

Drain: ATLANTA DRAIN
Improvement: _____
Operator: J. LIVINGSTON
Date: 10-7-03

GIS Drain Input Checklist

- Digitize & Attribute Tile Drains 10-7-03
- Digitize & Attribute Storm Drains N/A
- Digitize & Attribute SSD N/A
- Digitize & Attribute Open Ditch 10-7-03
- Sum drain lengths & Validate 10-7-03
- Enter Improvements into Posse 10-8-03
- Enter Drain Age into Posse 10-7-03
- Sum drain length for Watershed in Posse 10-8-03
- Stamp Plans 10-7-03
- Pull Source Documents for Scanning 10-7-03

Rc'd - summary only SLW 11-21-2003 ✓

**Gasb 34 Footages for Historical Cost
Drain Length Log**

Drain-Improvement: ATLANTA DRAIN, ARM 1, ARM 1 OF ARM 1

Drain Type:	Size:	Length (Source Docs)	Length (Query)	Length Reconcile	If Applicable	
					Price:	Cost:
ARM 1 OF ARM 1						
10" CLAY TILE	10"	7'	7'			
ARM 1						
CLAY TILE	18"	850'	850'			
CONCRETE TILE	18"	567'	567'			
OPEN DITCH	—	120'	120'			
MAIN						
OPEN DITCH	—	2440'	2440'			
JET TILE	18"	850'				
DREDGE OPEN DITCH		2560'			NOT INCLUDED IN DRAIN LENGTH SUM TWICE	

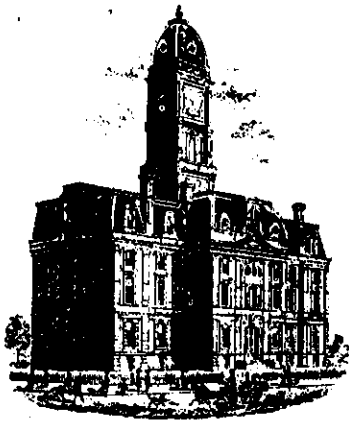
Sum: 3984'
3984'

Final Report: _____

Source Document Log
Source Document Discrepancy Log

Drain: ATLANTA DRAIN

Main/Arm Name	Document Name	Document ID	Info From Document	If Applicable	
				Document w/ Discrepancy	Description of Discrepancy
MAIN	SURVEYOR'S REPORT	1-4-1996			
	SURVEYOR'S REPORT	8-2-1993			
	ASBUILTS	12-8-1995			
ARM 1	"	"			
	"	"			
	"	"			



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

January 4, 1996

TO: Hamilton County Drainage Board

RE: Atlanta Drain

I recently found that the final report for the Atlanta Drain had not been submitted. The reconstruction was done by John Ward Construction Company under contract dated July 15, 1994. The contract amount was \$33,530.00. The estimate for the work was \$36,951 per my reports dated August 2, 1993, February 24, 1994 and April 15, 1994.

During construction, changes were made to the drain which will alter the plans submitted with my report for this drain dated August 2, 1993. The changes are as follows:

The following list of items have been installed per the contractual agreement between the Hamilton County Drainage Board and John Ward Construction Company. This work was ordered during the Hamilton County Drainage Board meeting October 24, 1994. The

following prices do include installation:

A. 100' of 18" Concrete Tile-in lieu of Open ditch	\$1,300.00
B. Reset CMP outlet pipe	200.00
C. 100 Tons of # Stone	950.00
D. Grading Dirt	300.00

Total Change Order Amount \$2,750.00

Note: All fill dirt was provided via the Hamilton County Highway

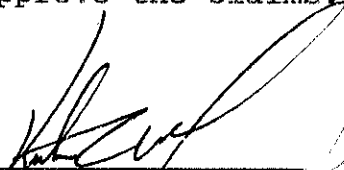
Department at the request of the Board, at no cost to the contract.

The total measured length of the drain due to the changes described above is now 3,984 feet.

The total cost of the project with the contract prices and the change order is \$36,280.00, below the estimate of \$36,951.00. The payments to the Contractor are as follows:

<u>Claim Date:</u>	<u>Claim Number:</u>	<u>Claim Amount:</u>
10/31/94	94-470	\$28,500.50
10/31/94	94-471	2,337.50
12/5/94	94-516	5,442.00

I recommend the Board accept the drain as complete and acceptable and approve the claims.



Kenton C. Ward
Hamilton County Surveyor
KCW/no



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor Suite 146
 776-8495 One Hamilton County Square
 Noblesville, Indiana 46060-2230

TO: Hamilton County Drainage Board

RE: Atlanta DRAIN

I recently found that the final reports for the Drain had not been submitted. The reconstruction was done by JOHN WARD Construction under contract dated 7-25-94. The contract amount was \$ 33,530.00. The estimate for the work was \$ 36,951⁰⁰ per my reports dated 8-2-93, Feb 24, 1994 and April 5, 1994.

During construction, changes were made to the drain which will alter the plans submitted with my report for this drain dated 8-2-93. The changes are as follows:

OVER →

The length of the drain due to the changes described above is now 3984 feet.

~~During construction of the drain there were not any significant changes made to the plan submitted with my report dated _____.~~ Therefore, the length of the drain remains at _____ feet.

The following list of items have been installed per the contractual agreement between the Hamilton County Drainage Board and John Ward Construction Co. This work was ordered during the Hamilton County Drainage Board meeting October 24, 1994. The following prices do include installation:

- | | |
|--|---------------|
| A. 100' of 18" concrete tile <i>INLIEV OF OPEN DRAIN</i> | \$1,300.00 |
| B. Reset CMP outlet pipe | 200.00 |
| C. 100 tons of # Stone | 950.00 |
| D. Grading Dirt | <u>300.00</u> |

Total Change Order Amnt: \$2,750.00

Note: All fill dirt was provided via the Hamilton County Highway Dept. at the request of the Board at no cost to the contract.

PL

The total cost of the project with the contract prices and the change order is \$ 36,280, below the estimate of \$ 36,951⁰⁰. The payments to the Contractor are as follows:

Claim # 94-470	10-31-94	\$ 28,500.50
Claim # 94-471	10-31-94	\$ 2,337.50
Claim # 3	12-5-94	\$ 5,442.00

The Board should approve the claims and accept the work as complete.

Kenton C. Ward
Hamilton County Surveyor



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

April 5, 1994

TO: Hamilton County Drainage Board

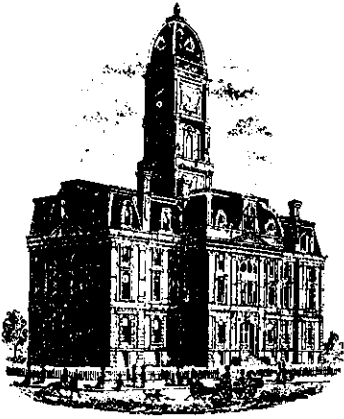
RE: Atlanta Drain

On March 7, 1994 a meeting was held in my office to discuss the funding options available for the construction of the proposed Atlanta Drain. Present at the meeting was Mr. Mel Kimsely and Chet Pfifer for the Town Board of Atlanta, Mr. William R. Karns, Drainage Board President and me. At this time the various options discussed in my letter to the Board on February 24, 1994 were reviewed. After much discussion it was decided, with all present agreeing, that option number (#7) seven would be the best solution to the situation. This option is as follows:

"Raise assessment 10% outside of Atlanta proper, which will amount to \$11,957.00. Add contribution from town (\$11,957.00 + \$13,000.00 = \$24,957.00) Assess town remainder of the total cost (\$36,951.00 - \$24,957.00 = \$11,994.00) equally per tract (\$11,994 divided by 124 = \$96.73 per tract). I do believe this will require a hearing.


