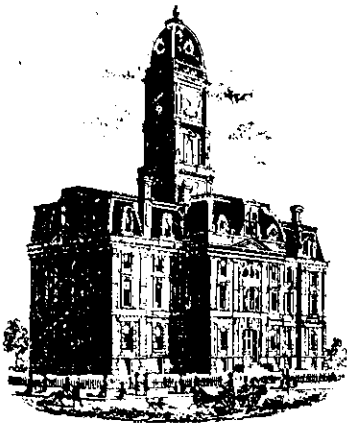


Drain: HENRY EBBERT **Drain #:** 75
Improvement/Arm: RECONSTRUCTION
Operator: J. LIVINGSTON **Date:** 12-8-03
Drain Classification: Urban/Rural **Year Installed:** 2001

GIS Drain Input Checklist

- Pull Source Documents for Scanning JLJ
- Digitize & Attribute Tile Drains n/a
- Digitize & Attribute Storm Drains n/a
- Digitize & Attribute SSD n/a
- Digitize & Attribute Open Ditch n/a
- Stamp Plans JLJ
- Sum drain lengths & Validate n/a
- Enter Improvements into Posse SLM 2-28-03
- Enter Drain Age into Posse n/a
- Sum drain length for Watershed in Posse n/a
- Check Database entries for errors n/a



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 188

One Hamilton County Square

Noblesville, Indiana 46060-2230

September 5, 2001

To: Hamilton County Drainage Board

Re: Henry Ebbert Drain # 75— Reconstruction

Attached are plans, specifications, drain map, drainage-shed map, and schedule of assessments for the reconstruction of the Henry Ebbert Drain.

The Henry Ebbert Drain was originally petitioned in 1882 as the Aaron Laudig & James W. Wheeler drain. In 1903 the drain was constructed as the Henry Ebbert Drain and was petitioned again in 1935 for repairs. The drain was placed on maintenance in 1972 and consists of 4,540 feet of tile and 1,210 feet of open drain.

Current assessments:

Acre	Lot				2001	True	
Rate	Rate	Minimum	Acres	Lots	Annual	Maintenance	Reconst.
					Assessment	Balance	Balance
1.00	0.00	3.00	456.98	0	524.96	(1,842.22)	0.00

10 Year Workorder History:

<u>Workorder #</u>	<u>Year</u>	<u>Cost</u>
91-081	1991	796.46
91-085	1991	cost included in workorder # 91-081
93-138	1993	194.00
93-209	1993	228.00
93-263	1993	1,195.40
94-060	1994	231.50
94-084	1994	853.20
94-124	1994	4,091.50
95-116	1995	367.00
96-078	1996	492.20
97-048	1997	314.00
98-192	1998	763.00

Total = \$9,526.26

Average Cost = \$ 866.02

Inspection:

On February 20, 2001 an inspection was made of the Henry Ebbert Drain from its outlet south of 136th Street and East of Promise Road to its intersection with Sand Creek.

- The drain needs cleared. There are many small trees, and a few large nice trees. Per the property owners along the drain the Eastside should be cleared.
- Fences exist along this reach, two parallel and two perpendicular.
- There is an Indiana Gas Pipeline crossing the drain. (See Plan & Profile for location and depth.)
- There are three CMP Crossings. All appear to be in good condition.
- The ditch needs dredged from the outlet downstream approximately 755 feet. (Northside of first crossing)
- Two outlet pipes are needed. The main tile and a 6" private tile.
- Flowline obstructions exist downstream. (trash, debris, trees, etc.)

