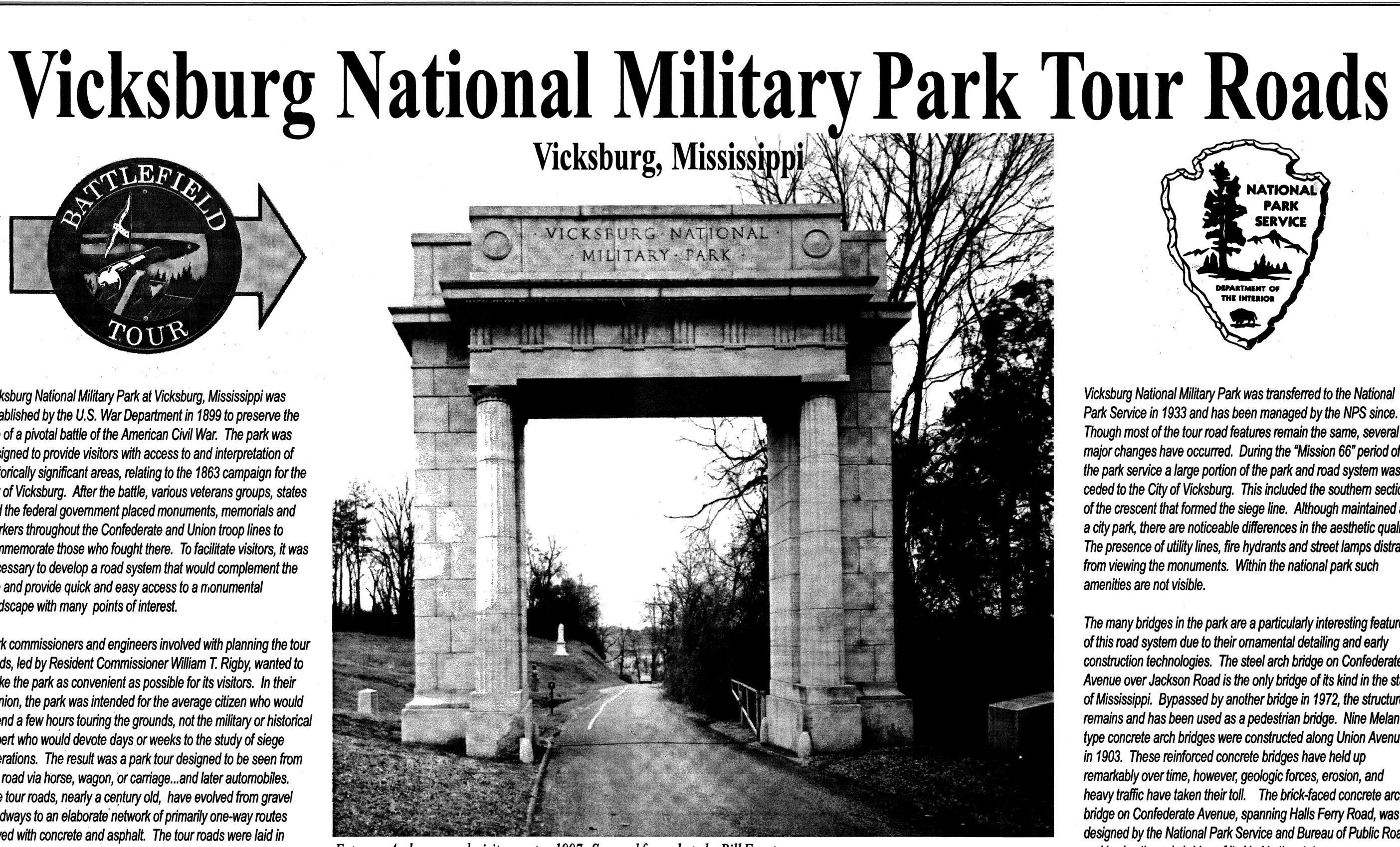


Park commissioners and engineers involved with planning the tour roads, led by Resident Commissioner William T. Rigby, wanted to make the park as convenient as possible for its visitors. In their opinion, the park was intended for the average citizen who would spend a few hours touring the grounds, not the military or historical expert who would devote days or weeks to the study of siege operations. The result was a park tour designed to be seen from the road via horse, wagon, or carriage...and later automobiles. The tour roads, nearly a century old, have evolved from gravel roadways to an elaborate network of primarily one-way routes paved with concrete and asphalt. The tour roads were laid in curvilinear alignments over and around the rolling landscape passing by the most significant trenches, encampments and battle sites along the siege lines, thus presenting a variety of views of the restored battlefield with monuments, interpretive signs, artillery placements and other historical points of interest. Maintained vistas, mowed bays and other landscape concerns along the roads complement the visitor experience of the park while elaborate drainage systems protect the roadway from erosion of the loess soil during heavy rains.



Entrance Arch near park visitor center, 1997. Scanned from photo by Bill Faust.

This project is part of the Historic American Engineering Record (HAER), a long-range program to document historically significant engineering and industrial works in the United States. The HAER program is administered by the Historic American Buildings Survey/Historic American Engineering Record Division (HABS/HAER) of the National Park Service, U.S. Department of the Interior. The Vicksburg National Military Park (VNMP) Roads and Bridges Recording Project was cosponsored by HAER (E. Blaine Cliver, Chief) and VNMP (William Nichols, Superintendent). The project was funded by the Federal Lands Highway Program (Thomas Edick, Administrator) through the National Park Service Park Roads and Parkways Program (Mark Hartsoe, Manager). The field work, measured drawings, historical reports, and photographs were prepared under the direction of Program Manager Todd A. Croteau and Richard Quin, Program Historian. The recording team consisted of William Pete Brooks, field supervisor; landscape architect Deb James, and architect Gregory Seale. Historical reports were prepared by project historian Courtney Youngblood. Formal largeformat photography was done by William Foust. The team was assisted by VNMP Historian Terrence Winschel.

