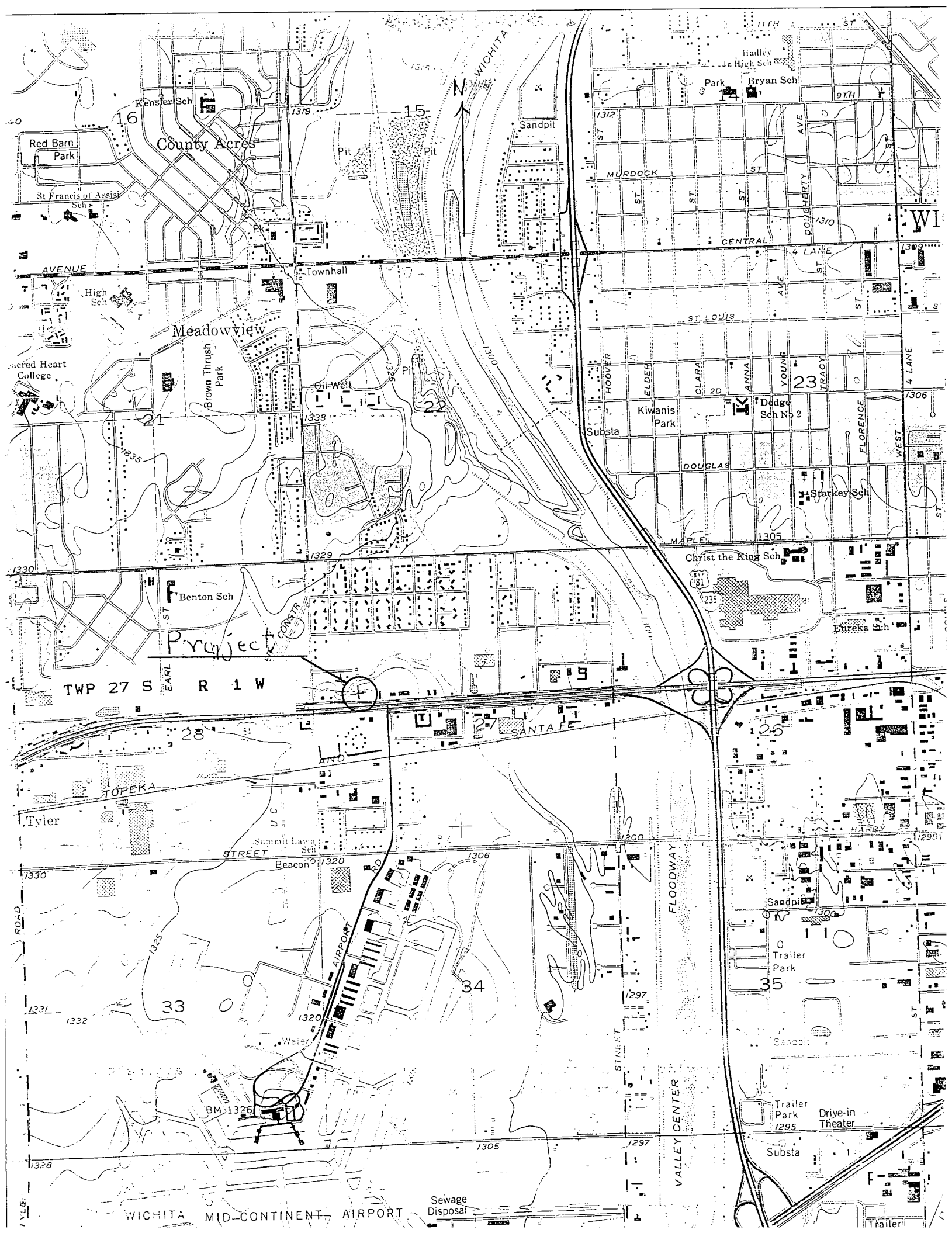
315 Ellis, Wichita, KS. (316) 262-7271

2. Is your project a ___ stream obstruction, ___ dam, X change in the course, current or cross-section of a stream and/or ___ levee, X floodplain fill or other such improvement? (Check all that apply)
3. What are the environmental impacts (e.g. impacts to threatened or endangered species, historic sites, wetlands, etc.) of your project? There should be no impact to any species, historic sites or wetlands.

Submit any environmental impact statements or assessments that have been prepared on this project.
4. How are any riffles (areas of fast moving, shallow water running over rocks or gravel), permanent pools, or other aquatic habitats affected by your project? There are no effects to any aquatic habitats to our knowledge

5. To what extent is riparian (stream-side) vegetation or habitat, including timber, being removed? Please quantify the amounts in acres or other unit measurements such as number, size and species of trees.
No timber is being removed by the channel change.

6. What is the nature of any planned mitigation for environmental impacts of the project?
No planned mitigation except that all sideslopes and other adjacent areas will be heavily landscaped with turf and trees.
7. a. Is the channel of the stream being altered? X If yes, how is it being altered? Is the channel straightened, shortened, blocked, enlarged, etc.?
The channel is and has already been straightened and shortened.
- b. If the channel is being straightened and/or shortened, what are the lengths of the new channel and the original channel? The new channel length is 2831 feet. The old channel length was 2350 feet.
8. Show the locations of any excavations involved in this project which are in, across or along any stream? Show on the project plans or aerial photograph or other appropriate information. See attached exhibit.
9. Show the location for disposal of excess materials on the project plans or aerial photograph if within the floodplain or channel of the stream.
None
10. Is riprap or other bank stabilizing material being used in this project? yes Locate its area of use on the project plans. What is the type, size and amount of material? Approximately 3 acres are to be replanted with the development which will include turf, vegetation, and trees.
11. Have you planned any sedimentation or erosion control measures to protect the environment during and after construction and, if so, what are those measures? All construction activity of the proposed development will be controlled so no erosion occurs or sedimentation passes downstream.
12. Provide a map showing the areas requiring revegetation and the plant mixture you propose to reseed or replant grasses, shrubs or trees in areas disturbed by your project. See attached plan.
13. Are you aware of any historic site (Indian campsites, historic buildings, etc.) within your project? NO Have you made plans to contact the Kansas State Historical Society Office should such materials be encountered? Yes
14. Do you have any current ground level photographs of the project area? NO Please submit copies and a copy of an aerial photograph in support of your application. See attached aerial.
15. Please provide a list of the names and mailing addresses of all adjacent landowners to the project site. See attached list
16. Please check to see that you have fully described your project in the application form as the instructions direct.