Cost Estimate:

Dredging	755 feet	@ \$6.00 per ft.	\$ 4,530.00
Clearing	approx. 2 ½ acres	@ \$5,000 per acre	\$12,500.00
18" CMP outlet	20 ft.	@ \$20.00 per ft.	\$ 400.00
6" CMP outlet	20 ft.	@ \$12.00 per ft.	\$ 240.00
Fence repair	Lump Sum	@ \$1,000.00	\$ 1,000.00
Seeding	approx. 3 acres	@ \$1,000.00 per acre	\$ 3,000.00
Rip Rap	22 Ton	@ \$25.00 per ton	\$ 550.00
Silt Basin	Lump Sum	@ \$200.00 each	\$ 200.00
		Sub Total =	\$22,420.00
		15% contingency	\$ 3,363.00
Total =			\$25,783.00

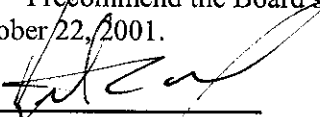
I have reviewed the drainage shed for the Henry Ebbert Drain and upon considering each parcel, I recommend the Board consider increasing the assessment rate for this drain to the following:

1. Maintenance assessment for roads and streets be set at \$10.00 per acre.
2. Maintenance assessment for agricultural tracts to increase to ^{1.50} ~~\$3.00~~ per acre-the minimum should increase from \$3.00 to \$15.00 minimum.
3. Maintenance assessment for non-platted residential tracts be set at ^{1.50} ~~\$3.00~~ per acre with an increase to a \$15.00 minimum.
4. Maintenance assessment for future commercial, multifamily residential, and institutional tracts be set at \$10.00 per acre with a \$50.00 minimum.
5. Maintenance assessment for future platted lots in subdivisions whose drainage systems will not be part of the regulated drain shall be set at \$35.00 per lot/minimum. Common areas within non-regulated drain subdivisions shall be assessed at \$5.00 per acre with a \$35.00 minimum.
6. Maintenance assessment for platted lots within a subdivision whose drainage system will be part of the regulated drain shall be set at \$65.00 per lot/minimum. Common areas within regulated drain subdivisions shall be set at \$10.00 per acre with a \$65.00 minimum.

This would create an annual maintenance assessment of \$1,625.00. Although the proposed assessment is more than the average annual assessment I recommend the new assessment for four reasons. First the drain has not been on the spray program in the past due to the heavy overgrowth. After reconstruction the drain will be placed on the program in order to manage vegetation. Second, the drain is currently \$1,842.22 in the red and needs to be taken out of the red and a positive balance established. Third, the drainage shed is in the area that will be gaining development pressure. The town of Fishers has now annexed within 600 feet of the drain and will be moving further north into this drainage shed. Fourth, this area will be falling under the proposed Stormwater Phase II rules if not in 2003 it will be soon based on the rate of development within the area.

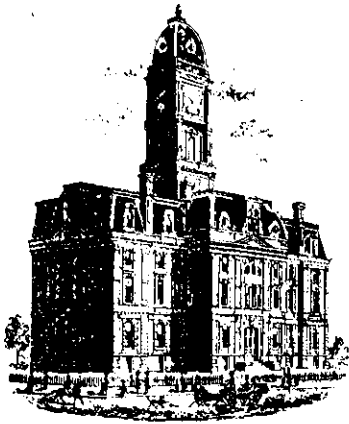
Upon review of the drainage shed for the proposed reconstruction, and upon considering each parcel individually, I believe that each parcel within the drainage shed will have equal benefits for reconstruction as provided by the drain. Therefore, I recommend each tract be assessed on the same basis equally. I also believe that no damages will result to landowners by the reconstruction of this drain. I recommend a reconstruction assessment of \$56.42 per acre with a minimum assessment of \$21.48.

I recommend the Board set a hearing for this proposed reconstruction and maintenance project for October 22, 2001.