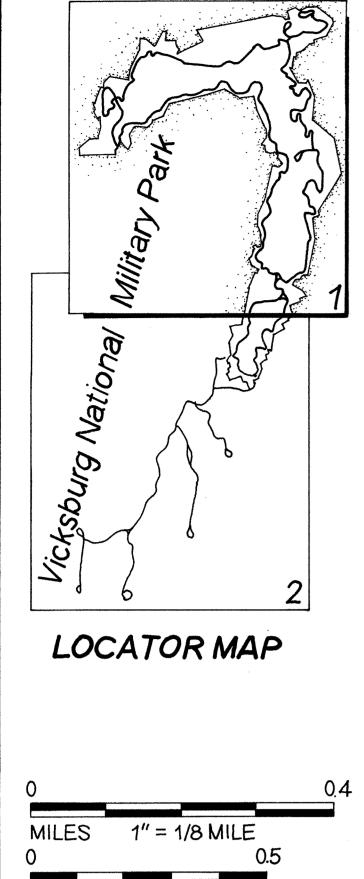


Vicksburg National Military Park was transferred to the National Park Service in 1933 and has been managed by the NPS since. Though most of the tour road features remain the same, several major changes have occurred. During the "Mission 66" period of the park service a large portion of the park and road system was ceded to the City of Vicksburg. This included the southern section of the crescent that formed the siege line. Although maintained as a city park, there are noticeable differences in the aesthetic quality. The presence of utility lines, fire hydrants and street lamps distracts from viewing the monuments. Within the national park such amenities are not visible.

The many bridges in the park are a particularly interesting feature of this road system due to their ornamental detailing and early construction technologies. The steel arch bridge on Confederate Avenue over Jackson Road is the only bridge of its kind in the state of Mississippi. Bypassed by another bridge in 1972, the structure remains and has been used as a pedestrian bridge. Nine Melantype concrete arch bridges were constructed along Union Avenue in 1903. These reinforced concrete bridges have held up remarkably over time, however, geologic forces, erosion, and heavy traffic have taken their toll. The brick-faced concrete arch bridge on Confederate Avenue, spanning Halls Ferry Road, was designed by the National Park Service and Bureau of Public Roads and is also the only bridge of its kind in the state.

This documentation defines the unique characteristics of the Vicksburg National Military Park Tour Roads and interprets the evolution of design, construction and maintenance of the monumental landscape as related to the tour road experience. Today, the tour roads remain heavily used and the older structures along the routes are being considered for replacement. This record will preserve on paper those details that make the park unique.