WICHITA

County Acres

Red Barn Park

St Francis of Assisi

High Sch

Meadowview

Brown Thrush Park

Townhall

Pit

Sandpit

MURDOCK

CLARA

ANNA

YOUNG

TRACY

23

Dodge Sch No 2

Substa

Kiwanis Park

DOUGLAS

MAPLE

1305

Christ the King Sch

Eureka Sch

Starkkey Sch

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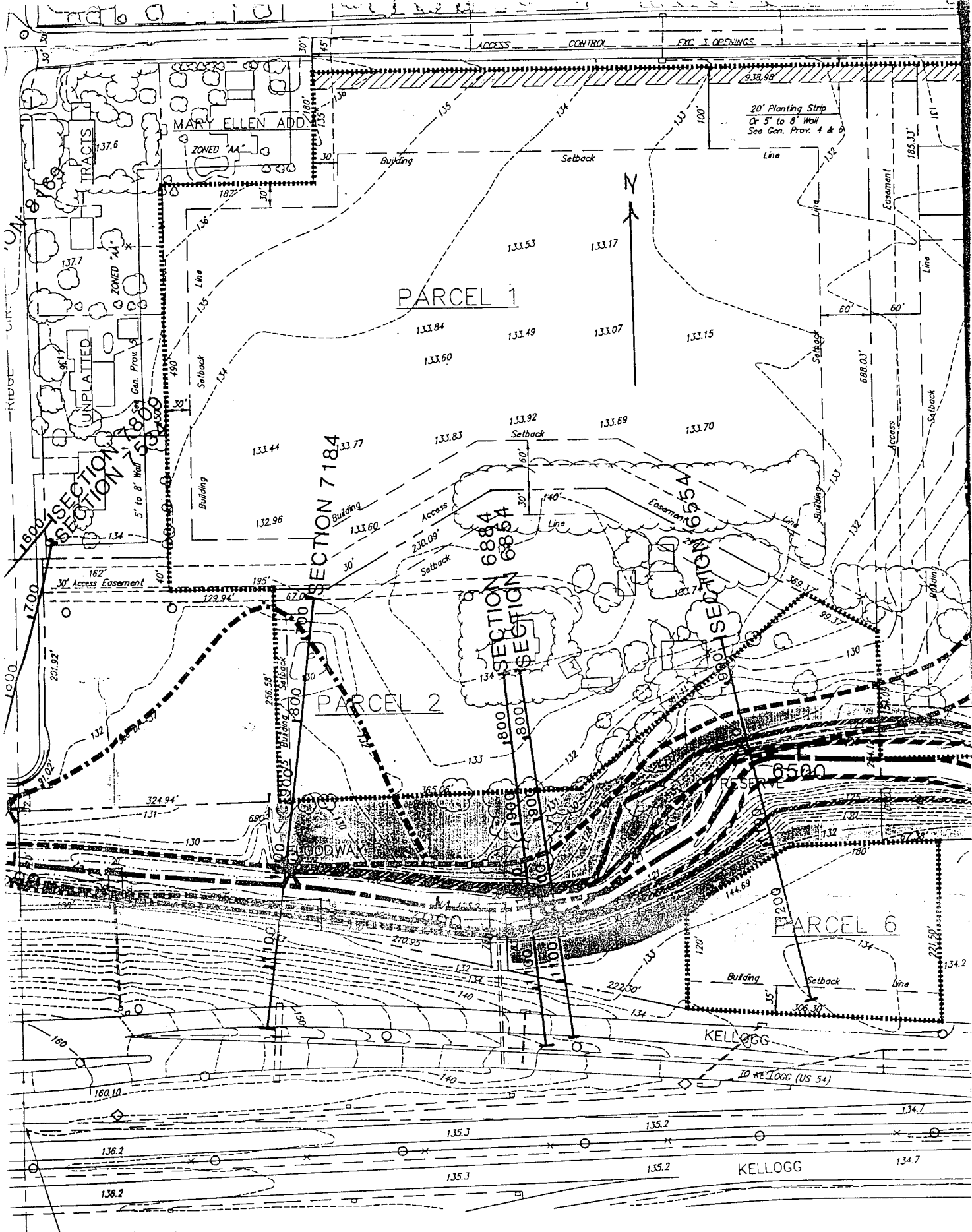
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S.W. Cor. S 1/2 N.W. 1/4
 Sec. 27 - 27 - 1W

DIAMOND 2ND ADD.
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DIAMOND 3RD ADD.
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DIAMOND ADD.
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PARCEL 1

PARCEL 2

PARCEL 6

SECTION 7184

SECTION 6884

SECTION 6554

SECTION 6500

WOODWAY

KELLOGG

KELLOGG

10 KELLOGG (US 54)

MARY ELLEN ADD.

20' Planting Strip
 Or 5' to 8' Wall
 See Gen. Prov. 4 & 6



ACCESS CONTROL FIVE OPENINGS

TRACIS

UNPLATED

SECTION 6500

SECTION 6500

SECTION 6500

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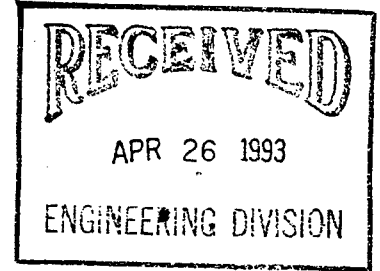
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Federal Emergency Management Agency

Washington, D.C. 20472



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 93-07-031P

The Honorable Frank Ojile
Mayor, City of Wichita
City Hall - 1st Floor
455 North Main Street
Wichita, Kansas 67202

