

SURVEYOR'S OFFICE

# Hamilton County

Kenton C. Ward, Surveyor  
776-9626

942 Maple Avenue  
Noblesville, Indiana 46060

August 17, 1990

To: Hamilton County Drainage Board

Re: R.J. Craig Drain

This report is a revision of the report dated June 14, 1990 and is included herein by reference.

Since the June Drainage Board meeting, a plan was developed and discussed for relocation of the open ditch on the railroad property. A meeting was held at Fishers on this date before the Fishers PUD Committee with Mr. Fred Sullivan, Fishers Town Engineer; Brian Wilson, MSE; Rusty Richardson, Eaton & Lauth; Jim O'Bara, Weihe Engineers; Roy Holland, Fishers Town Board; Roger Johnson, Fishers Development Co-ordinator; Steve Cash, Plan Reviewer for the Surveyors Office; and myself in attendance. The result of this meeting was to proceed with the original plan as set out in Option 4 of my June 14, 1990 report.

As a result of review of the plans, some minor revisions were made which would affect the cost estimate for the open ditch work:

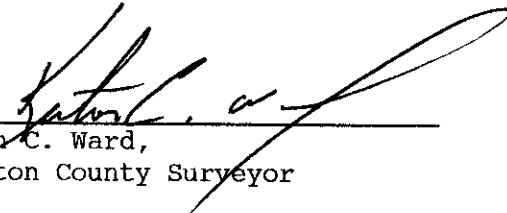
The new cost estimate is as follows:

Option 3 Cost Estimate	617,695.30
Dredging 2240' @ 10/ft	33,400.00
Clearing 8 Ac @ 10,000/Ac	80,000.00
Seeding 10 Ac @ 1,000/Ac	10,000.00
Riprap Corners 3 @ 1,000 ea	3,000.00
Silt Basins 3 @ 1,000 ea	3,000.00
Sub Total	747,095.30
10% Cont.	74,709.53

Grand Total                    \$821,804.83

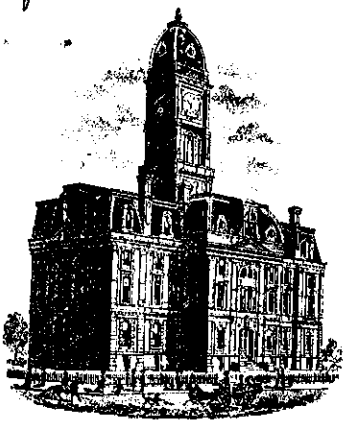
The residential acreage consists of 344.82 acres & 160 lots and commercial is 601.40 acres & 33 lots. The rate for these properties will be \$490 per acre, \$500 minimum Residential and \$882 per acre, \$900 minimum Commercial. The maintenance assessment for the entire drainage shed should be increased from \$1 per acre, \$3 minimum, to \$5 per acre, \$25 minimum.

I recommend the Board set an October hearing for the proposed drainage project as set out in Option 4 of my June 14th, 1990 report as revised above.



\_\_\_\_\_  
Kenton C. Ward,  
Hamilton County Surveyor

KCW/jh



SURVEYOR'S OFFICE

# Hamilton County

Kenton C. Ward, Surveyor

776-9626

942 Maple Avenue

Noblesville, Indiana 46060

June 14, 1990

To: Hamilton County Drainage Board

Re: R.J. Craig, Geo. White & James Bradburn Drains

Attached are calculations, plans, drainage shed map, schedule of assessments and miscellaneous supporting material for the reconstruction of the R.J. Craig, Geo. White and James Bradburn Drains. This report is being submitted to the Board for consideration as a result of the May 21st 1990 Drainage Board meeting.

Since the May 21st Drainage Board meeting much has happened concerning this drain in both discussion and engineering. This report is the accumulation of information gathered during the last month. The following will discuss the various options of which I believe there to be five. The conclusion of the report will state recommendations as to which option the Board should take.

The first option is to do nothing to the drain, leaving the situation at status quo. Doing so, the Board and Fishers would wait for developers or a developer to fund and construct the improvements needed at his expense. This would be done at such time as the Railroad property, Murphy property & Morgan property are developed, or the down town area re-developed, or a combination of these properties or projects are done. The down side of this option is the continuance of the drainage problems in the old down town area for an un-determined period of time. As this problem is severe now, the continuance can be detrimental to the Health and safety of the residents.

The second option is outlined in the report dated May 4, 1990 and which is attached hereto. The proposal will serve those areas of the most severe flooding. However, problems with surface water crossing 116th Street and various surrounding areas experiencing problems will not be solved with this system.

The third system is the inclusion of various Arms to the system in order to improve drainage along 116th Street and the area east of Lantern Road. This plan would include the system as described in the May 4th report for the 48" and open ditch. Along with that system the plans call for improvements to the George White Drain from Archers to Lantern Road. Also Arms 1, 2 and 3 will be improved to 116th Street. An arm will be extended north along Lantern to 116th Street and south to South Street. A line will be installed east on South Street.

Repair of the 20" George White Drain will include the construction of an open ditch from a point 30 feet south of the south line of Morgan Meadows Second Section. The open ditch will be constructed to the point of intersection with the R.J. Craig Drain.

In addition, the 20" tile shall be relocated beginning at the northwest corner of lot 21 of Morgan Meadows and ending at the southwest corner of lot 20.

The purpose of this relocation is to remove the drain from the existing lots where the homes on lots 20 & 21 are within the easement and to keep away from storage buildings. The relocated tile will be constructed with a manhole at the intersection of the existing tile turn, southwest in a 45° angle running to another manhole; thence run south 10' west of and parallel to the west line of the above mentioned lots 20 and 21 to another manhole; thence turn a 45° angle to the southeast and run to the last manhole which would be located on the existing 20" tile. This line would be 21" in size.