Kenton C. Ward
Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE

Hamilton County

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Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

February 24, 1994

TO: Hamilton County Drainage Board

RE: Proposed Atlanta Drain

Upon review of the drain , I have suggested seven (7)
possible options:

- Option #1 Rescind approval, which would return the drainage system to the status of private drain and natural drain.
- Option #2 Rescind prior approval eliminating \$13,000.00 from project and approve assessment and plans as per my initial report dated August 2, 1993.
- Option #3 Delete portion of plan not required for improvement of eighteen (18") inch tile, which would reduce project as follows:

1 Filter Strip	\$	900.00
1672 ft Dredging		10032.00
1 Acre Clearing		1200.00
Bank Work		600.00
1 Silt Basin		250.00
1 Acre Seeding		900.00
	TOTAL	\$13,882.00 reduction

This would enable the \$13, 000.00 contribution from Atlanta to be the total cost of Atlanta's contribution. No property in Atlanta would be assessed and no increase would be required in assessment of others in drainage shed.

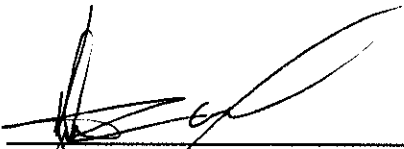
- Option #4 Leave project unchanged. Do not assess property owners in Atlanta and increase others in drainage shed from \$5.00 an acre, \$103.00 minimum to \$10.62 per acre,

\$215.50 minimum. This will require a new hearing.

Option #5 Do nothing, make no decision, leave the system as it is, Do not perform maintenance work or the reconstruction work and do not collect maintenance nor reconstruction funds.

Option #6 Take portion of project cost benefiting town-\$13,941.00, from total cost-\$36,951.00-\$13,941.00=\$23,010.00-multiply by percentage that the acreage in Atlanta represents the total-14.44% (23,010 x 0.1444=3,323.56) Add in balance not picked up by Atlanta (\$4,264.56 divide 124= \$34.40) Assess lots in Atlanta \$34.40 each, Increase remainder of drainage shed outside of Atlanta to make up the balance of the cost-\$19,685.40. This could be done by keeping the minimum at \$103.00 and raising the cost per acre to \$38.40 or raising both such \$22.87 per acre, \$150.00 minimum. This will require a new hearing.

Option #7 Raise assessments 10% outside of Atlanta, which will amount to \$11,957.00. Add contribution from town (11,957 +13,000=\$24,957.00) Assess town remainder of total cost (36,951.00-24,957=11,994.00) equally per tract (11,994 divide 124=\$96.73) I do ~~not~~ believe this will require a hearing.


Kenton C. Ward
Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

August 2, 1993

TO: Hamilton County Drainage Board

RE: Atlanta Drain

Attached are plans, drain map, drainage shed map and Schedule of Assessment for the Atlanta Drain construction. This drain was petitioned for by the Atlanta Town Council on March 20, 1992. I have reviewed the petition and found it to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable; will improve the public health; benefit a public highway and be of public utility; and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited.

This is the second attempt to create this drain as a regulated drain. In June 1958 the ~~the~~ Board of Trustees of the Town of Atlanta petitioned the Hamilton County Circuit Court for a drain. In September 1958 the court referred the petition to the Surveyor and Viewers and a report was filed in November 1959. The plan called for the replacement of the existing fifteen (15") inch with a new twenty-four (24") inch tile from Central Avenue to the outlet in the open ditch. The opened ditch would then be dredged to Leonard Road. The cost estimate for this work was \$12,212.00 and was to be assessed to those within the drainage shed at a rate of \$40.00 per lot and \$50.00 per acre. In December 1959 a hearing was held and at which several objection were filed. The hearing was continued and no further action taken until 1968 when the court dismissed the Petition for want of prosecution.

This drain again came up in July 1990 when the Hamilton County Board of Commissioners received a letter from the Atlanta Town Council outlining the problem and requesting the

Commissioners to clean out and tile the drain to Leonard Road. At that time it was referred to the Surveyor's Office for study. In January 1991 the open ditch was surveyed and fortunately the Bridge at Leonard Road was washed out by the New Years flood of 1991. This structure was included in the disaster aid funding through FEMA and in January 1992 final funding was approved and the structure was replaced by John Ward Excavation. This provided a benefit to the drainage shed due to the need to replace the structure as part of the proposed project. This cost was paid entirely through FEMA funds and will greatly reduce the cost of the project. Final cost of the replacement was \$8,136.36.

In January 1992 the Town Board sent a letter outlining flooding problems with the drain. Also that month I prepared a drain petition for the Town Board and sent it to them to sign and return. On February 17, 1992 I met with the Town Board and a group of landowners from the town and along the open ditch. Several items were discussed and I presented the findings of the drainage study along with options and estimated costs. It was a consensus by those not to enlarge the pipe size, although the additional capacity would help, due to the costs. The tile now serves as an overflow from the lift station. This at times allows untreated sanitary sewer effluent to collect in the open ditch where housing now exists. Therefore, the main purpose of the project is not only to improve drainage but also to extend the tile and eliminate a portion of the open ditch. (Also see letters from Atlanta Town Board date July 9, 1990 and January 8, 1992 and a letter from Denny Davis dated March 16, 1992)

In February 1992, I requested under IC 36-9-27-14 (d), that the Tipton County Drainage Board to waive representation of a Joint Board which was followed by a like request in April 1992 by William R. Karns, President of the Hamilton County Drainage Board. This request was made due to the fact that 100% of the drain length is in Hamilton County. On June 18, 1992 the Tipton County Drainage Board granted the request for waiver.

The project as proposed in this report consists of the extension of the existing eighteen (18") inch tile (old records list it as a 15", but our survey shows 18") 480 feet. The existing 18" tile across tract 02-01-00-00-003.00 owned by Joyce A. Cline will be located and cleaned out by jetting. The open ditch from the new outlet of the eighteen (18") inch tile to the main ditch and the main ditch from 296th Street to Big Cicero Creek shall be dredged. This open ditch has been known as the Losey, Atlanta or Henderson Drain in the past. However, per records in the Surveyors office this has not been nor is it now a regulated drain. The cost estimate for this work is as follows:

Locate, Jet and Clean existing tile	1000 LS	\$ 1000.00
Crush 18" tile	25 ft @\$1.00/ft	25.00
Remove Headwall	200 LS	200.00
48" Man Hole	1 @ 1500.00/ea	1500.00
18" Conc Tile	480ft @ 15.00/ft	7200.00
24" CMP	20ft @ 20.00/ft	400.00
24" Animal Guard	1 @ 85.00 each	85.00
8" CMP	20ft @ 10.00/ft	200.00
8" Animal Guard	1 @ 15.00 ea	15.00
Filter Strip	900 ft @ 1.00/ft	900.00
Reno Mattress	1 @ 1000 each	1000.00
Dredging	2336ft @ 6.00ft	14016.00
Clearing	2.0 ac @1200.00/ac	2400.00
Bank Work	200ft @ 3.00ft	600.00
Silt Basin	1 @ 250.00/ea	250.00
Seeding	3ac @ 600.00/ac	1800.00
Rip Rap	40 ton @ 50.00/ton	2000.00
	Sub Total	33591.00
	10% Contg	3360.00
	TOTAL	\$36,951.00

The new drain will consist of the following length:

10" Clay Tile	7 feet
18" Clay Tile	850 feet
18" Concrete Tile	480 feet
24" CMP	20 feet
Open Ditch Main	2440 feet
Open Ditch Arm	240 feet
TOTAL	4037 feet

Main Ditch

Begin at a point approximately 950 feet South and 550 feet East of the North East corner of Section 1, Township 20 North, Range 5 East, said point being the point of intersection of the existing open ditch with Big Cicero Creek. Thence running in a general North Westerly direction 700 feet to a point crossing Leonard Road approximately 670 feet South of the a fore mentioned corner; thence in a generally North Westerly direction 1740 feet following the existing open channel to a point approximately 1150 feet East of the a fore mentioned corner.

