

**Summary of Data Collected**

Number	Agency Contacted for Document	Title of Document	Date	Preparer of Document	Type of Information Received
<b>Utility Maps</b>					
1	City of Leavenworth Public Works Dept.	Stormwater Sewer Maps Sections 1, 2, 3, 4 (SE), 6 (SW), 7 (NW,SW), 9(NE), 10, 11, 12, 13 (NE,NW), 14 (NE,NW), 15 (NE), 18 (NW), 25 (SE,SW,NW), 26, 27, 34, 35, 36	June 1994	M. J. Harden Associates, Inc.	Maps include streets, buildings with addresses, waterbodies, waterways, 2-foot contours, ground elevations, manholes, inlets, area drains, culverts, and storm sewers with size and type. Digital files include DTM-generated top-of-structure elevations and x-y coordinates. (3 full-size sets, 1 w/Flow Line depths, scale 1" = 100 feet).
2	City of Leavenworth Public Works Dept.	Leavenworth, Kansas Scale: 1 inch = 500 feet	September 1983	City of Leavenworth	City plan map with streets, major buildings, waterways with main channel, 100-year and 500-year flood boundaries, and storm sewers with sizes.

**Summary of Data Collected (Continued)**

Number	Agency Contacted for Document	Title of Document	Date	Preparer of Document	Type of Information Received
<b><u>Data on Recent Improvement Projects</u></b>					
3	City of Leavenworth Public Works Dept.	Storm Drainage Improvements 17th St. & Vilas St. Leavenworth, Kansas  Storm Drainage Improvements 5th Ave. & South St. Leavenworth, Kansas	April 27, 1995  April 27, 1995	Shafer, Kline, & Warren, P.A.	Culvert plan, profile, and details.
4	City of Leavenworth Public Works Dept.	4th Street at the Veteran's Hospital Access Road Leavenworth, Kansas	April 1986	Johnson, Brickell, Mulcahy, and Associates, Inc. Consulting Engineers	Plan sheet.
5	City of Leavenworth Public Works Dept.	Hometown Village P.V.D. Phase I	February 1992 July 1994	D. G. White & Associates Engineering and Surveying	Plan, profile, and storm sewer details.
6	City of Leavenworth Public Works Dept.	Storm Sewer Line 1 As-Built Plans Leavenworth Plaza Shop Center	March 10, 1995	Shafer, Kline, & Warren, P.A.	Storm sewer plan and profile to Hughes Road.
7	City of Leavenworth Public Works Dept.	Grading Plan - WalMart Storm Sewer Profiles	None Indicated	Kaw Valley Engineering & Development	Storm sewer plan and profile.

**Summary of Data Collected (Continued)**

Number	Agency Contacted for Document	Title of Document	Date	Preparer of Document	Type of Information Received
<b><u>Development Plans</u></b>					
8	City of Leavenworth Public Works Dept.	State of Kansas Department of Transportation Kansas Project West Leavenworth Trafficway Leavenworth County City of Leavenworth	Preliminary May 16, 1995	Bucher, Willis & Ratliff Engineers, Planners, Architects	Plan and profile sheets of centerline and side roads, and drainage area plan sheets for proposed new major arterial. (1 half-size set, sheets 1-31A, 114-119).
9	City of Leavenworth Public Works Dept.	West Leavenworth Annexation Plan Future Land Use Existing Land Use	August 1992	Bucher, Willis & Ratliff	City plan maps w/color-coded land use areas.
10	Larkin Associates Consulting Engineers, Inc.	City of Leavenworth, Kansas 760 Cherokee Drainage Improvements	Preliminary March 7, 1996	Larkin Associates Consulting Engineers, Inc.	Site and Grading Plan, Sheet 3 of 8; Plan and Profile, Sheet 4 of 8. Show re-routing of Three Mile Creek tributary from Cherokee to Broadway.