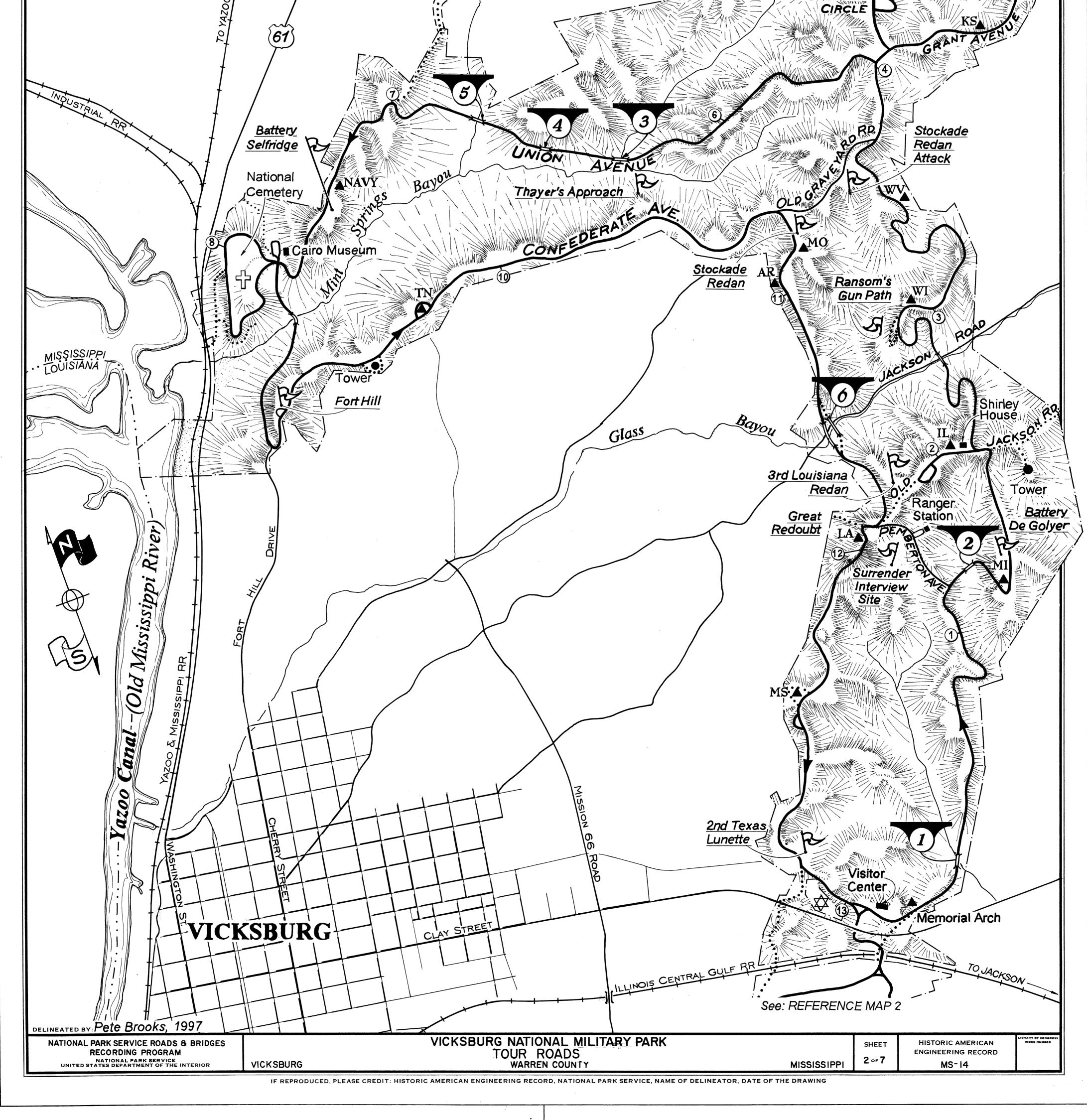


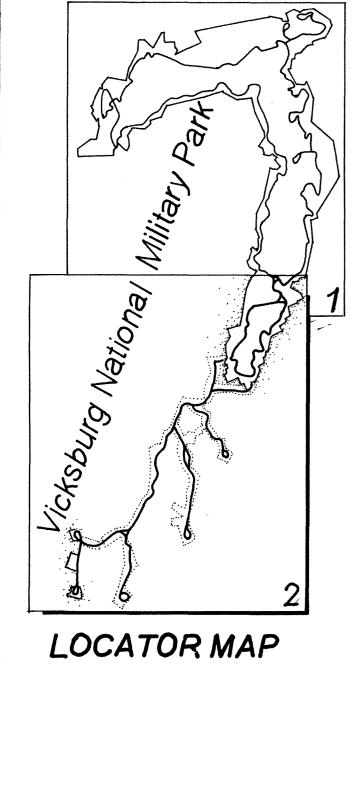
KILOMET

REFERENCE MAP 1

BASED ON: 1962 USGS 7.5 MINUTE MAPS: VICKSBURG EAST, VICKSBURG WEST & REDWOOD QUADRANGLES; "VICKSBURG NATIONAL MILITARY PARK, BY THE PARK COMMISSION..." MAP NOS. 1-4; AND PHOTOGRAPHS FOUND IN THE ARCHIVES OF THE VICKSBURG NATIONAL MILITARY PARK

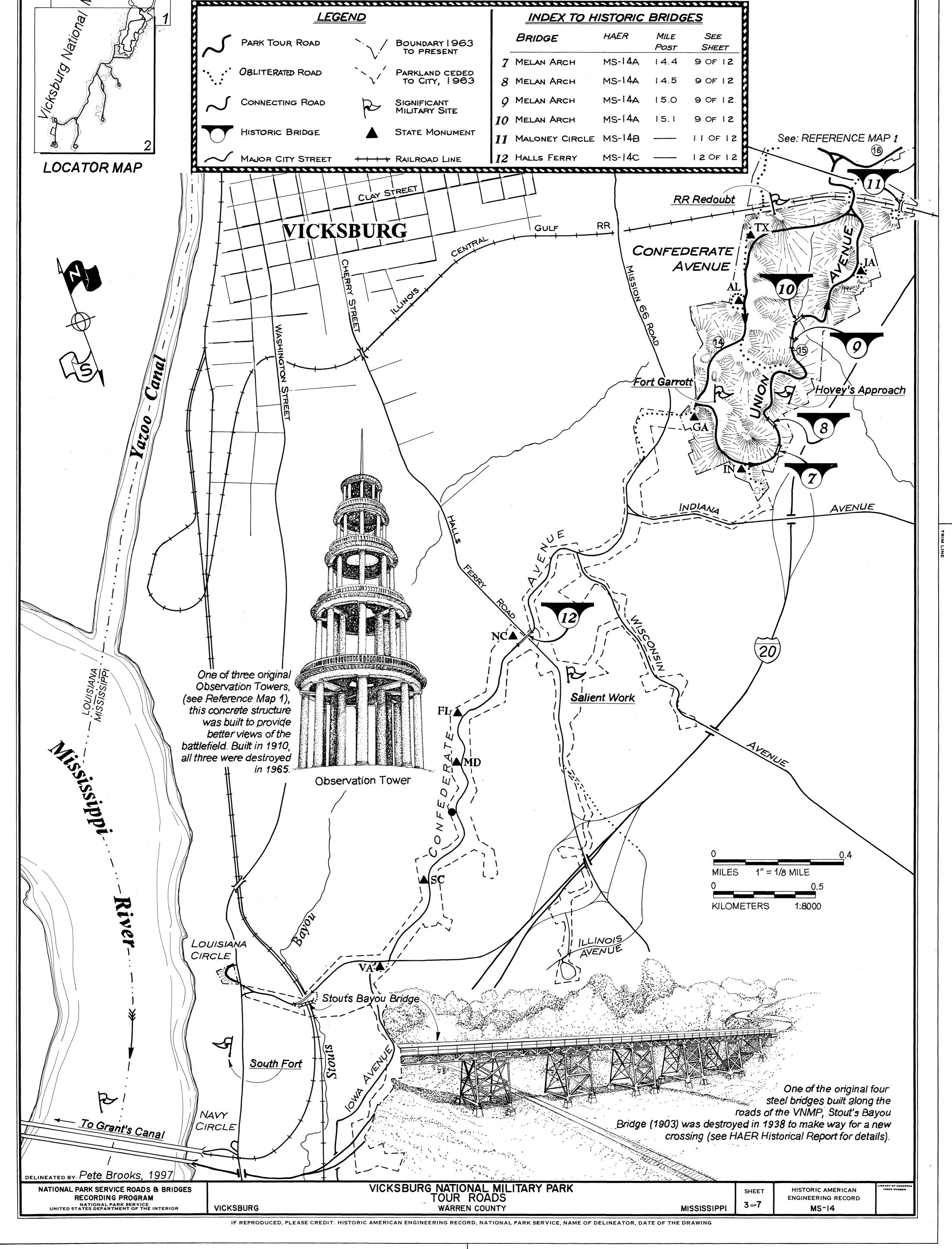
Milling		<u>LEG</u>	<u>END</u>	INDEX TO				
B R		Park Tour Road	BOUNDARY 1963	BRIDGE	HAER	Mile Post	See Sheet	
			V TO PRESENT	1 MELAN ARCH	MS-14A	0.2	8 OF 12	
$\langle \rangle$		OBLITERATED ROAD	TO CITY, 1963	2 MELAN ARCH	MS-14A	1.2	8 OF 12	
		CONNECTING ROAD	SIGNIFICANT	3 MELAN ARCH	MS-14A	6.4	8 OF 12	
			MILITARY SITE	4 MELAN ARCH	MS-14A	6.7	8 OF 12	
		HISTORIC BRIDGE	STATE MONUMENT	5 MELAN ARCH	MS-14A	6.9	9 OF 12	
° ∠ ATOR MAP	\sim	MAJOR CITY STREET	+++++ RAILROAD LINE	6 STEEL	MS-12	11.4	I OF 2	
0.4 1" = 1/8 MILE 0.5 ERS 1:8000				State And	AV	ENUE	Head Head SHERMAN	