The cost of this relocation should be charged back to the individual owners of lots 20 & 21 as a violation of IC 36-9-27 as an un-authorized structure within the easement. However, for the purpose of this project I have included the cost within the reconstruction estimate.

The cost estimate for this option is as follows:

#### Open Ditch

Clearing	1.5 acre @ 10,000/ac	\$15,000.00
Seeding	1.0 acre @ 1,000/ac	1,000.00
Open Ditch	470 feet @ 18.00/ft	8,460.00
24" CMP	20 feet @ 26.00/ft	520.00
24" Animal Guard	1 each @ 125.00	125.00

#### Re-alignment of 20' tile for Morgan Meadows Lots 20 & 21

21" RCP	400 feet @ 55.00/ft	22,000.00
48" Manholes w/castings	4 each @ 2,000.00	8,000.00

#### Option 2 Cost

48" RCP	1150 feet @ 104.00	119,600.00
Open Ditch	2520 feet @ 18.00	45,360.00
Rebuild Existing MH	1 each @ 5,000.00	5,000.00
Clearing	1.5 acre @ 10,000.00	15,000.00
Seeding	10 acre @ 1,000.00	10,000.00
60" Metal End Sections	1 each @ 1,200.00	1,200.00
Pavement replacement	625 LF @ 40.00/ft	25,000.00
Riprap	250 Ton @ 20.00	5,000.00
Granular Backfill	1000 CY @ 12.00	12,000.00
54" Crossing	1 each @ 6,000.00	6,000.00
96" Manholes	5 each @ 4,500.00	22,500.00

#### Additional Arms Cost

Mobilization	1 LS @ 6,000.00	6,000.00
Curb Inlets	15 Ea @ 1,000.00	15,000.00
Storm Inlets	4 Ea @ 800.00	3,200.00
Manholes	15 Ea @ 3,000.00	45,000.00
12" R.C.P.	172 LF @ 23.50	4,042.00
15" R.C.P.	275 LF @ 25.20	6,930.00
18" R.C.P.	70 LF @ 44.60	3,122.00
21" R.C.P.	714 LF @ 47.50	33,915.00
24" R.C.P.	185 LF @ 40.00	7,400.00
27" R.C.P.	25 LF @ 66.40	1,660.00
36" R.C.P.	110 LF @ 65.20	7,172.00
42" R.C.P.	110 LF @ 84.70	9,317.00
38" x 60" R.C.P.	320 LF @ 152.00	48,640.00

48" R.C.P.	170 LF @ 118.00	20,060.00
Restoration	1 LS @21,500.00	21,500.00
Maintaining Traffic	1 LS @ 5,000.00	<u>5,000.00</u>
	Sub Total	559,723.00
	10% Cont.	55,972.30
	Const. Staking & Eng.	2,000.00
	Grand Total	617,695.30

The drainage area for this work is the same as discussed on pages 6 & 7 of the May 4th report. The drainage shed map is attached. I believe it to be representative of the area benefitted by the proposed improvements. An area omitted is the property which Burberry Place will be developing. This acreage will run to the east as shown on the attached copy of the primary plat. According to Doug Miller, engineer for Mr. Murphy, the open ditch is of sufficient elevation to benefit the Murphy property when developed. This will be connected through Arm 1 of the James Bradburn Drain.

The drainage shed consists of 124 lots and 163.38 acres. The acreage figure does not include the lot count. Of this amount, the commercial properties consist of 35.84 acres and 33 lots. Comparing C-values of 1/2 acre residential versus commercial, the values are 0.5 for residential and 0.9 for commercial. Because of the greater C-value for commercial ground, a decision was made to assess the commercial properties a factor of 1.8 more than residential. Commercial properties were determined by using the Fishers Zoning as a guide. (See attached.) Those areas zoned I-1, I-2, C-1, C-2, C-3, and C-4 on the zoning map were assessed as commercial. The reconstruction assessments were set at \$1670.00 per acre & minimum for residential and \$3006.00 per acre & minimum for commercial. Roads, streets and alleys were assessed at residential rates since the indicated acreages have been shown triple of actual acreage. The railroad was also assessed at the residential rate.

Although this project is being proposed, I must point out at this time the old down town area will still be prone to flood. This will also be true concerning Option 4. The system which is proposed is, as I have pointed out previously, designed to handle a 10 year storm event under existing conditions. Per the letter from James Wm. O'Bara of Weihe Engineers dated March 7, 1990, the Hydraulic Grade Line (HDL) will remain within the system for a 10 year storm and result in an elevation of 813.76. Mr. O'Bara has indicated on the attached sheet the areas of flooding during the 25, 50 and 100 year storm events. I want to stress the importance of this fact to both the Board and the landowners. I recommend that if the project is approved, the landowners within these areas which will be prone to flooding obtain flood insurance.

The fourth option is a combination of Option 3 and the dredging of the existing R.J. Craig Drain. The dredging will involve the portion of the drain between the interstate and the railroad. The work will help improve the hydraulic characteristics of the drain and allow for better efficiency of the proposal of Options 2 and 3. The cost estimate for this work is as follows:

Option 3 Cost Estimate		617,695.30
Dredging	2240 feet @ 10.00/ft	33,400.00
Clearing	8 acre @ 10,000/ac	80,000.00
Seeding	8 acre @ 1,000/ac	8,000.00
Silt Basins	3 @ 1,000/ea	<u>3,000.00</u>
	Sub Total	742,095.30
	10% Cont.	<u>74,209.53</u>
	Grand Total	816,304.83

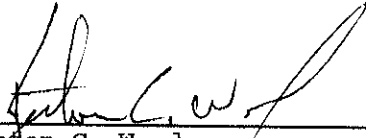
The drainage basin involved includes all properties east of the railroad within the R.J. Craig Drainage Shed along with those properties assessed in Options 2 and 3 west of the railroad. The drainage shed for this option consist of 344.82 acres & 160 lots residential and 601.40 acres & 33 lots comercial. The rate for these properties will be \$488.00 per acre & minimum residential and \$879.00 per acre & minimum commercial.