**Summary of Data Collected (Continued)**

Number	Agency Contacted for Document	Title of Document	Date	Preparer of Document	Type of Information Received
<b>Aerial Photos</b>					
11	City of Leavenworth Public Works Dept.	Aerial photos of the Leavenworth area:  T.8.S., R.22.E; Sections: 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36  T.9.S., R.22.E; Sections: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29  T.9.S., R.23.E; Sections: 6, 7, 18, 19, 30  T.8.S., R.23.E; Section 31	March 25, 1992	M. J. Harden & Associates, Inc.	Aerial photos of the Leavenworth area showing streets, waterbodies, etc. Scale 1" = 200 feet.
<b>FEMA Flood Plain Studies and Maps</b>					
12	Federal Emergency Management Agency	Flood Insurance Study, County of Leavenworth, Kansas Unincorporated Areas	February 1980	Federal Emergency Management Agency	Study of stormwater flooding caused by: Missouri River, Kansas River, Stranger Creek, Seven Mile Creek, Nine Mile Creek, Dawson Creek, and Tonganoxie Creek.

**Summary of Data Collected (Continued)**

Number	Agency Contacted for Document	Title of Document	Date	Preparer of Document	Type of Information Received
13	Federal Emergency Management Agency	Flood Insurance Study City of Leavenworth, Kansas	January 1978	Federal Emergency Management Agency	Study of stormwater flooding caused by: Three Mile Creek, Three Mile Creek South Branch, and Five Mile Creek.
<b><u>Complaint Files and Reports</u></b>					
14	City of Leavenworth Public Works Dept.	Stormwater Management Questionnaire	1995	Black & Veatch	Mailed questionnaires and newspaper version received from residents, including details about flooding problem areas.
15	Black & Veatch	Telephone Memorandum	1995	Black & Veatch	Calls received on stormwater hotline from residents.
<b><u>City Design Standards for Storm Sewers</u></b>					
16	City of Leavenworth Public Works Dept.	Shawnee Steel & Welding, Inc. 6" Steel Inlet Frame-Welded	February 1987	Shawnee Steel & Welding, Inc.	Construction detail for City standard inlet.
17	City of Leavenworth Public Works Dept.	City of Leavenworth, Kansas Office of the City Engineer Type "A" Curb Inlet Detail	None Indicated	City of Leavenworth	Construction detail for City standard inlet.
18	City of Leavenworth Public Works Dept.	City of Leavenworth, Kansas Asphaltic Concrete Paving C. & G. Details	None Indicated	Office of the City Engineer	Construction details for City standard streets.

**Summary of Data Collected (Continued)**

Number	Agency Contacted for Document	Title of Document	Date	Preparer of Document	Type of Information Received
<b><u>City Ordinances/Codes</u></b>					
19	City of Leavenworth Public Works Dept.	Zoning Ordinance 1985 as Amended through July 1992, City of Leavenworth	1985	City of Leavenworth	Regulations applied to all land and structures within the incorporated area of the City of Leavenworth. Building permits and development guidelines.
<b><u>Soils Reports</u></b>					
20	U.S. Department of Agriculture, Soil Conservation Service, National Cooperative Soil Survey	State Soil Geographic Data Base (STATSGO)	October 1994	U.S. Department of Agriculture	Georeferenced digital map data, attribute data, and metadata. It is a broad-based inventory of soils and nonsoil areas that occur in a repeatable pattern on the landscape.
<b><u>Corps of Engineers Studies</u></b>					
21	City of Leavenworth Public Works Dept.	Flood Plain Information Five Mile Creek Leavenworth, Kansas	June 1972	Corps of Engineers, U.S. Army, Kansas City District	Flood hazard information report for the Leavenworth area along Five Mile Creek, including past floods, historic flood peaks, and factors affecting flooding and its impact.
22	City of Leavenworth Public Works Dept.	Flood Plain Information Three Mile Creek Leavenworth, Kansas	December 1970	Corps of Engineers, U.S. Army, Kansas City District	Flood hazard information report for the Leavenworth area along Three Mile Creek, including past floods, historic flood peaks, and factors affecting flooding and its impact.

