



ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION (FT. NAVD)	DESCRIPTION OF LOCATION
RM12	891.75	A standard tablet stamped "241 1939" in concrete post located about 40 feet north of North 950 Road, about 475 feet west of the intersection, near center of Section 31, T13S, R19E.
RM13	879.68	A chiseled square on east headwall of culvert located in the northwest corner of the intersection of North 900 Road and East 1100 Road.
RM14	845.36	A chiseled square on north end of west headwall of culvert located in northwest corner of the intersection of East 1000 Road and North 1050 Road.
RM15	853.58	A standard tablet stamped "T791 LEE 1947" set in concrete post located on west side of East 1000 Road, about 750 feet south of intersection with North 1000 Road.
RM16	858.78	A chiseled square on west headwall of concrete culvert located along East 1000 Road, about 2900 feet south of intersection with North 1000 Road.
RM17	846.82	A chiseled cross on northwest corner of south concrete hub guard of culvert southeast of the intersection of North 1350 Road, near center of Section 9, T13S, R19E.
RM18	838.94	Top of northeast corner of headwall located along North 1200 Road, about 130 feet west of the private driveway south of Robertson home, about 2700 feet east of East 1000 Road.
RM19	837.56	A chiseled square on top of west concrete abutment at northwest corner of North 1200 Road bridge over Washington Creek.

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 sheet flow on sloping terrain); average depths determined; for areas of unusual fan flooding, velocities also determined.
- ZONE AO: Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined; for areas of unusual fan flooding, velocities also determined.
- ZONE A99: To be protected from 100-year flood by Federal flood protection systems 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 depths of less than 1 foot or with drainage areas less than 1 square mile; 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 1981
 - Identified 1986
 - Other: Protected Areas

BOUNDARIES

- 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*
- Elevation Reference Mark
- 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 of small size, or all elevations, including outside Special Flood Hazard Areas. The community map repository should be consulted for more detailed data on BEs, and for any information on floodway determinations, prior to use of this map for property purchase or construction purposes.

Areas of Special Flood Hazard (100-year flood) include Zones A, AE, AH, AO, 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 computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic computations 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 Tables where floodway widths to show at 1:500 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 8.0 of the Flood Insurance Study Report.

For adjoining panels, see separately Printed Map Index.

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 evaluations 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.

LEGEND

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodways 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 this FIRM. Users should be aware that BFEs shown on this FIRM represent rounded whole-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 up-to-date elevation information on National Geodetic Survey (NGS) ERM's shown on this map, please contact the Information Services Branch of the NGS at (301) 713-3242 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 BFEs shown on this map apply only landward of 0.0 National Geodetic Vertical Datum (NGVD). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this community. Elevations shown in the Summary of Stillwater Elevations table should be used for construction, and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

APPROXIMATE SCALE IN FEET
1:500

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

DOUGLAS COUNTY KANSAS AND INCORPORATED AREAS

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
LAWRENCE CITY OF UNINCORPORATED AREAS	200090	0060	C
	200087	0060	C

MAP NUMBER
20045C0060 C

EFFECTIVE DATE:
NOVEMBER 7, 2001

Federal Emergency Management Agency