

**APPENDIX A: MAPS AND HISTORIC DOCUMENTS
(PLATES)**

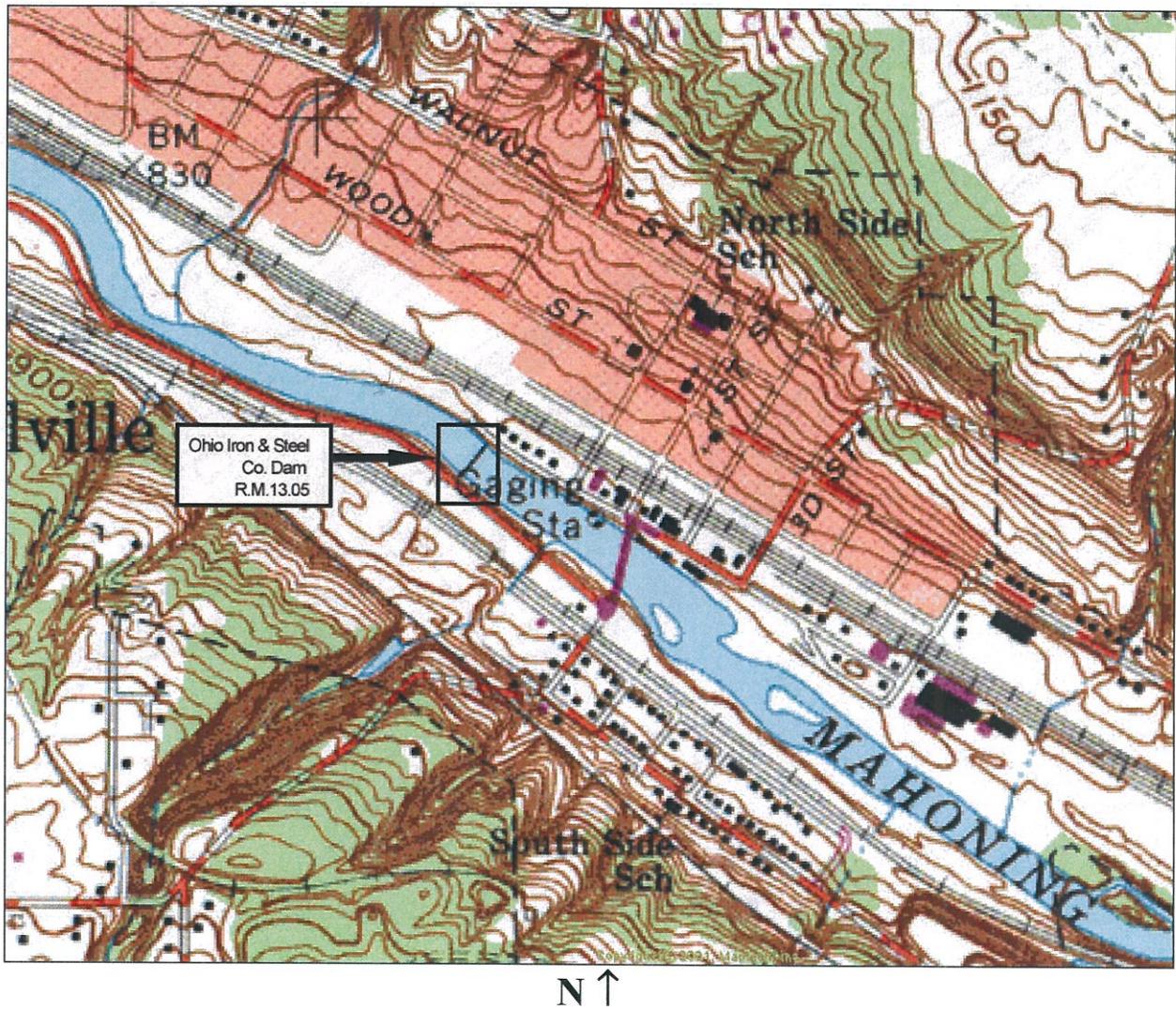
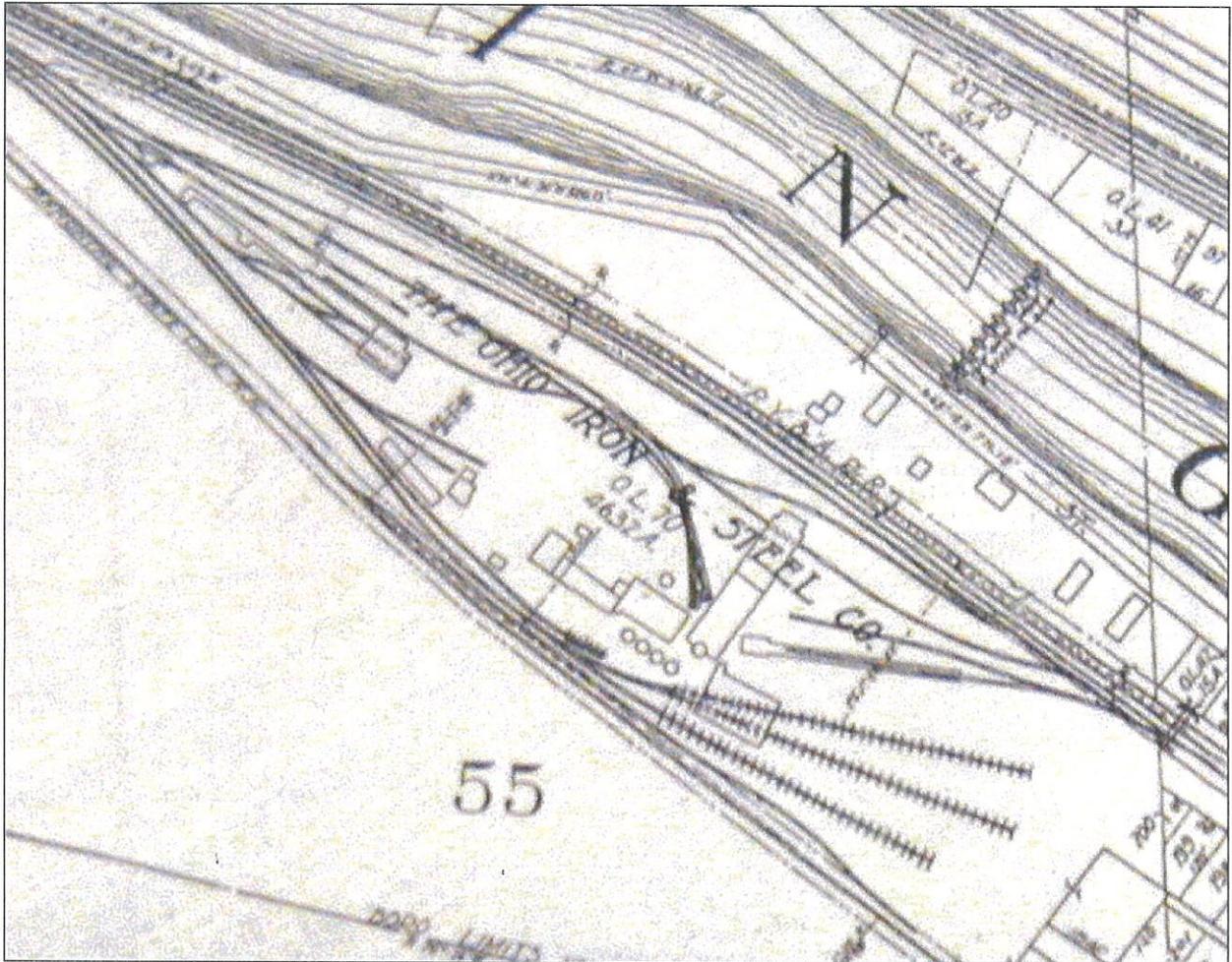
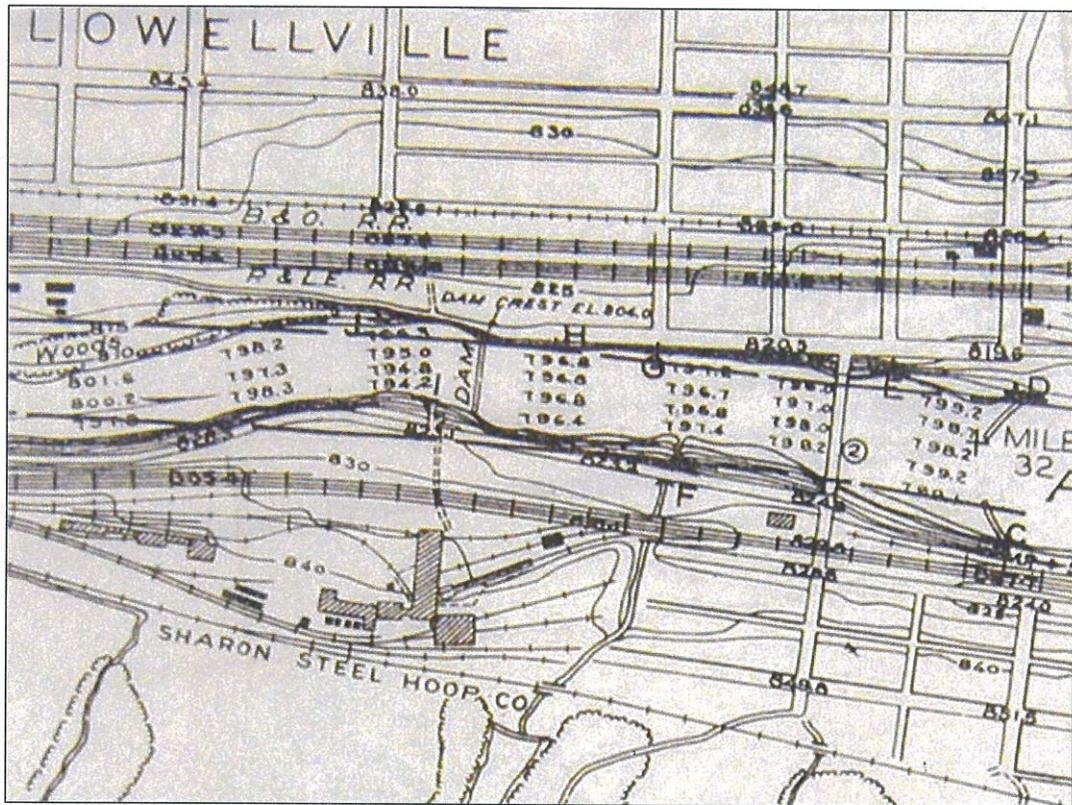


Plate 1 – Current USGS Location Map of Ohio Iron & Steel Co. Dam, Lowellville (Map Courtesy of U.S. Army Corps of Engineers, Pittsburgh District).



N ↑

**Plate 2 – 1915 Lowellville Map. Shows the Ohio Iron & Steel Co. Plant and Dam.
(Gutknecht Atlas of Mahoning County, Map 46).**



N ↑

Plate 3 – 1937 U.S. Army Corps of Engineers Map of the Mahoning River at Lowellville. Shows the Sharon Steel Hoop Co Plant and associated dam.

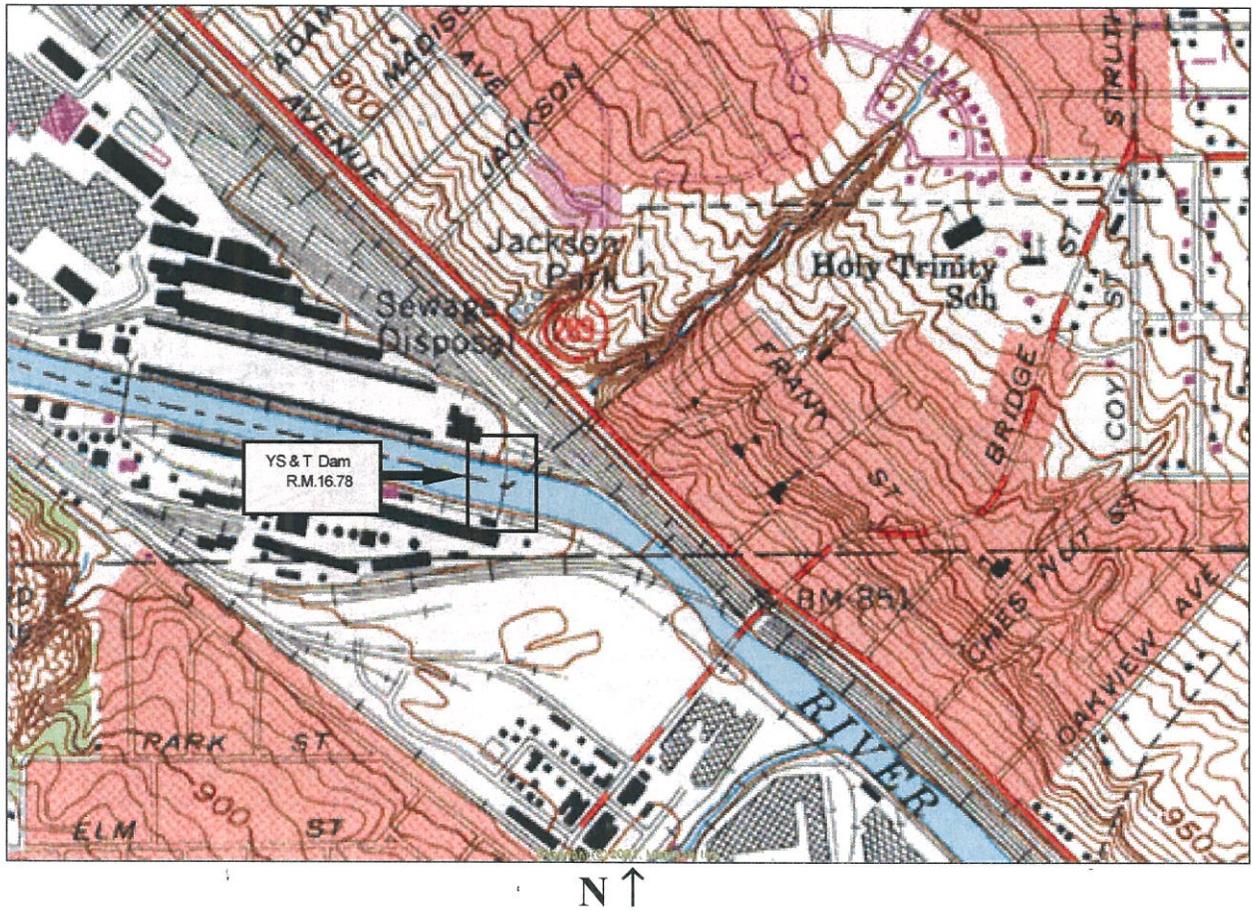


Plate 4 – Current USGS Location Map of YS & T Dam, Struthers (Map Courtesy of U.S. Army Corps of Engineers, Pittsburgh District).

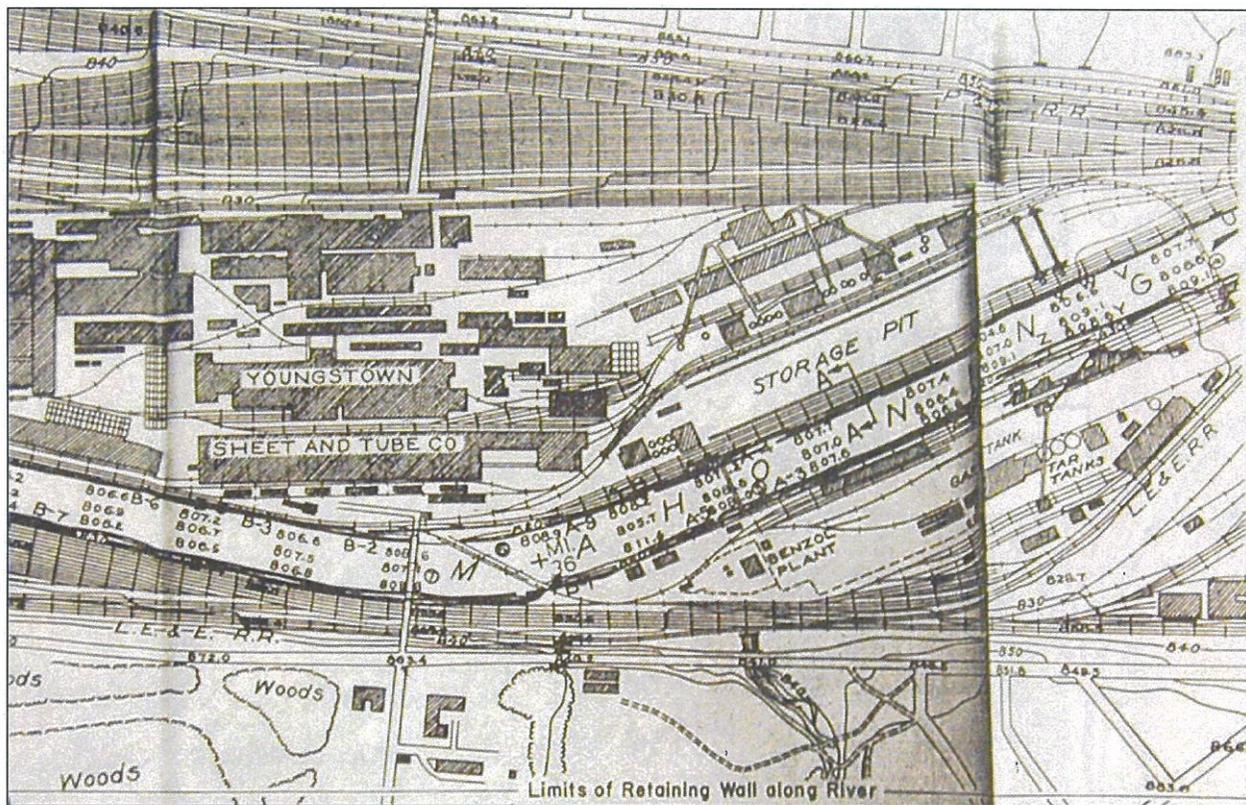
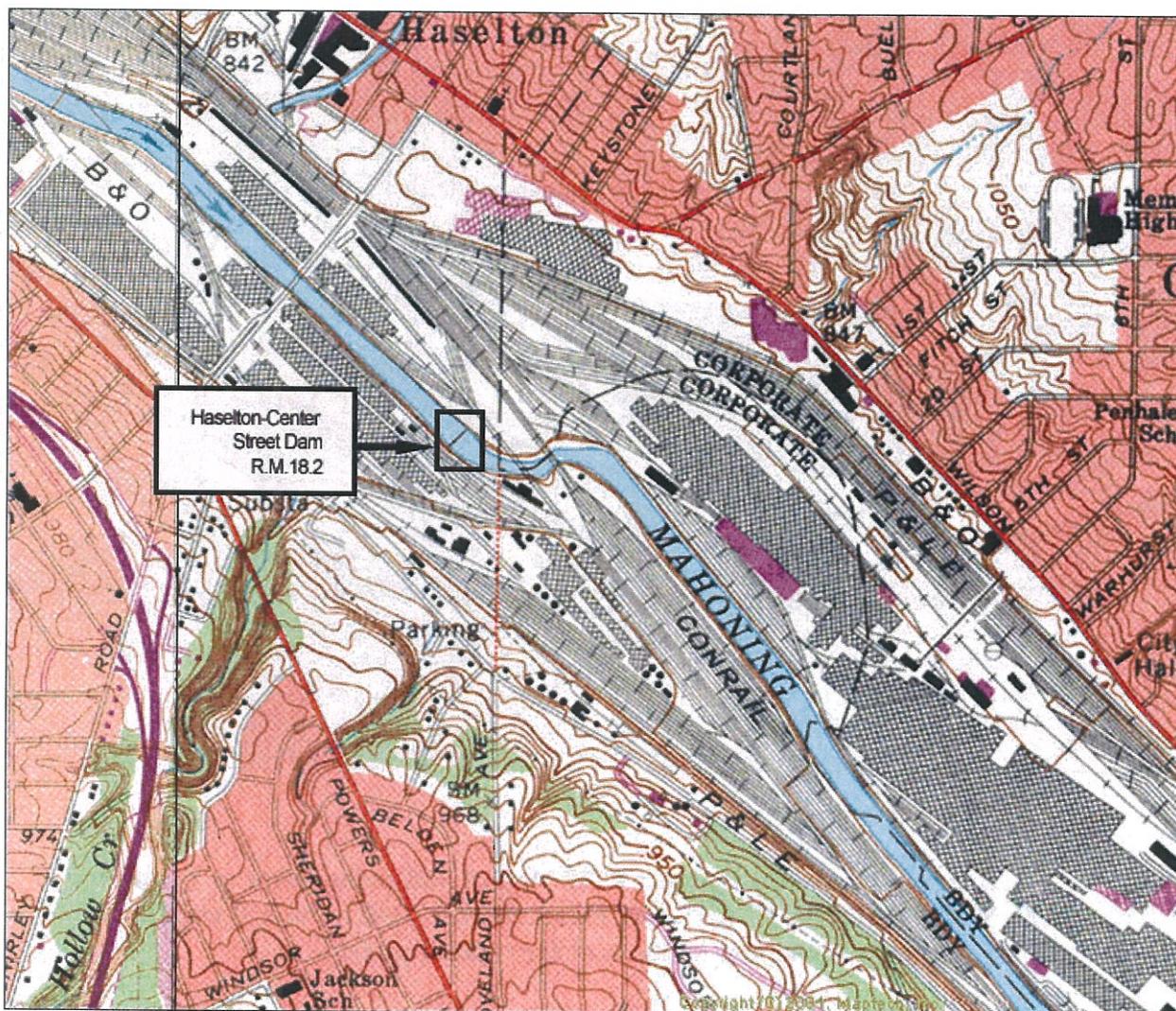


Plate 5 – U.S. Army Corps of Engineers 1937 Map of Mahoning River at Youngstown. Shows YS&T Plant, the YS&T Coke Plant, and the YS&T Coke Trestle/Dam. Dam and trestle is at far right of plate.