**Summary of Data Collected (Continued)**

Number	Agency Contacted for Document	Title of Document	Date	Preparer of Document	Type of Information Received
<b><u>USGS Maps and Studies</u></b>					
23	U.S. Geological Survey	Leavenworth Quadrangle Map	1984	U.S. Geological Survey	Quadrangle map of the greater Leavenworth area showing streets, waterbodies, topographical information, etc.
<b><u>Other Past Studies</u></b>					
24	Black & Veatch	Report on Stormwater Drainage Leavenworth, Kansas	October 1967	Black & Veatch	Report of the results of an engineering study covering the existing storm sewers, additional sewers required in developed areas and potential areas of future development, and the estimated cost of such facilities.
25	City of Leavenworth Public Works Dept.	City of Leavenworth FEMA Damage Report, Site 1 through 33	August 1993	City Staff	Photographs and written descriptions of damages sustained due to Great Flood of 1993.
<b><u>Street and Bridge Data</u></b>					
26	City of Leavenworth Public Works Dept.	City of Leavenworth, Kansas Bridges (20 or more feet in length)	February 1979	D. J. Pennington City Engineer?	Blue-line map, 1" = 600 feet, with streets, waterways, bridges, and bridge data.
27	City of Leavenworth Public Works Dept.	Map of Leavenworth, Kansas Wards & Precincts	November 1994	City?	Blue-line map, 1" = 2,000 feet, with wards, precincts, and city limits boundaries and streets.
28	City of Leavenworth Public Works Dept.	Shopping Guide and Membership Directory	1994-1995	Leavenworth-Lansing Area, Chamber of Commerce	Current city street map in centerfold.

**Summary of Data Collected (Continued)**

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29	City of Leavenworth Public Works Dept.	Figure 16 Arterial and Collector Streets	?	?	Skeleton street map of Leavenworth with arterial and collector streets indicated.
30	City of Leavenworth Public Works Dept.	Report on 1993, Biennial Bridge Inspection	July 1993	Bucher, Willis, & Ratliff Engineers Planners Architects	Recommended repair or replacement of existing bridges and cost estimates.
31	Kansas Department of Transportation (KDOT)	Bridge Reports and Inventory System for Kansas (BRISK) diskette, Version 2, Release 3	1993	KDOT	Location, description, and dimensions of most bridges in Leavenworth.
32	City of Leavenworth Public Works Dept.	Construction Layout, Bridge over Three Mile Creek	1988	Cook, Flatt, & Strobel Engineers, P.A.	Construction drawing, plan and elevation of bridge at Broadway.
33	City of Leavenworth Public Works Dept.	7th Street Bridge over Three Mile Creek, Construction Layout	1991	Wilson & Company Engineers & Architects	Construction drawing, plan and elevation of bridge at 7th Street.
34	City of Leavenworth Public Works Dept.	Construction Layout, Bridge over Three Mile Creek	1979	Cook, Flatt, & Strobel Engineers, P.A.	Construction drawing, plan and elevation of bridge at Cherokee Street.
35	City of Leavenworth Public Works Dept.	Construction Layout & Geology, Bridge over Three Mile Creek	1985	Michael Engineering	Construction drawing, plan and elevation of bridge at Third Street.
36	City of Leavenworth Public Works Dept.	Construction Project 1961-54	1961	Truman Schlup Consulting Engineers	Plan, profile, and sections of bridge improvements at Shawnee Street and Three Mile Creek.