Kenton C. Ward
Hamilton County Surveyor

KCW/sab



SURVEYOR'S OFFICE

Hamilton County

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 Phone (317) 776-8495
 Fax (317) 776-9628

Suite 188
 One Hamilton County Square
 Noblesville, Indiana 46060-2230
 November 13, 2001

To: Hamilton County Drainage Board
 Re: Revised Report

Henry Ebbert Drain # 75- Reconstruction

Current Assessments:

Acre	Lot				2001	True	
<u>Rate</u>	<u>Rate</u>	<u>Minimum</u>	<u>Acres</u>	<u>Lots</u>	<u>Annual</u>	<u>Maintenance</u>	<u>Reconst.</u>
					<u>Assessment</u>	<u>Balance</u>	<u>Balance</u>
1.00	0.00	3.00	456.98	0	524.96	(1,842.22)	0.00

10 Year Workorder History:

10 Year Costs: \$9526.26
 Minus Road Crossing: \$4091.50
 \$5434.76
 ÷ 10
 Revised Annual Cost \$543.48

Current Balance:

(\$1,842.22) Balance
 \$4,091.50 Highway Special Assessment
 \$2249.28 Balance after Highway Special Assessment

Proposed Maintenance Assessment:

- Maintenance assessment for agricultural tracts to increase to \$3.00 per acre- the minimum should increase from \$3.00 to \$15.00 minimum.
- Maintenance assessment for non-platted residential tracts be set at \$3.00 per acre with an increase to a \$15.00 minimum.

Optional Rates:

\$1/\$15 min = \$929.14
\$1.5/\$15 min = \$1,085.10 (Recommended)
\$2/\$15 min = \$1,256.70

Assessment Cutoffs:

Existing	\$524.96 x 4 =	\$2,099.84
Proposed	\$1625.00 x 4 =	\$6500.00
Optional	\$1256.70 x 4 =	\$5,026.80
Optional	\$929.14 x 4 =	\$3,716.56
Optional	\$1085.10 x 4 =	\$4340.40

Minimum Reconstruction:

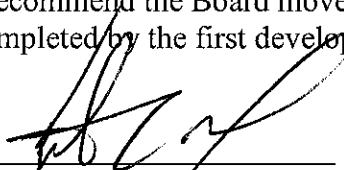
Dredging	755ft at \$6.00 per ft.	\$ 4,530.00
Clearing	1 acre at \$5,000 per acre	\$ 5,000.00
18" CMP	20ft at \$20.00 per ft.	\$ 400.00
Rip Rap	22 ton at \$25.00 per ton	\$ 550.00
Silt Basin	Lump Sum at \$200.00	\$ 200.00
Seeding	1 acre at \$1,000	<u>\$ 1,000.00</u>
Total		\$11,680.00
15% Contingency		<u>\$ 1,752.00</u>
Total		\$13,432.00
		29.50/Acre, \$21.48 min

Proposed Reconstruction:

Total \$25,783.00
\$ 56.42 acre
\$ 21.48 minimum

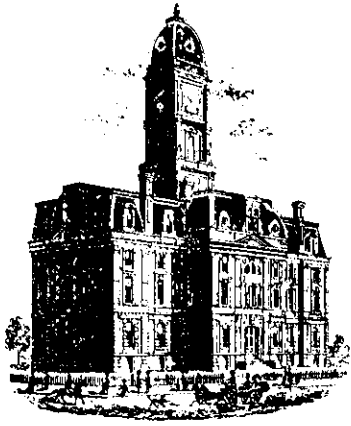
Note- By keeping the minimum at \$21.48 only two tracts are below \$29.50, both are the Lowery Cemetery. The total difference of bring the tracts to a \$29.50 minimum is \$8.18.

I recommend the Board move that the remainder of the proposed reconstruction be completed by the first development to be built within the drainage shed.



Kenton C. Ward
Hamilton County Surveyor

KCW/mkh



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Hamilton County

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Suite 188

*One Hamilton County Square
Noblesville, Indiana 46060-2230*

*approved
FEB 24, 03*

TO: Hamilton County Drainage Board

February 3, 2003

RE: Henry Ebbert Drain # 75
Final Report - 2002 Reconstruction

The Hamilton County Surveyor's Office has completed the inspection of the Henry Ebbert drain reconstruction by Van Horn Excavating. At this time the work has been found to be complete and acceptable.

