## Gasb 34 Footages for Historical Cost Drain Length Log

Drain-Improvement:	BEAVER ! BROOKS	- MANSUR	RELOCATION	(1990)
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		Length	Length	Langth		logible and
Drain Type:	Size:	(SURVEYORS)	(DB Query)	Length Reconcile	Price:	Cost:
RCP	18"	2/33'	21331		10.50/1f	
	38"	94'x2	88'x2	-6'	24.6% If	
	30"	1791	179			4403.46
	34"	356'	356'		32·25/If	
	48"	480'	480'		66.55/IF	31944.00
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CONTRACTOR STATE						
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			L	1	
	Sum:	3242	3236'	* -6	74480 To
Final Report:	32421				
Comments: FINAL RE REPLECTS T OPEN DITCH	he length	t and the f	HAL REP.	ORT MINUS	TED ABOVE
PIPE AS LON	GEST. PRIC	EPORT. 94' E WILL BE	PIPE CHAN PIGURED B	NGED TO 85%	EMVING 88' LEMVING 88' ETUML LENGTHS BY THO (88X2).





Kenton C. Ward, Surveyor

776=9626

942 Maple Avenue Noblesville, Indiana 46060<u>March</u> 20, 1989

TO: Hamilton County Drainage Board

RE: Beaver & Brooks Drain

Attached is a petition for the reconstruction of the Beaver and Brooks Drain filed by the Mansur Corporation. The petition is accompanied by a plan for the reconstruction and calculations for the proposed system. The plan and accompanying documentation is to be considered as part of this report. Also attached is a schedule of assessments. At this time the drain is number 35 on the reconstruction Classification List.

I have reviewed the submittals and petition and have found each 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 reconstruction 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 accuring to the owners of land likely to be benefitted.

The present drain began in June 1897 with a petition from Marion and Nancy Beaver and Sam Brooks through Sections 3 and 4-17-5 presented to the Commissioners. Another attempt for a drain in this area was made in 1893 by a petition filed by Sam Brooks. This petition was later dismissed by the Commissioners Court. After a Viewers Report in July 1897 and a Reviewer's Report in November 1897 the drain was challenged and referred to Circuit Court in December 1897. In June 1903 the remonstrance was withdrawn and the ditch was ordered constructed. In September 1904 the Commissioners extended the contractors completion time. No further record can be found on the drain.

The proposed system will intercept the existing drain at or near STA 32+100 as
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per the 1897 Viewers Report. The new storm sewer will then as shown on the attached plan and intercept the original drain again at STA 76+00 (STA 10+90 of the proposed drain) East of Brooks School Road. The new drain will then run in the original location to the terminus at STA 0+00 (STA 92+00 of the original Drain).

The proposed system also calls for the vacation of Arms 1 and 2 of the original 1897 Drain. Upon review I believe that because of the condition of these Arms, the criteria for vacation set out in IC 36-9-27-34 is met.

The new system shall consist of the following lengths: 18" RCP 2760 feet 24" RCP 240 feet

The proposed length of the drain including the 3200 feet of the original drain is 6200 feet.

The proposed lake will not be part of the drain but will be the maintenance responsibility of the Mansur Corporation until a Homeowners Association is formed to under take the maintenance. The regulated drain which will be maintained will be the original portion of the drain remaining along with the sections from STA 0+00 to 27+60 and 64+85 to 67+30 on the attached plan.

The reconstruction of the drain is neccesary to accommodate the proposed construction of Hamilton Proper. The cost of the reconstruction is to be paid by the Mansur Corporation. Because of the proposed development for the drainage shed the character of the shed will change from rural to urban. Therefore, I recommend the drain be classificed as Urban Drain.

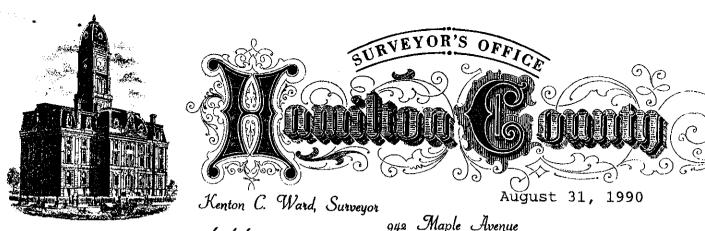
I have reviewed the plans and believe the drain will benefit each tract equally. Therefore, I recommend each tract be assessed equally. I recommend a maintenance assessment of \$2.00 per acre, with a \$30.00 minimum. With this assessment the total annual assessment for the drain/this section will be \$3,413.40.

I recommend a hearing be set for May 1989. If approved at the hearing I recommend that the petition be given one (1) year from date of approval for completion and submitt a performance bond or letter of credit for 100% of the estimate within thirty (30) days of approval. Said surity to run for a two (2) year period. The surity is to be released upon final inspection by the Surveyor and submittal of "As Built" Drawings.

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Kenton C. Ward

Hamilton County Surveyor



776=9626

942 Maple Avenue Noblesville, Indiana 46060

TO: Hamilton County Drainage Board

RE: Beaver-Brooks Drain

Attached are revised plans (Job# 88404-26700, (dated 2/12/90) from Paul I. Cripe, Inc. for the Beaver-Brooks Drain. ALso attached is my March 20, 1990 report and letters of approval from Max Oyler, Dick Richwine, Fred Dorothy and Robert Meyer.