The fifth option is to wait 30 days so that a more comprehensive plan may be developed. This would allow the railroad to plan a detention facility and realignment of the open ditch. It would also allow the planning of an extension of the drain to Hague Road, planning of a re-alignment of a section of ditch which now runs along the south side of 106th Street off the right-of-way, plans for improvement to the Loma Industrial Park Drain and Margaret O'Brien Drain along with the ability to merge all three drains into one urban drainage shed.

My recommendation to the Board at this time is option 5. Although quite a lot of work has been done in a short time and the option would delay a hearing for another month, I believe a more complete plan could be presented given more time.

My second choice for a recommendation would be Option 4. I believe more benefit would be realized for the area with this option over Options 1, 2 and 3.

  
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Kepton C. Ward,  
Hamilton County Surveyor

KCW/jh

# Fidelity and Deposit Company

HOME OFFICE OF MARYLAND BALTIMORE, MD. 21203

## Performance Bond

KNOW ALL MEN BY THESE PRESENTS:

That Poindexter Excavating, Inc.  
(Here insert the name and address or legal title of the Contractor)  
10443 E. 56th St., Indianapolis, IN 46236  
as Principal, hereinafter called Contractor, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, a corporation of the State of Maryland, with its home office in the City of Baltimore, Maryland, U. S. A., as Surety, hereinafter called Surety, are held and firmly bound unto Hamilton County Drainage Board

(Here insert the name and address or legal title of the Owner)  
as Obligee, hereinafter called Owner,  
in the amount of Two Hundred Forty Two Thousand Seven Hundred Forty Nine & 08/100

Dollars (\$ 242,749.08 ), for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated July 10, 1991, entered into a contract with Owner for Excavation & Mucking of Ditches, Storm Sewer, Ditch Grading & Mulch Seeding, R. J. Craig Drainage Area Drain

in accordance with drawings and specifications prepared by Owner

(Here insert full name, title and address)  
which contract is by reference made a part hereof, and is hereinafter referred to as the Contract, including one year maintenance from date of acceptance award.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly

(1) Complete the Contract in accordance with its terms and conditions, or

(2) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, or, if the Owner elects, upon determination by the Owner and Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and Owner, and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the contract falls due.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of Owner.

Signed and sealed this 10th day of July A.D. 1991

In the presence of:

Betty Jean Atkinson  
Betty Jean Atkinson

{ POINDEXTER EXCAVATING, INC. (SEAL)  
*Principal*  
BY: Billy Poindexter  
Billy Poindexter *Title* President  
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

Clara Lu Day  
Clara Lu Day

By: Jan L. Jacobs (SEAL)  
Jan L. Jacobs - Attorney-in-Fact

# Fidelity and Deposit Company

HOME OFFICE OF MARYLAND BALTIMORE, MD. 21203

## Labor and Material Payment Bond

Note: This bond is issued simultaneously with Performance Bond in favor of the owner conditioned on the full and faithful performance of the contract.

KNOW ALL MEN BY THESE PRESENTS:

That Poindexter Excavating, Inc.  
(Here insert the name and address or legal title of the Contractor)  
10443 E. 56th St., Indianapolis, IN 46236  
as Principal, hereinafter called Principal, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, a corporation of the State of Maryland, with its home office in the City of Baltimore, Maryland, U. S. A., as Surety, hereinafter called Surety, are held and firmly bound unto Hamilton County Drainage Board

(Here insert the name and address or legal title of the Owner)  
as Obligee, hereinafter called Owner, for the use and benefit of claimants as hereinbelow defined, in the amount of Two Hundred Forty Two Thousand Seven Hundred Forty Nine & 08/100

(Here insert a sum equal to at least one-half of the contract price)  
Dollars (\$ 242,749.08), for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated July 10, 1991, entered into a contract with Owner for Excavation & Mucking of Ditches, Storm Sewer, Ditch Grading & Mulch Seeding, R. J. Craig Drainage Area Drain

in accordance with drawings and specifications prepared by Owner

(Here insert full name, title and address)  
which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

1. A claimant is defined as one having a direct contract with the Principal or with a sub-contractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.
2. The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.
3. No suit or action shall be commenced hereunder by any claimant:
  - (a) Unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: The Principal, the Owner, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Owner or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.
  - (b) After the expiration of one (1) year following the date on which Principal ceased work on said Contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.
  - (c) Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.
4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

Signed and sealed this 10th day of July A.D. 1991

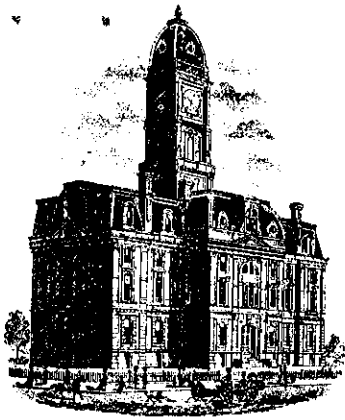
In the presence of:

Betty Jean Atkinson  
Betty Jean Atkinson

POINDEXTER EXCAVATING, INC. (SEAL)  
*Principal*  
BY: Billy Poindexter  
Billy Poindexter *Title* President  
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

Clara Lu Day  
Clara Lu Day

By: Jan L. Jacobs (SEAL)  
Jan L. Jacobs - Attorney-in-Fact



SURVEYOR'S OFFICE  
**Hamilton County**

Kenton C. Ward, Surveyor

One Hamilton County Square, Ste. 146

~~776-7626~~ 776-8495

~~942~~ Maple Avenue


Noblesville, Indiana 46060 August 7, 1992

TO: Hamilton County Drainage Board

RE: R.J. Craig Drainage Area-Final Report

On July 17, 1992 an inspection was made of the R.J. Craig Drain. At that time the reseeded had been completed and was found to be acceptable. The \$5,000.00 retainage should now be released. A claim for this has been submitted by the Contractor along with the Statement for Wages and Costs.

