city, town

CMB No. 1024-0018 Expires 10-31-87

United States Department of the Interior National Park Service

National Register of Historic Places Inventory—Nomination Form

For NPS use only

received

state

date entered

		-complete ap	plicable se	ctions				
1.	Nam	e						
historic	Illi	nois Central	Stone A	rch Rail:	road Bridges	· S		
and or c	common	City Stree	et Arches					
2.	Loca	ition	_			· · · · · · · · · · · · · · · · · · ·	· ·	
street &	number				cond Street, Monroe & Col		not for publication	on
city, tow	vn Di	xon		vi	cinity of			
state	11	linois	code	012	county	Lee 61021	code	103
3. (Clas	sification	on	ند		-	 	7
Catego dist buil _XX stru site obje	trict iding(s) ucture	Ownership public XX private both Public Acquis XX in process being cons		unocc work i Accessibl yes: re	n progress	Present Useagriculturecommercialeducationalentertainmentgovernmentindustrialmilitary	museum park park private reside religious scientific XX transportatio other:	
4. (Own	er of Pr	opert	y				
name	Illin	ois Central	Gulf Rai	lroad				
street &	number	Two Illin	ois Cent	er, 233 N	orth Michig	an Avenue		
city, tow	ın	Chicago	·	vi	cinity of	state	Illinois 60601	579
		tion of	Lega					
courthou	use, regis	try of deeds, etc	. Le	ee County	Court Hous	e		
street &	number		-	<u> </u>				
city, tow	'n	Dixon				state	Illinois 6102	· ?1
	- ·	esenta	tion i	n Exis	sting S	urveys		
title	None				has this proper	rty been determined el	igible?yes _ ^y	<u> </u>
date		- · · · · ·				federal sta	te county	loca
deposito	ory for sui	rvey records	·• · · · · · · · · · · · · · · · · · ·		-	·	,	

7. Description

Condition XX excellent good	deteriorated	Check one XX unaltered altered	Check one XX_ original site moved date
fair	unexposed		

Describe the present and original (if known) physical appearance

The trio of stone arch railroad bridges are semi-circular arch bridges built of native Galena coursed limestone quarried in the vicinity at Dement's Quarry on the North side of the Rock River upstream from Dixon.

The three stone arch railroad bridges are located at West First Street, West Second Street and West Third Street between Monroe Avenue and College Avenue in the western section of the City of Dixon. The bridges carried the tracks of the Illinois Central Railroad over the three city streets at clearances of 14-feet, 15-feet and 12-feet. From West Seventh Street to the Rock River, a 15-foot high embankment of packed dirt, stone rubble, travel and other assorted landfill products was constructed by workers during the railroad construction period of 1852-55. The earthen mounds carrying the railroad tracks are separated by the three stone arch bridges allowing traffic to flow underneath the tracks above in an east-west direction.

The stone in each of the three stone arch bridges were cut to fit and placed without bond. Keys were cut into the stones to prevent slippage with no weakness or stress points noticeable in any of the three stone arch bridges. Stone used was also known as cut or dimension stone of plain ashlar masonry with a rock or chiseled face. The arch stones are finished with a chiseled face. Wingwall and arch bases are finished with a rock face.