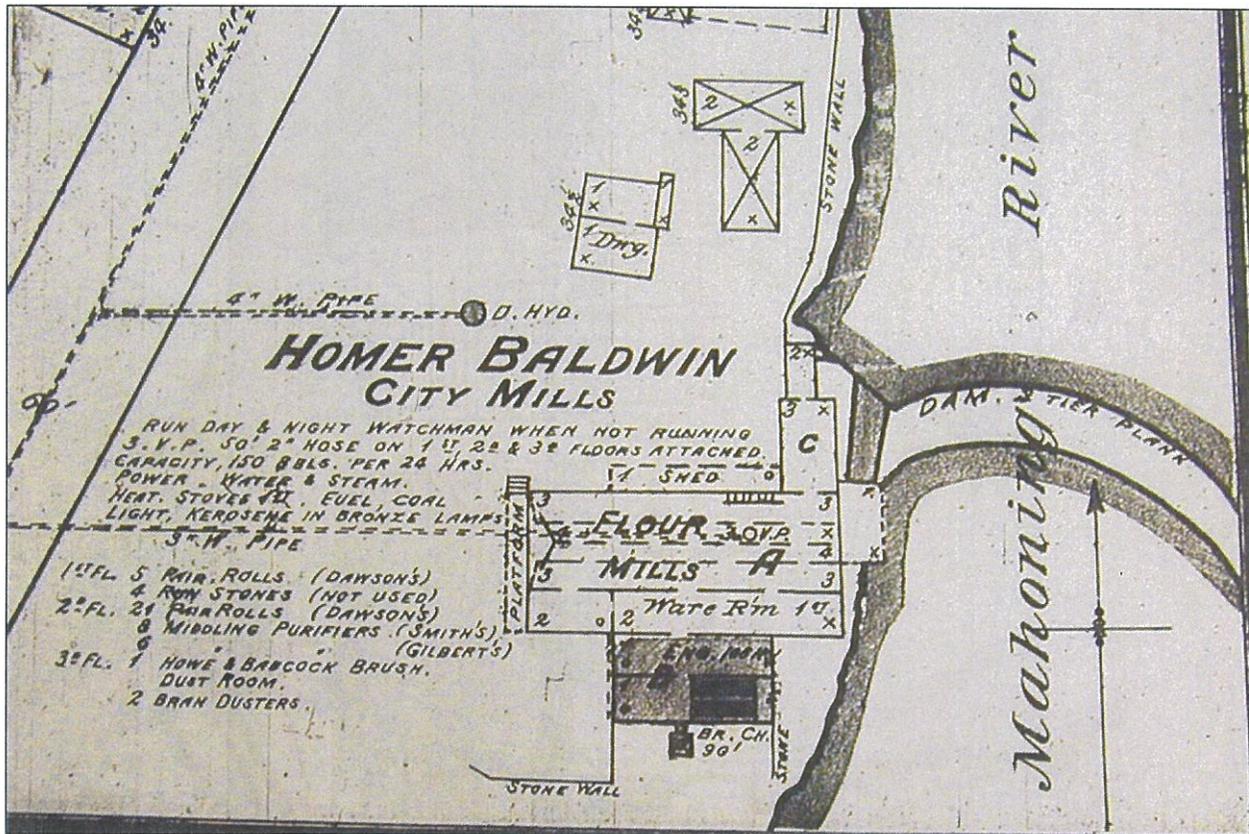
N ↑

Plate 6 – Current USGS Location Map of Republic Steel Campbell Works Dam (Map Courtesy of U.S. Army Corps of Engineers, Pittsburgh District).



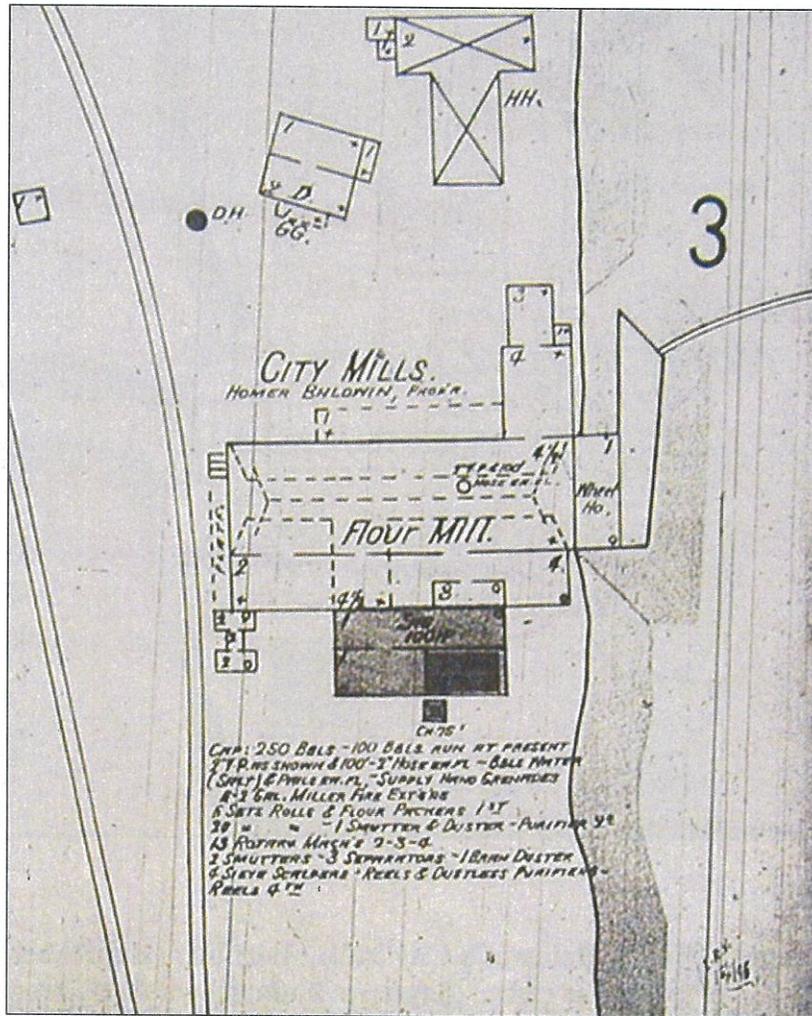
N ↑

Plate 8 – Current USGS Location Map of the Baldwin City Mills Dam, Youngstown (Map Courtesy of U.S. Army Corps of Engineers, Pittsburgh District).



N ↑

Plate 9 – 1884 Sanborn Map of Baldwin’s City Mills. Portion of dam labeled “Three Tier Plank Dam” visible at right. (Sanborn Youngstown 1884, Map 1)



N ↑

Plate 10 – 1896 Sanborn Map of Baldwin’s City Mills. Small section of arched dam is shown at right. (Sanborn Youngstown 1896, Map 23)

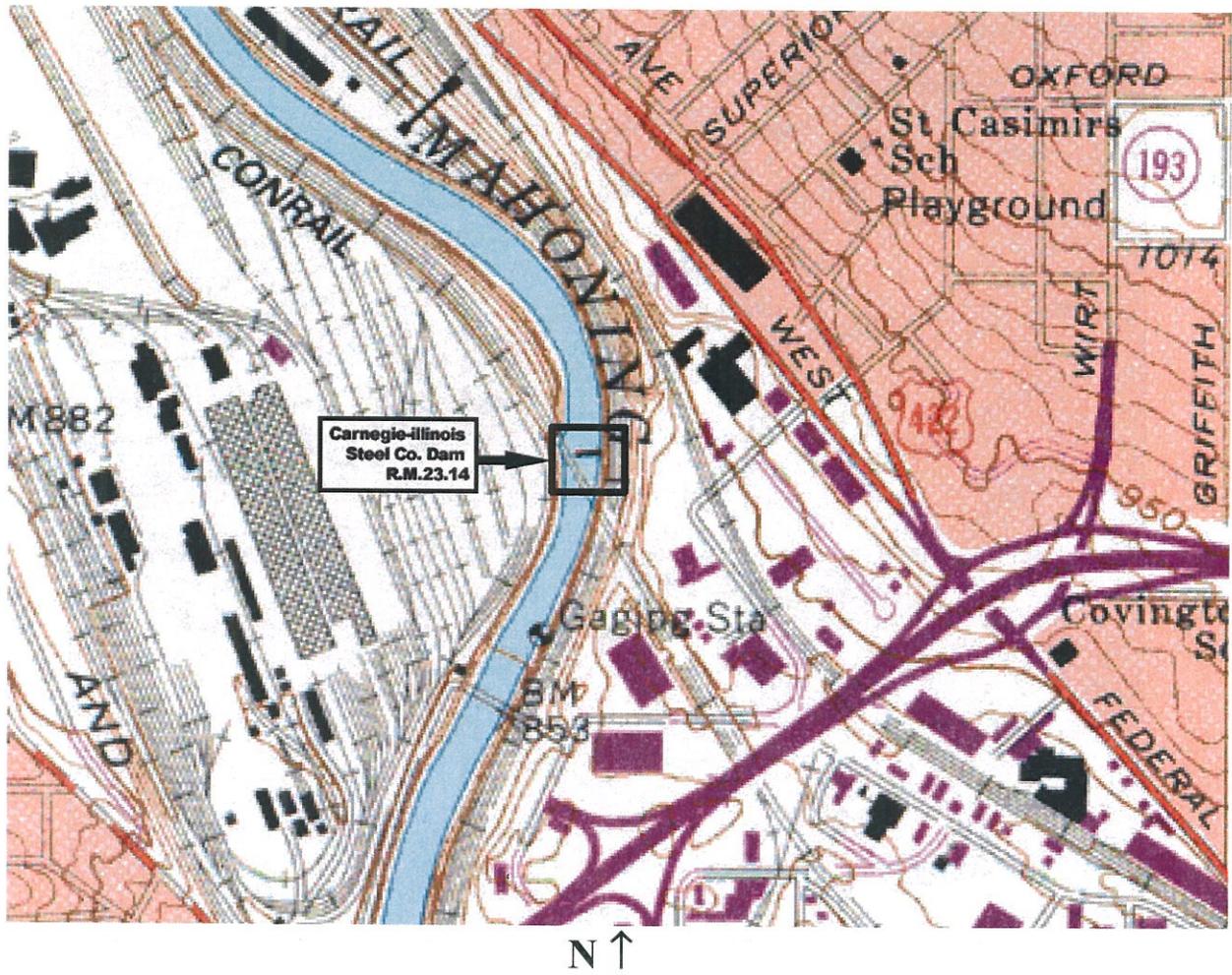
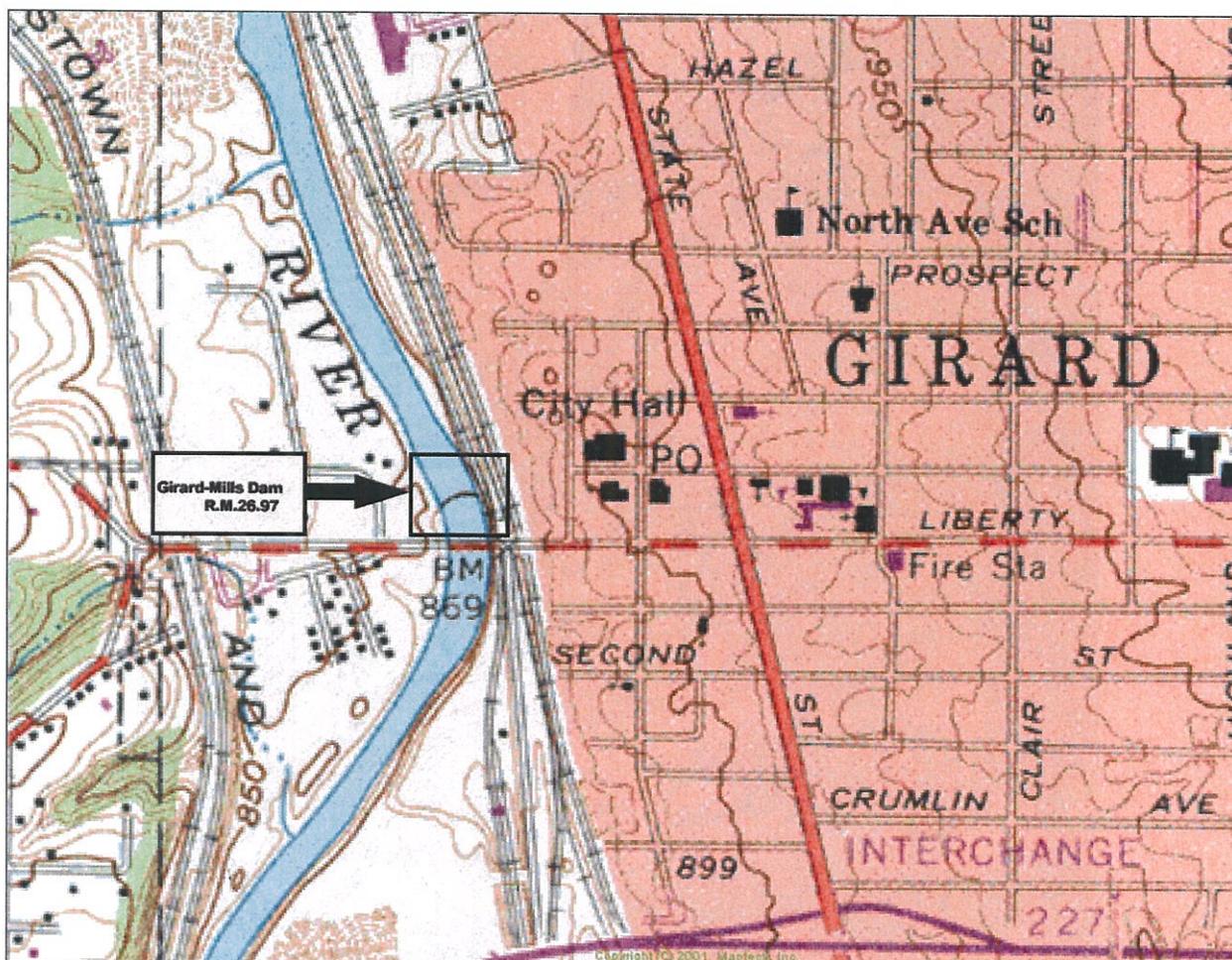


Plate 12 – Current USGS Location Map of Carnegie-Illinois Steel Co. Dam, Youngstown
(Courtesy of U.S. Army Corps of Engineers, Pittsburgh District).



N ↑

Plate 14 – Current USGS Location Map of Girard Mills Dam (Courtesy of U.S. Army Corps of Engineers, Pittsburgh District).

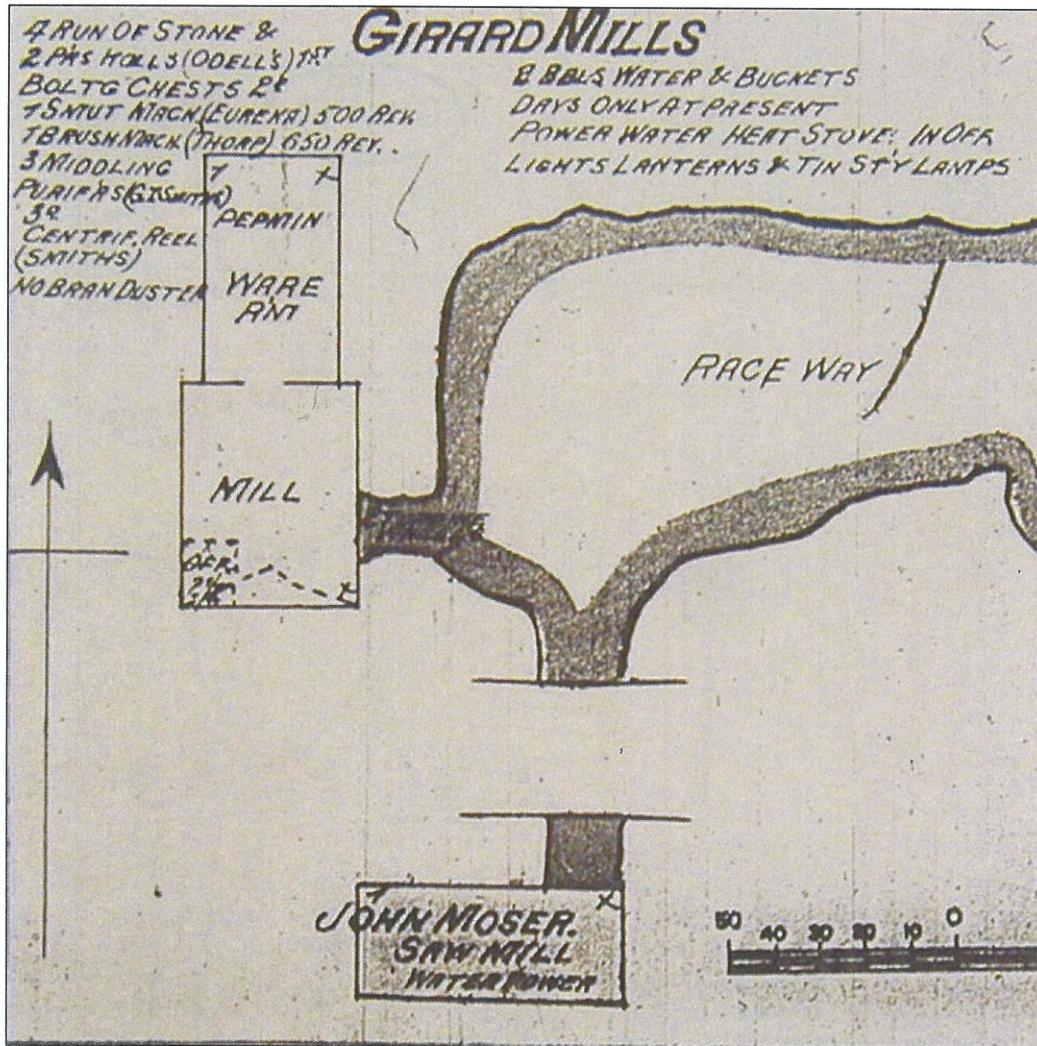
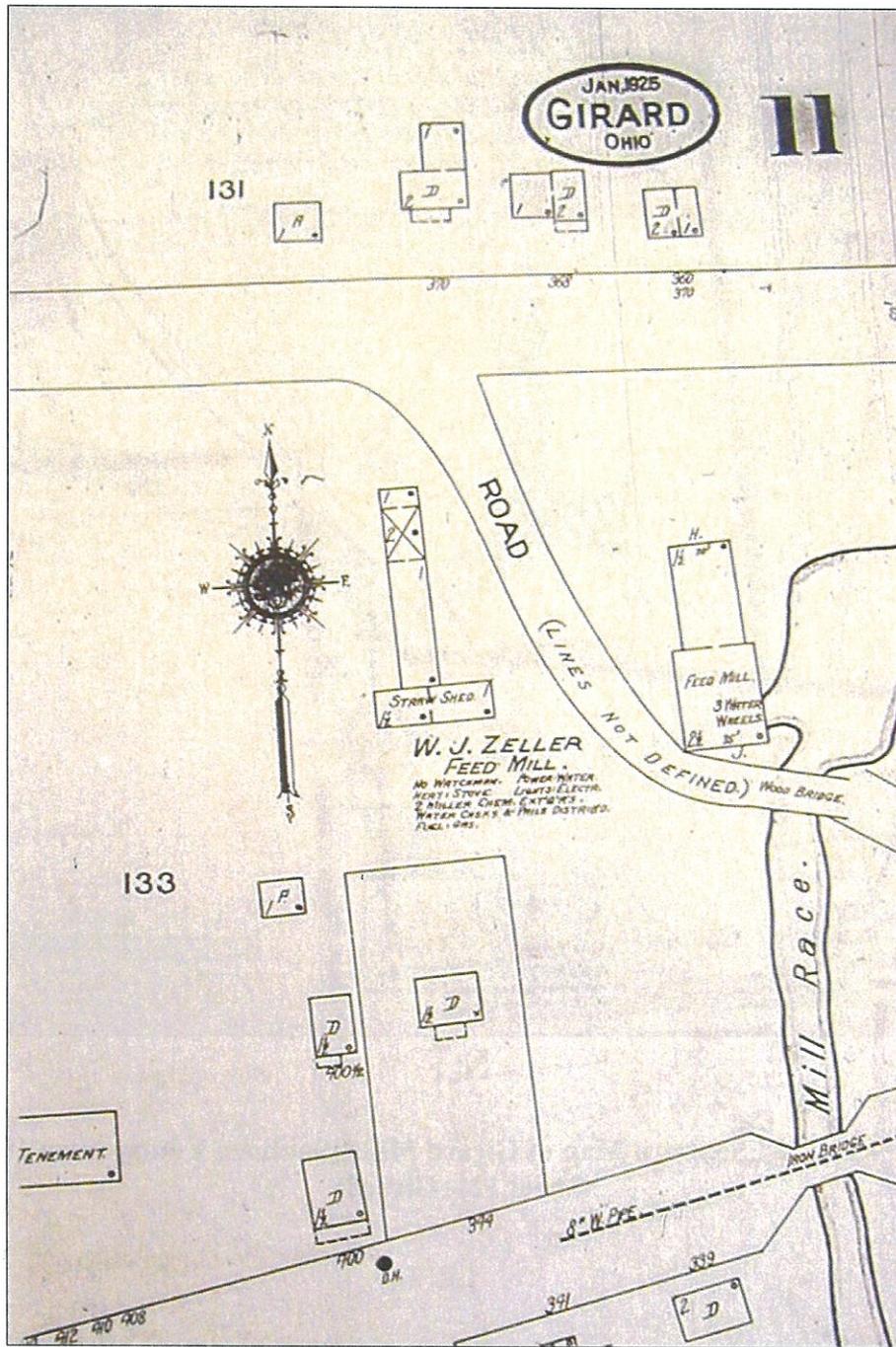