This report along with the report dated March 11, 1992 shall constitute the final report. The Board should accept the project as complete and acceptable.

  
Kenton C. Ward  
Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE

# Hamilton County

Kenton C. Ward, Surveyor

776-9626

942 Maple Avenue

Noblesville, Indiana 46060

March 11, 1992

To: Hamilton County Drainage Board

Re: R.J. Craig Drain

On December 23, 1991 a final inspection was made on the R.J. Craig Drain reconstruction done by Poindexter Excavating. At that time the drain was found to be complete and acceptable.

The original contract dated July 15, 1991 was bid at \$242,749.08. Three change orders were given the contractor dated as follows with estimated amounts:

Change Order 1, August 02, 1991,	\$4,015.00
Change Order 2, August 27, 1991,	524.16
Change Order 3, September 24, 1991,	22,859.73

These change orders are attached as part of this report.

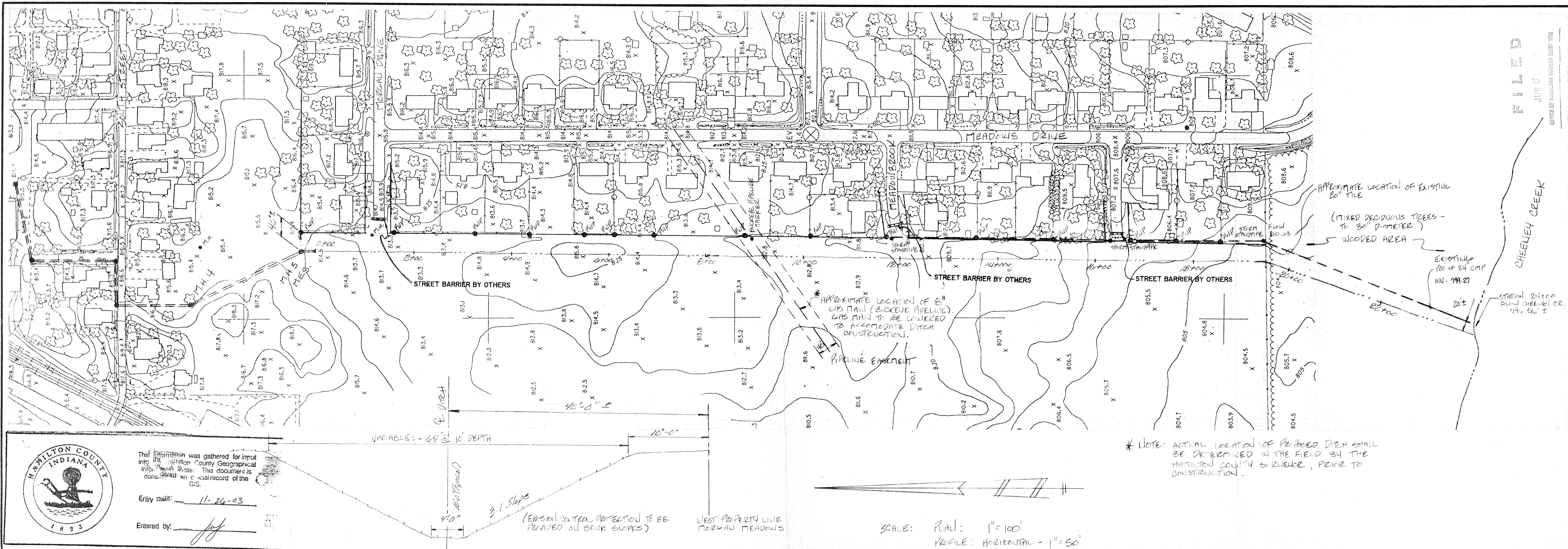
Additions to the length of the work include 37' of 21" RCP running north in the alley out of manhole #1, Station 0, line 1, sheet 8, at the southeast corner of Archers to manhole #2. Other additions are minor which do not add to the length of drain. The total length per my report dated 02-28-91 is 7158. With the addition listed above, the total length as constructed is 7195 feet.

The cost per the report dated 02-28-91 is \$200,110.00 for Section 1 work and \$268,378.00 for Section 2, for a total cost of \$468,488.00. The bid price for Section 1 work was \$70,694.10 and Section 2 work was \$172,054.98 for a total of \$242,749.08. The change orders are broken down into sections as follows:

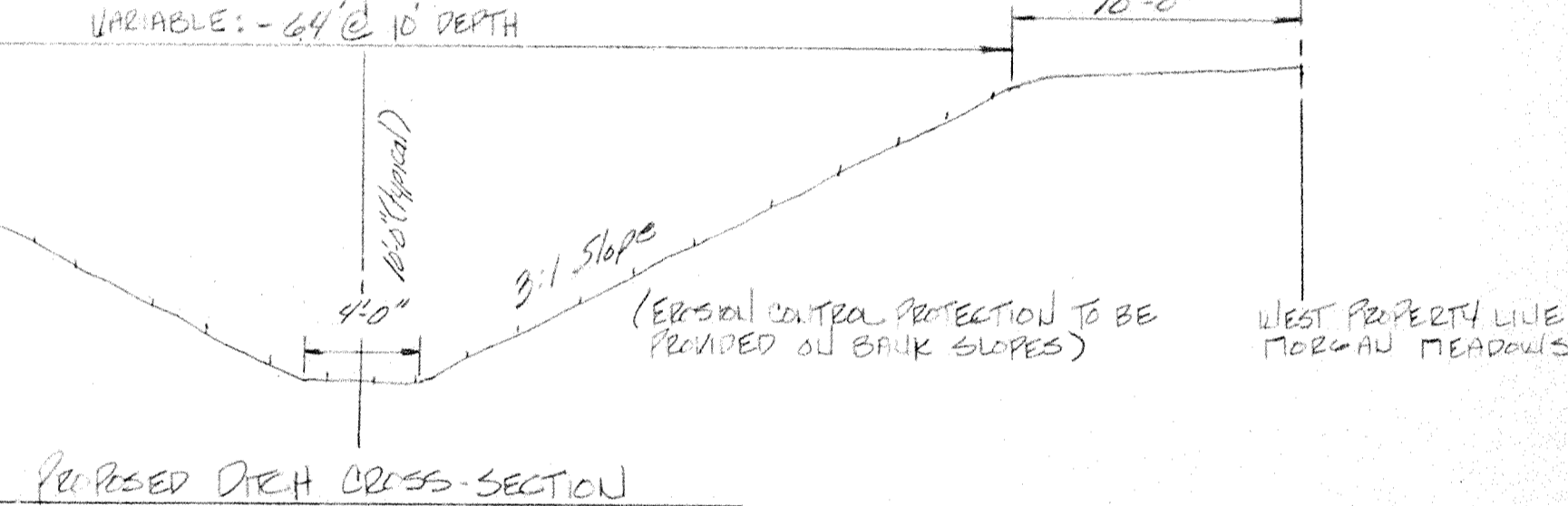
	Section 1	Section 2
Change Order 1	3,370.00	645.00
Change Order 2	-0-	524.16
Change Order 3	69.38	22,790.35
	<u>3,439.38</u>	<u>23,959.51</u>

The total construction cost of each section is as follows:

Section 1	- Bid	\$70,694.10
	Change Orders	3,439.38
		<u>\$74,133.48</u>
Section 2	- Bid	\$172,054.98
	Change Orders	23,959.51
		<u>\$196,014.49</u>



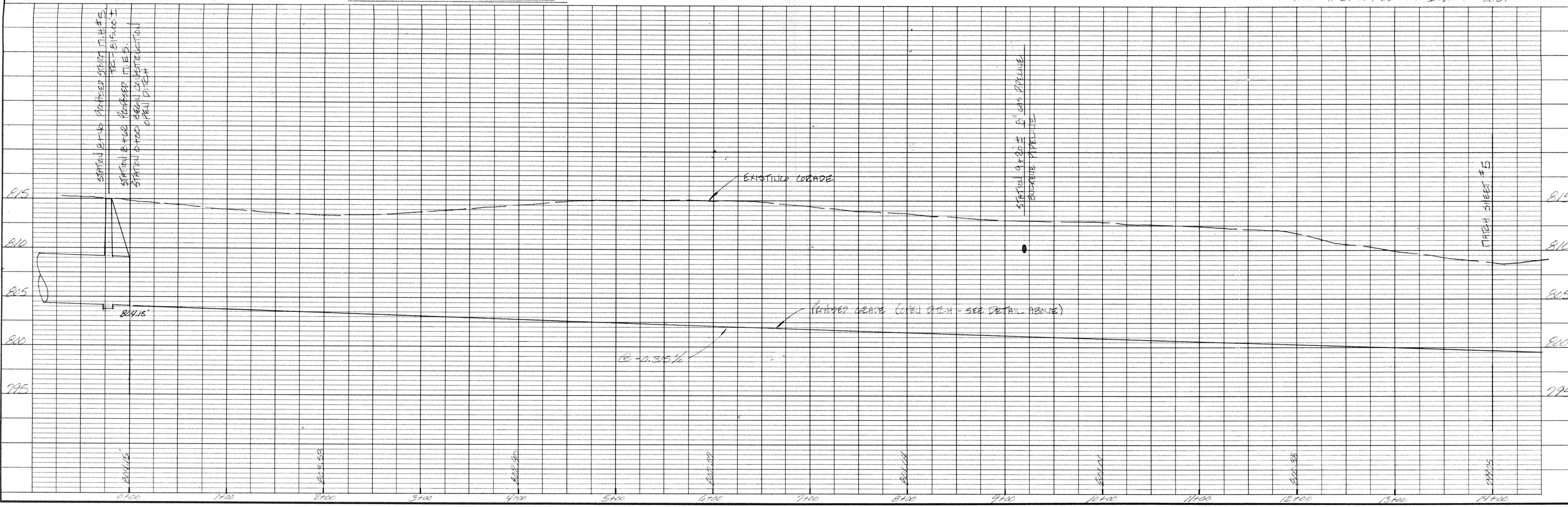
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.  
 Entry Date: 11-26-03  
 Entered by: [Signature]



SCALE: PLAN: 1" = 100'  
 PROFILE: HORIZONTAL - 1" = 50'  
 VERTICAL - 1" = 5'

\* NOTE: ACTUAL LOCATION OF PROPOSED DITCH SHALL BE DETERMINED IN THE FIELD BY THE HAMILTON COUNTY SURVEYOR, PRIOR TO CONSTRUCTION.