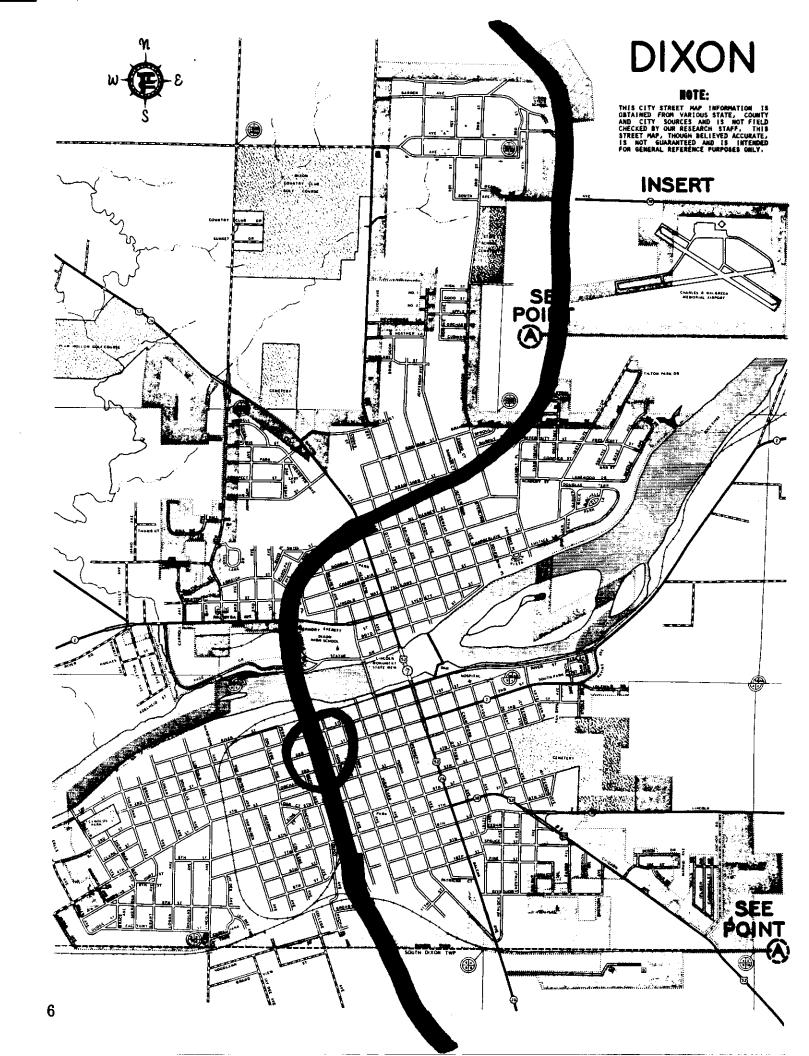
The original condition of the three structures in Dixon have changed very little since they were constructed in 1852-55. An attempt at limited tuckpointing in the 1912-15 era has been the only semi-major maintenance noted.

The constant weight and vibration from the passing trains overhead and the flow of traffic underneath (both vehicular and pedestrian) over the years has had little or no effect on any of the three stone arch bridges.

Dimensions of the stone arch railroad bridges:

Arch Rise	W. 1st St.	W. 2nd St. 15'	W. 3rd St.
(clearance-bottom to street level)	14	13	12
Arch Span	28'	281	281
(width from side to side)		20	20
Depth (distance from Entry to	28'	34'	38'
Exit on street level)			
Distance between bottom edge of	6'	6'	6'
keystone and ground level (track			
right-of-way) above			
Base of Wingwall	33'	33'	33'
Distance Between Arches:			
Northend of W. 1st St. Arch to Sout	h End of W.	3rd St. Arch (total) 1294'
Northend of W. 1st St. Arch to Nort	th End of W.	2nd St. Arch	514'
Northend of W. 2nd St. Arch to Sout	h End of W.	3rd St. Arch	780'
Two city blocks in length			

This nomination contains three structures. They are contributing structures.



8. Significance

Period prehistoric 1400–1499 1500–1599 1600–1699 1700–1799 1800–1899 1900–	Areas of Significance—C archeology-prehistoric archeology-historic agriculture architecture art commerce communications	_ community planning conservation _ economics	landscape architecture literature military music philosophy politics/government	re religion science sculpture social/ humanitasian theater transportation other (specify)
Specific dates	1852-1855	Suilder/Architect Rob	ert Finley Laing	

Statement of Significance (in one paragraph)

The Illinois Central Railroad stone arch bridges in Dixon are significant for their association with an important railroad transportation route in Illinois during the 19th century. The Illinois Central Railroad (ICRR), chartered in 1851, was a key railroad link for the continental interior. It ran from Cairo in Southern Illinois for 705½ miles north to Dunleith (East Dubuque) in the far northwestern part of the state along the banks of the Mississippi River. An eastern branch line of the ICRR ran from Centralia to Chicago. The stone arch railroad bridges in Dixon made it possible for the railroad to cross the Rock River and to travel over three main city streets in a safe and orderly manner. The ICRR line was an important factor in the development of Dixon as a transportation and service center for Lee County.