Plate 15 – 1884 Sanborn Map of Girard Mills (Sanborn Youngstown 1884, Sheet 12 – Girard)



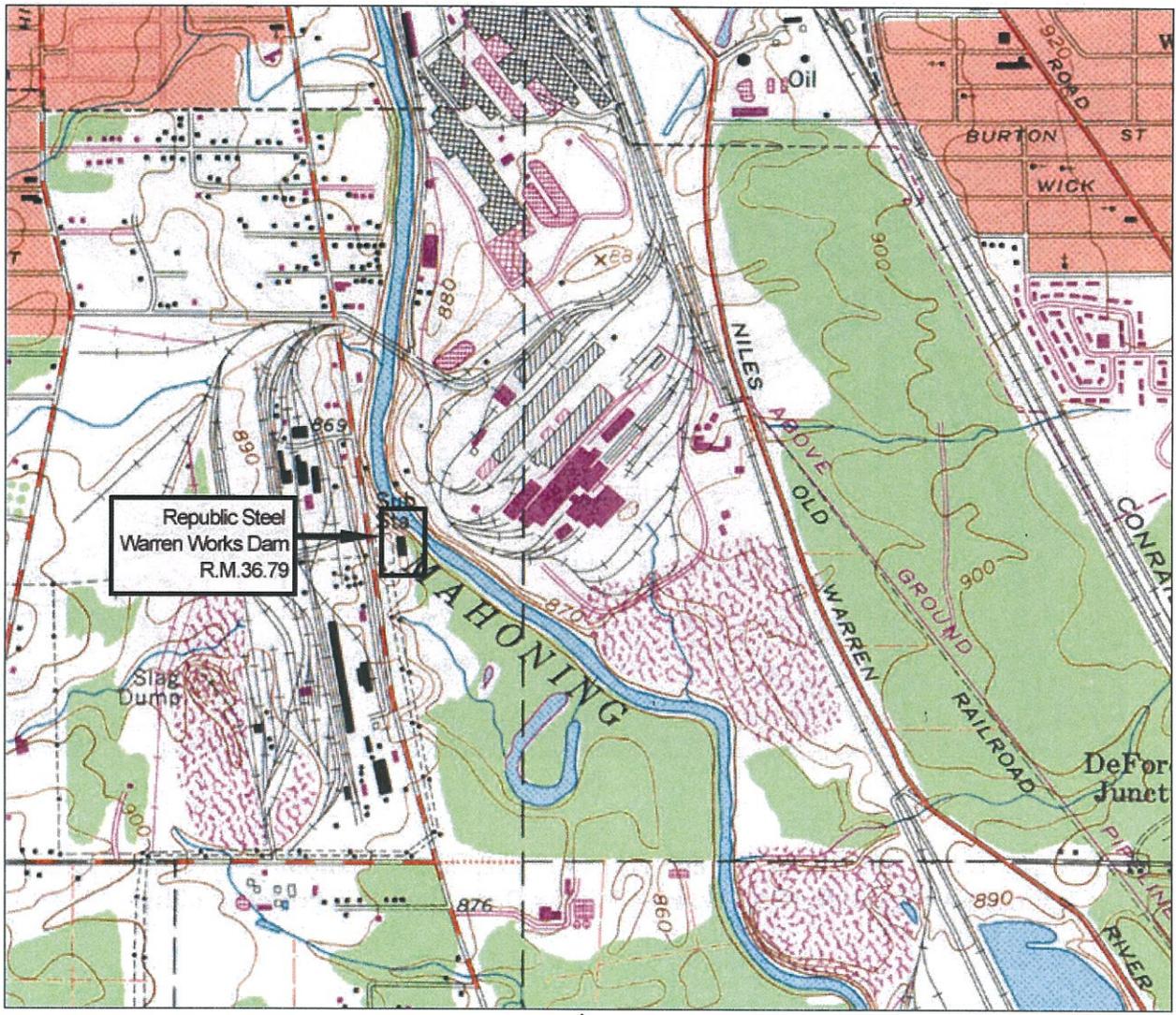
N↑

Plate 16 – Sanborn Insurance Map, 1925, Showing Mill Buildings (Sanborn Girard 1925, Sheet 11).



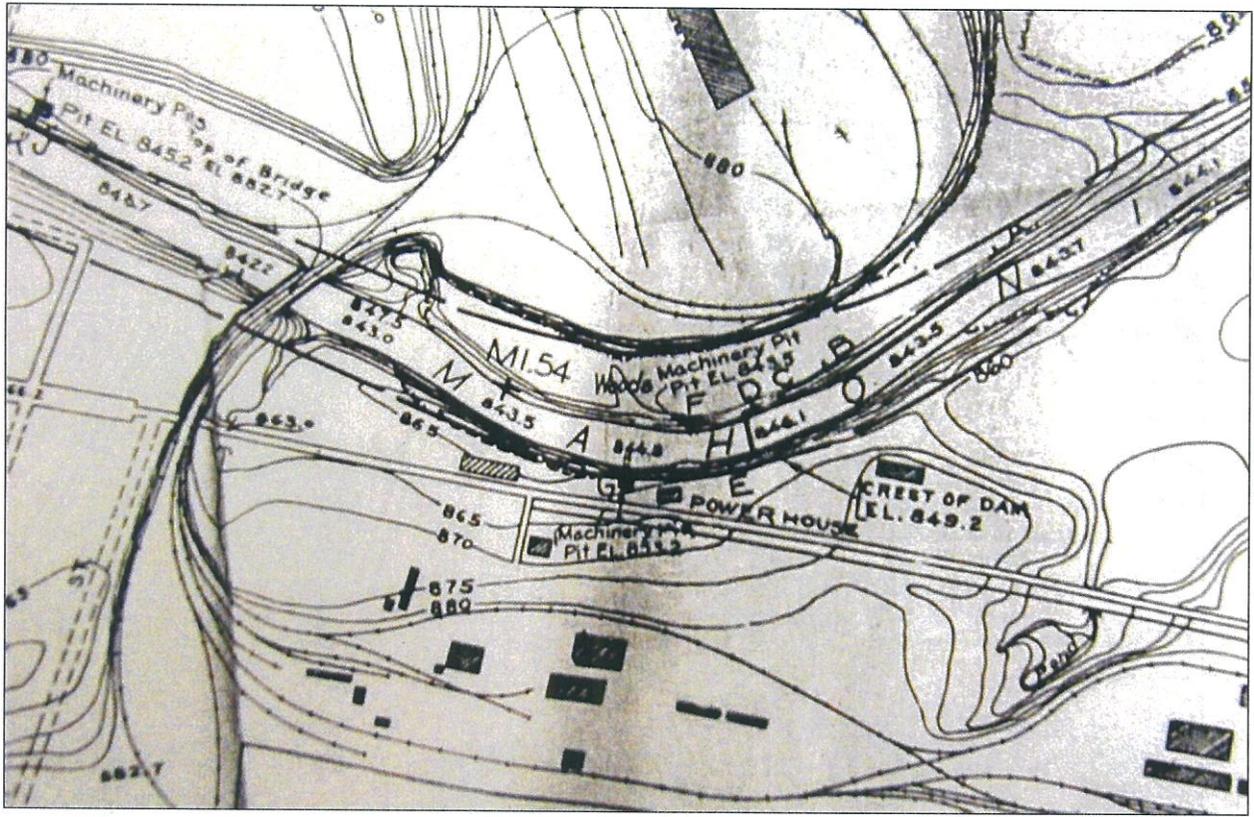
N←

Plate 17 – U.S. Army Corps of Engineers 1937 Map of Mahoning River at Girard. Dam and Main Mill Building is visible. Dam is at upper left of plate.



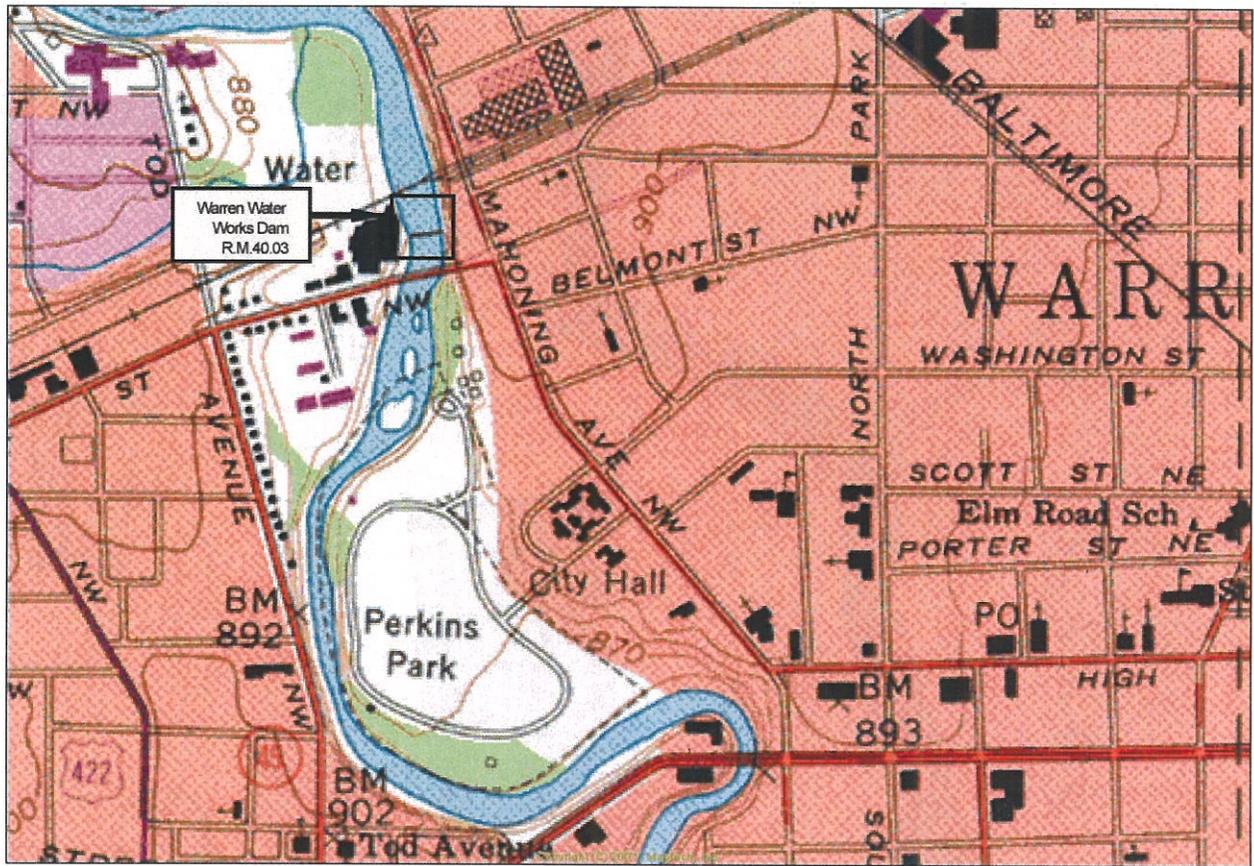
N↑

Plate 19 – Current USGS Location Map of Republic Steel Warren Works Dam (Map Courtesy of U.S. Army Corps of Engineers, Pittsburgh District).



N←

Plate 20 – U.S. Army Corps of Engineers 1937 Map of the Mahoning River at Warren. Shows Republic Steel Warren Works Dam. Dam is at center of plate.



N↑

Plate 21 – Current USGS Location Map of Warren Water Works Dam (Courtesy of U.S. Army Corps of Engineers, Pittsburgh District).

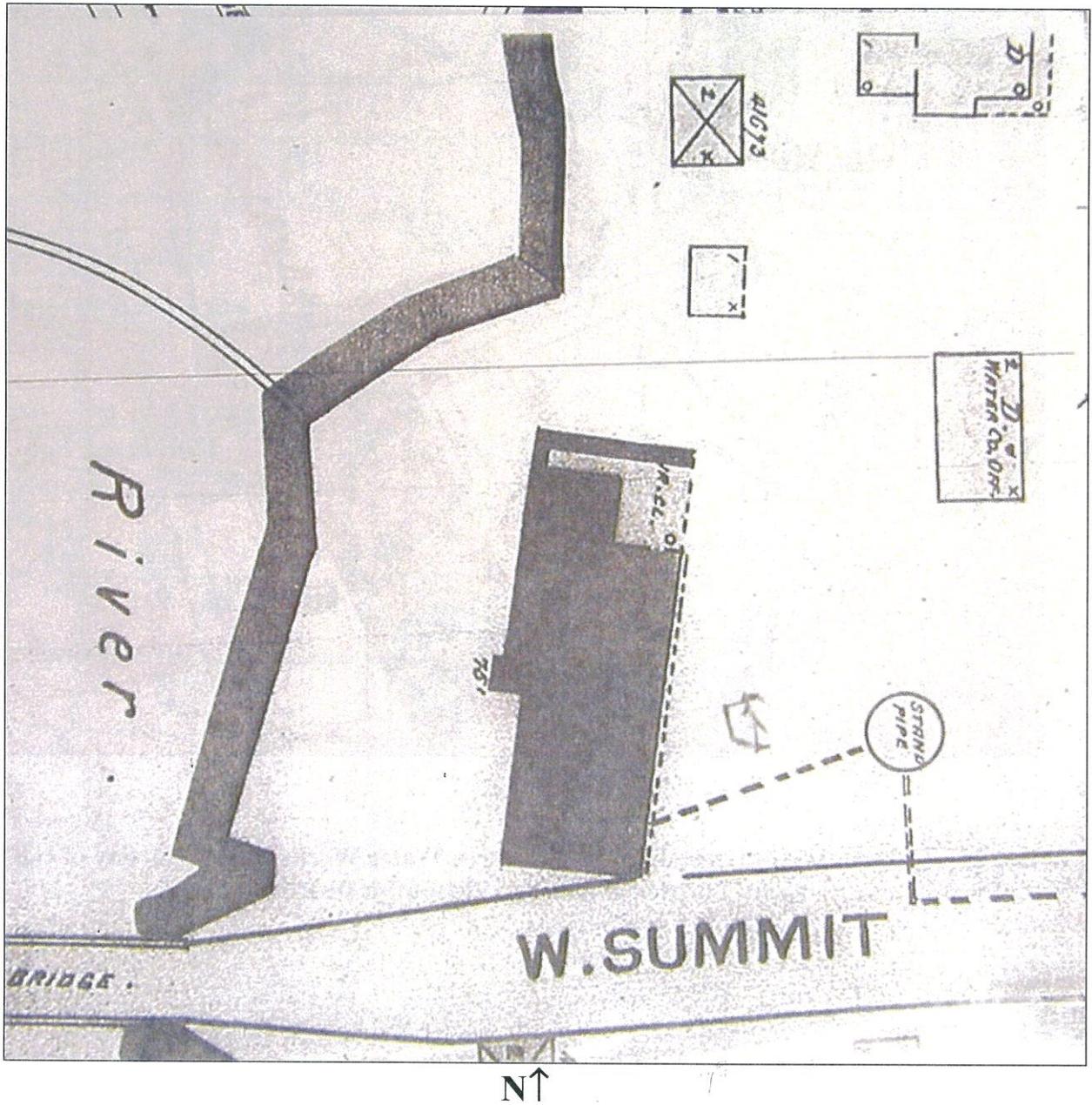
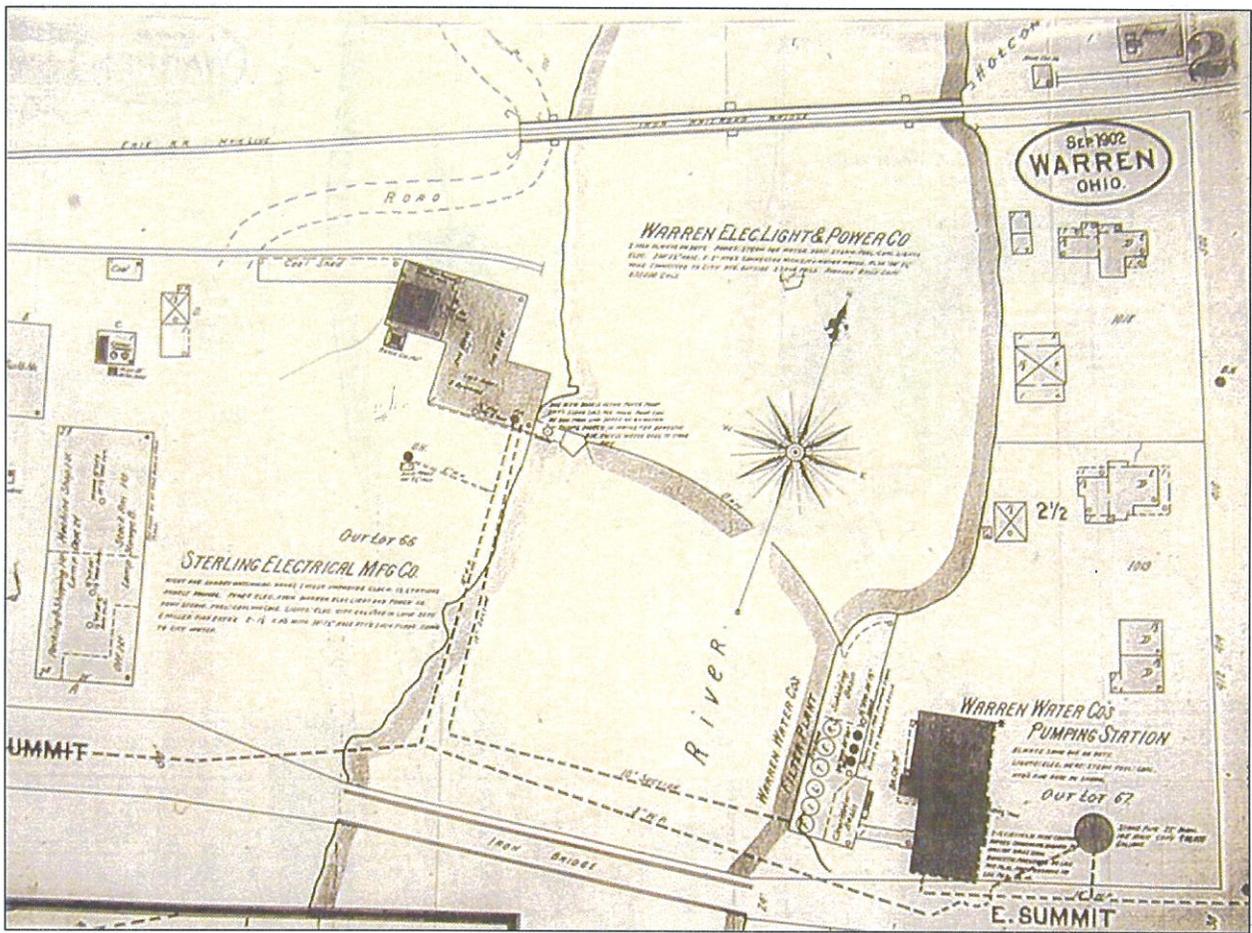


Plate 22 – 1893 Sanborn Insurance Map of Warren Water Works. Warren Water Works Dam is visible at left (Sanborn Warren 1893 Map 7).