ALLAN H. WEIHE, Reg. P.E. INDIANA #8829



FILED  
 JUN 07 2004  
 OFFICE OF HAMILTON COUNTY SURVYOR

**WEIHE ENGINEERS INC.**  
 10505 NORTH COLLEGE AVENUE  
 INDIANAPOLIS, INDIANA 46280  
 (317) 846-6611

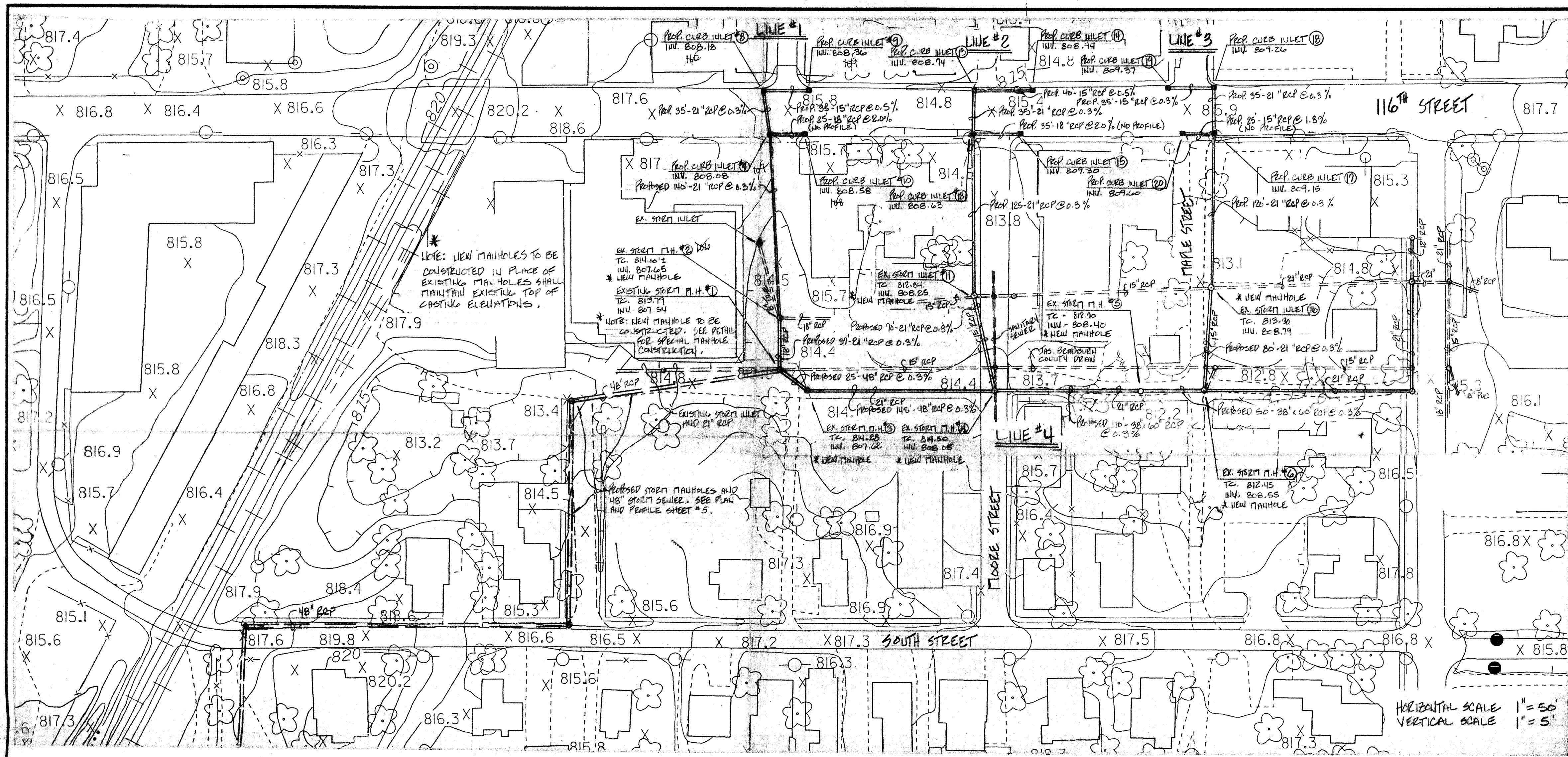
LAND PLANNERS  
 LAND SURVEYORS  
 CIVIL ENGINEERS

DATE: 08-29-03	DATE: 08-29-03
BY: [Signature]	BY: [Signature]
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BY: [Signature]	BY: [Signature]
DRAWN BY: [Signature]	CHECKED BY: [Signature]