Arm #1

Begin at a point 619 feet South and 15 feet East of the northwest corner of the North East Quarter of Section 1,

Township 20 North, Range 5 East, thence, in a Easterly direction 850 feet in an existing 18" tile to a proposed manhole; thence continuing in a new 18" tile in a easterly direction along or near the top of the existing open ditch 450 feet; thence in the existing open ditch 240 feet in a general North Easterly direction terminating in the open main ditch.

Arm #1 of Arm #1

The 10" tile running Southwest 7 feet to the man hole at STA 0 of Arm #1.

On December 26-27, 1991 a field investigation was made of the existing storm sewer facilities in Atlanta. This was done by Mr. Jerry Liston, Inspector and Mr. Stephen Mosbaugh-Drainage Technician, both from the Surveyor's Office. As a result of this work a three (3) page report and reference map was submitted to the Town Council. Upon discussion with the Council since then, it was decided not to include work within the Town as part of this project.

As previously mentioned Tipton County has waived the right to a Joint Board. The John Rushton-Ann Losey-W.C. Kring Drains outlet into the main drain of the proposed Atlanta Drain at 296th Street. The landowners in the Tipton County Drainage Shed will also be assessed for the construction and maintenance of the Atlanta Drain.

Included in this project is the establishment of a filter strip along the farm fields beside the open drain. This filter strip will involve Tracts 02-01-00-00-005 owned by Warren and Roberta Jean Brown , Tract 02-01-00-00-005.002 Throgmartin, William H., and Tract 03-06-00-00-004.401 owned by Miller Carrie J. These filter strips shall be twenty-five (25') feet from Top of the Bank and shall conform to the requirements set out in TC 6-1.1-6.7.

In an effort to help reduce the assessment to landowners for the construction of the drain the Town Council of Atlanta has agreed to pay \$13,000.00 of the cost. (see letter date July 5, 1993)

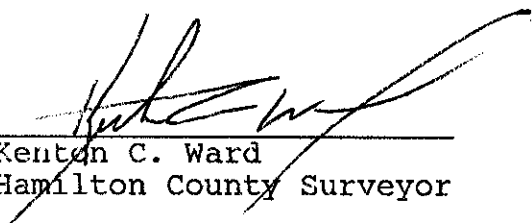
The remaining cost, \$23,951.00 shall be spread over the entire water shed. I have reviewed the plans and drainage shed and believe that each tract within the drainage shed will be benefited equally. I recommend that each tract be assessed at a rate of \$5.00 per acre, with a minimum of \$103.00 per tract/lot. With 155 Parcels in Hamilton County, \$28,251.00 will be assessed and with 83 Parcels in Tipton County, \$8,707.85 will be assessed. This will make the total assessment \$36,958.85, which includes the \$13,000.00 the Town Council of Atlanta agreed to pay. I do not believe any damages will result to properties with the drainage shed along the drains course by the reconstruction of this drain.

I have reviewed the plans and drainage shed and believe the drain will benefit each tract equally for the purposes of the maintenance assessment. Therefore, I recommend a maintenance assessment of \$2.00 per acre with a \$10.00 minimum. With 144.30 acres in the drainage shed from Hamilton County, the assessment will be \$1,683.80 annually. With 242.27 acres and 38 Lots in the drainage shed from Tipton County, the assessment will bring in \$1,118.12 annually. The combined annual assessment for the Atlanta Drain will be \$2,801.92 annually.

The maintenance work required in the future will be the repair of the tile, spraying brush, removal of obstructions in the tile and open channel, repair of erosion and any other work necessary, which will keep the drain in proper working order when and as needed.

Because the outlet for this drain is Big Cicero Creek, the owners of tract within the drainage for the Atlanta Drain are also within the drainage shed for Big Cicero Creek. Therefore, owners of tracts within this shed are also assessed for the reconstruction and maintenance of Big Cicero Creek.

I recommend the Board set a hearing for this proposed reconstruction at the meeting for September 1993.



Kenton C. Ward
Hamilton County Surveyor

PROJ. NO. _____ LINE _____

PAGE _____ OF _____

ATLANTA DRAIN ASBUILTS
12.8.95
J.W.
S.M.
S.M.

STA	+	HI	-	ELEV.
BM				857.22
BM	5.14	862.36		
BM			7.10	855.26
BM	7.76	863.02		
M.H. 2			10.26	852.76
OUTLET			14.41	848.6
OUTLET - E INTERSECTION			100'	
OUTLET TO M.H. 2				
M.H. 2 - M.H. 1				

PROJ. NO. _____ LINE _____


PAGE _____ OF _____

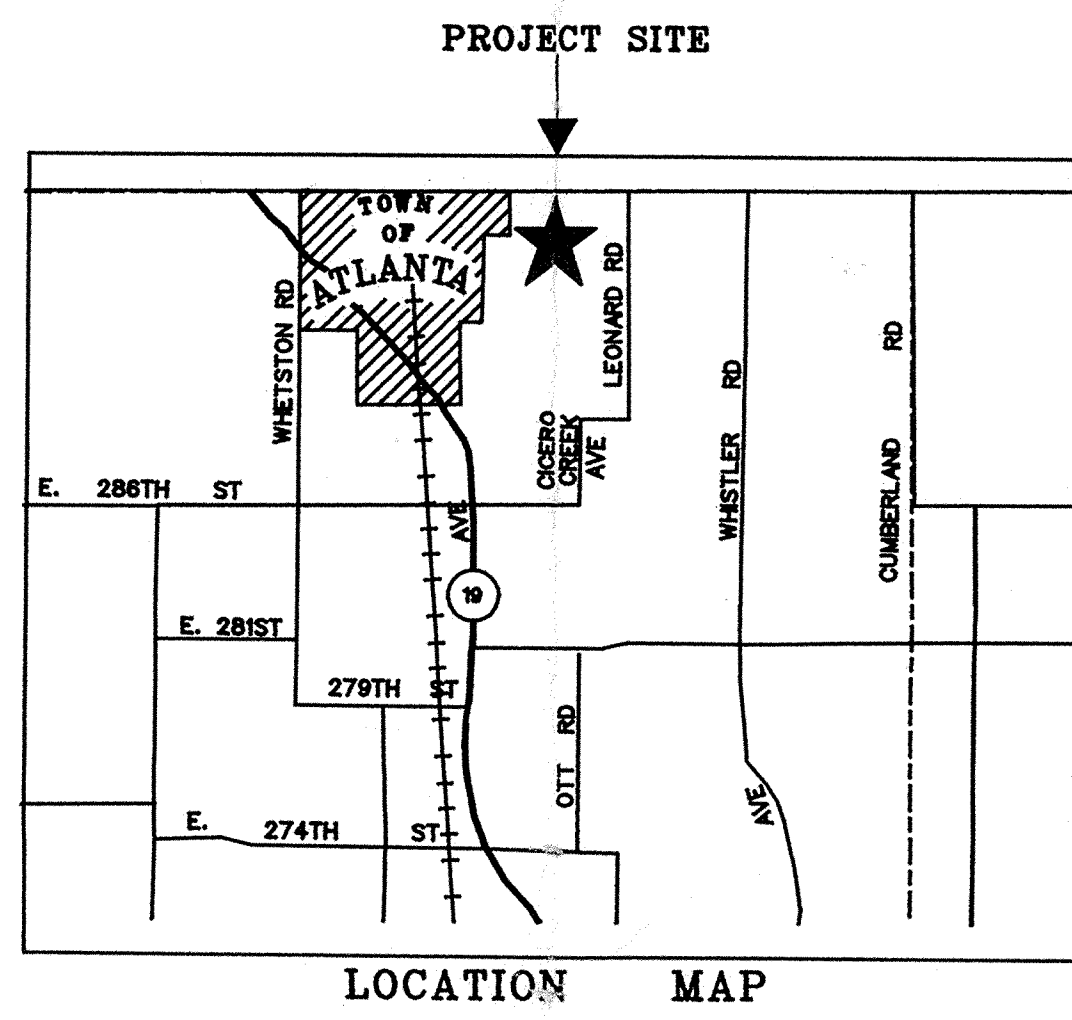
M.H. CENTRAL ST.