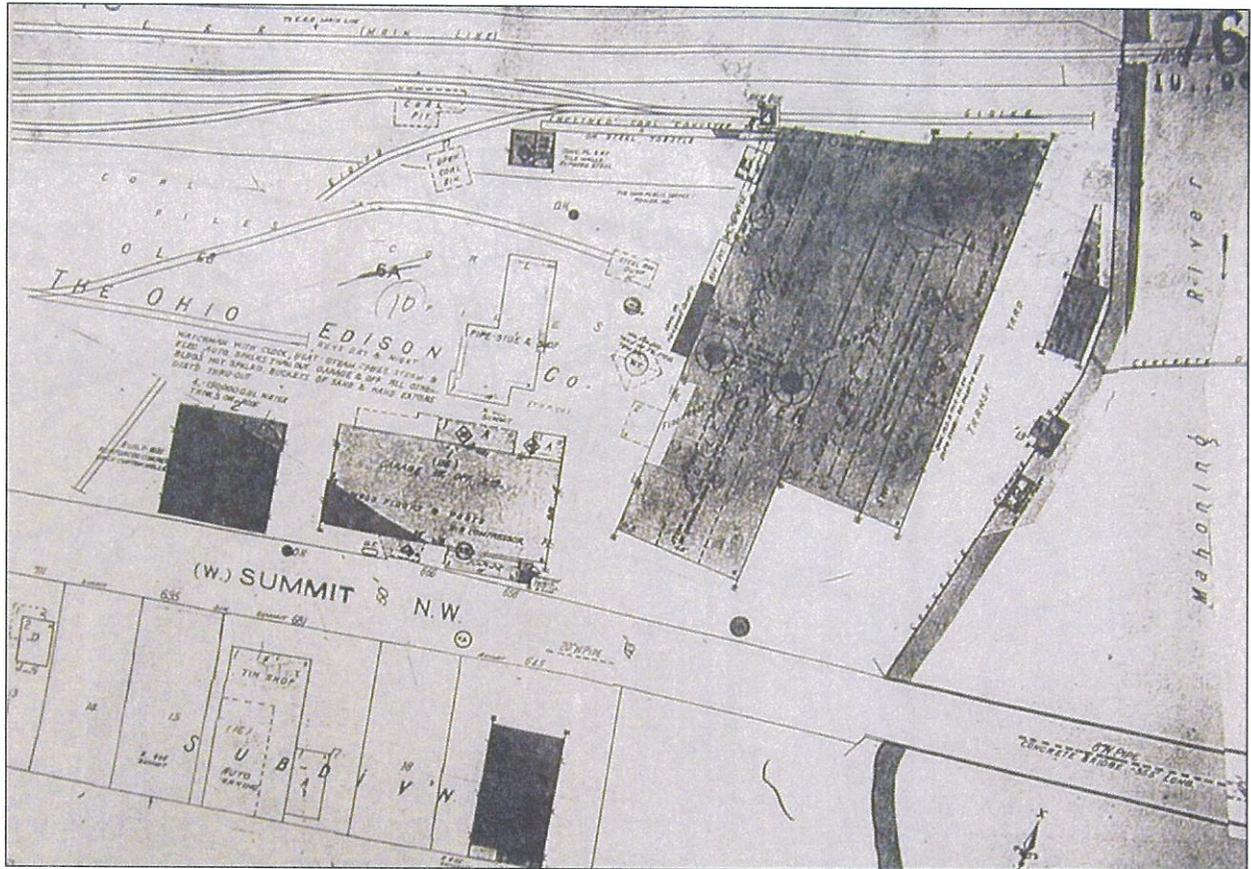
N ↑

Plate 23 – 1902 Sanborn Insurance Map of Warren Water Works and Warren Electric Light and Power Company. Warren Water Works Dam is visible at center (Sanborn Warren 1902 Map 20).



N←

**Plate 25 – U.S. Army Corps of Engineers 1937 Map of Mahoning River at Warren.
Shows Warren Water Works Dam and associated buildings.**



N↑

Plate 26 – 1950 Sanborn Insurance Map of Ohio Edison Power Plant. Warren Water Works Dam is visible at right (Sanborn Warren 1950 Vol. II Sheet 76).

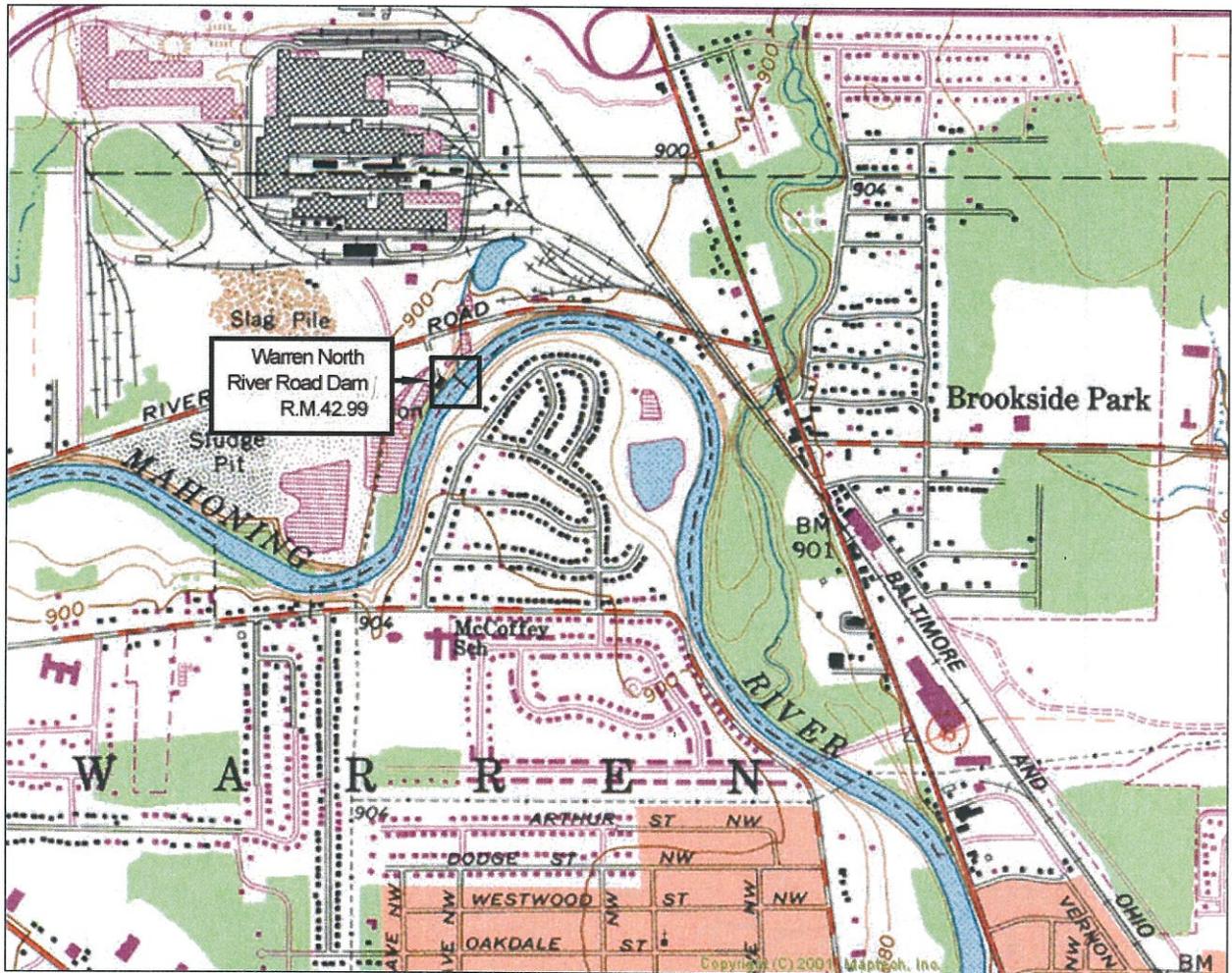
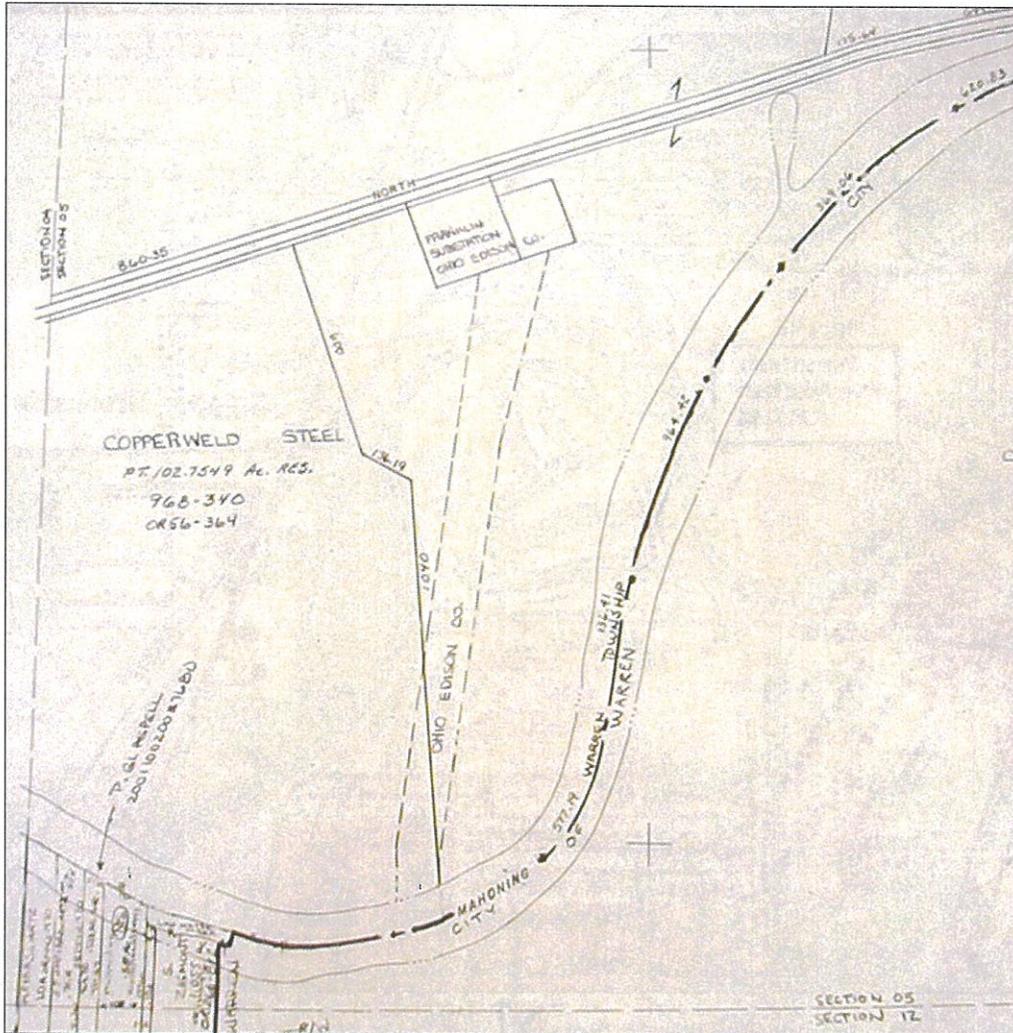


Plate 27 – Current USGS Location Map of Warren North River Road Dam (Map Courtesy of U.S. Army Corps of Engineers, Pittsburgh District).



N↑

Plate 28 – Current Trumbull County Tax Parcel Map of Warren North River Road Dam.

APPENDIX B: CURRENT PHOTOGRAPHS



Photo 1 – Ohio Iron & Steel Co. Dam, Lowellville, looking south.



**Photo 2 – Detail of piers and south abutment looking south.
Ohio Iron & Steel Co. Dam, Lowellville.**



Photo 3 – Detail of weir and concrete pier, Ohio Iron & Steel Co., Dam, Lowellville.



Photo 4 – YS & T Coke Trestle and Dam, Struthers. View looking south.



**Photo 5 – Detail of piers and weir, YS & T Coke Trestle and Dam, Struthers.
View looking southeast.**

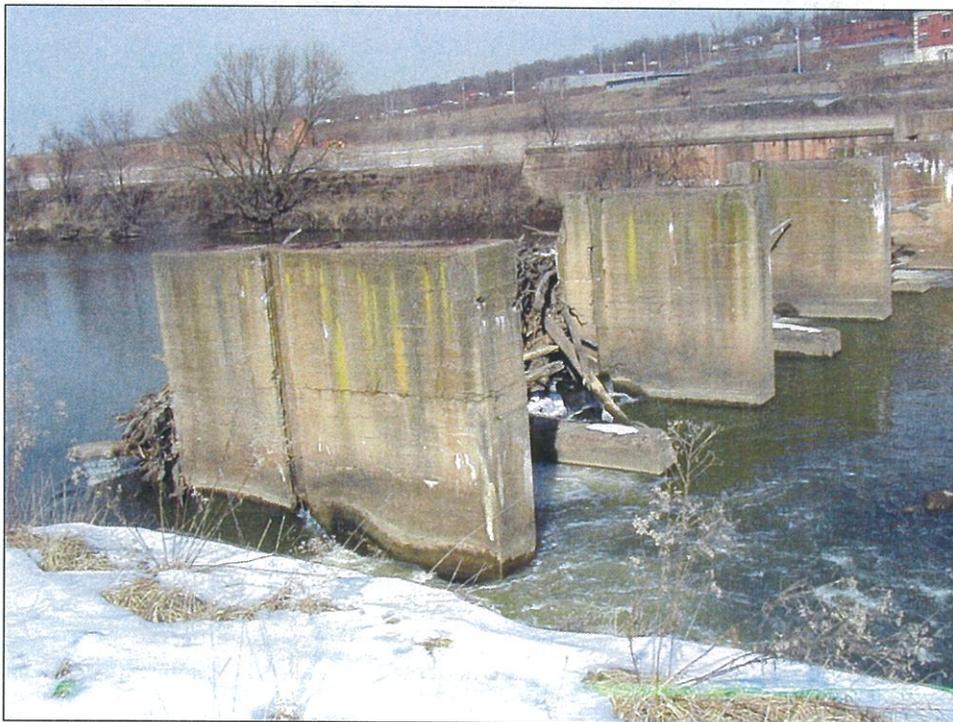


Photo 6 – Pier detail looking southeast, YS & T Coke Trestle and Dam, Struthers.



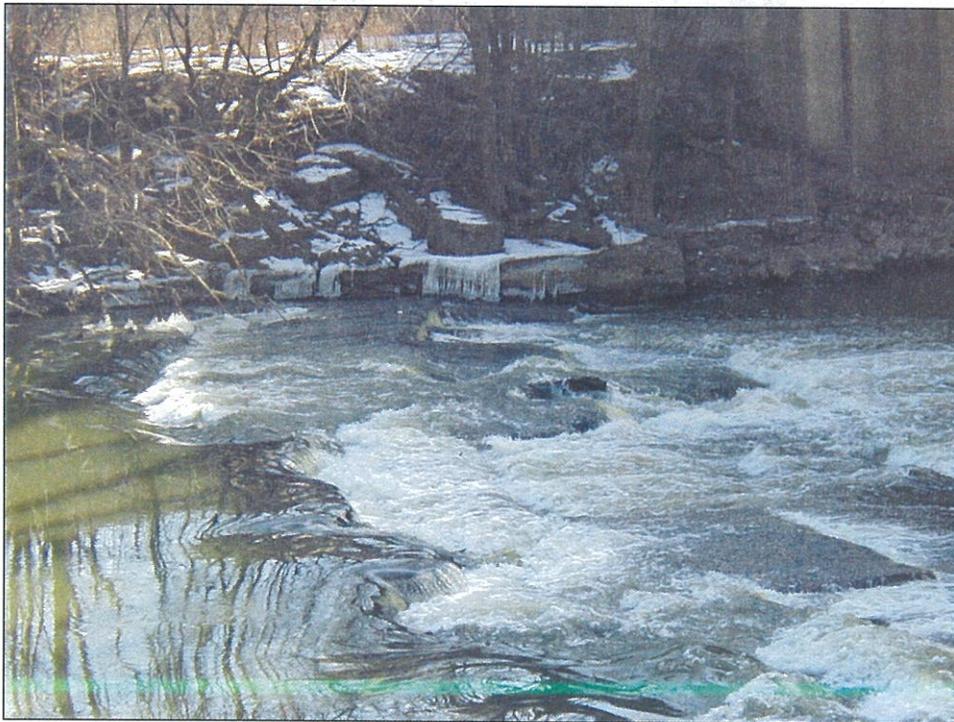
Photo 7 – Republic Steel Campbell Works Dam, Youngstown. View looking south.



**Photo 8 – Close-up view of Republic Steel Campbell Works Dam, Youngstown.
View looking south.**



**Photo 9 – Baldwin Mill Dam, Mahoning Avenue, Youngstown.
View looking north.**



**Photo 10 – Baldwin Mill Dam, Mahoning Avenue, Youngstown.
Close-up view looking south.**

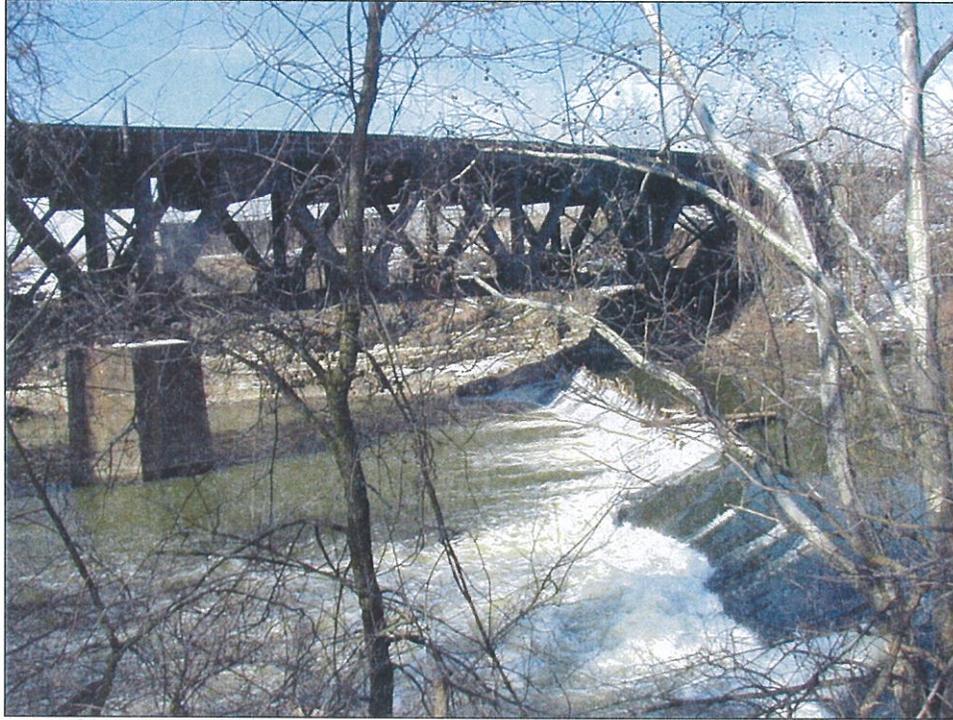


Photo 11 – Carnegie-Illinois Steel Co. Dam, Youngstown. View looking west.