REVISIONS:  
 1. CHANGE FROM 24\"/>

HAMILTON COUNTY DRAINAGE BOARD  
 GEORGE WHITE DEAN: PROPOSED DITCH PLAN & PROFILE

SHEET NO. 6  
 OF 10



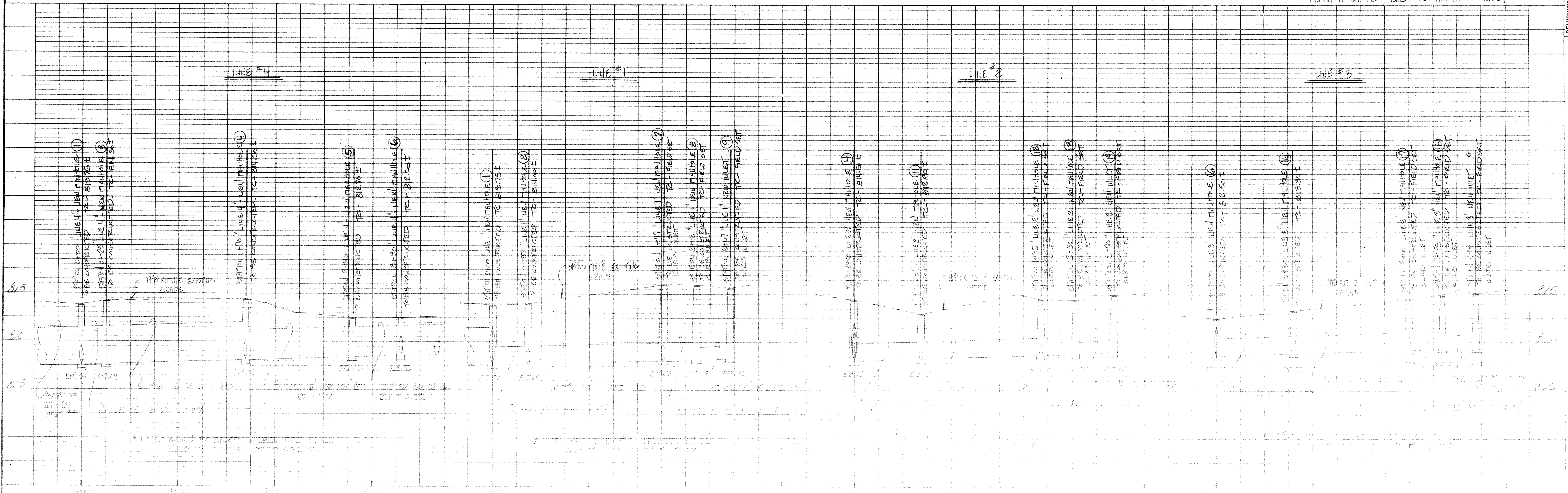
- GENERAL NOTES:
- 1) IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF THE WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNERS AND THE ENGINEER OF ANY CHANGES, ERRORS OR OMISSIONS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
  - 2) ALL STORM SEWER SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE PIPE CLASS III OR AS NOTED AND CONFORM TO A.S.T.M. C-76 OR LATEST REVISION.
  - 3) STANDARD SPECIFICATIONS OF THE TOWN OF FISHERS AND THE HAMILTON COUNTY DRAINAGE BOARD SHALL APPLY FOR ALL WORK AND MATERIALS.
  - 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE, CITY AND COUNTY PERMITS.
  - 5) ALL PIPES OR DRAINAGE STRUCTURES UNDER PAVED SURFACES SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED BY APPROVED METHODS.
  - 6) THE TOP OF CASTING ELEVATIONS OF THE PROPOSED CURB INLETS ON 116TH STREET SHALL BE SET AND ADJUSTED IN THE FIELD AT TIME OF CONSTRUCTION TO MATCH EXISTING PAVEMENT AND TOP OF CURB ELEVATIONS.
  - 7) THERE EXISTS A 20" WATER MAIN (INDIANAPOLIS WATER COMPANY) ALONG 116" STREET. WHERE THE PROPOSED STORM SEWER CROSSES THE MAIN, DEPENDING UPON THE DEPTH OF THE WATER MAIN, THE PROPOSED STORM SEWER MAIN NEED TO BE RAISED OR LOWERED IN THE FIELD UPON VERIFICATION OF THE WATER MAIN DEPTH. THE WATER MAIN ALSO EXTENDS SOUTH ALONG THE WEST SIDE OF WATER MAIN ROAD, APPROXIMATELY 8 FEET WEST OF CENTERLINE. IF THE PROPOSED STORM SEWER CONSTRUCTION CONFLICTS WITH THE EXISTING WATER MAIN, CORRECTIVE MEASURES SHALL BE AT THE DISCRETION OF THE HAMILTON COUNTY SURVEYOR AND THE INDIANAPOLIS WATER COMPANY.
  - 8) WHERE EXISTING STORM SEWER IS TO BE REPLACED WITH PROPOSED STORM SEWER OF GREATER SIZE, THE EXISTING MANHOLES SHALL BE RECONSTRUCTED TO ACCOMMODATE THE LARGER PIPE SIZES. MANHOLE RECONSTRUCTION TO BE AT THE DISCRETION OF THE HAMILTON COUNTY SURVEYOR. ONLY IF THE EXISTING MANHOLES HAVE OTHER STORM SEWER LINES CONNECTING TO THEM. ALL LINES EXISTING AT EACH MANHOLE SHALL CONTINUE TO CONNECT TO THE MANHOLES UNLESS OTHERWISE DIRECTED BY THE HAMILTON COUNTY SURVEYOR.

This information was gathered for input in the GIS system. The geographic information is provided by the GIS system. The information is the responsibility of the user.