MEAS DOWN 4.1 M.H. INSTALLED @ BEGINNING
OF PROJECT INV. 850.86 # 1 M.H.

MEAS DOWN 3.57 INV. 249.19 # 2 M.H.

HAMILTON COUNTY SURVEYOR OFFICE


 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: 10-7-03
 Entered by: JWL



SHEET NO	I N D E X
1	Plan & Profile: Arm 1-Open Ditch
2	Plan & Profile: Main Open Ditch
3	Plan & Profile: Arm 1-Tile Drain
4	Cross Sections
4	Details



HAMILTON COUNTY SURVEYOR'S OFFICE

KENTON C. WARD

HAMILTON CO DRAINAGE BOARD

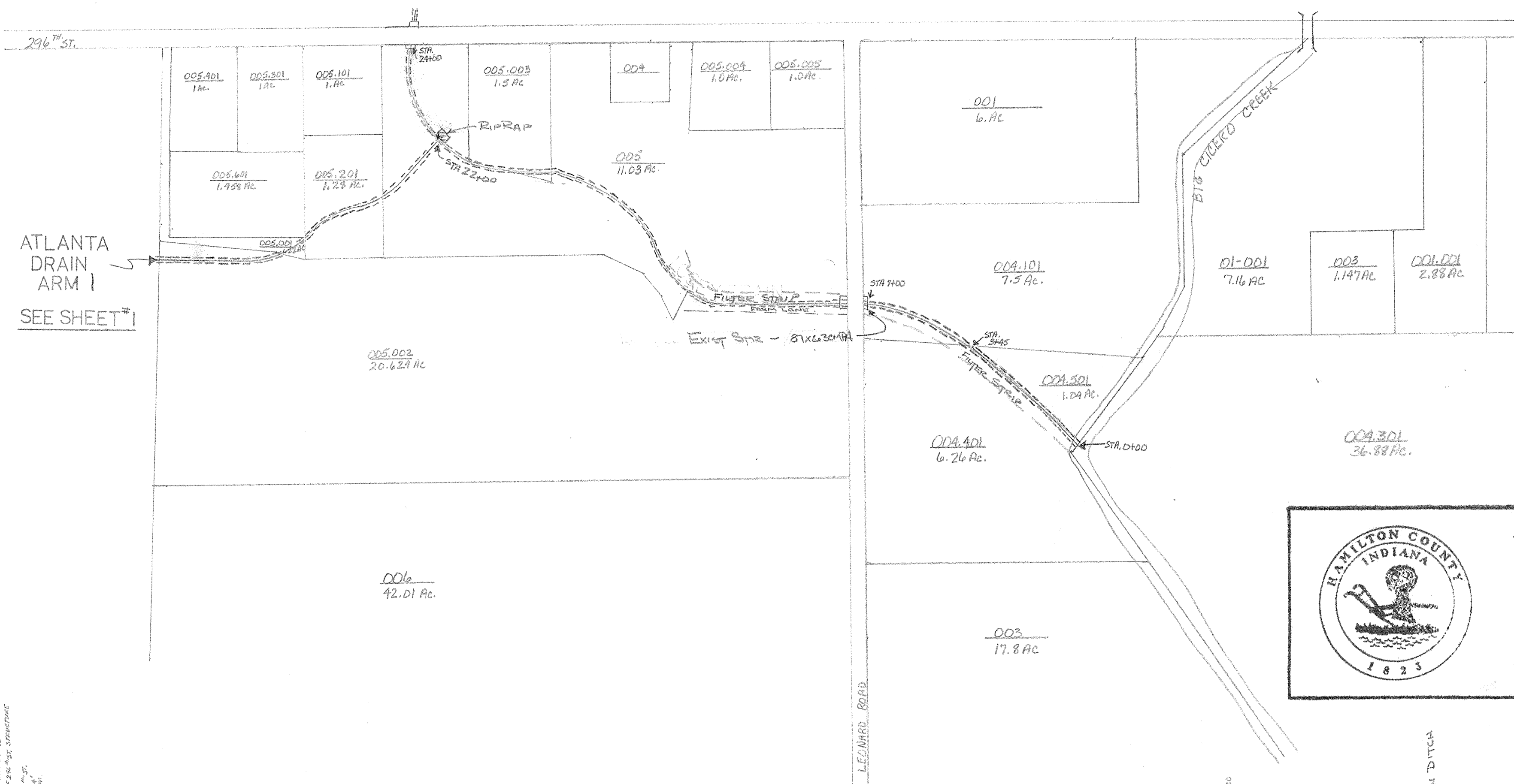
WILLIAM R. KARNS, PRESIDENT

STEVEN A. HOLT, MEMBER

STEVEN C. DILLINGER, MEMBER

ATLANTA DRAIN

Produced by the Hamilton County Surveyor's Office
November 1993 GIS Department



BENCHMARKS:

- BMHM03 - G.P.S. PT. - 296th ST. $\frac{1}{4}$ LEONARD RD.
- TBM 4 - NE CORNER HDWL. N. SIDE OF LEONARD Rd. ELEV. 842.84
- TBM 5 - PK. N.W. SIDE OF TREE S. SIDE OF DITCH ELEV. 841.04
- TBM 6 - 40' X 12' ELEV. PK. IN N. SIDE. 50' N.E. OF DITCH INTERSECTION
- TBM 7 - PK. P.W. S. SIDE OF 296th ST. ELEV. 859.62
- TBM 8 - Top of Stone Headwall over C of CLAY 12" TIE ELEV. 854.89

HAMILTON COUNTY INDIANA 1825

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: 10-7-03

Entered by: JUL

EAST ATLANTA DRAINAGE SHED - DRAIN

LEGEND

- Flowline (solid line)
- Top of Bank (dashed line)
- Open Drain Structure (rectangle)

1" = 200'

PLAN

DATE: _____ BY: _____

REVISIONS:

NO.	DATE	DESCRIPTION

NO. _____

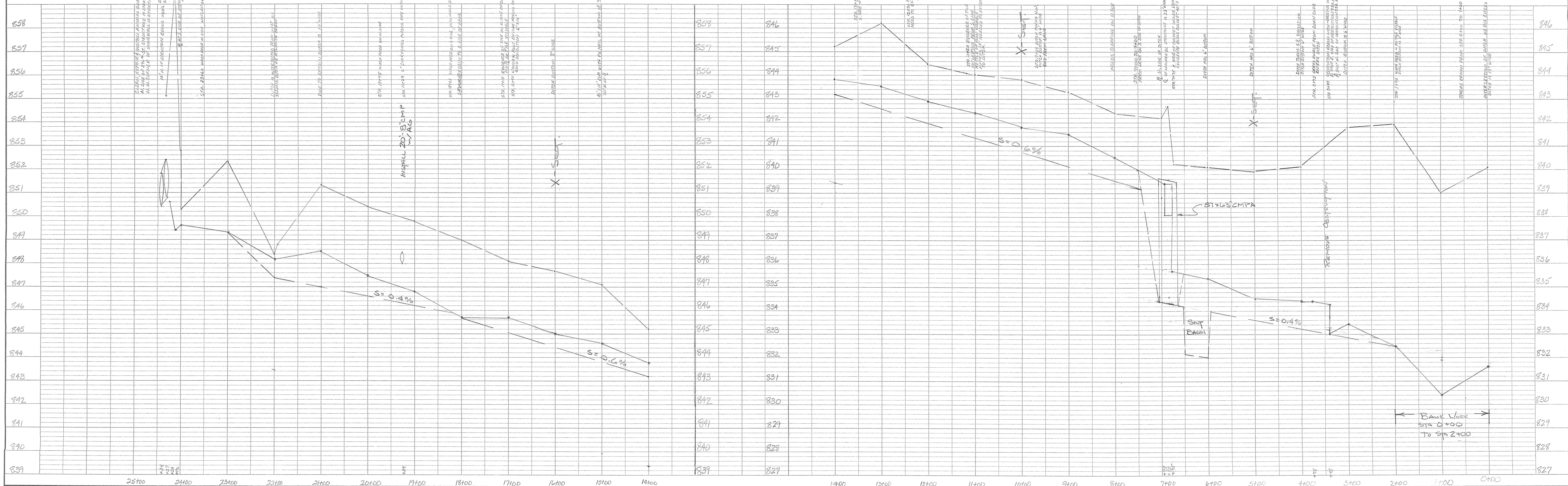
PROFILE

DATE: _____ BY: _____

REVISIONS:

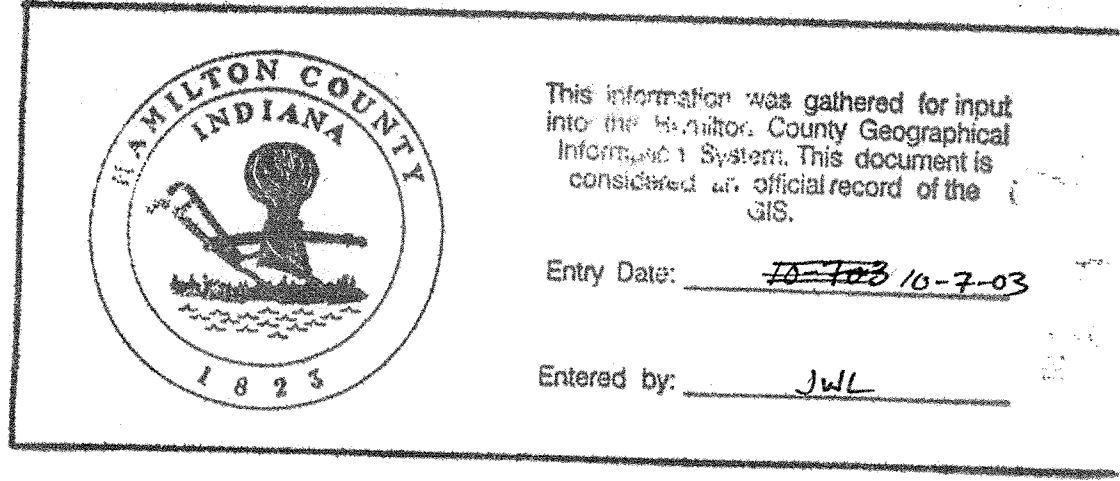
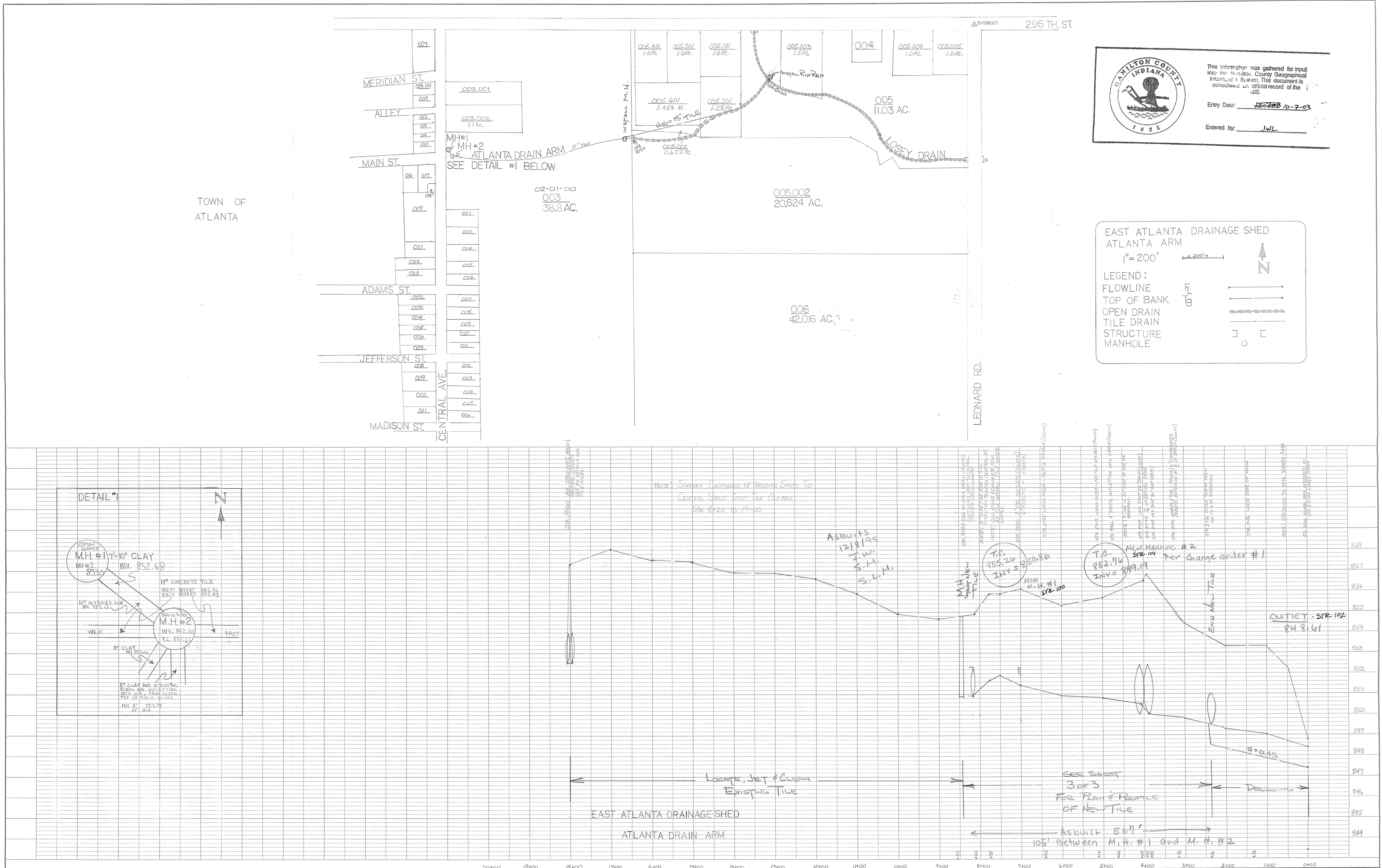
NO.	DATE	DESCRIPTION

NO. _____



PLAN
DATE: 11/19/03
DRAWN BY: J. J. [unreadable]
NOTED BY: J. J. [unreadable]
PLANNED BY: J. J. [unreadable]
REVISIONS:
NO.