Photo 12 – Detail of Carnegie-Illinois Steel Co. Dam. View looking north.



Photo 13 – Girard Mills Dam. View looking northeast from top of abutment.

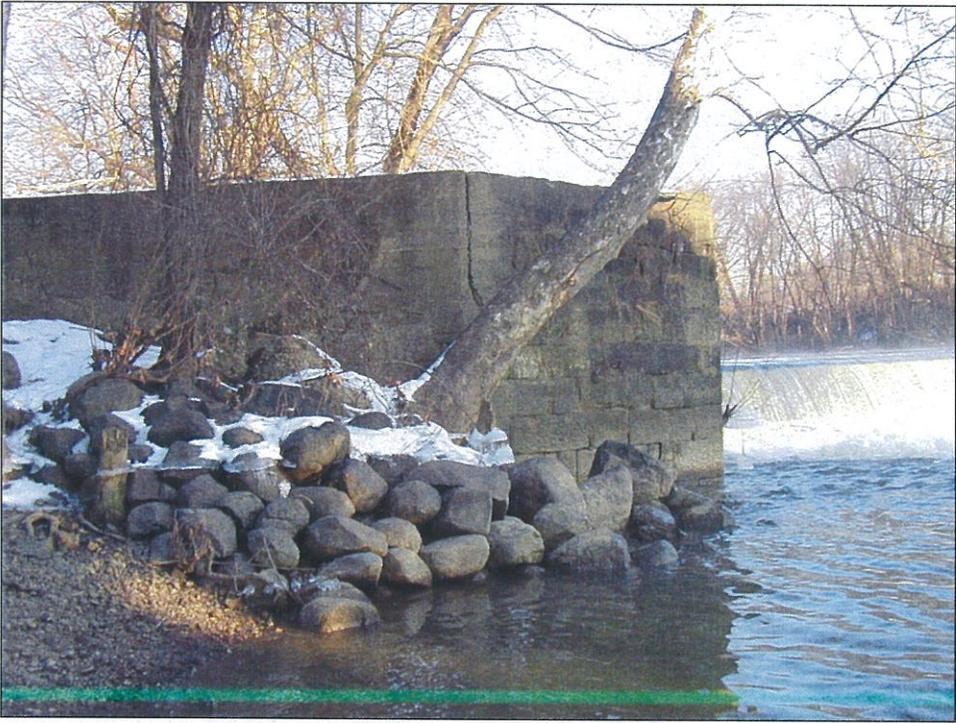


Photo 14 – Girard Mills Dam, West Abutment looking north.



Photo 15 – Girard Mills Dam. View of east end of dam and stone wall on the west bank of the river. View looking northeast.



Photo 16 – Girard Mills Dam, West Abutment. View of cut-sandstone masonry looking north.

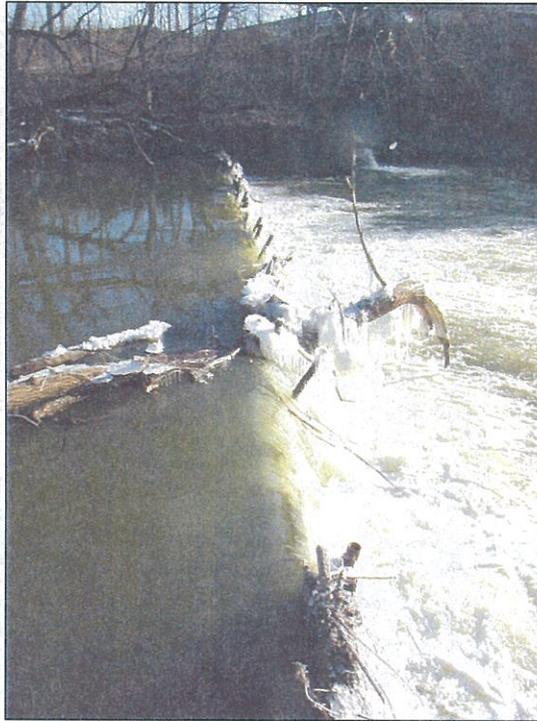


Photo 17 – Republic Steel Warren Works Dam looking east.



Photo 18 – Republic Steel Warren Works Dam. View with west abutment and outlet pipe in foreground, looking east.

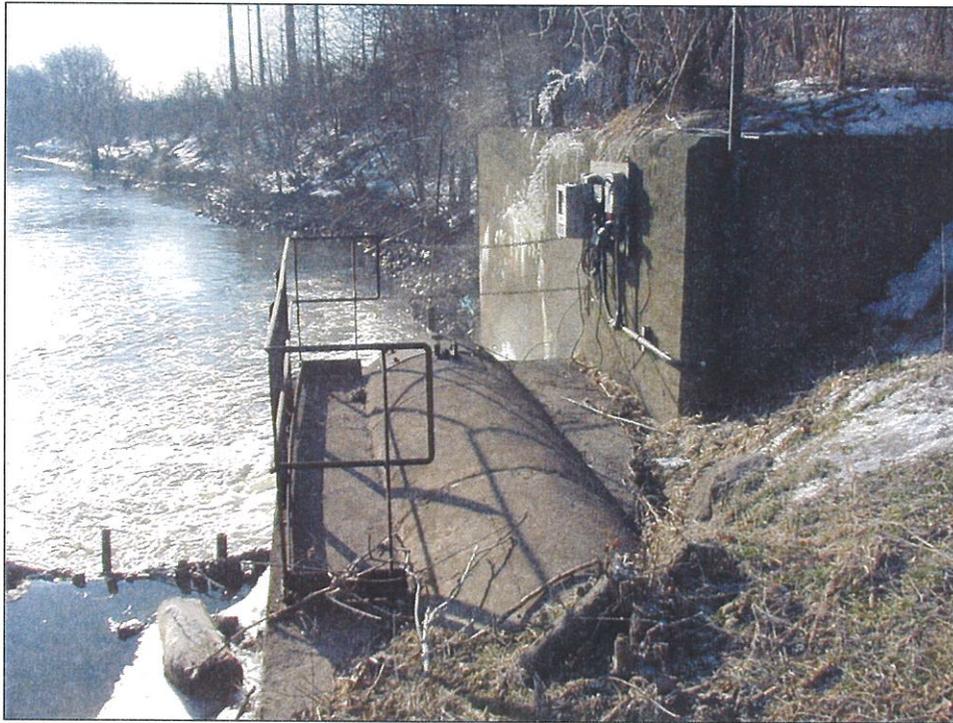


Photo 19 – Republic Steel Warren Works Dam. View of west abutment and outlet pipe looking south.

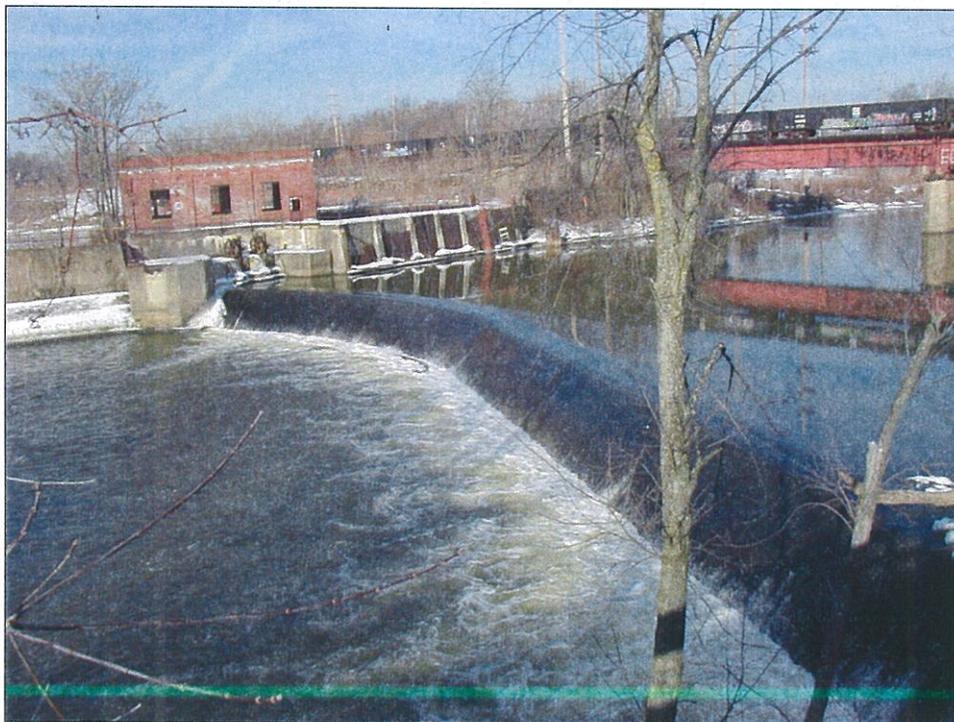


Photo 20 – Warren Water Works Dam Looking West. Spillway and screen house are visible on far side of river.

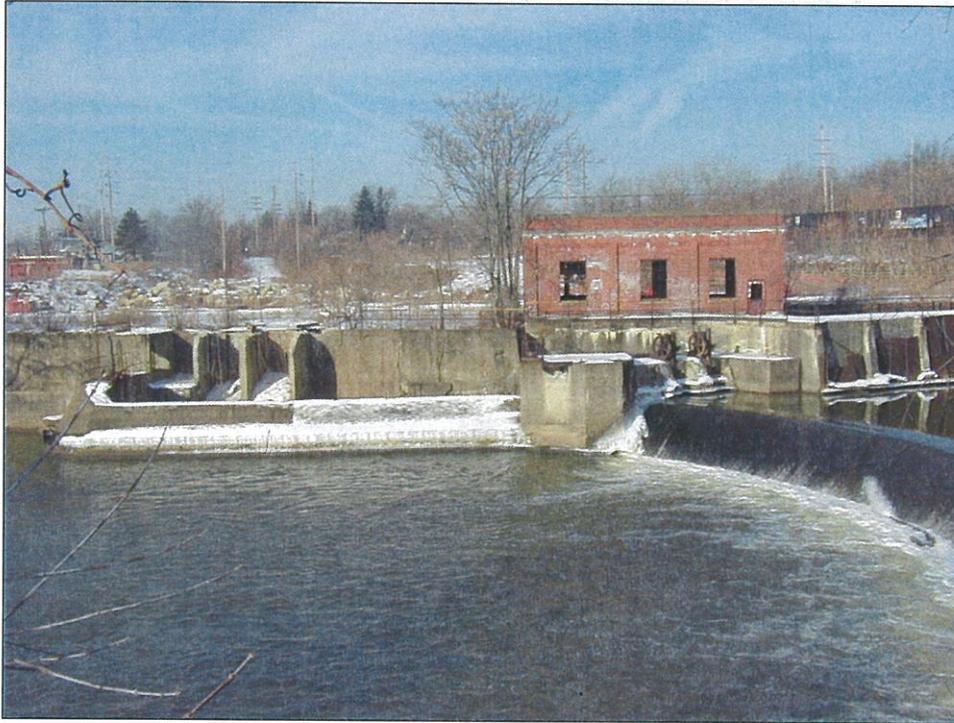


Photo 21 – Warren Water Works Dam. View of spillway and screen house looking west.

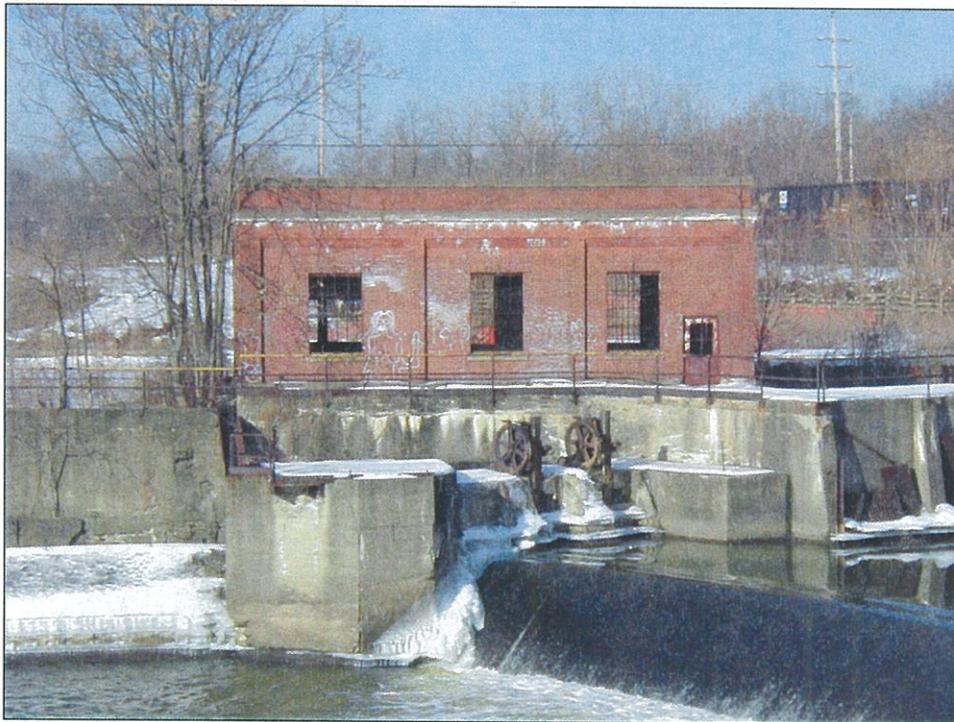


Photo 22 – Warren Water Works Dam. Detail of screen house and spillway upper gate.



Photo 23 – Warren Water Works Dam. View of spillway lower gate looking west.

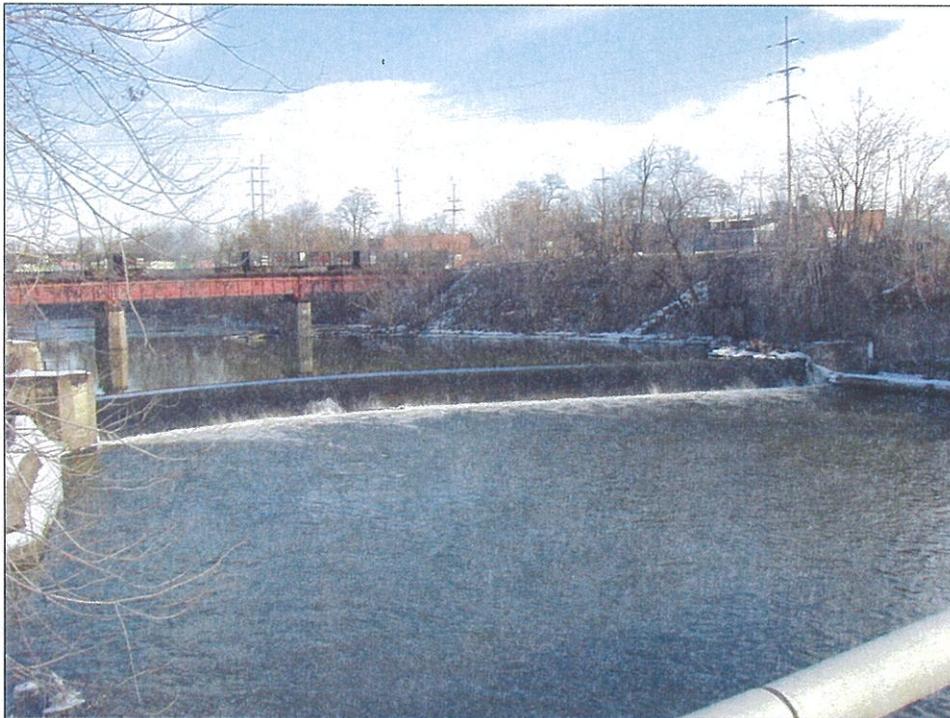


Photo 24 – Warren Water Works Dam. View of dam looking north from Summit Avenue bridge.



Photo 25 – Warren Water Works Dam. View of southeast corner of former filtration building facing Mahoning Avenue.

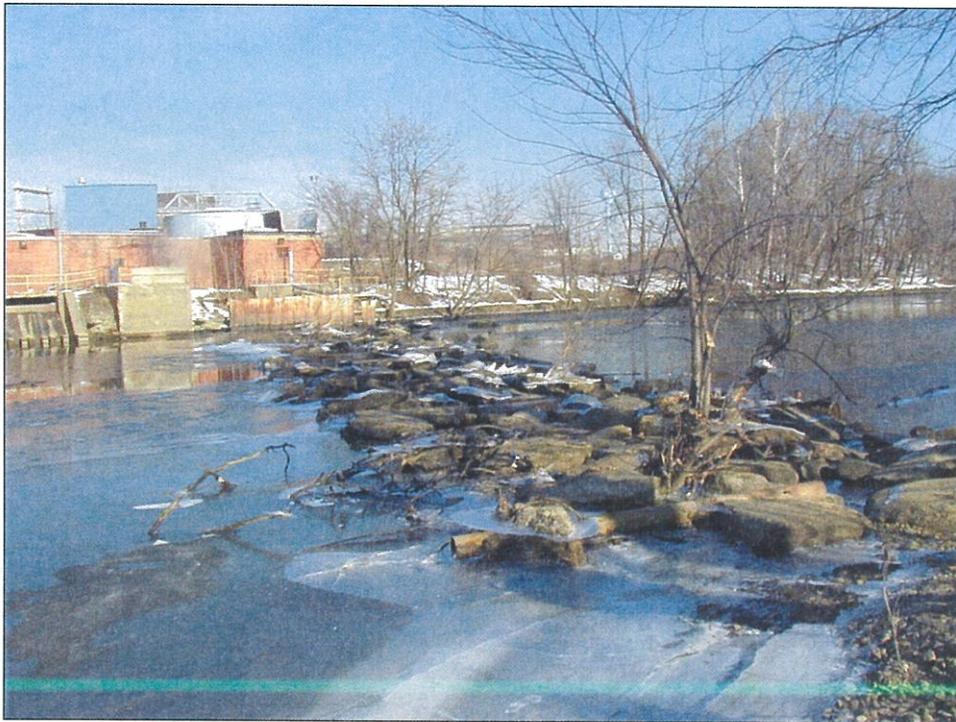


Photo 26 – Warren North River Road Dam. View looking northeast.

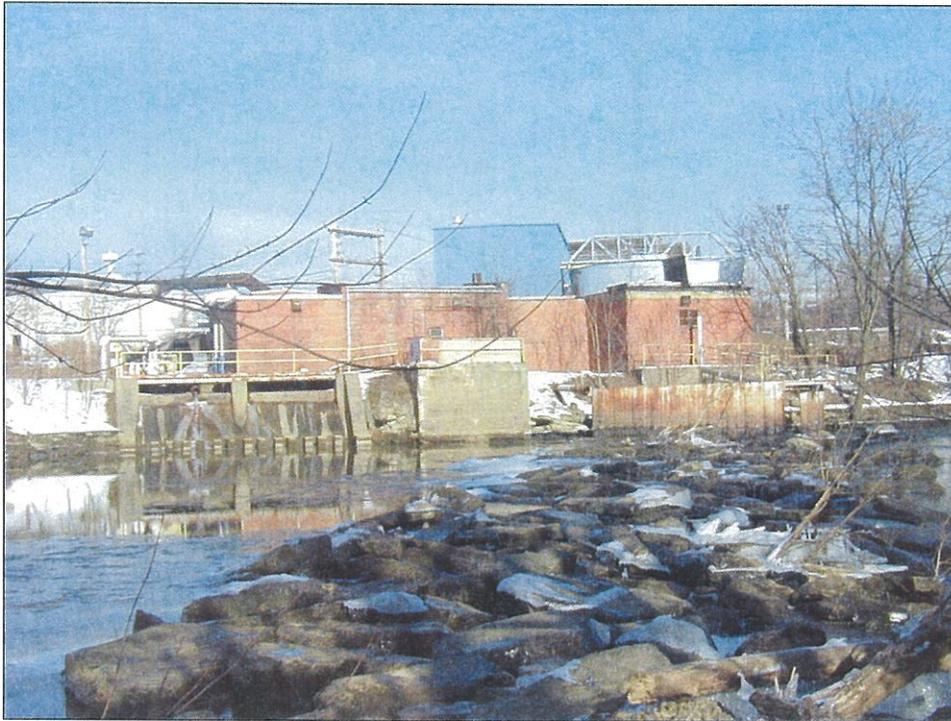


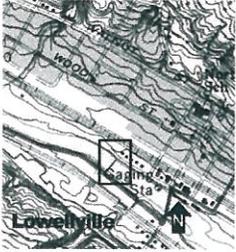
Photo 27 – Warren North River Road Dam. View looking north with outlet works in background.