The trio of Galena limestone arch railroad bridges, located on West First Street, West Second Street and West Third Street between Monroe Avenue and College Avenue in the western commercial/residential area of Dixon, Lee County, Illinois, are significan to local history due to their contribution to the growth and development of Dixon, their architectural character and their splendid physical condition even yet today.

The arch is a structural member used in construction and civil engineering to span an opening and to support loads from above. Early builders in masonry spanned wide openings with small, easily carried or handled blocks of stone.

The arch was known in Egypt and Greece but was considered unsuitable for monumental architecture and was little exploited. The Romans, during the 300's B.C., used the semi-circular arch in bridges, aqueducts and large-scale architecture. In most cases they did not use mortar, relying simply on the precision of their stone dressing. In the late Middle Ages the segmental arch was introduced, in which the arch was less than half of a circle. This form had great value in bridge engineering because they permitted mutual support by a row of stones that made up a larger row of arches.

The passage in 1850 of the Illinois Land Grant Act, which Senator Stephen A. Douglas had sponsored in the United States Congress, turned 2,595,000 acres of land over to the State of Illinois for a railroad 705½ miles long to run through the center of the state.

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	 9-	Illinois Cer	ntral Stone	Arch	Railroad	Bride

At this time there weren't 10,000 miles of railroad track in the entire country, none west of the Mississippi River and only about 100 miles in Illinois. The ICRR line was begun in the summer of 1851 and by March, 1853, track was laid from Mendota to Amboy and the first "iron horse" reached the village of Amboy, 12 miles south of Dixon, on November 27, 185

Local newspaper reports trace the course of the Illinois Central Railroad from the paper's first issue on May 1, 1851. In the 9th issue of the then fledgling local newspaper, THE LEE COUNTY HERALD AND DIXON EVENING TELEGRAPH, it was reported that:

"The Galena branch of the Central Railroad now has 30 people working on the new line's survey. In charge of Mr. Provost, Mr. Germaine and assistafrom Dixon north and to the south in charge of Mr. Blackfoot."

Included in this survey work was the railroad line's course through the then tiny village of Dixon; a course that would raise the railroad track bed fifteen feet higher than the level of the land for safety. Raising the railroad track bed right-of-way by mounding packed dirt and inserting three stone arch bridges over three east-west city streets gave purpose to the design and construction genius of Robert F. Laing.

The trio of stone arch bridges in Dixon were built by Robert Finley Laing of the firm of Laing and Douglas Construction Company, contractors for the Illinois Central Railroad between 1852 and 1855. Laing designed the three stone arch bridges as well as the railroad bridge and its stone piers over the Rock River at Dixon.

THE DIXON EVENING TELEGRAPH reported on March 6, 1852, that the first official diagram of the route chosen for the Illinois Central Railroad to and through Dixon had been made public. The newspaper noted:

"From the southwest at the corner of Section 9, Town 21, Range 9; thence two miles to Dixon, where it crosses Rock River on the Island at the lower edge of town. From there to Freeport."

Between 1852-56, as many as 10,000 men at any one time built the ICRR the length of the state of Illingis. Railroad work was tough physical labor. Preparation of the road bed and transportation of iron and timber were assisted by teams of oxen and horses; but most embankments, ditches and cuts were made by sweating men with shovels. Rails were spiked down with mauls or sledges amidst a constant and deafening clatter. Workers toiled 11 to 12 hours a day 6 days a week, for a maximum of 10¢ per hour.

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			Central	Stone	Arch	Railroad	Bridges

The railroad was built in the Dixon vicinity from 1852 to 1855; the first Illinois Central Railroad trains traveling through the community on February 1, 1855. THE DIXON EVENING TELEGRAPH, on February 10, 1855, reported:

"The shrill whistle of the engine was heard and upon examination it was seen that two engines were about to cross for the first time, the splendic bridges at this place.

"Thus, the Central road, passes through our town over an embankment so high that it not only gives those in the cars a fine view of our town, but the town people have a magnificent view of the train. Like a huge chariot of fire on a monstrous beast, it bellowed along -- high above the dwellings."

Constructed of carefully cut and shaped Galena limestone, a local historian had this to say of the stone arch railraod bridges:

"The yellowed limestone gleams in the setting sun like molten gold. These Arches have been of untold value because of the lives and property saved by not having open crossings.