Community: City of Wichita, Kansas
FIRM Panel Number: 200328 0020 B
FBFM Panel Number: 200328 0020
Effective Date
of This Revision: **APR 22 1993**

102

Dear Mayor Ojile:

This is in response to a letter dated January 25, 1993, from Mr. Gene Rath, P.E., City Engineer's Office, City of Wichita, regarding the effective Flood Insurance Study report, Flood Insurance Rate Map (FIRM), and Flood Boundary and Floodway Map (FBFM) for the City of Wichita, Kansas. In his letter, Mr. Rath requested that we revise the effective FIRM and FBFM to show the effects of a detailed hydraulic analysis to reflect existing conditions which include channel realignment, improvements to Dugan Avenue, and a 300-foot extension of the reinforced concrete box bridge which crosses Kellogg Avenue along Hoover Street Drain - Dugan Tributary. All data required to review this request were submitted by Mr. Rath with his letter dated January 25, 1993, and by Mr. N. Brent Wooten, P.E., Baughman Company, P.A., with his letter dated February 8, 1993.

Fees necessary to process this Letter of Map Revision (LOMR), a total of \$2,450, have been received.

We have completed our review of the submitted data with regard to the data used to produce the effective FIRM and FBFM, and have revised the FIRM and FBFM to modify the elevations, floodplain boundary delineations, floodway boundary delineations, and zone designations of a flood having a 1-percent probability of being equaled or exceeded in any given year (base flood) along Hoover Street Drain - Dugan Tributary from upstream of Kellogg Avenue to approximately 50 feet downstream of Ridge Road for a distance of 0.61 mile. Due to the realignment of the channel, the 100-year floodplain and floodway boundaries have been shifted, and base flood elevations (BFEs) and Special Flood Hazard Areas (SFHAs) are both decreasing and increasing. All increases in BFEs and SFHAs are contained within a drainage easement that has been dedicated by the property owners to the City of Wichita.

All property owners affected by the floodplain and floodway revision were informed by Ms. Chris J. Breitenstein, P.E., City Engineer's Office, City of Wichita, with letters dated February 9, 1993.

Due to channel realignment, the distance in the Floodway Data Table for Hoover Street - Dugan Tributary, and Flood Profile Panel 31P have been revised to reflect the actual Hoover Street Drain - Dugan Tributary reach length.

The modifications are shown on the enclosed annotated copy of FIRM Panel 0020 B and FBFM Panel 0020, Flood Profile Panel 31P, and the Floodway Data Table for Hoover Street Drain - Dugan Tributary. This LOMR hereby revises these panels of the effective FIRM and FBFM, both dated May 15, 1986.

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

Location	Existing BFE *(feet)	Modified BFE *(feet)
Just downstream of U.S. 54	*1,308	*1,308
Approximately 1,000 feet upstream of Dugan Road	*1,312	*1,311
Approximately 350 feet downstream of Ridge Road	*1,318	*1,318

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

Because of current funding constraints, we must limit the number of physical map revisions. Consequently, we will not publish a revised FIRM and FBFM for the City of Wichita to reflect modifications at this time. However, if in the future, we revise and republish the FIRM and FBFM panels affected by this LOMR, we will incorporate the previously described modifications at that time.

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

These modifications have been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR, Part 65. Public notification of modifications to the BFEs along Hoover Street Drain - Dugan Tributary will be given in the Daily Reporter on or about May 7, 1993, and May 14, 1993. In addition, a Notice of Changes will be published in the Federal Register.

As required by the legislation, a community must adopt and enforce floodplain management measures to ensure continued eligibility to participate in the NFIP. Therefore, your community must enforce these regulations using, at a minimum, the BFEs, zone designations, and floodways in the SFHAs shown on the FIRM and FBFM for your community, including the previously described modifications.

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

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

The community number and suffix code listed above will be used for all flood insurance policies and renewals issued for your community on and after the effective date listed above.

The modifications described herein are effective as of the date of this letter. However, within 90 days of the second publication in the Daily Reporter, your community may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. All interested parties are hereby notified that, until the 90-day period elapses, the determination may be modified.

This LOMR will not be printed and distributed to primary map users such as local insurance agents and mortgage lenders; therefore, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR widely throughout your community in order that interested persons, such as property owners, insurance agents, and mortgage lenders, may benefit from this information. We also encourage you to consider preparing your own article for publication in the local newspaper cited earlier in this letter to describe the assistance that your community will provide in serving as a clearinghouse for these data and interpreting NFIP maps. When, in the future, a sufficient number of revisions have occurred on the affected panel(s), we will initiate a physical map revision to republish and distribute the panel(s) to incorporate the changes that were made effective by letter.

If you have any questions regarding the modifications described herein, please contact the Chief, Natural and Technological Hazards Division, FEMA, in Kansas City, Missouri, at (816) 283-7002, or Mr. Alan Johnson of my staff in Washington, DC, at (202) 646-3403, or by facsimile at (202) 646-3445.