APPENDIX C: OHIO HISTORIC INVENTORY FORMS

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma
Avenue
Columbus, Ohio
614/297-2470



1. No. MAH-1722-10	2. County Mahoning	4. Present Name(s) Sharon Steel Co. Dam	<input type="checkbox"/> Coded	1. No. MAH-1722-10														
3. Location of Negatives N/A		5. Historic or other Name(s) Ohio Iron & Steel Company Dam			2. County: Mahoning													
6. Specific Address or Location Mahoning River Mile 13.05, near 1st Street		16. Thematic Association(s) Industry, Steel Manufacturing		4.5. Present or Historic Name: Ohio Iron & Steel Company Dam														
6a. Lot, Section or VMD Number Mahoning Co. Parcel No. 40-007-0-014.00 City or Village: Lowellville Site Plan with North Arrow 		17. Date(s) or Period: ca. 1908-1915 17b. Alteration Date(s): N/A 18. Style or Design: Utilitarian 18a. Style of Addition or Element(s): N/A 19. Architect or Engineer: Unknown 19a. Design Sources: Unknown 20. Contractor or Builder: Unknown 21. Building Type or Plan: Concrete dam 22. Original Use, if apparent: Industrial Check Dam 23. Present Use: Industrial Check Dam 24. Ownership: Public <input type="checkbox"/> Private <input checked="" type="checkbox"/> 25. Owner's Name & Address, if known: Sharon Slag, Inc. 1721 Pine Av. SE., Warren OH 44483 26. Property Acreage: 37.32 acres 27. Other Surveys in Which Included: U.S. Army Corps of Engineers Inv. of Low Head																
9. U.T.M. Reference Quadrangle Name: Campbell <table border="1" style="width:100%; text-align: center;"> <tr> <td>1</td><td>7</td><td>5</td><td>3</td><td>8</td><td>7</td><td>6</td><td>0</td><td>4</td><td>5</td><td>4</td><td>2</td><td>7</td><td>8</td><td>0</td> </tr> </table> Zone: _____ Easting: _____ Northing: _____ 10. SITE: Building <input type="checkbox"/> Structure <input checked="" type="checkbox"/> 11. On National Register? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 12. N.R. Potential? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 13. Part of Estab. Hist. Dist? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 14. District Potential? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		1	7	5	3	8	7	6	0	4	5	4	2	7	8	0	28. No. of Stories: 1 29. Basement? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 30. Foundation Material: Poured Concrete, Timber Crib 31. Wall Construction: Poured Concrete 32. Roof Type & Material: N/A 33. No. of Bays: Front 8 Side _____ 34. Exterior Wall Material(s): Poured Concrete 35. Plan Shape: Linear 36. Changes (Explain in #42): Addition <input type="checkbox"/> Altered <input type="checkbox"/> Moved <input type="checkbox"/> 37. Window Types: <input type="checkbox"/> 6 over 6 <input type="checkbox"/> 2 over 2 <input type="checkbox"/> 4 over 4 <input type="checkbox"/> Other 38. Building Dimensions: 80' X 12' 39. Endangered? By What? Yes <input type="checkbox"/> No <input type="checkbox"/> 40. Chimney Placement: N/A 41. Distance from and Frontage on Road: d 40' f 12'	
1	7	5	3	8	7	6	0	4	5	4	2	7	8	0				
12. Description of Important Interior and Exterior Features (Continue on reverse if necessary) This structure is a small low head concrete dam. It consists of 8 short piers with short sections of concrete weir located in between the piers. The piers have flat ends on the upstream side of the dam and pointed ends on the downstream side. A small concrete abutment is located at each end of the dam. Some of the weir may be composed of timber cribs. The concrete at the dam shows evidence of spalling and wear in many areas. Overall, this is a very simple concrete and timber crib dam.		 		6. Specific Address or Location: Mahoning River Mile 13.05, near 1st Street														
13. History and Significance (Continue on reverse if necessary) This dam is associated with the former Ohio Iron & Steel Company plant that sat on the west side of the Mahoning river, across the stream from Lowellville. An iron furnace was first built here in 1845-46, and Ohio Iron & Steel purchased the plant in 1880. The dam was built between 1908 and 1915 to impound water to be used by the plant. This dam is one of five industrial check dams on the Mahoning River between Lowellville and Warren that provided water for the region's steel industry. (continued)		46. Prepared by: Roy A. Hampton III 47. Organization: Hardlines Design/USACE Pittsburgh 48. Date Recorded in Field: February 18, 2004 49. Revised by: _____ 50a. Date Revised: _____ 50b. Reviewed by: _____																
44. Description of Environment and Outbuildings (See #52) The dam is adjacent to the town of Lowellville, which is situated on the river's east bank. Lowellville is a small rural town developed in the late 19th and 20th centuries. The area west of the dam was formerly occupied by the Sharon Steel Hoop Co. Plant and now appears to be largely vacant.		15. Sources of Information Hardlines Design. Inventory of Low Head Dams on the Mahoning River. U.S. Army Corps of Engineers, 2004. Sanborn Map Company. Fire Insurance Maps of Lowellville. 1889, 1893, 1907, 1928. U.S. Army Corps of Engineers. Survey Maps of the Mahoning River. 1933, 1937. JSGS. Youngstown Quadrangle Map, 1908.																

51. Condition of Property

- Excellent
 Good/Fair
 Deteriorated
 Ruin
 Destroyed/Burned Date _____

52. Historic Outbuildings and Dependencies

Barn Type(s)

- Corn Crib or Shed Smoke House Privy
 Summer Kitchen Spring House Garage
 Silo Ice House
 Designed landscape features

53. Affiliated OAI Site Number(s)

Archeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan

42. (Cont'd)

43. (Cont'd)

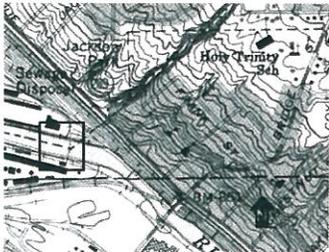
From roughly the 1920s through the 1950s, water impounded by dams like this was used and released by multiple steel plants and other industries on the stretch of the Mahoning River between Warren and Lowellville. The re-use of the same water as many as 13 times by different steel plants on the Mahoning often led the water temperature in the river to rise to over 100 degrees Fahrenheit. The river was also heavily polluted during the height of the steel industry's activities in the area.

The Sharon Steel Hoop Company took over the plant and dam in 1917. Sharon Steel Hoop later changed its name to Sharon Steel. The plant does not appear to be in operation now. The dam also does not appear to be necessary for any industrial activity at this point. Starting in the late 1970s, the steel industry in the Mahoning Valley went into a decline phase. There is now only a modest amount of steel manufacturing in the area, and the Mahoning River is also much cleaner than in the past since large amounts of industrial waste are no longer dumped into the river. This dam is a simple concrete structure that does not have any significant design or engineering features, but it is a reminder of the dominance of the steel industry in early to mid-twentieth century Mahoning County.

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Avenue
Columbus, Ohio
614/297-2470



1. No. MAH-1723-10	2. County Mahoning	4. Present Name(s) Youngstown Sheet and Tube Co. Coke Trestle and Dam	<input type="checkbox"/> Coded	1. No. MAH-1723-10
3. Location of Negatives N/A		5. Historic or other Name(s) Youngstown Sheet and Tube Co. Coke Trestle and Dam		
6. Specific Address or Location Mahoning River Mile 16.78 near Bridge Street		16. Thematic Association(s) Industry, Steel Manufacturing		4.5. Present or Historic Name Youngstown Sheet and Tube Co.
6a. Lot, Section or VMD Number Mahoning Co. Parcel No. 38-001-0-003.00 City or Village If Rural, Township & Vicinity Youngstown		17. Date(s) or Period ca. 1908-1915		
Site Plan with North Arrow 		17b. Alteration Date(s) 1916-1933		2. County Mahoning
U.T.M. Reference Quadrangle Name Campbell 1 7 5 3 4 4 8 0 4 5 4 5 4 7 0 Zone Easting Northing SITE Site <input type="checkbox"/> Building <input type="checkbox"/> Structure <input checked="" type="checkbox"/> Object <input type="checkbox"/>		18. Style or Design Utilitarian <input type="checkbox"/> High Style <input type="checkbox"/> Element <input checked="" type="checkbox"/>		
11. On National Register? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		18a. Style of Addition or Element(s) N/A		6. Specific Address or Location Mahoning River Mile 16.78 near Bridge Street
12. N.R. Potential? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		19. Architect or Engineer Unknown		
13. Part of Estab. Hist. Dist? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		19a. Design Sources Unknown		4.5. Present or Historic Name Youngstown Sheet and Tube Co.
14. District Potential? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		20. Contractor or Builder Unknown		
15. Name of Established District (N.R. or Local)		21. Building Type or Plan Concrete Coke Trestle, Industrial Check Dam		2. County Mahoning
12. Description of Important Interior and Exterior Features (Continue on reverse if necessary) This abandoned industrial structure was originally composed of a coke trestle with a small low head concrete weir attached to the base of the piers. It now consists of 6 concrete piers and the low head dam, sections of which are positioned between the concrete piers that once supported the trestle. Each section of the weir consists of a low concrete pier flanked by sections of low concrete weir. The dam has a concrete abutment with attached embankment walls on each side of the river. The concrete at the weirs and the piers is deteriorated, with large areas of visible spalling.		22. Original Use, if apparent Coke Trestle, Industrial Check Dam		
13. History and Significance (Continue on reverse if necessary) This dam is associated with the former Youngstown Sheet and Tube (YS & T) plant that sat on the east side of the Mahoning River. A coke plant associated with the factory was located on the west side of the river. This structure allowed coke to be transferred from the east bank coke plant to the main plant on the west side of the river. The attached dam also impounded water so that a series of intake pipes upstream from the dam could supply the YS & T Plant with the water needed for its steel manufacturing processes. Youngstown Sheet and Tube was one of the largest steel making firms in the Mahoning Valley. (continued)		23. Present Use Abandoned		6. Specific Address or Location Mahoning River Mile 16.78 near Bridge Street
14. Description of Environment and Outbuildings (See #52) The area was once a densely developed tract that housed the Youngstown Sheet and Tube Plant. The main plant was on the east side of the Mahoning River, while an associated coke plant for the factory sat on the west bank. Now, most of the buildings associated with the plant have been demolished and the trestle/dam is almost entirely surrounded by empty land.		24. Ownership Public <input checked="" type="checkbox"/> Private <input type="checkbox"/>		
15. Sources of Information Hardlines Design. Inventory of Low Head Dams on the Mahoning River. U.S. Army Corps of Engineers, 2004. Sanborn Map Company. Fire Insurance Maps of Youngstown and Struthers. 1889, 1893, 1907, 1928. U.S. Army Corps of Engineers. Survey Maps of the Mahoning River. 1933, 1937.		25. Owner's Name & Address, if known City of Struthers, Ohio 6 Elm St., Struthers, OH 44471		4.5. Present or Historic Name Youngstown Sheet and Tube Co.
44. Description of Environment and Outbuildings (See #52) The area was once a densely developed tract that housed the Youngstown Sheet and Tube Plant. The main plant was on the east side of the Mahoning River, while an associated coke plant for the factory sat on the west bank. Now, most of the buildings associated with the plant have been demolished and the trestle/dam is almost entirely surrounded by empty land.		26. Property Acreage approx. 3 acres		
45. Sources of Information Hardlines Design. Inventory of Low Head Dams on the Mahoning River. U.S. Army Corps of Engineers, 2004. Sanborn Map Company. Fire Insurance Maps of Youngstown and Struthers. 1889, 1893, 1907, 1928. U.S. Army Corps of Engineers. Survey Maps of the Mahoning River. 1933, 1937.		27. Other Surveys in Which Included U.S. Army Corps of Engineers Inv. of Low Head		2. County Mahoning
46. Prepared by Roy A. Hampton III		28. No. of Stories 1		
47. Organization Hardlines Design/USACE Pittsburgh		29. Basement? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		6. Specific Address or Location Mahoning River Mile 16.78 near Bridge Street
48. Date Recorded in Field February 18, 2004		30. Foundation Material Poured Concrete		
49. Revised by		31. Wall Construction Poured Concrete		4.5. Present or Historic Name Youngstown Sheet and Tube Co.
50a. Date Revised		32. Roof Type & Material N/A		
50b. Reviewed by		33. No. of Bays Front 6 Side 1		2. County Mahoning
50b. Reviewed by		34. Exterior Wall Material(s) Poured Concrete		
50b. Reviewed by		35. Plan Shape Linear		6. Specific Address or Location Mahoning River Mile 16.78 near Bridge Street
50b. Reviewed by		36. Changes (Explain in #42) Addition <input type="checkbox"/> Altered <input type="checkbox"/> Moved <input type="checkbox"/>		
50b. Reviewed by		37. Window Types <input type="checkbox"/> 6 over 6 <input type="checkbox"/> 4 over 4 <input type="checkbox"/> 2 over 2 <input type="checkbox"/> Other		4.5. Present or Historic Name Youngstown Sheet and Tube Co.
50b. Reviewed by		38. Building Dimensions 100' X 18'		
50b. Reviewed by		39. Endangered? By What? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Neglect, Deterioration		2. County Mahoning
50b. Reviewed by		40. Chimney Placement N/A		
50b. Reviewed by		41. Distance from and Frontage on Road d 40' f 12'		6. Specific Address or Location Mahoning River Mile 16.78 near Bridge Street
50b. Reviewed by		46. Prepared by Roy A. Hampton III		
50b. Reviewed by		47. Organization Hardlines Design/USACE Pittsburgh		4.5. Present or Historic Name Youngstown Sheet and Tube Co.
50b. Reviewed by		48. Date Recorded in Field February 18, 2004		
50b. Reviewed by		49. Revised by		2. County Mahoning
50b. Reviewed by		50a. Date Revised		
50b. Reviewed by		50b. Reviewed by		6. Specific Address or Location Mahoning River Mile 16.78 near Bridge Street

51. Condition of Property

- Excellent
- Good/Fair
- Deteriorated
- Ruin
- Destroyed/Burned Date _____

52. Historic Outbuildings and Dependencies

Barn Type(s)

- Corn Crib or Shed
- Summer Kitchen
- Silo
- Designed landscape features
- Smoke House
- Spring House
- Ice House
- Privy
- Garage

53. Affiliated OAI Site Number(s)

Archeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan



42. (Cont'd)

43. (Cont'd)

The land for this plant was first acquired by the company circa 1900, and the company had a factory at this site by 1902. The YS & T plant here was greatly expanded in 1913. The 1915 map shows that the original structure was a simple concrete weir, and the trestle was added between 1916 and 1933. From roughly the 1920s through the 1950s, water impounded by dams like this was used and released by multiple steel plants and other industries on the stretch of the Mahoning River between Warren and Lowellville. The re-use of the same water as many as 13 times by different steel plants on the Mahoning often led the water temperature in the river to rise to over 100 degrees Fahrenheit. The river was also heavily polluted during the height of the steel industry's activities in the area.

This dam impounded water for the YS & T works for many years. The company began to move jobs away from this facility in 1977-1978, and the plant is now closed. Starting in the late 1970s, the steel industry in the Mahoning Valley went into a decline phase. There is now only a modest amount of steel manufacturing in the area, and the Mahoning River is also much cleaner than in the past since large amounts of industrial waste are no longer dumped into the river. This dam and trestle is a simple concrete structure that does not have any significant design or engineering features, but it is a reminder of the dominance of the steel industry in early to mid-twentieth century Mahoning County. At an unknown date the trestle was removed from the top of the piers. The structure now consists of six concrete piers and the sections of concrete weir. The structure was reported as being abandoned in a 1942 survey of this portion of the river, so it appears that the trestle has not been used for many years. With the closing of the YS & T Plant, the dam does not appear to be in use at this point for any industrial purposes.

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Avenue
Columbus, Ohio 614/297-2470



1. No. MAH-1726-4	2. County Mahoning	4. Present Name(s) Republic Steel Campbell Works Dam	<input type="checkbox"/> Coded	1. No. MAH-1726-4	
3. Location of Negatives N/A		5. Historic or other Name(s) Republic Steel Campbell Works Dam			2. County Mahoning
6. Specific Address or Location Mahoning River Mile 18.2, near Center Street		16. Thematic Association(s) Industry, Steel Manufacturing		28. No. of Stories 1	
6a. Lot, Section or VMD Number Mahoning Co. Parcel No. 53-042-0-13.00 City or Village If Rural, Township & Vicinity Youngstown		17. Date(s) or Period ca. 1908-1915		29. Basement? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Site Plan with North Arrow 		17b. Alteration Date(s) N/A		30. Foundation Material Unknown	
9. U.T.M. Reference Quadrangle Name Youngstown 1 7 5 3 2 1 4 1 4 5 4 7 1 1 3		18. Style or Design Utilitarian		31. Wall Construction Stone and Concrete Fragments	
Zone Easting Northing . SITE Site <input type="checkbox"/> Structure <input checked="" type="checkbox"/> Building <input type="checkbox"/> Object <input type="checkbox"/>		18a. Style of Addition or Element(s) N/A		32. Roof Type & Material N/A	
11. On National Register? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		19. Architect or Engineer Unknown		33. No. of Bays Front 1 Side 1	
13. Part of Estab. Hist. Dist? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		19a. Design Sources Unknown		34. Exterior Wall Material(s) Stone and Concrete Fragments	
15. Name of Established District (N.R. or Local)		20. Contractor or Builder Unknown		35. Plan Shape Linear	
12. Description of Important Interior and Exterior Features (Continue on reverse if necessary) This abandoned industrial structure was originally a small low head check dam that impounded water to be used in the steelmaking process. The resource is now composed of a loose pile of stones and concrete fragments that stretch in a roughly linear pattern across the Mahoning River. The stones appear to be of natural form or to have a rip-rap type cut; no efforts at finishing were observed. No poured concrete or stone masonry features such as outlets were observed. The structure appears to be a crude weir constructed of stone and concrete fragments.		21. Building Type or Plan Concrete and Stone Fragment Dam		36. Changes (Explain in #42) Addition <input type="checkbox"/> Altered <input type="checkbox"/> Moved <input type="checkbox"/>	
13. History and Significance (Continue on reverse if necessary) This dam is associated with the former Republic Steel Campbell Works that appears to have occupied both sides of the river in this area, although the main portion of the plant was located on the west side of the river. Republic was founded in 1899, and the company began acquiring land for this plant by 1902. By 1928, the plant was heavily developed into a large steelmaking operation. The construction date for this dam is likely ca. 1908-1915. It appears that the expansion of the steel industry began placing very heavy strains on the Mahoning River's water intakes around 1915. (continued)		22. Original Use, if apparent Industrial Check Dam		37. Window Types <input type="checkbox"/> 6 over 6 <input type="checkbox"/> 2 over 2 <input type="checkbox"/> 4 over 4 <input type="checkbox"/> Other	
14. Description of Environment and Outbuildings (See #52) The area was once a densely developed tract that housed structures associated with Republic Steel. Now, most of the buildings associated with the plant have been demolished and the dam is almost entirely surrounded by empty land.		23. Present Use Abandoned		38. Building Dimensions 80' X 10' 39. Endangered? By What? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
15. Sources of Information Hardlines Design. Inventory of Low Head Dams on the Mahoning River. U.S. Army Corps of Engineers, 2004. Sanborn Map Company. Fire Insurance Maps of Youngstown. 1889, 1893, 1907, 1928. U.S. Army Corps of Engineers. Survey Maps of the Mahoning River. 1937. JSGS Youngstown Quadrangle Map. 1908.		24. Ownership Public <input checked="" type="checkbox"/> Private <input type="checkbox"/>		40. Chimney Placement N/A	
46. Prepared by Roy A. Hampton III		25. Owner's Name & Address, if known City of Youngstown, Ohio 26 S. Phelps St., Youngstown, OH 44503		41. Distance from and Frontage on Road 45' f 10'	
47. Organization Hardlines Design/USACE Pittsburgh		26. Property Acreage approx. 2 acres		42. Description of Important Interior and Exterior Features (Continue on reverse if necessary)  	
48. Date Recorded in Field February 18, 2004		27. Other Surveys in Which Included U.S. Army Corps of Engineers Inv. of Low Head		49. Revised by 50a. Date Revised	
49. Revised by 50a. Date Revised		50b. Reviewed by		6. Specific Address or Location: Mahoning River Mile 18.2, near Center Street	

51. Condition of Property

- Excellent
- Good/Fair
- Deteriorated
- Ruin
- Destroyed/Burned Date _____

52. Historic Outbuildings and Dependencies

Barn Type(s)

- Corn Crib or Shed
- Summer Kitchen
- Silo
- Designed landscape features
- Smoke House
- Spring House
- Ice House
- Privy
- Garage

53. Affiliated OAI Site Number(s)

Archeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan

42. (Cont'd)

43. (Cont'd)

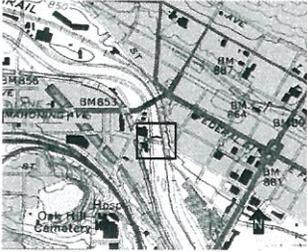
and steel plants began building check dams on the river around that time. This dam appears to have served to impound water for use by the Republic Steel Campbell Works for many years. From roughly the 1920s through the 1950s, water impounded by dams like this was used and released by multiple steel plants and other industries on the stretch of the Mahoning River between Warren and Lowellville. The re-use of the same water as many as 13 times by different steel plants on the Mahoning often led the water temperature in the river to rise to over 100 degrees Fahrenheit. The river was also heavily polluted during the height of the steel industry's activities in the area.