REFERENCE MAP 2

BASED ON: 1962 USGS 7.5 MINUTE MAPS: VICKSBURG EAST, VICKSBURG WEST & REDWOOD QUADRANGLES; UNIVERSALMAP'S "VICKSBURG MISSISSIPPI STREET MAP," 1997; "VICKSBURG NATIONAL MILITARY PARK, BY THE PARK COMMISSION ... " MAP NOS. 1 & 3-6; AND PHOTOGRAPHS FOUND IN THE ARCHIVES OF THE VICKSBURG NATIONAL MILITARY PARK



186

Gen. Grant with Union troops moving on Old Jackson Rd. (Based on a sketch made July 4, 1863). ATIONAL CEMETER

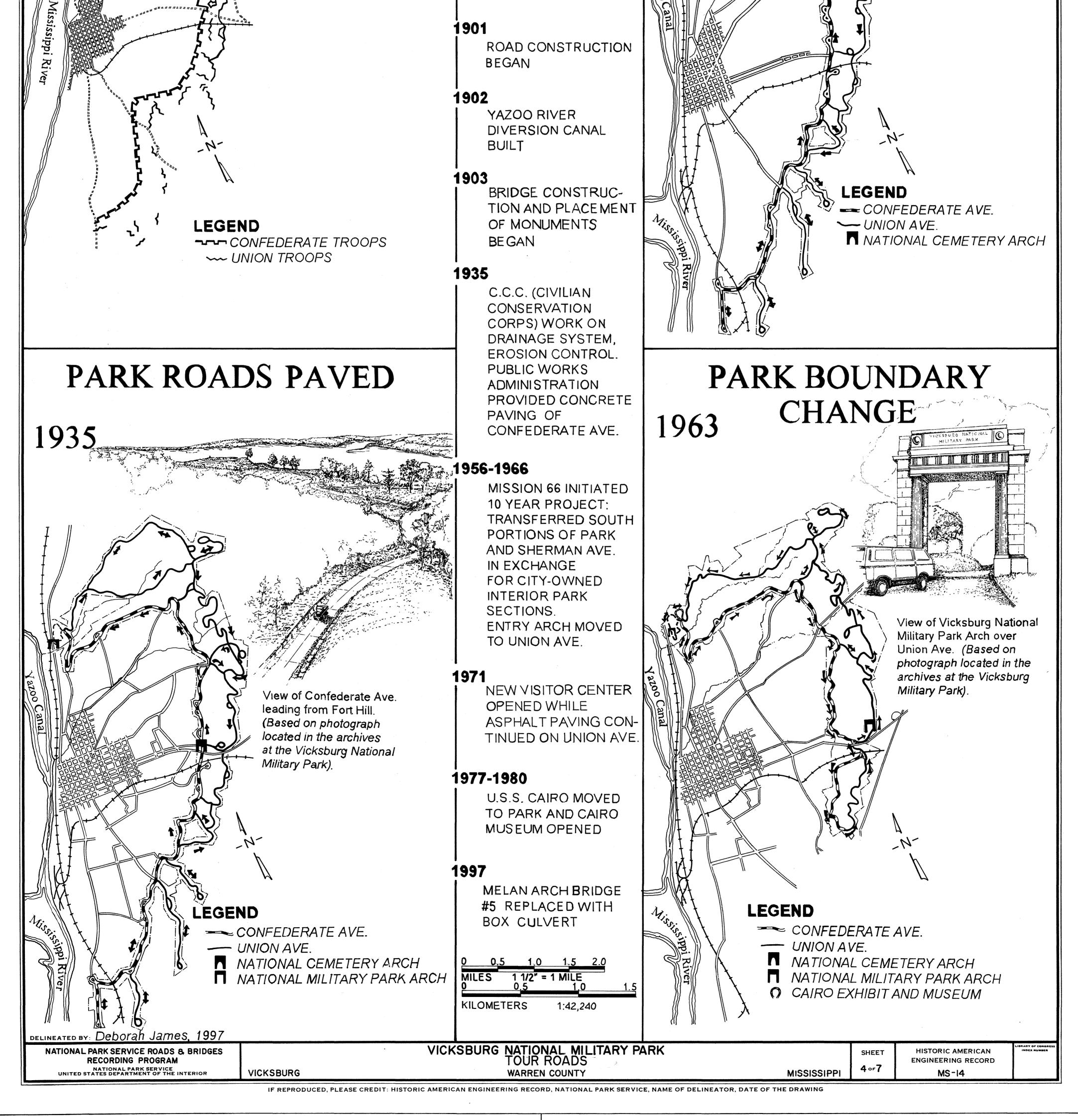
NATIONAL CEMETERY CREATED

1876 MISSISSIPPI RIVER CHANGED COURSE

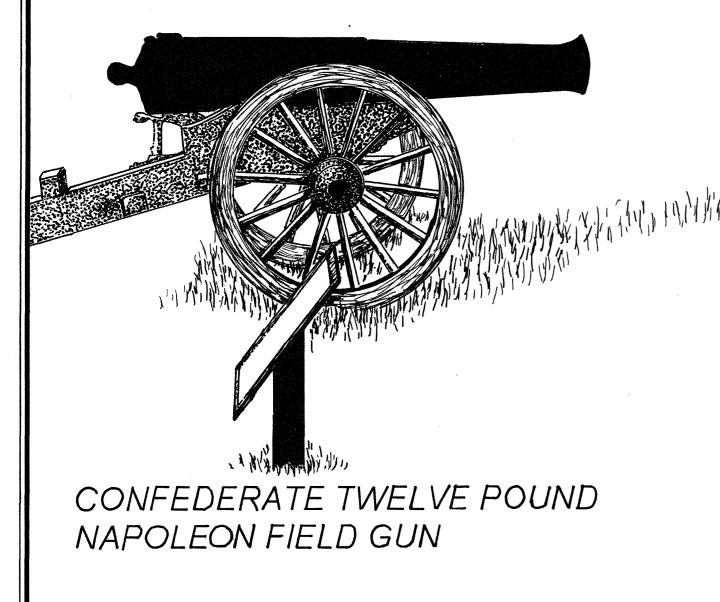
1899

NATIONAL MILITARY PARK ESTABLISHED Melan arch bridges over Union Ave. on the South loop of the park (Based on early 1900's photograph located in the archives at the Vicksburg National Military Park).