Sincerely,

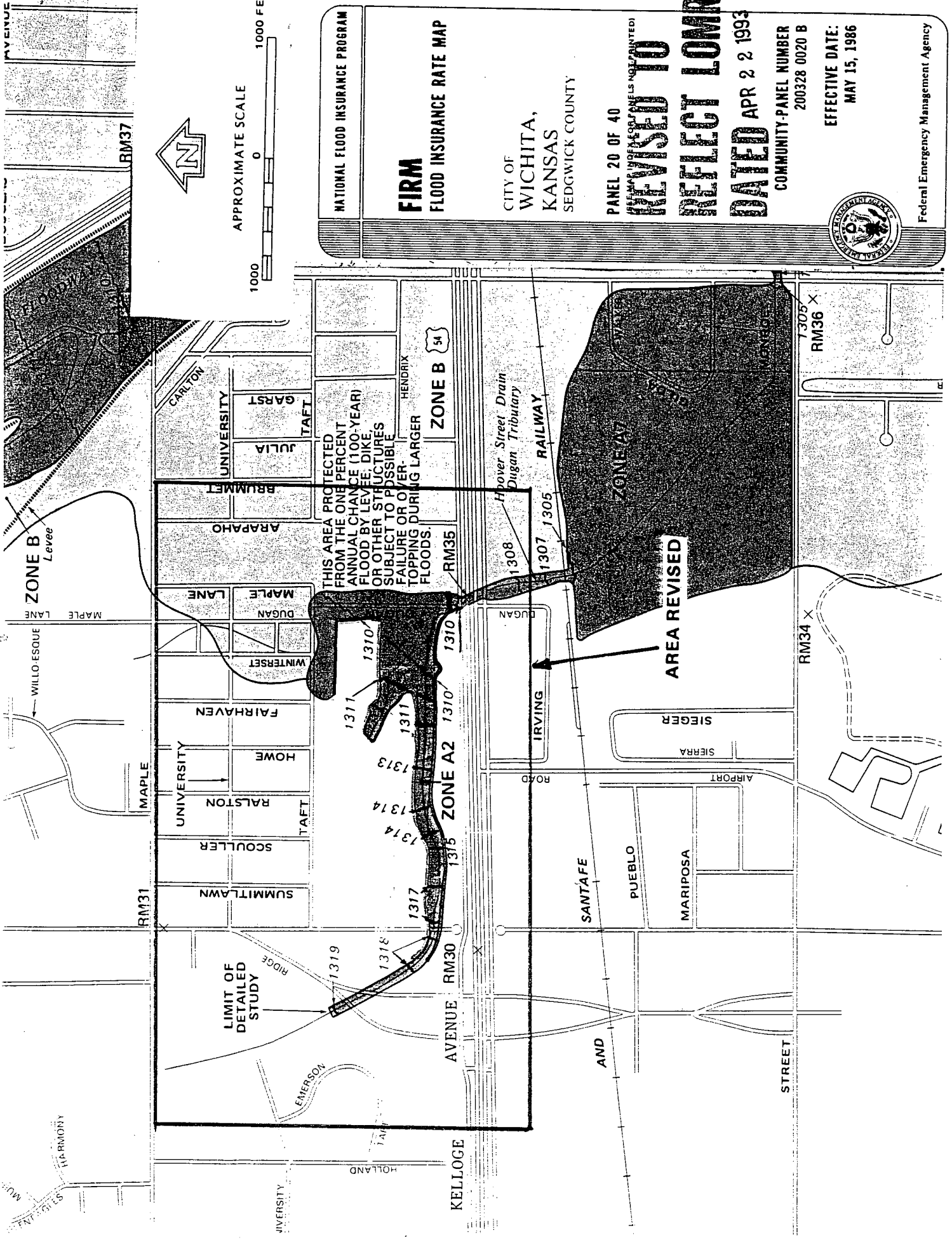
Matthew B. Miller for

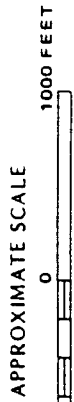
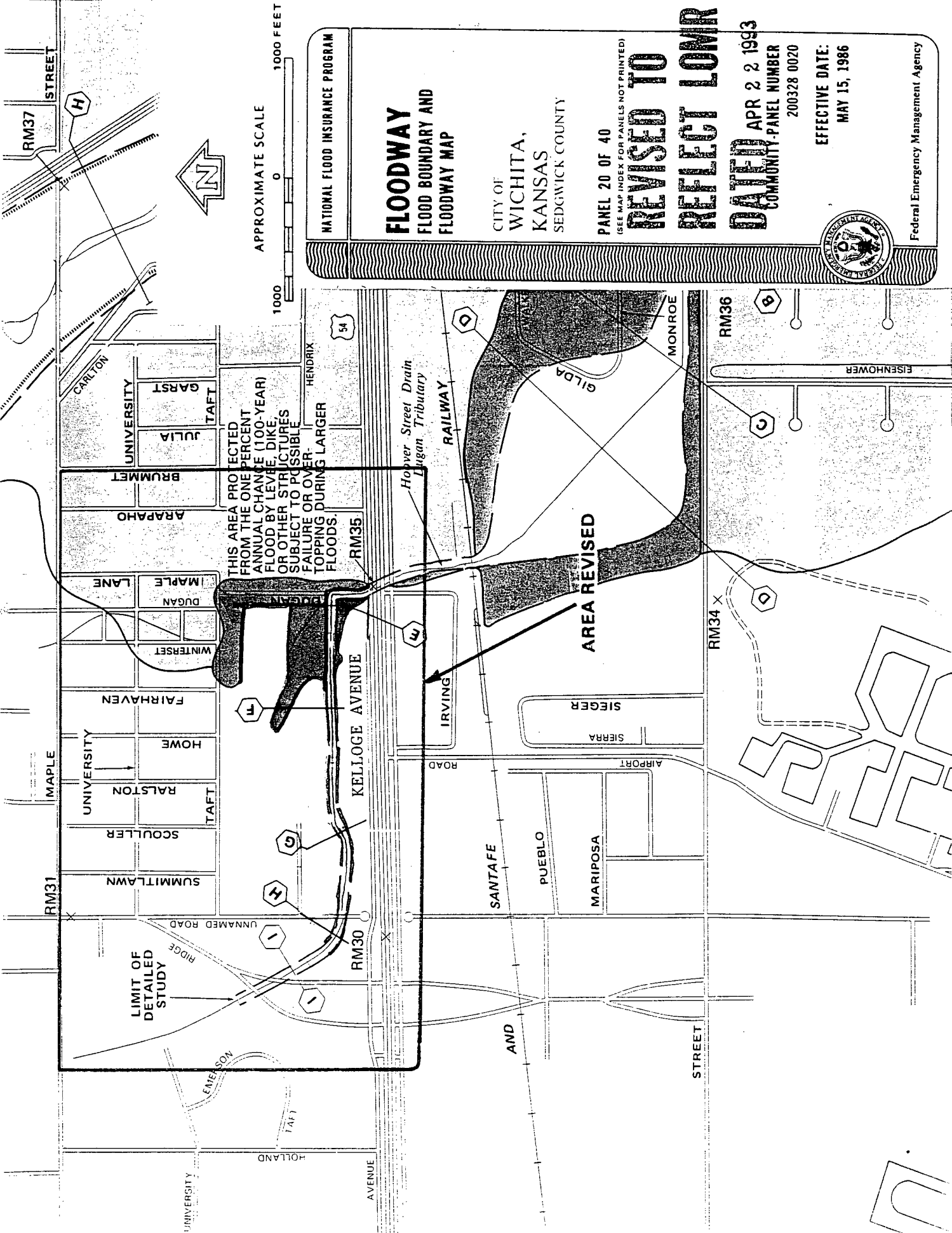
William R. Locke
Chief, Risk Studies Division
Federal Insurance Administration

Enclosures

cc: Mr. Gene Rath, P.E.
City Engineer's Office
City of Wichita

Mr. N. Brent Wooten, P.E., L.S.
Baughman Company, P.A.





NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY FLOOD BOUNDARY AND FLOODWAY MAP


CITY OF
WICHITA,
KANSAS
SEDGWICK COUNTY

PANEL 20 OF 40
(SEE MAP INDEX FOR PANELS NOT PRINTED)

REVISED TO REFLECT LOMR

DATED APR 2 1993
COMMUNITY-PANEL NUMBER
200328 0020

EFFECTIVE DATE:
MAY 15, 1986

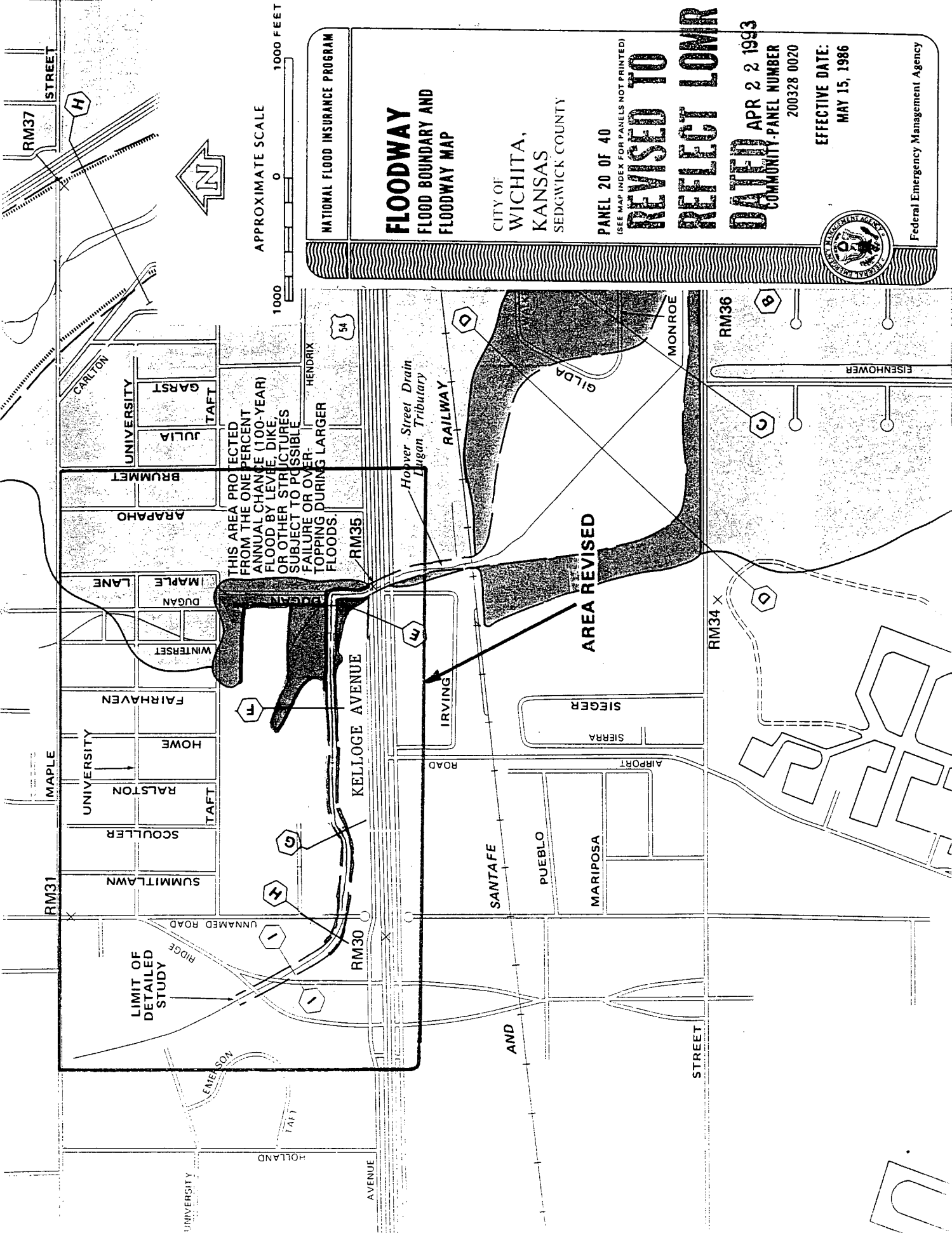


Federal Emergency Management Agency

THIS AREA PROTECTED FROM THE ONE PERCENT ANNUAL CHANCE (100-YEAR) FLOOD BY LEVEE, DIKE, OR OTHER STRUCTURES SUBJECT TO POSSIBLE FAILURE OR OVERTOPPING DURING LARGER FLOODS.

AREA REVISED

LIMIT OF DETAILED STUDY



FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NGVD)	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY (FEET NGVD)	INCREASE (FEET)	
HOOVER STREET DRAIN-DUGAN TRIBUTARY									
A	500	147	904	1.4	1303.7	1303.7	1304.5	0.8	
B	1290	125	1108	1.6	1305.4	1305.4	1306.1	0.7	
C	2040	433	4651	0.4	1305.4	1305.4	1306.1	0.7	
D	2990	1701	13,012	0.1	1305.4	1305.4	1306.1	0.7	
E	4929	50	344	4.0	1310.2	1310.2	1310.2	0.0	
F	5829	50	253	5.5	1310.9	1310.9	1311.5	0.6	
G	6884	50	72	6.8	1315.0	1315.0	1315.0	0.0	
H	8169	50	178	2.8	1318.3	1318.3	1318.3	0.0	
I	8630	59	149	3.3	1318.7	1318.7	1318.7	0.0	

**REVISED TO
REFLECT LOMR
DATED APR 22 1993**

¹ FEET ABOVE CONFLUENCE WITH WICHITA-VALLEY CENTER FLOODWAY

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
CITY OF WICHITA, KS
(SEDGWICK CO.)