With the decline of the steel industry in the Mahoning Valley area in the late 1970s and 1980s, the Republic Campbell Works closed. The area around the dam is now largely composed of empty land. This dam now does not appear to serve any industrial purpose. It is not clear if the dam was originally a loose pile of concrete and stone rubble, or if the current condition represents the demolition of an earlier concrete dam, an intact rubble dam, or the remains of a rubble dam that would have had a more well defined form at the time of its original construction. With the demise of Republic Steel in the area, the land around the dam was eventually donated to the City of Youngstown, which is the current owner. The dam is unremarkable in form and construction and is a very modest reminder of the steel industry's 20th century dominance in the Warren-Youngstown area.

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Avenue
Columbus, Ohio 614297-2470



1. No. MAH-1724-4	2. County Mahoning	4. Present Name(s) Baldwin Mills Dam	<input type="checkbox"/> Coded	1. No. MAH-1724-4														
3. Location of Negatives N/A		5. Historic or other Name(s) Baldwin Mills Dam																
6. Specific Address or Location Mahoning River Mile 22.11, at Mahoning Ave.		16. Thematic Association(s) Industry, Flour Mills	28. No. of Stories 1	2. County Mahoning														
6a. Lot, Section or VMD Number Mahoning Co. Parcel No. 53-061-0-196.00 City or Village If Rural, Township & Vicinity Youngstown	17. Date(s) or Period ca. 1915	17b. Alteration Date(s) N/A	29. Basement? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>															
Site Plan with North Arrow 		18. Style or Design <input type="checkbox"/> High Style Utilitarian <input checked="" type="checkbox"/> Element	30. Foundation Material Unknown	4.5. Present or Historic Name Baldwin Mills Dam														
9. U.T.M. Reference Quadrangle Name Youngstown <table border="1" style="width:100%; text-align: center;"> <tr> <td>1</td><td>7</td><td>5</td><td>2</td><td>8</td><td>8</td><td>8</td><td>0</td><td>4</td><td>5</td><td>4</td><td>9</td><td>7</td><td>6</td><td>0</td> </tr> </table> Zone Easting Northing 1. SITE Site <input type="checkbox"/> Building <input type="checkbox"/> Structure <input checked="" type="checkbox"/> Object <input type="checkbox"/>		1	7		5	2	8	8	8	0	4	5	4	9	7	6	0	18a. Style of Addition or Element(s) N/A
1	7	5	2	8	8	8	0	4	5	4	9	7	6	0				
11. On National Register? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		12. N.R. Potential? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	32. Roof Type & Material N/A	6. Specific Address or Location Mahoning River Mile 22.11, at Mahoning Ave.														
13. Part of Estab. Hist. Dist? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		14. District Potential? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	33. No. of Bays Front 1 Side 1															
15. Name of Established District (N.R. or Local)		25. Owner's Name & Address, if known Anthony's on the River 1500 Hill Avenue, Youngstown, OH 44502	34. Exterior Wall Material(s) Stone and Concrete Fragments															
42. Description of Important Interior and Exterior Features (Continue on reverse if necessary) This abandoned industrial structure was originally a small low head dam that impounded water for use by a flour mill. The resource is now composed of a loose pile of stones and concrete fragments that stretch in a roughly linear pattern across the Mahoning River. The stones appear to be of natural form or to have a rip-rap type cut; no efforts at finishing were observed. There did appear to be some rectangular concrete slabs in the river and there was a small triangular abutment on the east side of the river.		26. Property Acreage approx. 2 ac	35. Plan Shape Linear															
43. History and Significance (Continue on reverse if necessary) This dam is associated with the former Homer Baldwin City Mills that sat on this site in the 19th century. The mill appears on 1884 Sanborn Maps, which indicate that it was a large wood frame building with a "3 tier plank dam" also present at the site. The mill continues to appear on Sanborn maps as a functioning facility through the 1920s. A 1937 U.S. Army Corps of Engineers map of the Mahoning River still shows the mill buildings, but they appear to have been completely demolished at some later date. The land was donated by George Vranches to the City of Youngstown in 1992 (continued)		27. Other Surveys in Which Included U.S. Army Corps of Engineers Inv. of Low Head	36. Changes (Explain in #42) Addition <input type="checkbox"/> Altered <input type="checkbox"/> Moved <input type="checkbox"/>															
44. Description of Environment and Outbuildings (See #52) The area was once a densely developed tract that housed facilities associated with Baldwin (flour) Mills. Now, most of the buildings associated with the mill have been demolished and the land around the dam is occupied by a restaurant.		46. Prepared by Roy A. Hampton III	37. Window Types <input type="checkbox"/> 6 over 6 <input type="checkbox"/> 2 over 2 <input type="checkbox"/> 4 over 4 <input type="checkbox"/> Other															
45. Sources of Information Hardlines Design. Inventory of Low Head Dams on the Mahoning River. U.S. Army Corps of Engineers, 2004. Sanborn Map Company. Fire Insurance Maps of Youngstown. 1884, 1889, 1893, 1907, 1928. U.S. Army Corps of Engineers. Survey Maps of the Mahoning River. 1937.		47. Organization Hardlines Design/USACE Pittsburgh	38. Building Dimensions 80' X 10'															
49. Revised by		50a. Date Revised																
50b. Reviewed by		39. Endangered? By What? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
40. Chimney Placement N/A		41. Distance from and Frontage on Road d 45' f 10'																
41. Distance from and Frontage on Road d 45' f 10'		48. Date Recorded in Field February 18, 2004																
42. Description of Important Interior and Exterior Features (Continue on reverse if necessary)		49. Revised by																
43. History and Significance (Continue on reverse if necessary)		50a. Date Revised																
44. Description of Environment and Outbuildings (See #52)		50b. Reviewed by																



1. No. MAH-1724-4
2. County Mahoning
4.5. Present or Historic Name Baldwin Mills Dam
6. Specific Address or Location Mahoning River Mile 22.11, at Mahoning Ave.

51. Condition of Property

- Excellent
 Good/Fair
 Deteriorated
 Ruin
 Destroyed/Burned Date _____

52. Historic Outbuildings and Dependencies

Barn Type(s)

- Corn Crib or Shed Smoke House Privy
 Summer Kitchen Spring House Garage
 Silo Ice House
 Designed landscape features

53. Affiliated OAI Site Number(s) 33-MH-71

Archeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan

42. (Cont'd)

43. (Cont'd)

and was shortly thereafter transferred to Anthony's on the River, a restaurant, which is the current owner.

Histories of Youngstown indicate that the mill was first built by Caleb Putnam, an immigrant from New York state. Apparently Plumb built a "rude dam" with log buildings for a sawmill and grist mill. The sawmill soon fell into disrepair, but the grist mill continued to be used until it burned in 1855. The land was then purchased in 1859 by Homer Baldwin, who built a new flour mill on the site that continued to operate through the rest of the 19th century.

The existing dam structure is obviously not the "three tier plank" dam recorded on the 1884 Sanborn maps. Due to the presence of concrete chunks in the current weir, it may be the remains of a 20th century reconstruction of the mill dam, or it may simply be a crude 20th century structure that was built on the site of the old mill dam. While this is the site of an important 19th century mill, the current dam appears to be a product of the 20th century.

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Avenue
Columbus, Ohio 614/297-2470



No. MAH-1725-4	2. County Mahoning	4. Present Name(s) Carnegie Steel Co. Dam	<input type="checkbox"/> Coded	1. No. MAH-1725-4
3. Location of Negatives N/A		5. Historic or other Name(s) Carnegie-Illinois Steel Co. Dam		
6. Specific Address or Location Mahoning River Mile 23.14, near Crescent Street		16. Thematic Association(s) Industry, Steel Manufacturing		2. County Mahoning
6a. Lot, Section or VMD Number Mahoning Co. Parcel No. 53-094-0-178.01 City or Village If Rural, Township & Vicinity Youngstown		28. No. of Stories 1 29. Basement? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Site Plan with North Arrow 		17. Date(s) or Period ca. 1916-1937 17b. Alteration Date(s) N/A		4.5. Present or Historic Name Carnegie-Illinois Steel Co. Dam
9. U.T.M. Reference Quadrangle Name Youngstown 1 7 5 2 7 5 0 5 4 5 5 1 1 5 5 Zone Easting Northing). SITE Site <input type="checkbox"/> Structure <input checked="" type="checkbox"/> Building <input type="checkbox"/> Object <input type="checkbox"/>		30. Foundation Material Poured Concrete 31. Wall Construction Poured Concrete 32. Roof Type & Material N/A		
11. On National Register? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		18. Style or Design <input type="checkbox"/> High Style Utilitarian <input checked="" type="checkbox"/> Element 18a. Style of Addition or Element(s) N/A		6. Specific Address or Location Mahoning River Mile 23.14, near Crescent Street
13. Part of Estab. Hist. Dist? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		19. Architect or Engineer Unknown 19a. Design Sources Unknown 20. Contractor or Builder Unknown 21. Building Type or Plan Concrete Dam 22 Original Use, if apparent Industrial Check Dam		
15. Name of Established District (N.R. or Local)		23. Present Use Abandoned 24. Ownership Public <input checked="" type="checkbox"/> Private <input type="checkbox"/>		6. Specific Address or Location Mahoning River Mile 23.14, near Crescent Street
12. Description of Important Interior and Exterior Features (Continue on reverse if necessary) This abandoned industrial structure was originally a small low head dam that impounded water for the Carnegie-Illinois Steel Mill. The resource is a V-shaped concrete dam with the "V" pointing upstream. The eastern half of the dam has a sloped weir while the western half is a smaller, wall-like concrete weir. The western half of the dam has a series of wood flashboards at the top of the weir that are held in place by metal pipes. The dam has a crude unfinished poured concrete abutment on each side. The abutments appear to be pools of concrete that were poured in place without any forms.		25. Owner's Name & Address, if known City of Youngstown 26 S. Phlps Ave, Youngstown, OH 44503 26. Property Acreage approx. 2 acres 27. Other Surveys in Which Included U.S. Army Corps of Engineers Inv. of Low Head		
13. History and Significance (Continue on reverse if necessary) This dam is associated with the former Carnegie-Illinois Steel Mill that was located on the east bank of the Mahoning River. A blast furnace was first operated at this plant in February 1900, and the plant was expanded between 1907-1909 and again in 1916. The dam impounded water to supply an intake pipe that delivered water to the plant to be used in the manufacturing of steel. The dam does not appear to be in use today. The dam is located on a portion of the Mahoning River where adjacent lands were once owned by Carnegie-Illinois Steel, which was subsequently passed on to U.S. Steel and later to I TV Steel through a series of (continued)		33. No. of Bays Front 2 Side 1 34. Exterior Wall Material(s) Poured Concrete 35. Plan Shape V-shaped 36. Changes (Explain in #42) Addition <input type="checkbox"/> Altered <input type="checkbox"/> Moved <input type="checkbox"/> 37. Window Types <input type="checkbox"/> 6 over 6 <input type="checkbox"/> 2 over 2 <input type="checkbox"/> 4 over 4 <input type="checkbox"/> Other 38. Building Dimensions 80' X 10' 39. Endangered? By What? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		6. Specific Address or Location Mahoning River Mile 23.14, near Crescent Street
14. Description of Environment and Outbuildings (See #52) The dam is located on a portion of the Mahoning River that is lined with large quantities of railroad tracks. There is a large early 20th century steel railroad trestle that crosses the river at an angle at the bridge site. The surrounding area is an older industrial district with some remaining industries mixed with vacant buildings.		40. Chimney Placement N/A 41. Distance from and Frontage on Road d 150' f 15'  		
15. Sources of Information Hardlines Design. Inventory of Low Head Dams on the Mahoning River. U.S. Army Corps of Engineers, 2004. Sanborn Map Company. Fire Insurance Maps of Youngstown. 1889, 1893, 1907, 1928. U.S. Army Corps of Engineers. Survey Maps of the Mahoning River. 1937. Mahoning County Auditor. Deed Records and Tax parcel Maps.		46. Prepared by Roy A. Hampton III 47. Organization Hardlines Design/USACE Pittsburgh 48. Date Recorded in Field February 18, 2004 49. Revised by 50a. Date Revised 50b. Reviewed by		

51. Condition of Property

- Excellent
 Good/Fair
 Deteriorated
 Ruin
 Destroyed/Burned Date _____

52. Historic Outbuildings and Dependencies

Barn Type(s)

- Corn Crib or Shed Smoke House Privy
 Summer Kitchen Spring House Garage
 Silo Ice House
 Designed landscape features

53. Affiliated OAI Site Number(s)

Archeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan

[Empty area for Farmstead Plan with corner brackets]

42. (Cont'd)

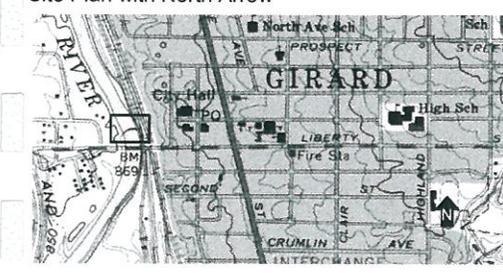
43. (Cont'd)

corporate transfers and mergers. The land was sold to Youngstown Sinter in March 2000. The dam does not appear to serve any practical purpose at this point, since industrial water demands on the Mahoning River have been greatly reduced by the departure of a large amount of heavy industry from the Youngstown-Warren area. The dam is a modest reminder of the dominance of the steel industry in Youngstown during the early and middle 20th century.

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Avenue
Columbus, Ohio 614267-2470



1. No. TRU-2744-24	2. County Trumbull	4. Present Name(s) Girard Mills Lock and Dam	<input type="checkbox"/> Coded	1. No. TRU-2744-24														
3. Location of Negatives N/A		5. Historic or other Name(s) Girard Mills Lock and Dam																
6. Specific Address or Location Mahoning River Mile 26.97, at Liberty Street		16. Thematic Association(s) Industry, Flour Mills		2. County Trumbull														
6a. Lot, Section or VMD Number City of Girard Outlot 11 City or Village If Rural, Township & Vicinity Girard		17. Date(s) or Period ca. 1831-1840 17b. Alteration Date(s) c. 1915-1925																
Site Plan with North Arrow 		18. Style or Design Utilitarian <input type="checkbox"/> High Style <input checked="" type="checkbox"/> Element		4,5. Present or Historic Name Girard Mills Lock and Dam														
9. U.T.M. Reference Quadrangle Name Girard <table border="1" style="width:100%; text-align: center;"> <tr> <td>1</td><td>7</td><td>5</td><td>2</td><td>4</td><td>6</td><td>5</td><td>5</td><td>4</td><td>5</td><td>5</td><td>5</td><td>7</td><td>4</td><td>3</td> </tr> </table>		1	7		5	2	4	6	5	5	4	5	5	5	7	4	3	18a. Style of Addition or Element(s) N/A
1	7	5	2	4	6	5	5	4	5	5	5	7	4	3				
10. SITE Building <input type="checkbox"/> Structure <input checked="" type="checkbox"/> Object <input type="checkbox"/>		19. Architect or Engineer Unknown		6. Specific Address or Location Mahoning River Mile 26.97, at Liberty Street														
11. On National Register? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		19a. Design Sources Unknown																
12. N.R. Potential? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		20. Contractor or Builder Unknown																
13. Part of Estab. Hist. Dist? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		21. Building Type or Plan Masonry Arch Dam																
14. District Potential? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		22. Original Use, if apparent Flour and Sawmill Dam																
15. Name of Established District (N.R. or Local)		23. Present Use Abandoned																
16. Description of Important Interior and Exterior Features (Continue on reverse if necessary) This site consists of a multi-component grouping of elements, including a dam, a large abutment, and a large wall on the riverbank. The arched timber crib and concrete dam stretches continuously across the river in an arc form. The only break is a small gap at the center of the weir. It is not clear if this break is an original feature or a recent modification. The actual fabric of the dam was hidden under water during the field visit, but an ODNR inspection firm identifies it as timber crib with a concrete cap. The west abutment of the dam is a five sided polygonal structure. Three walls of the structure face the Mahoning River and are composed of cut sandstone masonry. The masonry is composed (continued)		24. Ownership Public <input type="checkbox"/> Private <input checked="" type="checkbox"/>																
17. History and Significance (Continue on reverse if necessary) This dam is associated with the former Girard Mills. In 1884, the site had both a flour mill and a sawmill. The dam backed up water into a pool. A mill race was cut into the river bank above the dam, drawing water from the pool created by it. The race ran along the west bank of the river and emptied back into the river below the dam, in the vicinity of what is now the concrete open spandrel bridge's south abutment. Current Trumbull County tax parcel maps adapted from older maps show that there was at one time a navigation lift on the east bank of the river at the site to allow river craft to pass through the mill dam area. (continued)		25. Owner's Name & Address, if known McDonald Industrial Land Corp. 100 Ohio Avenue, McDonald, Ohio																
18. Description of Environment and Outbuildings (See #52) The site is now an empty field on the Mahoning River. There is an open spandrel concrete arch bridge immediately to the south of the site. A series of railroad tracks and the City of Girard sit east of the dam site on the east side of the Mahoning River. There is a small 1 1/2 story house with Greek Revival elements to the west of the site.		26. Property Acreage approx. 2 ac																
19. Sources of Information Hardlines Design. Inventory of Low Head Dams on the Mahoning River. U.S. Army Corps of Engineers, 2004. Sanborn Map Company. Fire Insurance Maps of Girard. 1889, 1893, 1907, 1928. U.S. Army Corps of Engineers. Survey Maps of the Mahoning River. 1937. White, John. Ohio Historic Inventory Form, Site 33-TR-128, Girard Mill. Ohio Historic Preservation Office		27. Other Surveys in Which Included U.S. Army Corps of Engineers Inv. of Low Head																
20. Prepared by Roy A. Hampton III		28. No. of Stories 1																
21. Organization Hardlines Design/USACE Pittsburgh		29. Basement? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
22. Date Recorded in Field February 18, 2004		30. Foundation Material Timber Crib																
23. Revised by		31. Wall Construction Timber Crib, Poured Concrete																
24. Date Revised		32. Roof Type & Material N/A																
25. Reviewed by		33. No. of Bays Front 1 Side 1																
26. Prepared by Roy A. Hampton III		34. Exterior Wall Material(s) Timber Crib and Concrete																
27. Organization Hardlines Design/USACE Pittsburgh		35. Plan Shape Linear																
28. Date Recorded in Field February 18, 2004		36. Changes (Explain in #42) Addition <input type="checkbox"/> Altered <input checked="" type="checkbox"/> Moved <input type="checkbox"/>																
29. Revised by		37. Window Types <input type="checkbox"/> 6 over 6 <input type="checkbox"/> 2 over 2 <input type="checkbox"/> 4 over 4 <input type="checkbox"/> Other																
30. Date Revised		38. Building Dimensions 100' X 20'																
31. Reviewed by		39. Endangered? By What? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
32. Prepared by Roy A. Hampton III		40. Chimney Placement N/A																
33. Organization Hardlines Design/USACE Pittsburgh		41. Distance from and Frontage on Road approx. 500' x 20'																

51. Condition of Property

- Excellent Ruin
 Good/Fair Destroyed/Burned Date _____
 Deteriorated

52. Historic Outbuildings and Dependencies

Barn Type(s)

- Corn Crib or Shed Smoke House Privy
 Summer Kitchen Spring House Garage
 Silo Ice House
 Designed landscape features

53. Affiliated OAI Site Number(s) 33-TR-128

Archeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan



42. (Cont'd)

of sandstone blocks. The blocks are large and rectangular and in most cases have been hand finished with a diagonal chisel pattern. The three stone faces of the abutment all have thick early 20th century poured concrete caps at the top of the abutment walls. The abutment's north and south faces, which do not face the river, are composed of early 20th century poured concrete. At this point, the top of the abutment is level with the top of the riverbank. There are also some scattered blocks of sandstone south of the abutment that have the same pattern of diagonal chisel marks as the stones of the abutment.