"Due to the contour of the land over which the railroad tracks were laid, the Arches have clearances of 15-feet over West Second Street, 14-feet over West First Street and 12-feet over West Third Street. This last Archwas called "Little Sister" due to its height.

"If wagons and trucks needed more space than that provided by the Arches, they crossed over the railroad tracks on West Seventh Street in the Dementtown area." 1

As reported in the January 10, 1852, issue of THE DIXON EVENING TELEGRAPH

"Railroad prospects have put new life in Dixon. Hotels are crowded -- the price of lots advanced -- new buildings are going up -- and many previously built have been greatly improved in appearance."

 Armington, Dorothy, "Railway Piers and Arches at Dixon, Illinois," Lee County Historical Society publication, 1977.

National Register of Historic Places Continuation Sheet

Section number _	8	Page	4						
		9		Illinois	Central	Stone	Arch	Railroad	Bridg

The "new life" put into Dixon at this time carried forward for many years. In addition to other, the Northern Illinois Normal School and Dixon Business College, Henderson Shoe Factory, Northern Illinois Utilities steam power plant, Boyd Casket Company, Clipper Mower Company, Lindquist Construction Company, Rock River Ready Mix and many more were established in the western sections of Dixon, The advent of the railroad made their location in Dixon possible.

The course of the ICRR through Dixon attracted a great many trades people to the community. In the western section of the city, along the train route into town, a thriving business community grew calling itself Dementtown in honor of Colonel John Dement who owned and platted most of the land in the area. Feed mills, hotels, cafes, groceries, liveries and the like soon opened to service the needs of the trains and their passengers. The Grand Detour Plow Company, the Eagle Iron Works, Gossard Corset Company and other industrial firme located in Dementtown to stand next to the passenger and freight depots of the railroads that serviced the city.

Dixon, from the day the first train passed through town, continued to grow and prosper because of the trade the railroad brought and the product that could be sent out in its cars. As railroad business prospered, so did the business development of Dixon and the Lementtown area within the city. An increase in population over the years was a direct result of the arrival of the ICRR in Dixon.

The unique a rchitectural qualities of the three stone arch bridges make them most unusual in their own right. The fact that each has served almost in the center of a busy city for so many years as passage under which people and vehicles have passed and over which a multitude of extremely heavy railroad trains have traveled makes them most unusual.

To preserve for the future these three links with a rich and historic community past seems only right and just.

The three stone arch railroad bridges are the only ones of their type in Lee County. The fact that all three of the stone arch bridges, standing now where they have stood for over 135 years, remain in tact as three of the oldest stone structures in Dixon, gives great significant to their continued well being.

National Register of Historic Places Continuation Sheet

Section number 9 Page 2 Illinois Central Stone Arch Railroad Bridges

- 3. Hofman, Robert, "The Engineering Significance of the Stone Arch," letter to author of July 7, 1987.
- 4. Lamb, George, "How Dixon's Railroad Bridges Were Constructed,", Dixon Telegraph, April 8, 1987.
- 5. Dixon Telegraph and predessors, May 1, 1851 to February 10, 1855 and various later issues.

<u>9. Maj</u>	<u>or Biblic</u>	ographica	il Referer	nces	
2. Corlis	Paul Wallaces, Carlton J	Harvard Univ Main Line of Creative Age	versity Press.	1934	lonization Work".
10. Ge	ograph	ical Data			
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and any pro	operty on wh	ich it stands.	The dimensions	for each bridg	ge are given in
state		code	county		code
state	- "	code	county		code
name/title	George Lamb			iate July, 19	987
street & number	. 115 E. Boy	/d Street	1	elephone (815)2	284-8679
city or town	Dixon, Ill			state Illinois	61021
12. Sta	ate Hist	oric Pres	ervation	Officer C	ertification
The evaluated s	-	is property within the	state is:		
665), I hereby n according to the	ominate this projections of the criteria and pro	cedures set forth by	for the National His the National Registe	r and certify that it i	ct of 1966 (Public Law 89- les been evaluated
	Preservation Offic	-	- was	400	10/15/07
For NPS us	e only	Historic Prese	1	date date	10/15/87
Keeper of ti	he National Regi	ster			
Attest:	-			date	
Chief of Re	oistration				

GPO 911-398