**Summary of Data Collected (Continued)**

Number	Agency Contacted for Document	Title of Document	Date	Preparer of Document	Type of Information Received
37	City of Leavenworth Public Works Dept.	Construction Project 1964-75	1964?	Truman Schlup Consulting Engineers	Plan and sections for bridge at 13th Street and Three Mile Creek.
38	City of Leavenworth Public Works Dept.	Construction Project 1964-75	1964?	Truman Schlup Consulting Engineers	Plan and sections for bridge at Osage Street.
39	City of Leavenworth Public Works Dept.	Ottawa Street Bridge and Approach at Three Mile Creek, Sheets 1 & 2 of 10	1956	Truman Schlup Consulting Engineers	Plans and general layout for bridge and channel change at Ottawa Street and Three Mile Creek.
40	City of Leavenworth Public Works Dept.	Project No. 52U-0807-01, 083-164, Sheet 3 of 14	1983	FHWA?	Plan and profile for bridge at Shawnee Street and east of 11th Street.
41	City of Leavenworth Public Works Dept.	Project 1967-10	1967	Leo M. Martell Associates	Plan and elevation for bridge at 20th Street and Three Mile Creek.
42	City of Leavenworth Public Works Dept.	5th Street Bridge over Three Mile Creek	1969	Kenneth M. Blom, P.E.	Plan, elevation, and profile for bridge at 5th Street and Three Mile Creek.
43	City of Leavenworth Public Works Dept.	6th Street Bridge and Approach at Three Mile Creek	1956	Truman Schlup Consulting Engineers	Plan, elevation, section, and details for bridge at 6th Street and Three Mile Creek.
44	City of Leavenworth Public Works Dept.	Construction Layout, 10th Street Bridge	1982	M.D. Cooper & Associates Consulting Engineers	Plan and elevation for bridge at 10th Street and Three Mile Creek.
45	City of Leavenworth Public Works Dept.	Construction Layout, Bridge over Five Mile Creek	1981	Cook, Flatt, & Strobel Engineers, P.A.	Plan and elevation for bridge at 2nd Street and Five Mile Creek.

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46	City of Leavenworth Public Works Dept.	Construction Layout, U.S.-73 over Five Mile Creek	1981	Kansas Department of Transportation	Plan and elevation for bridge at 4th Street and Five Mile Creek.
47	City of Leavenworth Public Works Dept.	Limit Street Bridge over Five Mile Creek	1957	Truman Schlup Consulting Engineers	Plan, elevation, and section for bridge at Limit Street and Five Mile Creek.
48	City of Leavenworth Public Works Dept.	Shrine Park Road Bridge over Five Mile Creek Construction Layout	1992	Wilson & Company Engineers and Architects	Plan and section for bridge at Shrine Park Road and Five Mile Creek.
<b><u>Hydrologic Data</u></b>					
49	Kansas Department of Transportation	Rainfall Intensity Tables for Counties in Kansas	September 1991	Dr. Bruce McEnroe, et al., of University of Kansas for KDOT	Rainfall intensity table, containing average rainfall intensities in inches per hour, for durations of 5 minutes through 24 hours and return periods 1-, 2-, 5-, 10-, 25-, 50-, and 100-year for Leavenworth County.
50	University of Kansas	Final Report K-TRAN Research Project KU-93-5 Rainfall Inputs for Simulation of Design Floods in Kansas	July 1994	Dr. Bruce McEnroe, et al., of University of Kansas for KDOT	Comparison of fixed-shape and composite design storms, and development of modified-uniform design storm.
<b><u>Historical Flooding Data</u></b>					
51	City of Leavenworth Public Works Dept.	Historic Flooding Locations, B&V Memorandum	June 26, 1995	Black & Veatch	Compilation of historic flooding locations from City records and other documents.

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52	U.S. EPA	Stormwater Management Model, Version 4, User's Manual	August 1988	Wayne Huber & Robert Dickinson, University of Florida, for EPA	Description, theory, and use of computer model.
53	XP Software	XP-SWMM User's Manual, Version 2	November 1995	XP Software, Inc. WP Software, Inc.	Description, theory, and use of computer model.
<b><u>Other</u></b>					
54	City of Leavenworth Public Works Dept.	Missouri River Gauge Data	August 1990 through January 1996	Leavenworth City Staff	Morning and evening temperature and water surface elevation measurements at Dakota Street.