The Surveyor's original reconstruction report dated September 5, 2001 was not approved as presented at hearing by the Drainage Board on October 22, 2001. Estimated Cost per the September 5, 2001 report was \$25,783.00. The reconstruction was requested to be downsized by the board and new costs be presented at the November 13, 2001 meeting. The Surveyor presented a revised report with a minimum reconstruction cost of \$13,432.00 at the November 13, 2001 meeting which was approved. The contract was awarded to Van Horn Excavating on January 28, 2002 with a bid amount of \$9,500.00.

The reconstruction project consisted of the clearing of woody vegetation along the open portion of drain, 755 feet of channel excavation, flow line obstruction removal from limits of excavation to Sand Creek, outlet replacement and restoration, burial of assorted construction debris, installation of tile outlets, armoring and seeding.

The As-built drawings have been completed and are included with the final report.

During construction a 6" private tile not indicated on the original plan design was discovered along the east bank at Sta. 2+60. The extension of this tile to the open drain and the additional clearing required was approved on July 22, 2002 by the board as Change Order # 1, in the amount of \$700.00.

The following is a breakdown of the Henry Ebbert Drain reconstruction costs.

Contractor's Bid	\$ 9,500.00
Change Orders	\$ 700.00
Total Reconstruction Costs	\$10,200.00

The following is a breakdown of the claim payments paid to Van Horn Excavating for the reconstruction project.

Claim #1	Van Horn Excavating Invoices 4805 and 4806 Includes Change Order #1 Approved by board on July 22, 2002 Paid: August 27, 2002 Check Number: 217101	\$ 9,700.00
Claim #2	Retainage Invoice 4857 Approved by board on December 9, 2002 Paid: January 14, 2003 Check Number: 2004595	\$ 500.00
Total Paid:		<u>\$10,200.00</u>

The Surveyor's Office received from Van Horn Excavating on November 1, 2002 the County's Form E-1 from the reconstruction contract per IC 36-9-27-82(b). The form stated that all expenses incurred for labor and materials on the Henry Ebbert drain reconstruction project have been paid in full by Van Horn Excavating.

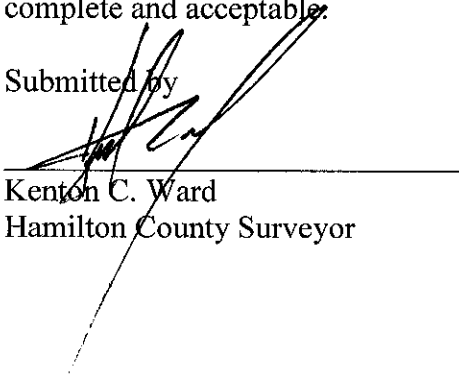
Reconstruction Cost Estimate	\$13,432.00
Total Contract Cost	<u>\$10,200.00</u>
Unexpended balance in reconstruction fund	\$ 3,232.00

Van Horn Excavating did not post a surety for the reconstruction project. Instead the Board received a letter from Wells Fargo Bank in Rochester, Indiana, stating Van Horn Excavating had a \$100,000.00 line of credit with the bank and as of September 26, 2002 had an available balance of \$80,000.00. Therefore, no surety needs to be released.