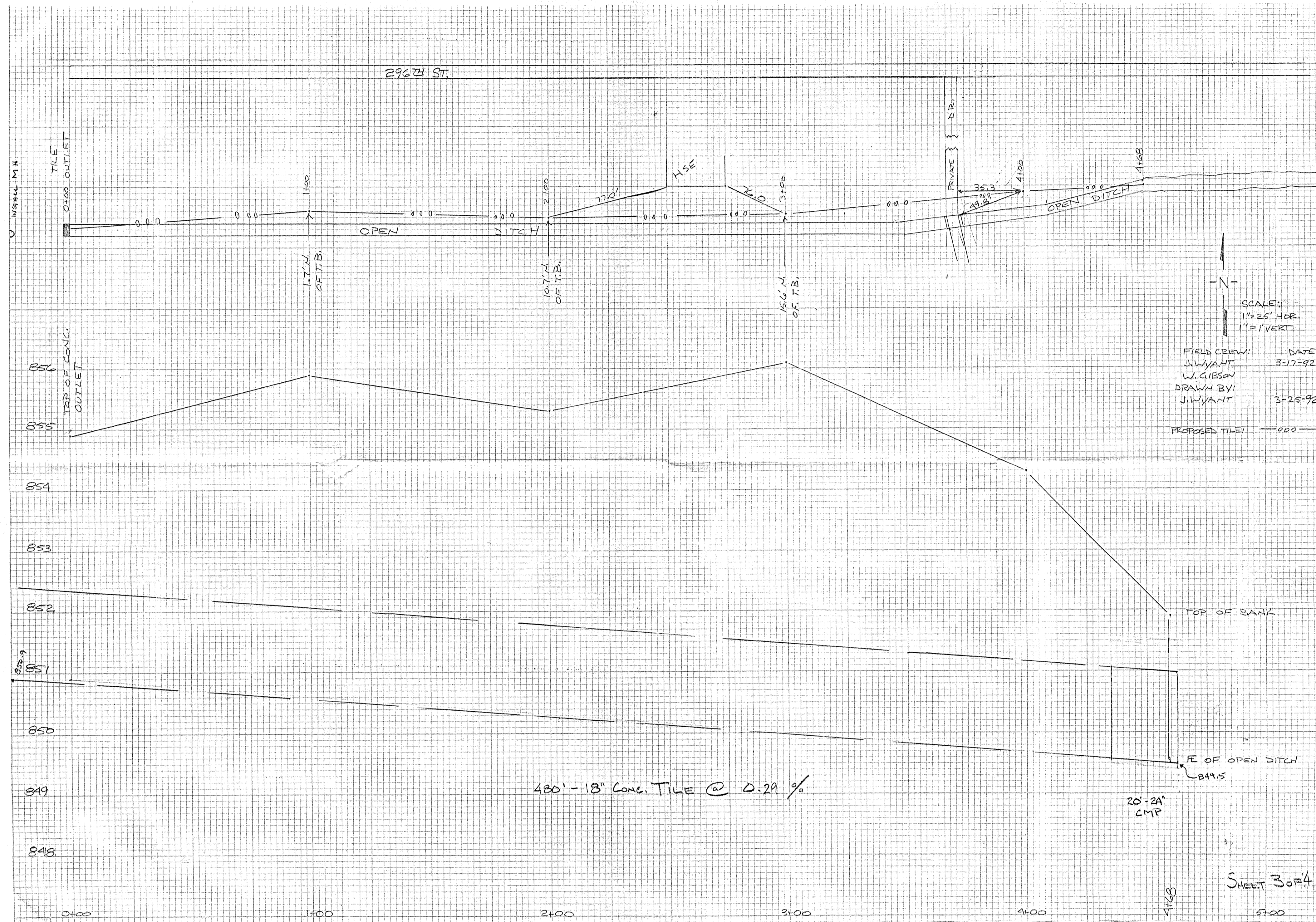
PROFILE
DATE:
DRAWN BY:
NOTED BY:
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REVISIONS:
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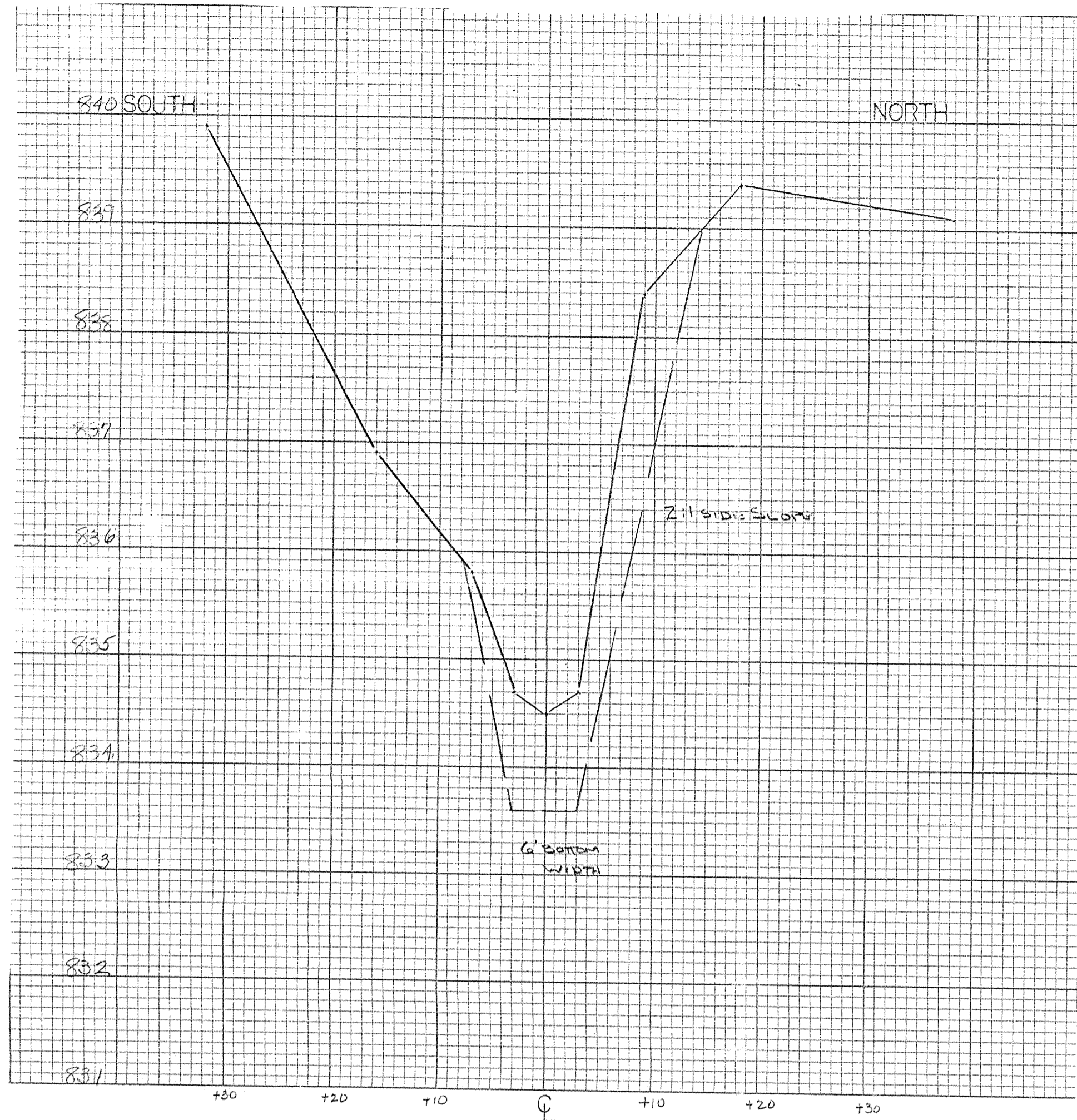
EAST ATLANTA DRAINAGE SHED
ATLANTA ARM

1" = 200'