FLOODWAY DATA

HOOVER STREET DRAIN - DUGAN TRIBUTARY



KANSAS STATE BOARD OF AGRICULTURE

Sam Brownback, Secretary

DIVISION OF WATER RESOURCES

David L. Pope, Chief Engineer-Director
901 S. Kansas Avenue, Second Floor
Topeka, Kansas 66612-1283
(913) 296-3717 Fax (913) 296-1176

April 23, 1993

**KENNETH L REICHENBERGER
DUGAN CENTRE ADDITION
501 SOUTH SUMMITLAWN
WICHITA KS 67209**

**Re: Dugan Centre
Construct Channel Change
and Floodplain Fill
Dugan tributary (Hoover Street Drain)
City of Wichita
WSN: CSG-0121-L, Notice No. 93062**

Dear Mr. Reichenberger:

Consideration has been given to your application for a permit and approval of plans to replace and fill 2831' of channel, to construct 2350' of new channel, and the placing of floodplain fill for a shopping center development known as Dugan Centre Addition in, along, and across a tributary to the Wichita-Valley Center Floodway known as Dugan tributary Hoover Street Drain at a location in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 27, Township 27 South, Range 1 West, City of Wichita, Sedgwick County, Kansas.

In accordance with the provisions of K.S.A. 82a-301 to 305a and 24-126, the Chief Engineer has approved the plans and issued the enclosed permit and approval, authorizing construction of the proposed project. Please note the conditions on the reverse side of the permit and approval. Condition No. 9 requires notification of this office within 30 days after the project is completed. A Notice and Proof of Completion form is enclosed for this purpose. Special conditions have been added to allow a temporary stream crossing for construction purposes, to restrict the removal of riparian vegetation, and to specify the use of clean materials as riprap.

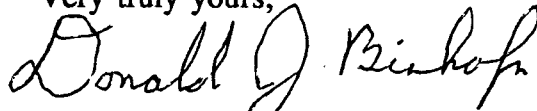
The one set of plans submitted to this office has been endorsed with the Chief Engineer's approval and will be retained in our files. Should you desire any copies of the plans with the Chief Engineer's approval shown thereon, please submit the required number.

Comments about this proposed project were received from several agencies during the environmental review process. Copies of the letters with recommendations from Kansas Corporation Commission and the Kansas Biological Survey are enclosed for your information. These recommendations should be considered in the construction of this project.

Mr. Kenneth L. Reichenberger
WSN: CSG-0121-L, Notice No.: 93062
Page 2

The work has been authorized to be completed on or before July 1, 1995. Approval for construction of this project will expire on that date unless the time is subsequently specifically extended by the Chief Engineer. Any desired extension of time should be requested in writing approximately 30 days prior to the expiration date.

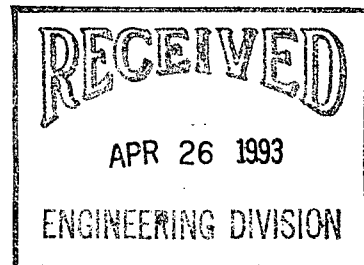
Very truly yours,



Donald J. Bishop, P.E.
Water Structures Section

DJB:pa
Enclosure

pc: Kansas State Historical Society
Kansas Corporation Commission
State Conservation Commission
Cooperative Extension Service-Forestry
Kansas Biological Survey
Kansas Dept. of Health and Environment
Kansas Dept. of Wildlife and Parks
Kansas Water Office
District Engineer, Kansas City
Corps of Engineers
Mr. N. Brent Wooten, P.E.
Mr. Fred C. Foshag, P.E.
Stafford Field Office
Mr. Tom DeCicco
~~Mr. Michael Lindebak, P.E.~~



THE STATE



OF KANSAS

STATE BOARD OF AGRICULTURE
Sam Brownback, Secretary

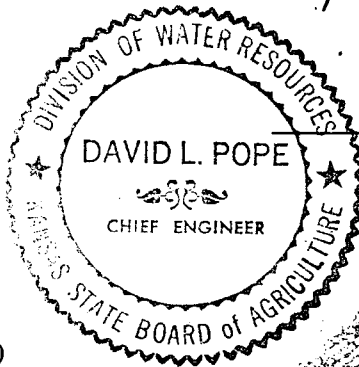
DIVISION OF WATER RESOURCES
David L. Pope, Chief Engineer

APPROVAL OF APPLICATION NO. LSG-0080 **COPY FOR YOUR INFORMATION**
K.S.A. 24-126

The Chief Engineer of the Division of Water Resources, Kansas State Board of Agriculture, by virtue of the powers and duties imposed by K.S.A. 24-126, hereby issues this approval to Dugan Centre Addition, Kenneth L. Reichenberger, 501 South Summitlawn, Wichita, Kansas 67209, giving his consent to place floodplain fill for a shopping center development known as Dugan Centre Addition in, along, and across a tributary to the Wichita-Valley Center Floodway known as Dugan tributary Hoover Street Drain at a location in the SE ¼ of the SW ¼ of the NW ¼ of Section 27, Township 27 South, Range 1 West, City of Wichita, Sedgwick County, Kansas.

All work authorized by this approval shall be performed in accordance with the maps, plans, profiles and specifications filed with the application, and approved by the Chief Engineer and in accordance with plans for any changes or modifications subsequently approved by the Chief Engineer subject to the provisions of the aforementioned statute, its regulations and the attached approval conditions.