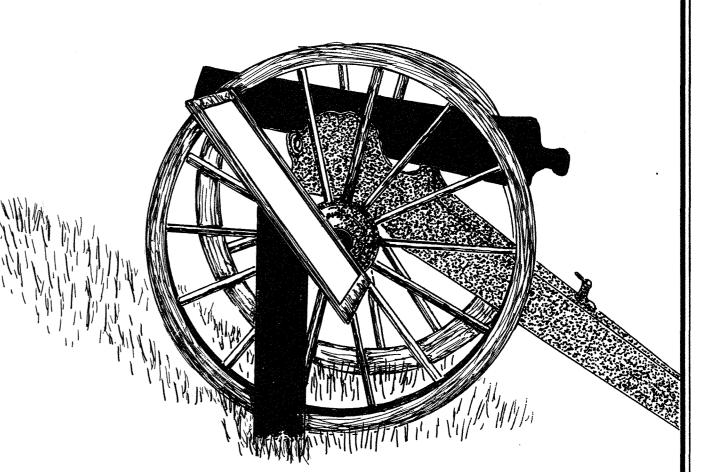
WWMIAN SUITE



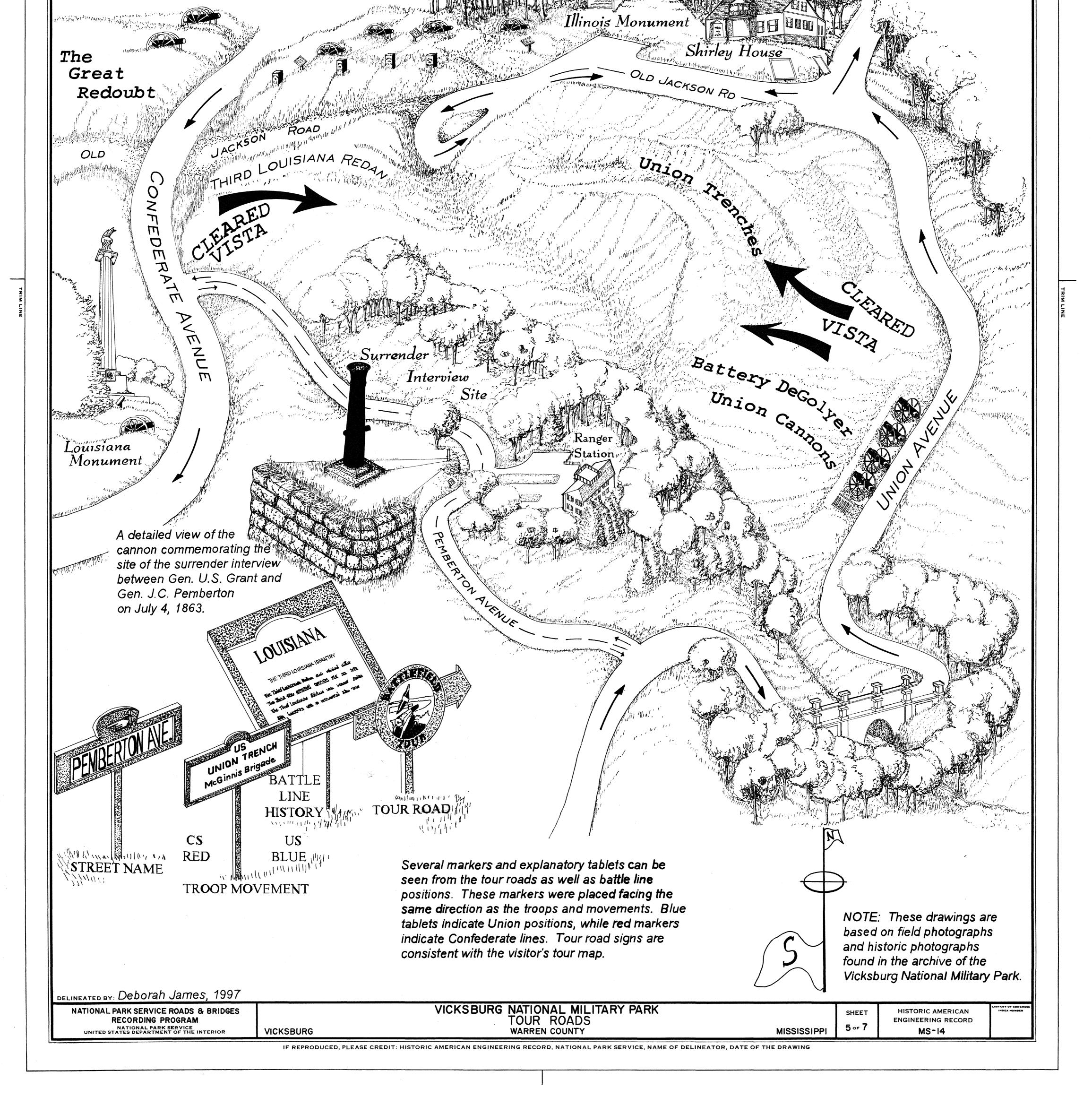
BATTLEFIELD TOUR ROADS SCHEMATIC VIEW

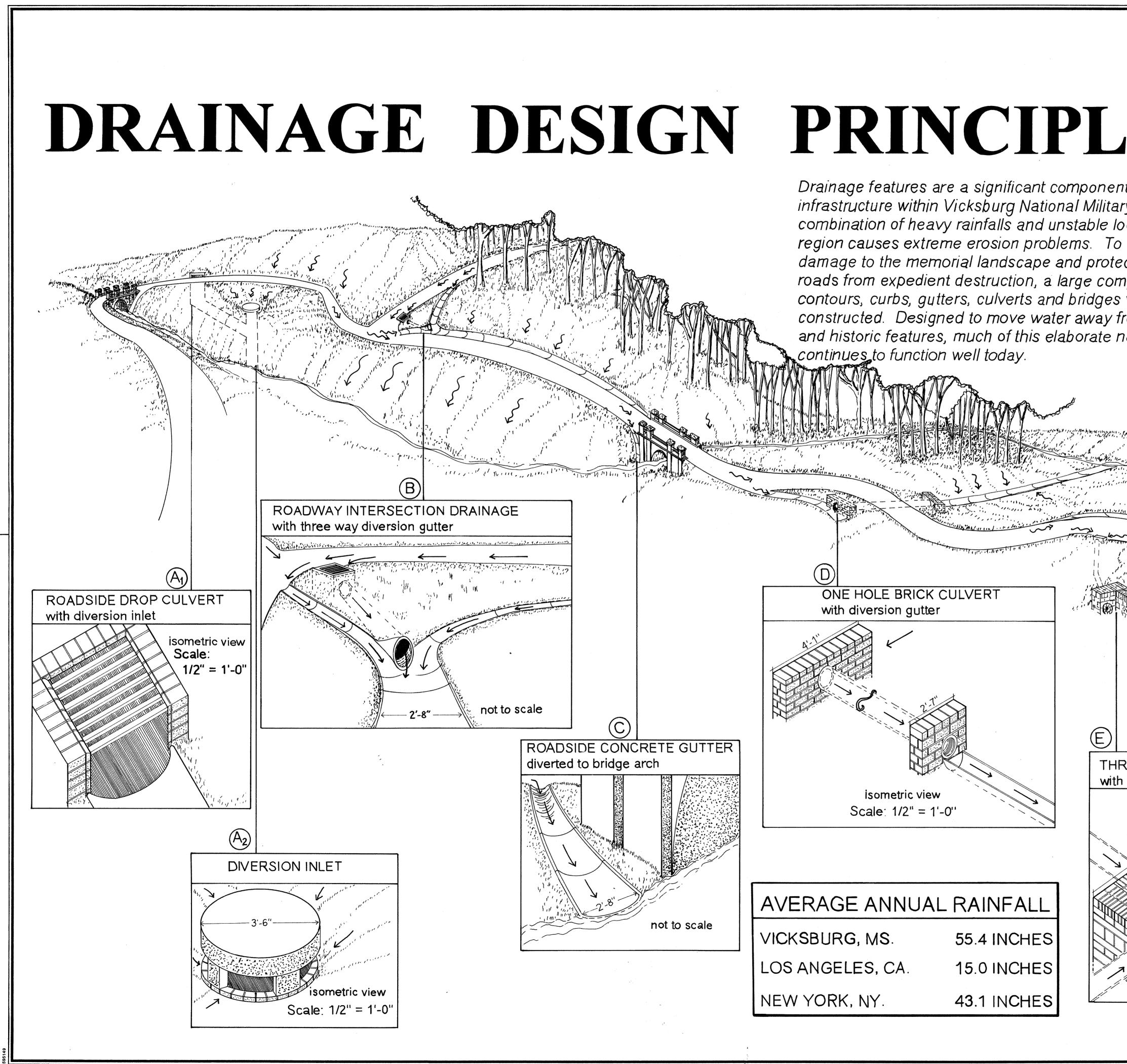


With Confederate Ave. and Union Ave. facing their respective battle lines, the park commissioners and engineers involved with planning the tour roads wanted to make the park as convenient as possible for its visitors to view the 1863 Vicksburg siege. Winding among the hills of Vicksburg, the tour roads follow many switchbacks and steep grades. Certain areas are shaded by a canopy of lush vegetation while other areas are intentionally kept open to view significant battle lines. This interpretive drawing represents the park areas between Pemberton Ave. and the Old Jackson Road as well as significant monuments and battle line history.



UNION TWELVE POUND HOWITZER



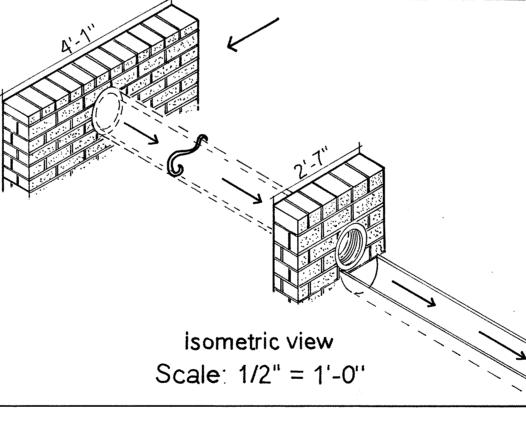


Drainage features are a significant componen infrastructure within Vicksburg National Militar combination of heavy rainfalls and unstable lo region causes extreme erosion problems. To damage to the memorial landscape and prote roads from expedient destruction, a large con contours, curbs, gutters, culverts and bridges constructed. Designed to move water away fi and historic features, much of this elaborate n continues to function well today.