On the east side of the river, the end of the dam attaches to a high stone wall that currently supports the river bank. This wall is composed of about 10 courses of rock faced ashlar sandstone. The wall extends slightly above the dam and continues below the dam for a significant length, being cut off at its south end by the piers of an open spandrel concrete arch bridge that sits to the south of the dam and carries Liberty Street across the Mahoning River. Overall, the complex contains a large amount of 19th century sandstone masonry along with some early 20th century concrete repairs and modifications.

43. (Cont'd)

There is also indication on the tax parcel map of an old towpath that ran along the east shoreline along the river above the dam.

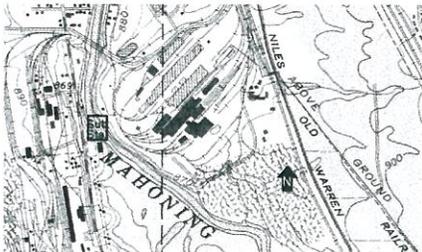
Histories of the area indicate that the mill and dam were built in 1840 by Jesse Baldwin and Abner Osborn. The lock wall on the east bank of the river also appears to date to 1839-1840, and is likely part of the Pennsylvania and Ohio Canal that once occupied this part of the Mahoning River. An ODNR inspection form for the dam indicates a construction date of 1831.

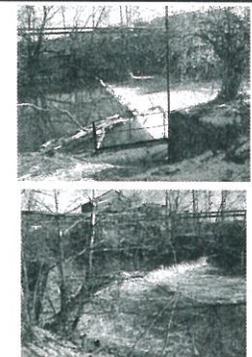
The flour mill at the site continued to operate and was converted to a feed mill by the late 1920s. The sawmill shown positioned over the race in the 1884 map was moved to the side of the race by 1893 and appears to have stopped using river water power at that time in favor of steam. The lumber mill and feed mill were both covered up on a 1928 Sanborn map that had been updated to 1930. It is possible that the construction of the nearby concrete arch bridge led to the infilling of the mill race, destroying the viability of the mills. However, the mill buildings are present on a 1937 U.S. Army Corps of Engineers survey map for the Mahoning River at Girard. The OAI form for the property states that local informants claimed that the mill was destroyed by fire in 1942, and that it was first constructed circa 1840. The land appears to have remained vacant after the destruction of the mills, but the dam, abutment, and a stone lock wall have survived. The site was formerly owned by USX Corporation and was sold to McDonald Industrial Land Company in June 1990. The dam, lock wall, and abutment are important reflections of 19th century industry in Girard, and the lock wall is a reflection of the early navigation use of the Mahoning River. Overall, this is a very significant site to the history of the City of Girard as well as to the history and development of waterpower and industry on the Mahoning River.

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Avenue
Columbus, Ohio 614/297-2470



1. No. MAH-2741-17	2. County Trumbull	4. Present Name(s) WCI Steel Warren Works Dam	<input type="checkbox"/> Coded	1. No. MAH-2741-17
3. Location of Negatives N/A		5. Historic or other Name(s) Republic Steel Warren Works Dam		
6. Specific Address or Location Mahoning River Mile 36.79 near Main Street		16. Thematic Association(s) Industry, Steel Manufacturing	28. No. of Stories 1	2. County Trumbull
6a. Lot, Section or VMD Number Lot 42, Warren Township City or Village If Rural, Township & Vicinity Warren Township, Warren Vicinity		17. Date(s) or Period ca. 1915-1937	17b. Alteration Date(s) N/A	
Site Plan with North Arrow 		18. Style or Design Utilitarian	30. Foundation Material Poured Concrete, Timber Crib	4.5. Present or Historic Name Republic Steel Warren Works Dam
9. U.T.M. Reference Quadrangle Name Warren 1 7 5 1 5 5 2 7 4 5 6 1 9 5 0		18a. Style of Addition or Element(s) N/A	31. Wall Construction Poured Concrete	
Zone Easting Northing . SITE Site <input type="checkbox"/> Building <input type="checkbox"/> Structure <input checked="" type="checkbox"/> Object <input type="checkbox"/>		19. Architect or Engineer Unknown	32. Roof Type & Material N/A	6. Specific Address or Location Mahoning River Mile 36.79 near Main Street
11. On National Register? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 12. N.R. Potential? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		19a. Design Sources Unknown	33. No. of Bays Front 1 Side 1	
13. Part of Estab. Hist. Dist? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 14. District Potential? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		20. Contractor or Builder Unknown	34. Exterior Wall Material(s) Poured Concrete	
15. Name of Established District (N.R. or Local)		21. Building Type or Plan Industrial Check Dam	35. Plan Shape Linear	
12. Description of Important Interior and Exterior Features (Continue on reverse if necessary) This structure is an industrial structure that was originally built to impound water for intake into the Warren Works of the Republic Steel Company. It consists of a simple straight concrete weir with some wood flashboards mounted on the top with metal pipes, and some sections of the weir that appeared to be timber cribs. The dam also features a small concrete wall abutment on the east bank, and a larger rectangular concrete abutment on the west side of the river. Next to the west abutment, incorporated into the dam, is a concrete outlet pipe that was pouring out a significant quantity of water at the time of the field visit.		22. Original Use, if apparent Industrial Check Dam	36. Changes (Explain in #42) Addition <input type="checkbox"/> Altered <input type="checkbox"/> Moved <input type="checkbox"/>	
13. History and Significance (Continue on reverse if necessary) This dam was associated with the Warren Works, a steel plant that was founded in the early 20th century by Trumbull Steel Corporation, and was acquired in 1928 by Republic Steel. The Warren Works was established in 1912 and was expanded in 1914, 1916, and 1917. The dam was built to impound water on this portion of the Mahoning River so that the Warren Works could obtain water for its steelmaking processes. A water intake pipe was located upriver from the dam for the purpose of conveying water to the Warren Works. The dam appears on 1937 survey map of the (continued)		23. Present Use Industrial Check Dam	37. Window Types <input type="checkbox"/> 6 over 6 <input type="checkbox"/> 2 over 2 <input type="checkbox"/> 4 over 4 <input type="checkbox"/> Other	
14. Description of Environment and Outbuildings (See #52) The area still appears to have active industries. An Ohio Edison substation is located immediately west of the dam, and a number of active industrial utility structures sit on the east side of the river.		24. Ownership Public <input type="checkbox"/> Private <input checked="" type="checkbox"/>	38. Building Dimensions 80' X 18'	
15. Sources of Information Hardlines Design. Inventory of Low Head Dams on the Mahoning River. U.S. Army Corps of Engineers, 2004. Sanborn Map Company. Fire Insurance Maps of Warren 1907, 1928. U.S. Army Corps of Engineers. Survey Maps of the Mahoning River. 1933, 1937.		25. Owner's Name & Address, if known Warren Consolidated Industries, Inc. 1040 Pine Av. SE, Warren OH 44483	39. Endangered? By What? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
46. Prepared by Roy A. Hampton III		26. Property Acreage 10.56 acres	40. Chimney Placement N/A	
47. Organization Hardlines Design/USACE Pittsburgh		27. Other Surveys in Which Included U.S. Army Corps of Engineers Inv. of Low Head	41. Distance from and Frontage on Road d 50' f 12'	
48. Date Recorded in Field February 18, 2004		49. Revised by 50a. Date Revised		
49. Revised by 50a. Date Revised		50b. Reviewed by		



51. Condition of Property

- Excellent
 Good/Fair
 Deteriorated
 Ruin
 Destroyed/Burned Date _____

52. Historic Outbuildings and Dependencies

Barn Type(s)

- Corn Crib or Shed Smoke House Privy
 Summer Kitchen Spring House Garage
 Silo Ice House
 Designed landscape features

53. Affiliated OAI Site Number(s)

Archeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan



42. (Cont'd)

43. (Cont'd)

Mahoning River completed by the U.S. Army Corps of Engineers in 1937. It seems likely that the dam was built ca. 1915-1929 as the steel industry in Youngstown expanded rapidly in those years and developed much greater water needs. The area still contains active steel plants and it seems likely that water impounded by this dam is still used for industrial purposes. The Warren Works, now owned by WCI Steel, is still in operation and employs about 1,800 workers despite WCI's recent bankruptcy reorganization. The level of pollution and water demand on the Mahoning River has substantially decreased since the steel industry in the Warren-Youngstown area went into a period of decline starting in the late 1970s.

This dam is a simple concrete and timber crib weir. It played some role in supplying the water needs of the Warren Works, but would have played a fairly minor utilitarian role in the overall function of the plant.

OHIO HISTORIC INVENTORY

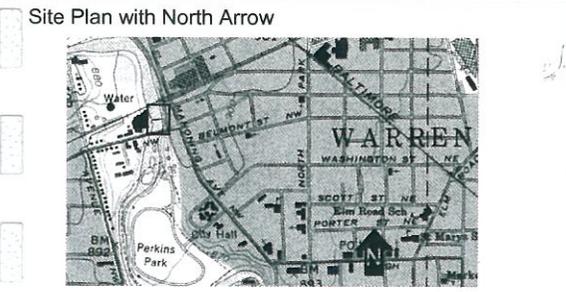
Ohio Historic Preservation Office
1985 Velma
Avenue
Columbus, Ohio
614/297-2470



1. No. TRU-2742-17		2. County Trumbull		4. Present Name(s) Warren Old Water Works Dam <input type="checkbox"/> Coded	
3. Location of Negatives N/A				5. Historic or other Name(s) Warren Water Works Dam	
6. Specific Address or Location Mahoning River Mile 40.03 at Summit and Mahoning Aves.		6a. Lot, Section or VMD Number Lots 20 and 21, Warren Township City or Village If Rural, Township & Vicinity City of Warren		6. Specific Address or Location Mahoning River Mile 40.03 at Summit and Mahoning Aves.	

6. Specific Address or Location
Mahoning River Mile 40.03 at Summit and Mahoning Aves.

6a. Lot, Section or VMD Number
Lots 20 and 21, Warren Township
City or Village If Rural, Township & Vicinity
City of Warren



9. U.T.M. Reference
Quadrangle Name Warren
1 7 5 1 4 4 7 0 4 5 6 5 6 7 0

Zone	Easting	Northing
10. SITE	Site <input type="checkbox"/> Building <input type="checkbox"/>	Structure <input checked="" type="checkbox"/> Object <input type="checkbox"/>

11. On National Register? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	12. N.R. Potential? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

13. Part of Estab. Hist. Dist? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	14. District Potential? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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15. Name of Established District (N.R. or Local)

16. Thematic Association(s)
Government, Public Utilities

17. Date(s) or Period c. 1884-1899	17b. Alteration Date(s) 1902, 1922, 1945
---------------------------------------	---

18. Style or Design
Utilitarian High Style Element

18a. Style of Addition or Element(s)
Utilitarian

19. Architect or Engineer
Unknown

19a. Design Sources
Unknown

20. Contractor or Builder
Unknown

21. Building Type or Plan
Concrete Dam and Hydroelectric Spillway

22. Original Use, if apparent
Water Works and Hydroelectric Power Generation

23. Present Use
Not in use

24. Ownership
Public Private

25. Owner's Name & Address, if known
City of Warren, Ohio

26. Property Acreage approx. 2 acres

27. Other Surveys in Which Included
U.S. Army Corps of Engineers Inv. of Low Head

28. No. of Stories 1

29. Basement? Yes No

30. Foundation Material
Poured Concrete

31. Wall Construction
Poured Concrete/Brick

32. Roof Type & Material
Built up, Asphalt

33. No. of Bays
Front 3 Side 1

34. Exterior Wall Material(s)
Poured Concrete, Brick

35. Plan Shape Rectangular

36. Changes (Explain in #42)
Addition
Altered
Moved

37. Window Types
 6 over 6 2 over 2
 4 over 4 Other

38. Building Dimensions 22' X 20'

39. Endangered? By What? Yes No

40. Chimney Placement
N/A

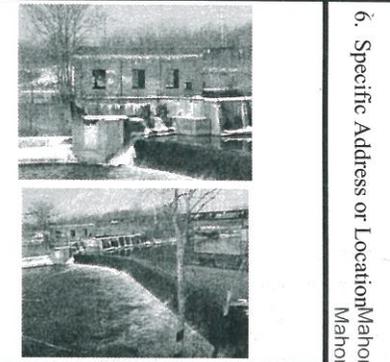
41. Distance from and Frontage on Road d 60' f 80'

12. Description of Important Interior and Exterior Features (Continue on reverse if necessary)
This structure is an extensive complex composed of a concrete V-shaped dam, a hydroelectric spillway, and a screen house associated with a power plant on the site. The dam is a small concrete weir with a V-shaped profile. The dam has concrete abutments on each side of the river. On the west side of the dam, there is a spillway that was originally used for hydroelectric purposes. The spillway consists of concrete walls and upper and lower concrete gates. The upper gates appear to still have some remaining machinery and geared metal wheels. Above the spillway, there is a small flat roofed brick building that served as a screen house for the power plant that was formerly located at the site. (continued)

13. History and Significance (Continue on reverse if necessary)
This dam was associated with the Warren Water Works, a municipal water plant established at this site in 1884. Sanborn maps as early as 1889 show the water plant but do not cover the area occupied by the dam. The dam does appear on a 1902 Sanborn map as an arched concrete dam. The small, original water plant was upgraded between 1889 and 1922 with the construction of additional filters, settling basins, and a filtration house built between 1915 and 1922 that still survives on the site. By 1902, the dam had been equipped with a spillway and turbine that allowed for the (continued)

44. Description of Environment and Outbuildings (See #52)
The area was once a densely developed tract that housed facilities associated with the Warren Water Works on the east bank and the Ohio Edison (electrical) Plant on the west bank of the Mahoning River. Now, most of the buildings associated with both plants have either been demolished or heavily compromised.

45. Sources of Information
Hardlines Design. Inventory of Low Head Dams on the Mahoning River. U.S. Army Corps of Engineers, 2004.
Sanborn Map Company. Fire Insurance Maps of Warren 1884, 1889, 1893, 1907, 1922, 1950.
U.S. Army Corps of Engineers. Survey Maps of the Mahoning River. 1933, 1937.



46. Prepared by
Roy A. Hampton III

47. Organization
Hardlines Design/USACE Pittsburgh

48. Date Recorded in Field
February 18, 2004

49. Revised by 50a. Date Revised

50b. Reviewed by

1. No. TRU-2742-17
2. County Trumbull
4.5. Present or Historic Name Warren Water Works Dam
6. Specific Address or Location Mahoning River Mile 40.03 at Summit and Mahoning Aves.

51. Condition of Property

- Excellent
- Good/Fair
- Deteriorated
- Ruin
- Destroyed/Burned Date _____

52. Historic Outbuildings and Dependencies

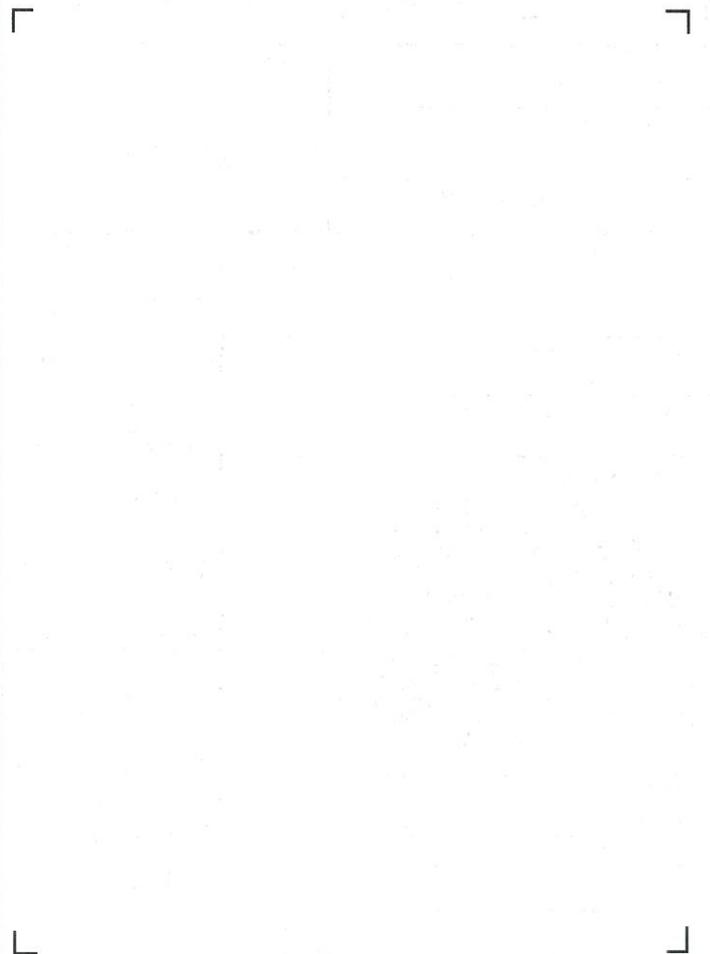
Barn Type(s)

- Corn Crib or Shed
- Summer Kitchen
- Silo
- Designed landscape features
- Smoke House
- Spring House
- Ice House
- Privy
- Garage

53. Affiliated OAI Site Number(s)

Archeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan



42. (Cont'd)

The screen house has red common bond brick walls, corbelled brick cornices, concrete copings, a flat roof, and a series of steel industrial windows. North of the screen house lies a large concrete basin. Other ruins of large concrete basins that appear to have been associated with a large Ohio Edison plant that used to occupy part of the site are visible, but many of the basins are in the process of being demolished. A former city water works site on the east bank of the river above the dam is composed of a gravel parking lot and a large brick building that formerly served as the filtration house for Warren's Water Works. This one story flat roofed brick building has some geometrical brick and stone decorations on its Mahoning Avenue facade. However, the building's windows have been bricked in and one large structural bay on the Mahoning Avenue facade has been removed and replaced with a plain wall of concrete block.

43. (Cont'd)

generation of electricity at the site by the Warren Electric Service Company and later the Trumbull Public Service Company. In 1920, the water works was acquired by the City of Warren, after it had previously been owned by a private utility company. The electrical plant on the west bank of the river continued to expand through the 1920s-1940s, and was owned by Ohio Edison by 1950. The dam now does not appear to be in use, and almost all buildings associated with the Ohio Edison Plant have been demolished. On the east bank, the only remnant of the water plant is the remaining 1915-1922 Filtration Building, which has been heavily altered and has a very compromised level of integrity. Overall, the site contains an intact concrete dam that appears to date from the late 19th or early 20th century, the ca. 1902 hydroelectric spillway, and the ca. 1922-1950 brick masonry screen house building.

51. Condition of Property

- Excellent
 Good/Fair
 Deteriorated
 Ruin
 Destroyed/Burned Date _____

52. Historic Outbuildings and Dependencies

Barn Type(s)

- Corn Crib or Shed Smoke House Privy
 Summer Kitchen Spring House Garage
 Silo Ice House
 Designed landscape features

53. Affiliated OAI Site Number(s)

Archeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan

Blank area for Farmstead Plan with corner brackets.

42. (Cont'd)

43. (Cont'd)