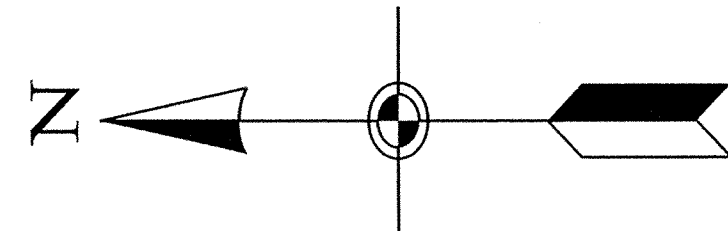
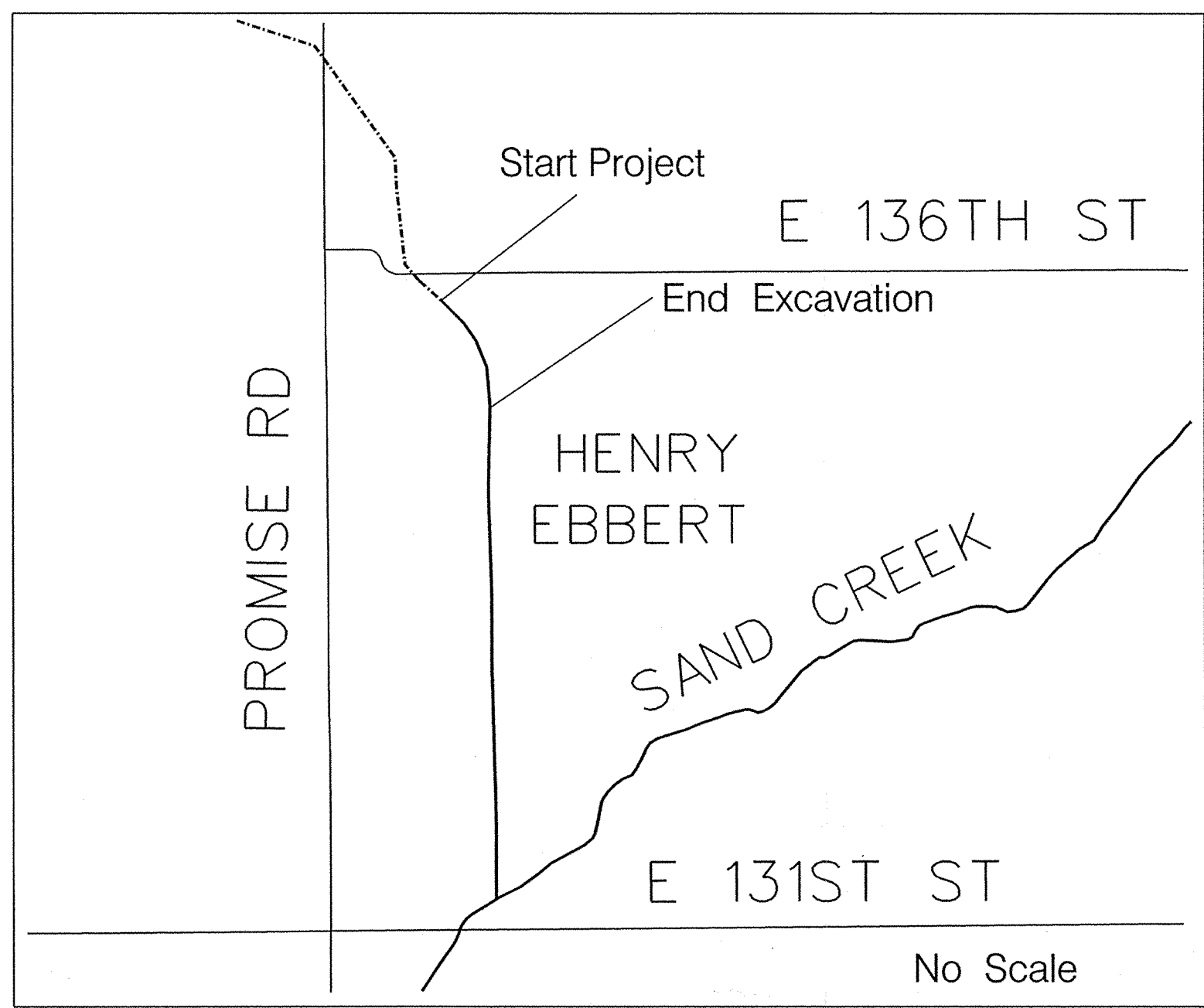
The current maintenance fund balance for the Henry Ebbert Drain is in the red \$877.39. The current balance does not reflect the 2002 Fall Settlement which the Auditor's Office has not posted to the Henry Ebbert Drain fund as of this date due to software problems in the Treasurer's Office. The annual drain assessment is \$1,085.10. The Surveyor's Office recommends the Board place the unused reconstruction funds in the maintenance fund for this drain per IC 36-9-27-85(a).

