



LEGEND

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodway Limits have been determined, users are encouraged to consult the Flood Profiles and Floodway Data Tables contained within the Flood Insurance Study (FIS) report that accompanies the FIRM. Users should be aware that BFEs shown on the FIRM represent rounded white-foot elevations and therefore may not exactly reflect the flood elevation data presented in the FIS. For construction and/or floodplain management purposes, users are encouraged to use the flood elevation data presented in the FIS in conjunction with the data shown on the FIRM.

Elevation Reference Marks (ERM) elevations listed on this map were obtained and/or developed to establish vertical control for determination of flood elevations and floodplain boundaries portrayed on this map. Users should be aware that these ERM elevations may have changed since the publication of this map. To obtain spot-elevation information on National Geographic Survey (NGS) ERM's shown on this map, please contact the Information Services Branch of the NGS at (203) 712-3242, or visit their website at www.ngs.noaa.gov. Map users should seek verification of non-NGS ERM monument elevations when using these elevations for construction or floodplain management purposes.

Coastal BFE's shown on this map apply only landward of 0' National Geodetic Vertical Datum (NGVD). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Significant Elevations table in the Flood Insurance Study report for this community. Elevations shown in the Summary of Significant Elevations table should be used for construction, and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

- LEGEND**
- SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD:**
- ZONE A** No base flood elevations determined.
 - ZONE AE** Base flood elevations determined.
 - ZONE AH** Flood depths of 1 to 3 feet (usually area of ponding); base flood elevations determined.
 - ZONE AD** Flood depths of 1 to 3 feet (usually shear flow on sloping terrain); average depth determined for areas of littoral fan flooding; velocities also determined.
 - ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
 - ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
 - ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.
- FLOODWAY AREAS IN ZONE AE**
- OTHER FLOOD AREAS**
- ZONE X** Areas of 500-year flood; areas of 100-year flood with average depth of less than 1 foot; and areas protected by levees from 100-year flood.
- OTHER AREAS**
- ZONE X** Areas determined to be outside 500-year floodplain.
 - ZONE D** Areas in which flood hazards are undetermined.
- UNDEVELOPED COASTAL BARRIERS†**
- Identified 1993
 - Identified 1999
 - Otherwise Protected Areas
- †Coastal barrier areas are normally located within or adjacent to special flood hazard areas.
- Floodplain Boundary
- Floodway Boundary
- Zone D Boundary
- Boundary Dividing Special Flood Hazard Zones and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones
- Base Flood Elevation Line; Elevation in Feet*
- Cross Section Line
- Base Flood Elevation in Feet Where Uniform Within Zone*
- RM 7x Elevation Reference Mark
- M1.5 River Mile
- *Referenced to the North American Vertical Datum of 1988.

NOTES

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources or small creeks, or all elevations outside Special Flood Hazard Areas. The community map repository should be consulted for more detailed data on BFEs, and for any information on floodway delineations, prior to use of this map for property purchase or construction purposes.

Areas of Special Flood Hazard (100-year flood) include Zones A, AE, A1-A30, AH, AD, A99, V, VE and V1-V30.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were compiled at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data Table where floodway width is shown at 1:200 scale.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

For community map revision history prior to countywide mapping, see section 6.0 of the Flood Insurance Study Report.

For adjoining panels, see separately Printed Map Index.

ELEVATION REFERENCE MARKS

| REFERENCE MARK | ELEVATION (FT NAVD) | DESCRIPTION OF LOCATION |
|----------------|---------------------|--|
| RM48 | 826.47 | A 60d nail one foot above the ground in north side of telephone pole located at southwest corner of the intersection of U.S. Highway 24 and Township Road 106. |
| RM 50 | 829.28 | A chiseled square at the southwest corner of US Highway 24 bridge over Mud Creek. |
| RM 51 | 825.77 | A chiseled cross on top of a 1-inch bolt head on southwest corner of the Union Pacific Railroad bridge over Mud Creek. |
| RM 83 | 820.60 | A chiseled square on center of culvert headwall located at the northeast corner of intersection of 8th Street and Elm Street. |

MAP REPOSITORY
Refer to Repository Listing on Index Map

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP:
NOVEMBER 7, 2001

EFFECTIVE DATE (S) OF REVISION (S) TO THIS PANEL:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE DATE shown on this map to determine when actuarial rates apply to structures in the zones where revisions or depths have been established.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6620.

APPROXIMATE SCALE IN FEET

DOUGLAS COUNTY UNINCORPORATED AREAS
200087

DOUGLAS COUNTY KANSAS AND INCORPORATED AREAS

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|----------------------|--------|-------|--------|
| LAWRENCE, CITY OF | 200090 | 0037 | C |
| UNINCORPORATED AREAS | 200087 | 0037 | C |

MAP NUMBER
20045C0037 C

EFFECTIVE DATE:
NOVEMBER 7, 2001

FLOODING EFFECTS FROM KANSAS RIVER

DOUGLAS COUNTY UNINCORPORATED AREAS
200087

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

DOUGLAS COUNTY KANSAS AND INCORPORATED AREAS

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
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NOVEMBER 7, 2001

Federal Emergency Management Agency

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 12 SOUTH, RANGE 20 EAST.