bernite production a

E

ONE HOLE BRICK CULVERT with diversion gutter

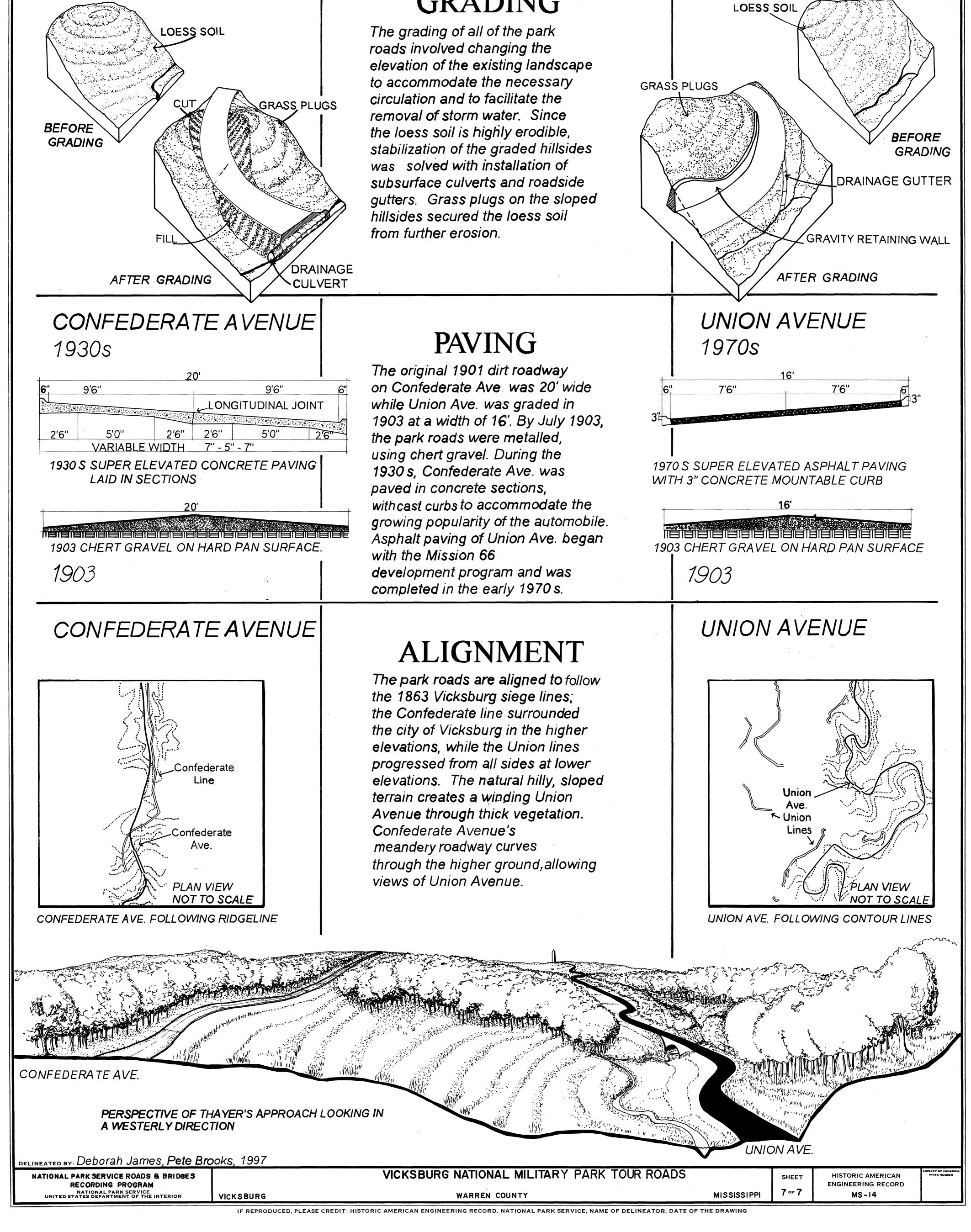


AVERAGE ANNUA	LRAINFALL
VICKSBURG, MS.	55.4 INCHES
LOS ANGELES, CA.	15.0 INCHES
NEW YORK, NY.	43.1 INCHES

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nent of the litary Park. The REFE e loess soils in the MAP To minimize totect the tour complex of road ges was by from roadways te network	RENCE	SHEET MISSISSIPPI 6 or 7
		VICKSBURG NATIONAL MILITARY PARK TOUR ROADS WARREN COUNTY
THREE HOLE BRICK CULVERT with diversion inlets	F ROADSIDE DRAINAGE drop culvert, mountable curb and concrete gutter 2'-8" 3'-9" 9'0" 9'0" 10'0"	DELINEATED BY: Deborah James, 1997 NATIONAL PARK SERVICE ROADS & BRIDGES RECORDING PROGRAM UNITED STATES DEPARTMENT OF THE INTERIOR UNITED STATES DEPARTMENT OF THE INTERIOR

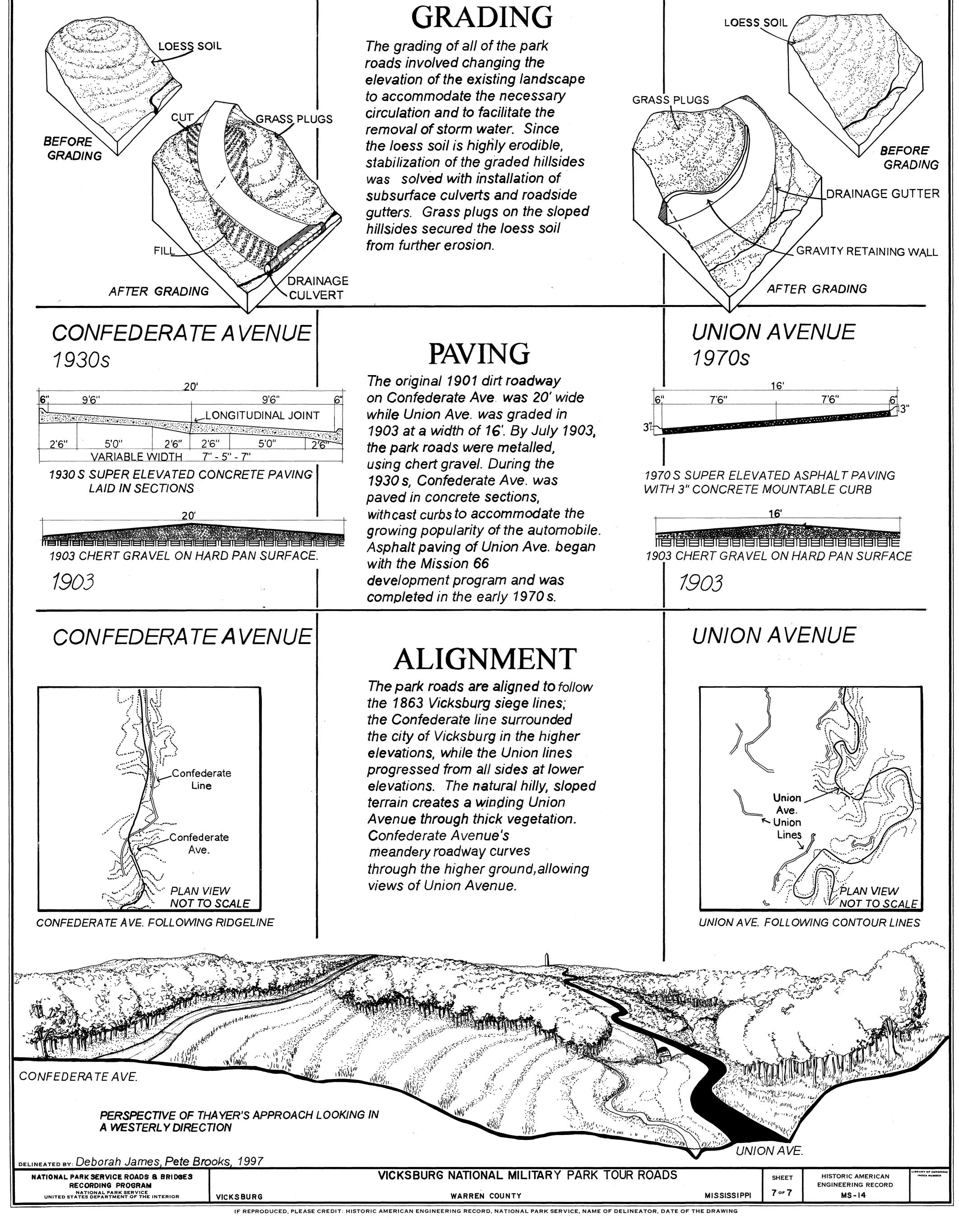
ROADWAY ENGINEERING

CONFEDERATE AVENUE



GRADING

UNION AVENUE











































HAER MS 14-13









































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