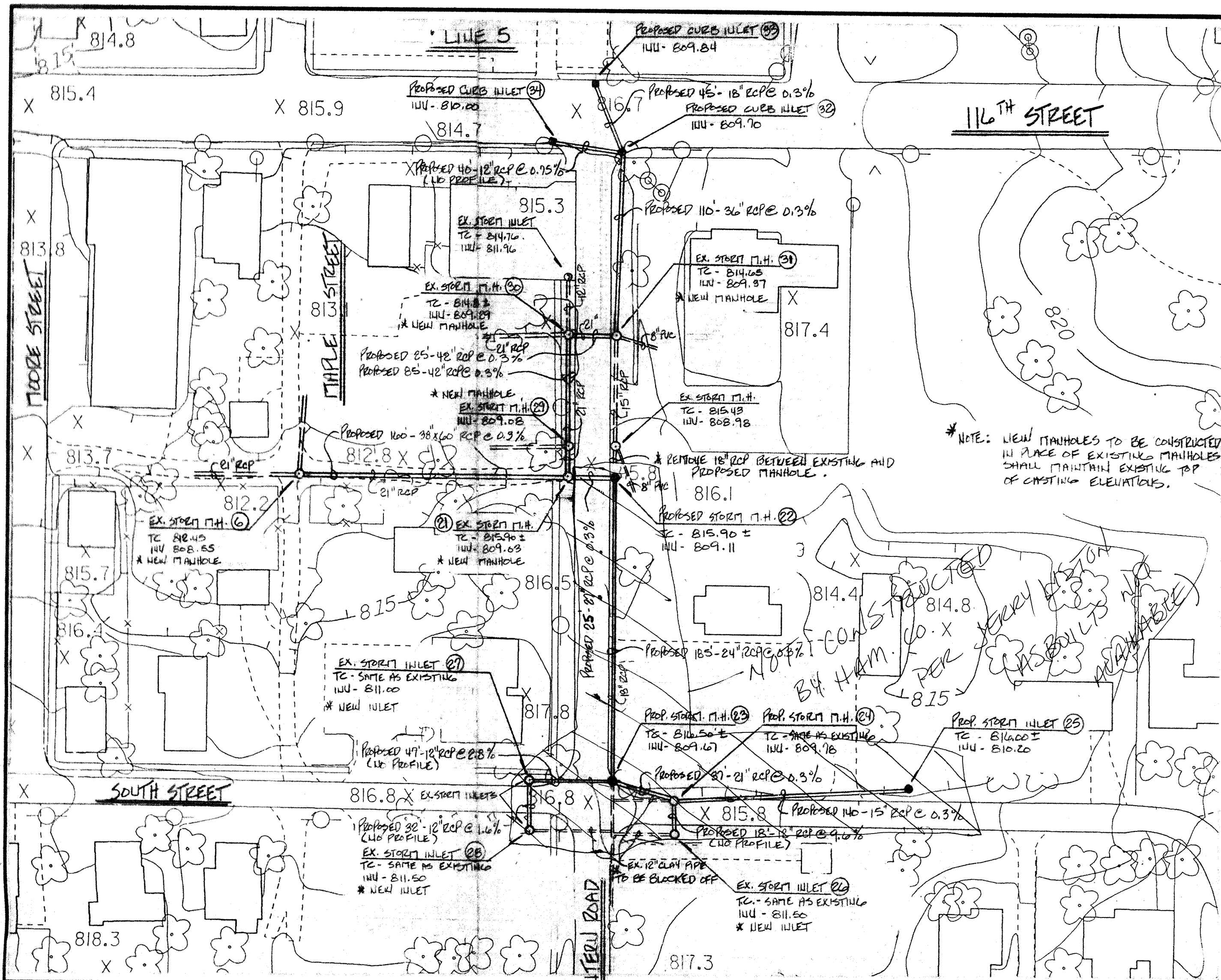
Entry Date: 12-1-03

Entered by: *Jef*

ALLAN H. WEIHE, REG. P.E. INDIANA #8837



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- GENERAL NOTES:**
- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF THE WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNERS AND/OR THE ENGINEER OF ANY CHANGES, ERRORS OR OMISSIONS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
  - ALL STREET SEWER SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE PIPE CLASS III OR AS NOTED AND CONFORM TO A.S.T.M. C-76 OR LATEST REVISION.
  - STANDARD SPECIFICATIONS OF THE TOWN OF FISHERS AND THE HAMILTON COUNTY DRAINAGE BOARD SHALL APPLY FOR ALL WORK AND MATERIAL.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE, CITY AND COUNTY PERMITS.
  - ALL APES OR DRAINAGE STRUCTURES UNDER PAVED SURFACES SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED BY APPROVED METHODS.
  - THE TOP OF CASTING ELEVATIONS OF THE PROPOSED CURB INLETS ON 116<sup>TH</sup> STREET SHALL BE SET AND ADJUSTED IN THE FIELD AT TIME OF CONSTRUCTION TO MATCH EXISTING PAVEMENT AND TOP OF CURB ELEVATIONS.
  - THERE EXISTS A 20" WATER MAIN (INDIANAPOLIS WATER COMPANY) ALONG 116<sup>TH</sup> STREET. WHERE THE PROPOSED STREET SEWER CROSSES THE MAIN, DEPENDING UPON THE DEPTH OF THE WATER MAIN THE PROPOSED STREET SEWER MAIN NEED TO BE RAISED OR LOWERED IN THE FIELD UPON VERIFICATION OF THE WATER MAIN DEPTH. THE WATER MAIN ALSO EXTENDS SOUTH ALONG THE WEST SIDE OF LAUREL ROAD, APPROXIMATELY 8 FEET WEST OF CENTERLINE. IF THE PROPOSED STREET SEWER CONSTRUCTION COMPLECTS WITH THE EXISTING WATER MAIN, CORRECTIVE MEASURES SHALL BE AT THE DIRECTION OF THE HAMILTON COUNTY SURVEYOR AND THE INDIANAPOLIS WATER COMPANY.
  - WHERE EXISTING STREET SEWER IS TO BE REPLACED WITH PROPOSED STREET SEWER OF GREATER SIZE, THE EXISTING MANHOLES SHALL BE RECONSTRUCTED TO ACCOMMODATE THE LARGER PIPE SIZES. MANHOLE RECONSTRUCTION TO BE AT THE DIRECTION OF THE HAMILTON COUNTY SURVEYOR. MANY OF THE EXISTING MANHOLES HAVE OTHER STREET SEWER LINES CONNECTING TO THEM. ALL LINES EXISTING AT EACH MANHOLE SHALL CONTINUE TO CONNECT TO THE MANHOLES UNLESS OTHERWISE DIRECTED BY THE HAMILTON COUNTY SURVEYOR.

This information was gathered for input into the Hamilton County Government's Information System and is not to be construed as a warranty of any kind.

Entry Date: 12-2-03

Entered by: Jof

ALAN H. WEIHE, P.E., L.S.  
PRESIDENT

**WEIHE ENGINEERS INC.**  
10605 NORTH COLLEGE AVENUE  
INDIANAPOLIS, INDIANA 46280  
(317) 846-8611

LAND PLANNERS  
CIVIL ENGINEERS

JOB NO. 84-505  
DRAWN BY P.H.P.  
CHECKED BY Z.H.U.  
DATE 5-24-90

DATE BY #  
#

REVISIONS

HAMILTON COUNTY DRAINAGE BOARD  
WEIHE WHITE TEAM: STREET PLAN AND PROFILE

SHEET NO 7  
OF 11