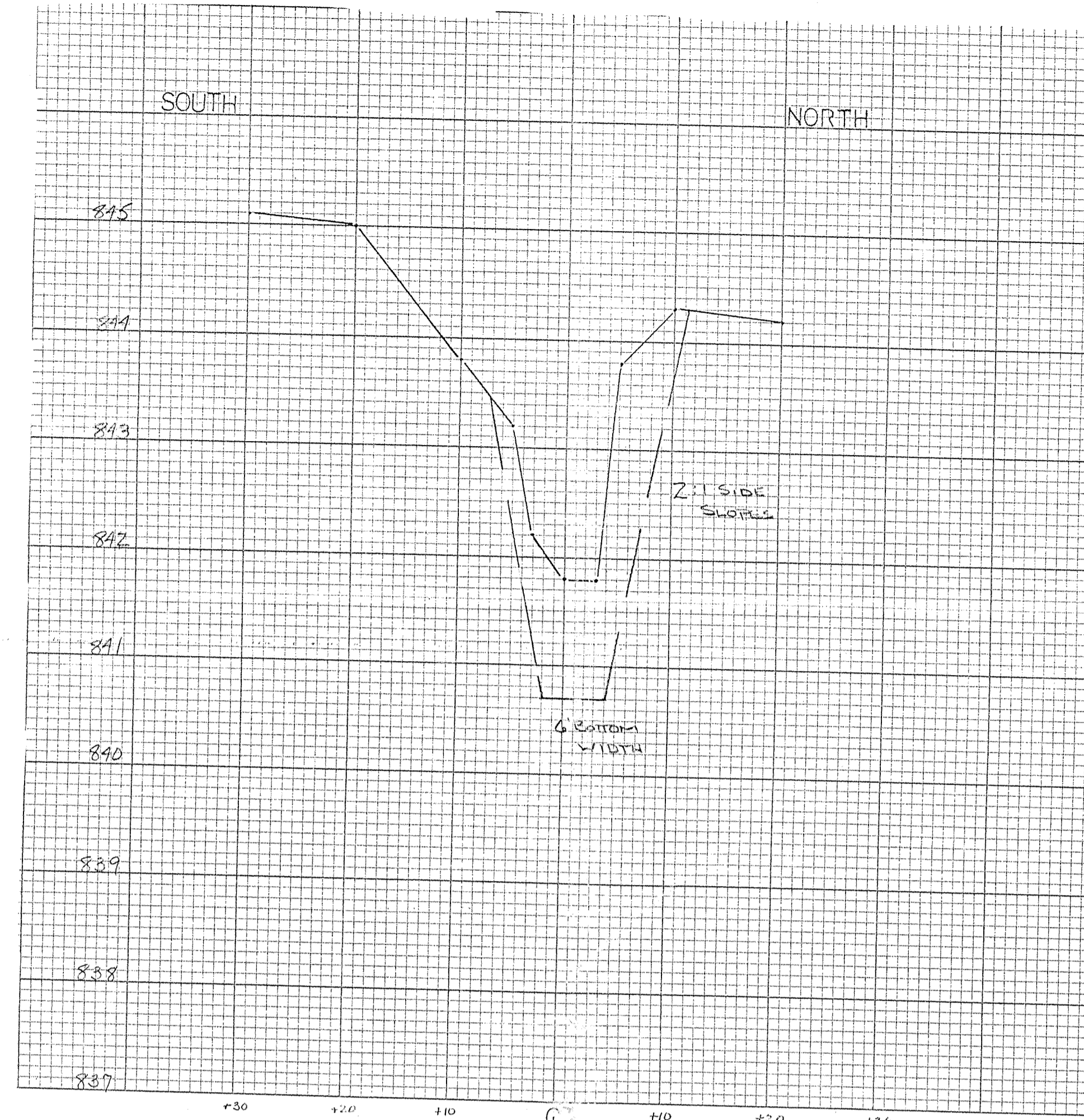
LEGEND:
 FLOWLINE
 TOP OF BANK
 OPEN DRAIN
 TILE DRAIN
 STRUCTURE
 MANHOLE



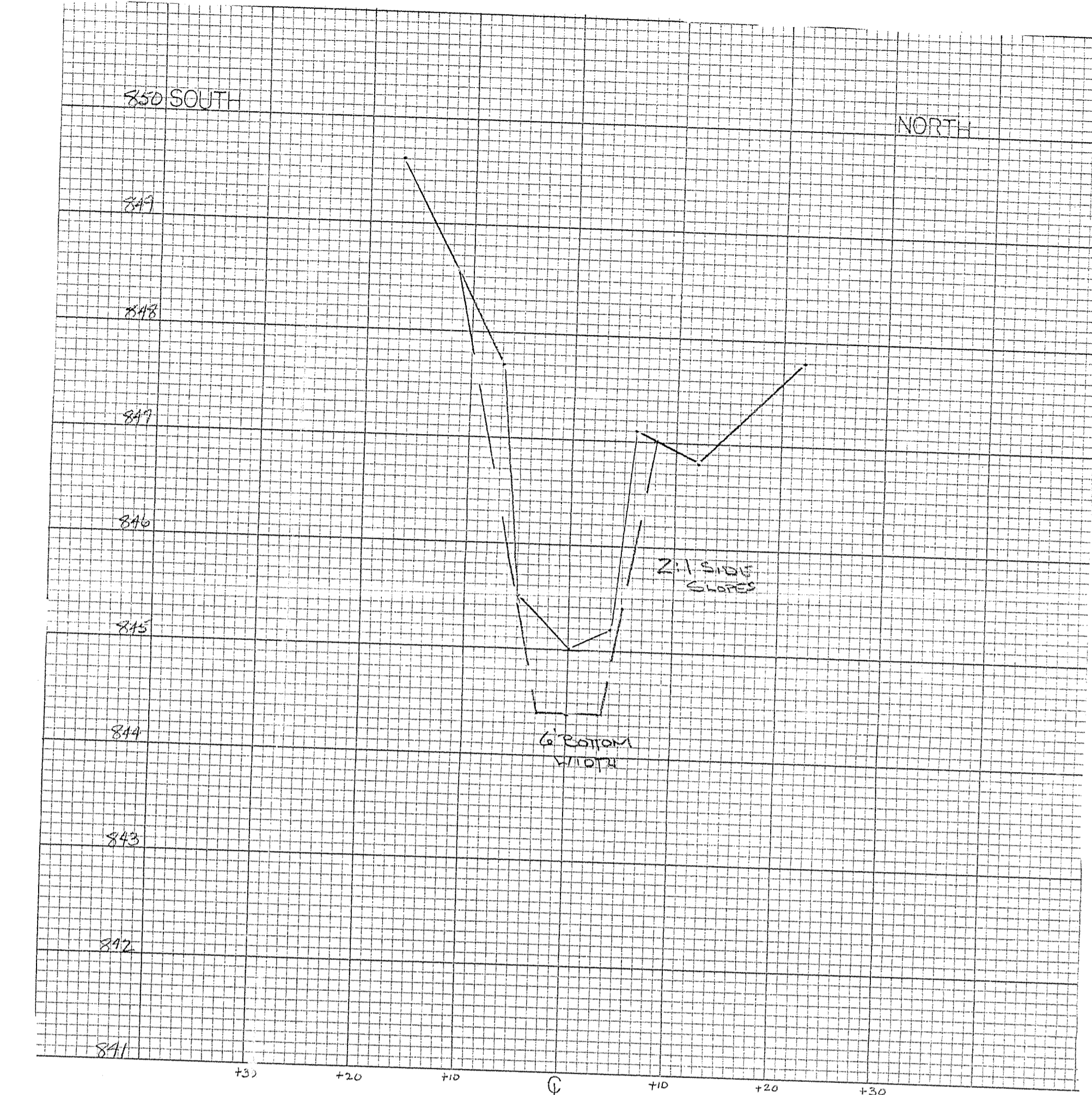
ATLANTA DRAIN



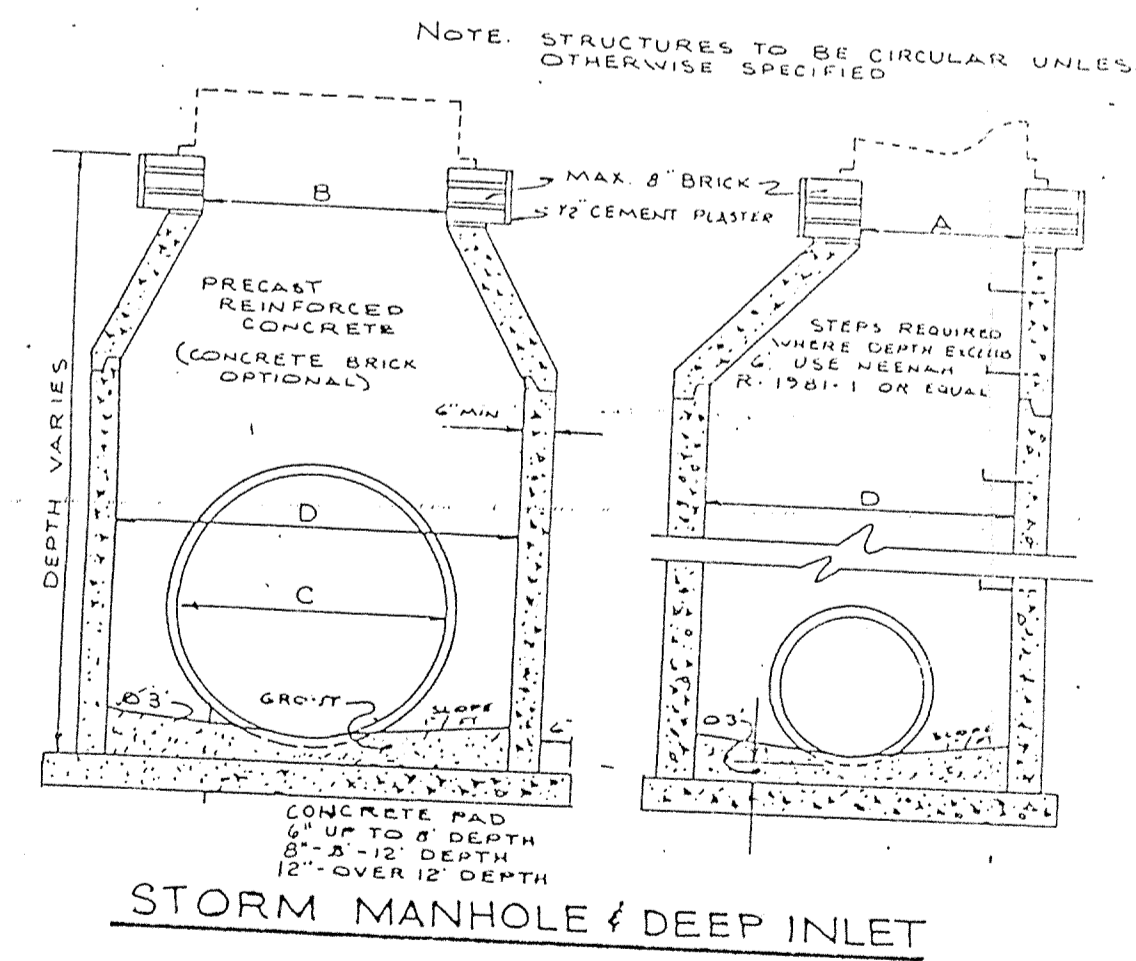
ATLANTA DRAIN STA. 5+00
X-SEC.



ATLANTA DRAIN STA. 10+00
X-SEC.

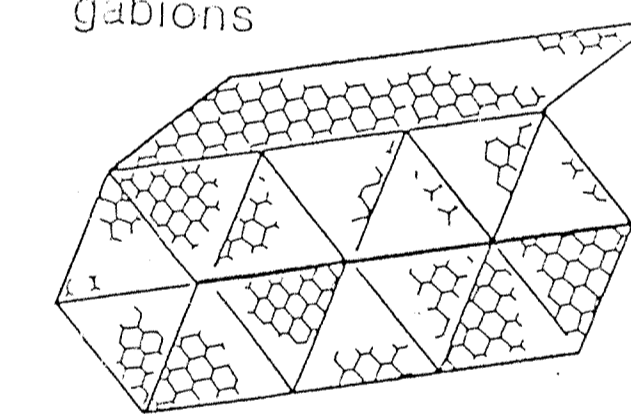


ATLANTA DRAIN STA. 16+00
X-SEC.

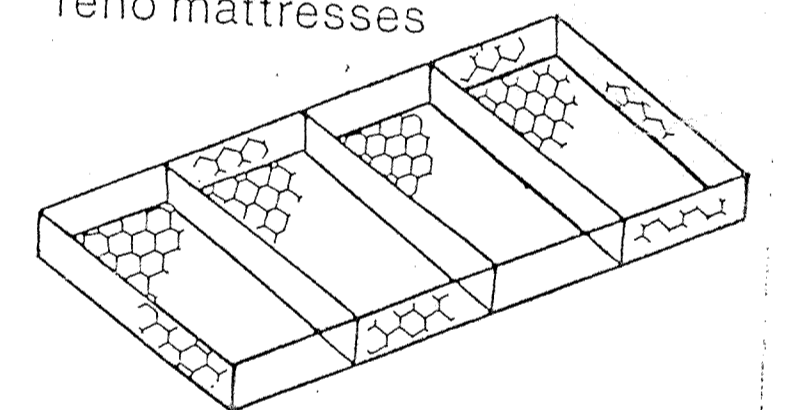


STORM MANHOLE / DEEP INLET

gabions



reno mattresses



specifications

Detailed product specifications for the full range of Maccalferri Gabions and the Reno Mattress in both zinc coated and PVC mesh are available on request from any Maccalferri office. Maccalferri reserves the right to alter specifications without notice. Maccalferri products are made in Williamsport, Md. and Sacramento, California.

assembly & erection

Separate leaflets are available describing recommended methods of assembly. Field notes for use by construction crews and typical contract specifications and bills of quantities are also available.

technical publications & video tapes

Maccalferri Gabions, Inc. publishes technical handbooks on Gabions and on the Reno Mattress as well as on Rockfall Retting. We also issue a series of books on such topics as Retaining Walls, Channel Linings, Weirs and Railroad Structures. Video tapes on selected topics, including assembly instructions, are also available. Please inquire for further information and to request copies.

standard sizes

SUPPLY AND DELIVERY Gabions are supplied folded flat and stacked in bundles for convenient shipping and handling. Sufficient binding wire is supplied with the gabions in coils for normal uses. Additional wire available at nominal cost.