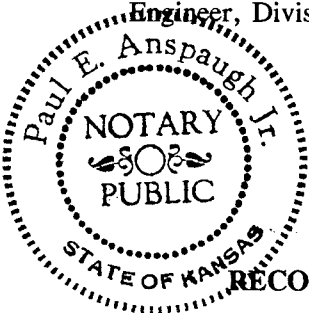
Witness my hand this 23rd day of April, 1993.



George A. Austin, P.E.
George A. Austin, P.E., for
David L. Pope, P.E.
Chief Engineer
Division of Water Resources
Kansas State Board of Agriculture

State of Kansas)
)SS
County of Shawnee)

The foregoing instrument was acknowledged before me this 23rd day of April, 1993, by George A. Austin as authorized agent of David L. Pope, Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture.



Paul E. Anspaugh Jr.
Notary Public
Exp. 9-1-95

RECORD THIS INSTRUMENT IN THE OFFICE OF THE REGISTER OF DEEDS
OF THE COUNTY WHEREIN THE WORK IS LOCATED

APPROVAL CONDITIONS

1. This approval grants no water rights nor other property rights, nor does it authorize any injury to private property, invasion of private rights nor impairment of senior water rights, nor does it exempt the applicant from obtaining consent from appropriate federal, state or local government.
2. The work shall at all times be subject to supervision and inspection by representatives of the Division of Water Resources.
3. No changes in the work, maps, plans, profiles and specifications as approved shall be made except with the written consent of the Chief Engineer.
4. Any work authorized by this approval will be maintained in a condition satisfactory to the Chief Engineer and substantially in accordance with the approved plans.
5. The clearing of trees, brush, drift and other debris, in order to maintain the work substantially in accordance with the approved plans is hereby authorized, except that the removal of plantings made specifically for habitat or environmental mitigation is not authorized by this approval.
6. Any excess material deposited in the stream channel incident to the construction and maintenance of the project authorized by this approval shall be removed and the channel restored to a condition satisfactory to the Chief Engineer and substantially in accordance with the approved plans.
7. All areas disturbed by construction or other exposed soil areas shall be seeded and maintained with a mixture of grass or other vegetation appropriate to the soils, climate and project in order to minimize erosion and protect the project integrity.
8. If the work is not completed on or before the 1st day of July, 1995, this approval, if not specifically extended, shall cease and be null and void. If, upon the expiration or revocation of the approval, the work has not been completed, the applicant shall, at his own expense and to such extent and in such time and manner as the Chief Engineer may require, remove all or any portion of the uncompleted work and restore the watercourse to a satisfactory condition. No claim shall be made against the State of Kansas on account of any such removal or alteration.
9. Within thirty (30) days after the completion of the work authorized in this approval, the applicant shall file with the Division a statement that the work has been performed in accordance with this approval and the approved maps, plans, profiles and specifications.
10. The Chief Engineer reserves the right to require such changes in the maps, plans, profiles and specifications as may be considered necessary. The Chief Engineer further reserves the right to modify, suspend or revoke this approval at any time, should the applicant fail to comply with any of the conditions of this approval or regulations of the Division without sufficient cause or should such action be deemed necessary in the interest of public safety and welfare.
11. The construction of temporary crossings and/or causeways within the project limits of the approved plans is hereby authorized; provided that the temporary obstruction is removed in its entirety and the channel restored to the cross-section proposed in the approved plans. Sufficient hydraulic capacity shall be provided to bypass normal flows to satisfy water right and other public interest needs.
12. The clearing of riparian timber and vegetation shall be restricted to the minimum required to accomplish the work and not interfere with the beneficial use of the project.
13. Only graded rock, quarry-run rock and/or clean concrete rubble shall be used in the work as approved. If concrete rubble is used, all large slabs should be broken up and all exposed reinforcement rods, trash, and other extraneous materials shall be removed prior to placement. No asphalt material shall be placed as fill material.

THE STATE



OF KANSAS

STATE BOARD OF AGRICULTURE
Sam Brownback, Secretary

DIVISION OF WATER RESOURCES
David L. Pope, Chief Engineer

PERMIT NO. CSG-0121-L

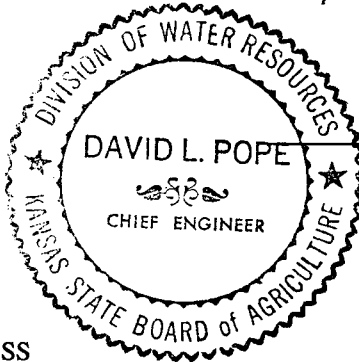
K.S.A. 82a-301 et seq.

**COPY FOR YOUR
INFORMATION**

The Chief Engineer of the Division of Water Resources, Kansas State Board of Agriculture, by virtue of the powers and duties imposed by K.S.A. 82a-301 to 305a, hereby issues this permit to Dugan Centre Addition, Kenneth L. Reichenberger, 501 South Summitlawn, Wichita, Kansas 67209, giving his consent to replace and fill 2831' of channel, to construct 2350' of new channel, and the placing of floodplain fill for a shopping center development known as Dugan Centre Addition in, along, and across a tributary to the Wichita-Valley Center Floodway known as Dugan tributary Hoover Street Drain at a location in the SE 1/4 of the SW 1/4 of the NW 1/4 of Section 27, Township 27 South, Range 1 West, City of Wichita, Sedgwick County, Kansas.

All work authorized by this permit shall be performed in accordance with the maps, plans, profiles and specifications filed with the application, and approved by the Chief Engineer and in accordance with plans for any changes or modifications subsequently approved by the Chief Engineer subject to the provisions of the aforementioned statutes, their regulations and the attached permit conditions.

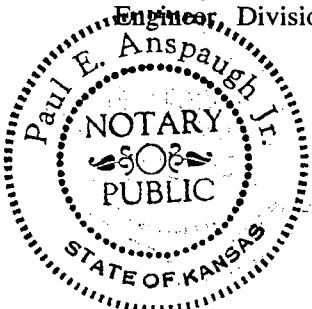
Witness my hand this 23rd day of April, 1993.