The Surveyor's Office recommends the Board approve the reconstruction of this drain as complete and acceptable.

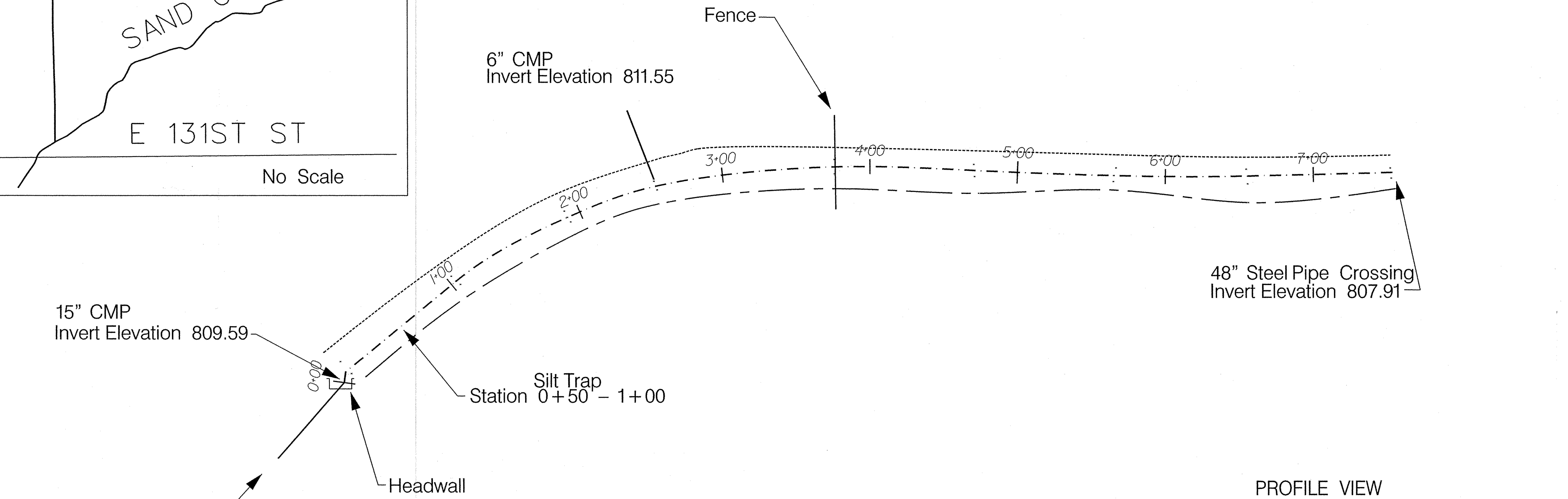
Submitted by



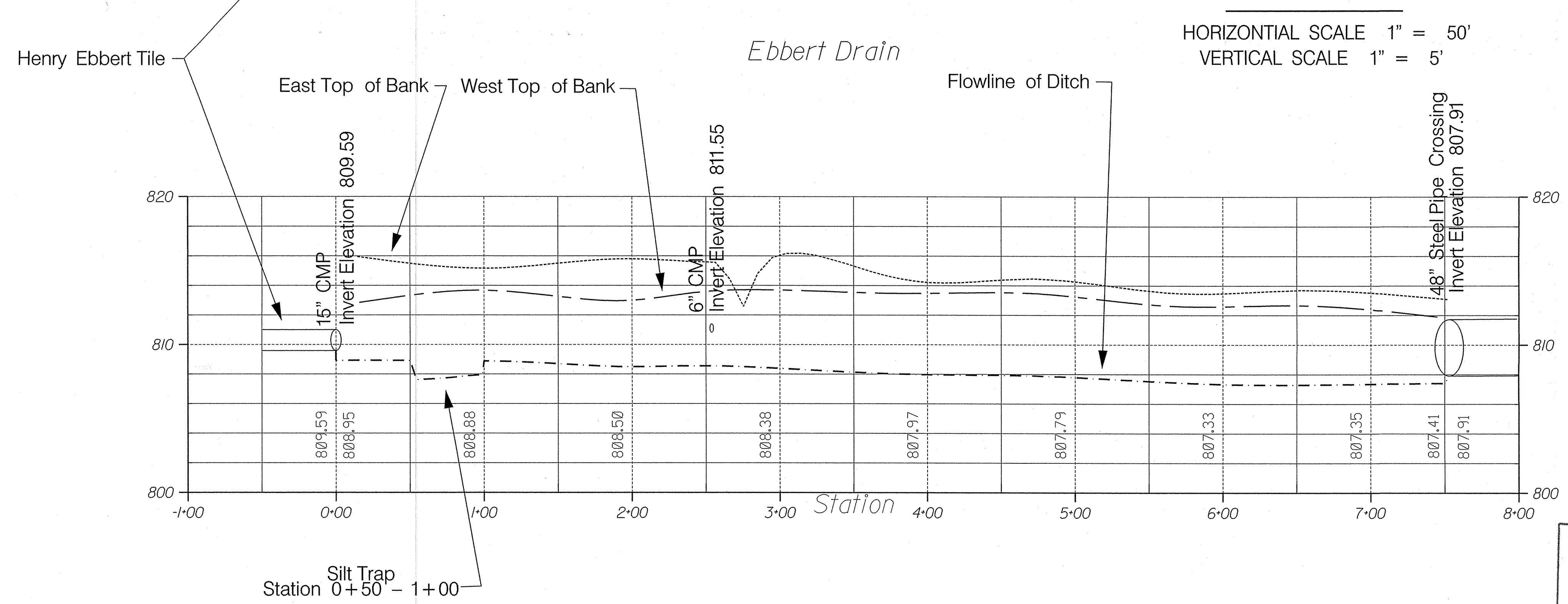
Kenton C. Ward
Hamilton County Surveyor



PLAN VIEW
SCALE 1" = 50'

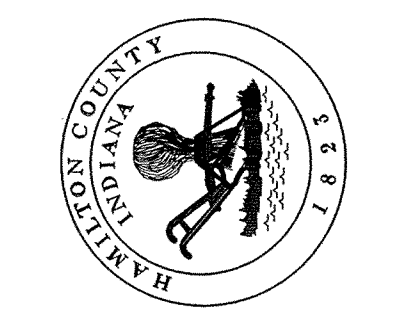


PROFILE VIEW
HORIZONTAL SCALE 1" = 50'
VERTICAL SCALE 1" = 5'



This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
Entry Date: 12-8-03
Entered by: [Signature]

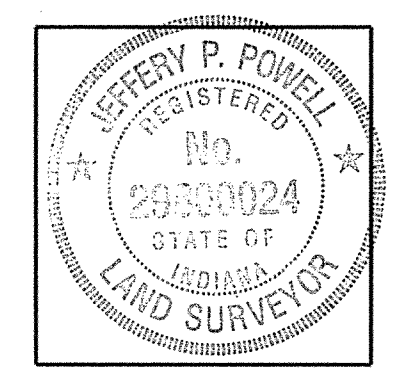
HAMILTON COUNTY, INDIANA
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(317) 778-8495
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Project No:	
Watershed No:	
Dgn Name:	Ebbert.dgn
Field By:	RAE
Drawn By:	RAE
Checked By:	
Date:	2/4/03

By:	
Date:	

Revisions:	
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Certified By:
[Signature]

Project Name:
Ebbert As-built
Overall Plan Sheet
PLOT DATE: 02/19/03

SHEET NO.
1 of 1