GABIONS-NOMINAL SIZES

Letter Code	Length	Width	Height	No. of Cells	Cap Cu. Yds.	Color Code
A	6'	3'	3'	2	2.0	Blue
B	9'	3'	3'	3	3.0	White
C	12'	3'	3'	4	4.0	Black
D	6'	3'	1.6'	2	1.0	Red
E	9'	3'	1.6'	3	1.5	Green
F	12'	3'	1.6'	4	2.0	Yellow
G	6'	3'	1.1'	2	0.66	Bluffed
H	9'	3'	1.1'	3	1.0	Blue/Red
I	12'	3'	1.1'	4	1.33	Blue/Green
SP	4.6'	3'	3'	1	1.5	—

SUPPLY AND DELIVERY Reno Mattresses and ties are supplied folded flat and stacked together in bundles for convenient shipping and handling. Sufficient binding wire is supplied with the mattresses in coils for normal uses. Additional wire available at nominal cost.

RENO MATTRESS-NOMINAL SIZES

Letter Code	Length	Width	Thickness	No. of Cells	Area Sq. Yds.	Capacity Cu. Yds.	Color Code
O	9'	6'	6"	3	6	100	White/Red
R	12'	6'	6"	4	8	133	White/Red/Blue
T	9'	6'	9"	3	6	1.5	Red/Blue
U	12'	6'	9"	4	8	2	—

The above sizes apply with effect from August 1, 1985. Where conditions require diaphragm spacing to be less than 2' or additional diaphragms can be supplied for field spacing. For large quantities these diaphragms may be installed at the price. Please inquire about such spacing and about alternative sizes. The information presented in this report is illustrative general information for comparative estimating purposes only. Maccalferri Gabions, Inc. assumes no responsibility for either the design or actual use of any structure resulting from the information given in this report. Anyone relying upon or making use of this information does so at his own risk and assumes any and all liability or other consequences resulting therefrom.