George A. Austin; P.E.
George A. Austin, P.E., for
for David L. Pope, P.E.
Chief Engineer
Division of Water Resources
Kansas State Board of Agriculture

State of Kansas)
)SS
County of Shawnee)

The foregoing instrument was acknowledged before me this 23rd day of April, 1993, by George A. Austin as authorized agent of David L. Pope, Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture.



Paul E. Anspaugh Jr.
Notary Public Exp. 9-1-95

**RECORD THIS PERMIT WITH THE REGISTER OF DEEDS
OF THE COUNTY WHEREIN THE WORK IS LOCATED**

PERMIT CONDITIONS

1. This permit grants no water rights nor other property rights, nor does it authorize any injury to private property, invasion of private rights nor impairment of senior water rights, nor does it exempt you from obtaining consent from appropriate federal, state or local government.
2. The work shall at all times be subject to supervision and inspection by representatives of the Division of Water Resources.
3. No changes in the work, maps, plans, profiles and specifications as approved shall be made except with the written consent of the Chief Engineer.
4. Any work authorized by this permit will be maintained in a condition satisfactory to the Chief Engineer and substantially in accordance with the approved plans.
5. The clearing of trees, brush, drift and other debris in order to maintain the work substantially in accordance with the approved plans is hereby authorized, except that the removal of plantings made specifically for habitat or environmental mitigation is not authorized by this permit.
6. Any excess material deposited in the stream channel incident to the construction and maintenance of the project authorized by this permit shall be removed and the channel restored to a condition satisfactory to the Chief Engineer and substantially in accordance with the approved plans.
7. All areas disturbed by construction and all other exposed soil areas shall be seeded and maintained with a mixture of grass or other vegetation appropriate to the soils, climate and project in order to minimize erosion and protect the project integrity.
8. If the work is not completed on or before the 1st day of July, 1995, this permit, if not specifically extended, shall cease and be null and void. If, upon the expiration or revocation of this permit, the work has not been completed, the permittee shall, at his own expense and to such extent and in such time and manner as the Chief Engineer may require, remove all or any portion of the uncompleted work and restore the watercourse to a satisfactory condition. No claim shall be made against the State of Kansas on account of any such removal or alteration.
9. Within thirty (30) days after the completion of the work authorized by this permit, the permittee shall file with the Division a statement that the work has been completed in accordance with this permit and the approved maps, plans, profiles and specifications.
10. The Chief Engineer reserves the right to require such changes in the maps, plans, profiles, specifications and conditions as may be considered necessary. The Chief Engineer further reserves the right to modify, suspend or revoke this permit at any time should the permittee fail to comply with any of the conditions of this permit or regulations of the Division without sufficient cause or should such action be deemed necessary in the interest of public safety and welfare.
11. The construction of temporary crossings and/or causeways within the project limits of the approved plans is hereby authorized; provided that the temporary obstruction is removed in its entirety and the channel restored to the cross-section proposed in the approved plans. Sufficient hydraulic capacity shall be provided to bypass normal flows to satisfy water right and other public interest needs.
12. The clearing of riparian timber and vegetation shall be restricted to the minimum required to accomplish the work and not interfere with the beneficial use of the project.
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DJB
eo

Joan Finney
Governor

Jim Robinson
Chairman

F. S. Jack Alexander
Commissioner

Rachel C. Lipman
Commissioner

Judith McConnell
Executive Director

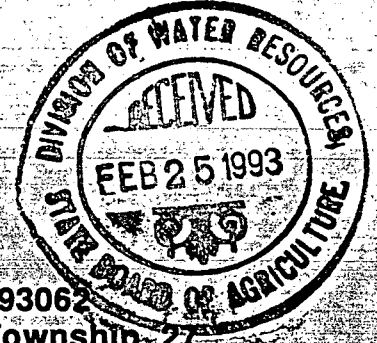
Brian Moline
General Counsel



Kansas Corporation Commission

February 23, 1993

Hakim Saadi
Division of Water Resources
109 SW 9th Street
Topeka, Kansas 66612



RE: DWR Application 93062
SESWNW Section 27, Township 27
South, Range 1 West, Sedgwick
County.

Dear Mr. Saadi:

We have reviewed the above-captioned application from Kenneth L. Reichenberger who is applying for an after-the-fact approval of an existing channel change and fill which was completed in the 1986-87 period and who now proposes to construct a levee and make channel change, along and across Dugan tributary. We find no indication the proposals will be affected by any regulations or activity administered by the Kansas Corporation Commission.


In the event unexpected circumstances are encountered during construction, such as the discovery of abandoned oil, gas or exploratory holes, the applicant should contact Maurice Korphage, KCC District #2 Supervisor in Wichita (316) 263-8809, so appropriate regulatory response can be made.

Very sincerely yours,

William R. Bryson
William R. Bryson, Director
Conservation Division

Attachment

cc: Judith McConnell
M. L. Korphage



**KANSAS
BIOLOGICAL
SURVEY**

Division of Water Resources
901 S. Kansas Avenue, Second Floor
Topeka, Kansas 66612-1283

Attention: Hakim Saadi

Subject: Notice No. 93-062 (Sedgwick Co.)

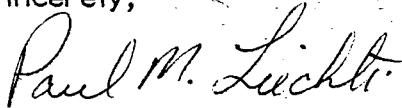
Date: 15 March 1993

In regard to the request by Dugan Centre Addition for an after-the-fact permit for a channel change and levee along the Dugan tributary, the following comments are offered for your consideration.

The natural aquatic and terrestrial qualities of the area have already been compromised by past development and the additional straightening of the channel has probably further diminished the remaining functional ecological values of the local aquatic/riparian system. To help retain some natural qualities and aesthetics we recommend utilizing a high percentage of native vegetation for planting and seeding disturbed areas. We defer to DWR concerning possible impacts to downstream landowners if flood elevations have been significantly changed by the channel alterations. Although we do not condone floodplain development, we have no objections to granting this particular permit.

Thank you for the opportunity to comment on the proposed project.

Sincerely,



Paul M. Liechti
Assistant Director
Environmental Coordination Contact

CC: Environmental Services Section, KDWP Pratt