At the May 15,/189 hearing the Board approved the drain reconstruction, but left the final plan between Brook School Road and Geist Reservoit unsettled. The engineer, developer, offsite landoweners and I were to work out a final design and report back to the Board. This has been done and this report is meant to satisfy that condition.

The following are changes to my original report due to the final design. The changes will affect paragraphs 1,3,4 and 5 of page 2 of that report. The changes were necessary because of IDNR and Corp of Engineers'requirements and final subdivision design. The original concept and approximate route remains the same.

The proposed system will intercept( at STR.618) The existing drain

at or near STA 32+00 as per the 1897 Viewers Report. The new Storm sewer will then run as shown on Sheet 7 on the attached plan for 480 feet. (STR 615) and sheets 2,3,and 4 between STR 600 and 613.

The new system shall consist of the following lengths:

18" RCP 2317ft
Twin 30" CMP 94ft
36" RCP 3¥6ft 346
48" RCF 480ft,
Open Ditch 105ft.

The proposed length of the drain including the 3200 feet of the original drain is 6542 feet.

The proposed lake will not be part of the drain but will be the maintenance responsibility of the Mansur Corporation until a Homeowners Assoviation is formed to under take the maintenance. The regulated drain which will be maitained will be the original portion of the drain remaining along with the sections from STA 0+00 on page 7 (STR 615) to STA 26+63 on sheet 4 (STR 614) on the attached plan. The existing lake on the Richwine property is shown above as open ditch and runs between str 602 and 603. The maintenance responsibility for this be the Gleanaut of siltation from the main storm line as discussed above.

Kentan G. Ward-Gaunty Surveyor

KCM/NO





Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square Noblesville, Indiana 46060–2230

July 28, 1995

To: Hamilton County Drainage Board

Re: Beaver & Brooks Legal Drain Mansur Corp. Reconstruction

Attached are as-builts, certificate of completion & compliance and other information for Beaver & Brooks - Mansur Corp. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain which will alter the plans submitted with my report for this drain dated 08/30/90. The changes are as follows:

The 36" RCP between Structures 603 and 604 was lengthened from 80' to 83'. Structure 604 to 605 consists of 36" RCP which was lengthened from 266' to 273'. Structure 605 to 606 consists of 18" RCP and was shortened from 400' to 394'. Structure 606 to 607 was lengthened from 410' to 411'. The RCP between Structure 607 and 608 was upgraded from 18" RCP to 30" RCP. The 18" RCP between Structure 608 and 609 was lengthened from 205' to 206'. Structure 651 is an additional structure that was placed between Str's 609 & 610. This lengthened the 18" RCP from 398' to 408' total.

The 18" RCP between Str 610 to 611 & Str 611 to 612 was shortened from 390' to 381'. Structure 613 to 614 consists of 18" RCP which was shortened from 155' to 153'.

The length of the drain due to the changes described above is now 3347 feet.

Non-enforcements for tracts between Brooks School Road and Geist Reservoir have been approved by the Board. Non-enforcements for Hamilton Proper developments will be approved by individual plats.

I recommend the Board approve the drains construction as complete and acceptable.

Sincerely

Kenton C. Ward,

Hamilton County Surveyor

KCW/jh

### SITE WORK GENERAL NOTES AND SPECIFICATIONS

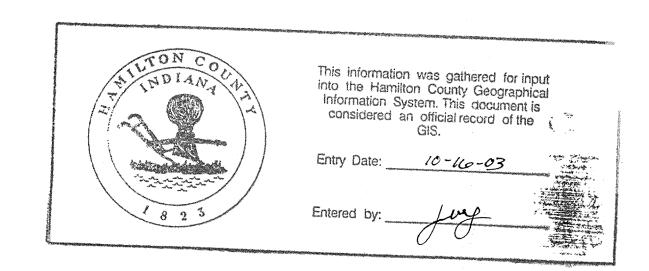
- A. The contractor shall be responsible for obtaining, or verifying, that all permits and approvals are obtained from the respective private, City, County and State and Federal agencies prior to starting construction.
- B. The Contractor shall contact all utility companies to locate all mains, conduits, service lines, etc. in the construction affected area. Existing utility structures are shown here in accordance with available information at time of design. The location and protection of utility structures and facilities, their support and maintenance during construction (in cooperation with applicable utility), is the express responsibility of the Contractor in the performance of the Contract and in the preparation of the bid. The contractor shall notify the engineer of any changes, errors or omissions found on these plans or in the field before work is started or resumed.
- C. It shall be the contractor's or developer's representative responsibility for notification and coordination of all construction with respective utility companies.
- D. It shall be the responsibility of the developer and contractor to maintain quality control throughout the project; failure to do so may result in removal and replacement of the defective work. It is recommended that the developer have a qualified supervisor on the job site at all times during construction.
- E. It is essential that the work to be done in conjunction with this project shall be installed according to these specifications. The engineer will be required to certify to certain portions of this project upon completion. Therefore, it is necessary to obtain approval and acceptance by the City that construction was done in compliance with these plans and specifications. Any damaged or defective work will be the contractor's responsibility to correct or replace. All changes or discrepancies in plans to be reviewed with engineer prior to implementing changes in
- F. All quantities given on the prints, verbally or in the Scope of Work section are estimates and shall be confirmed by the

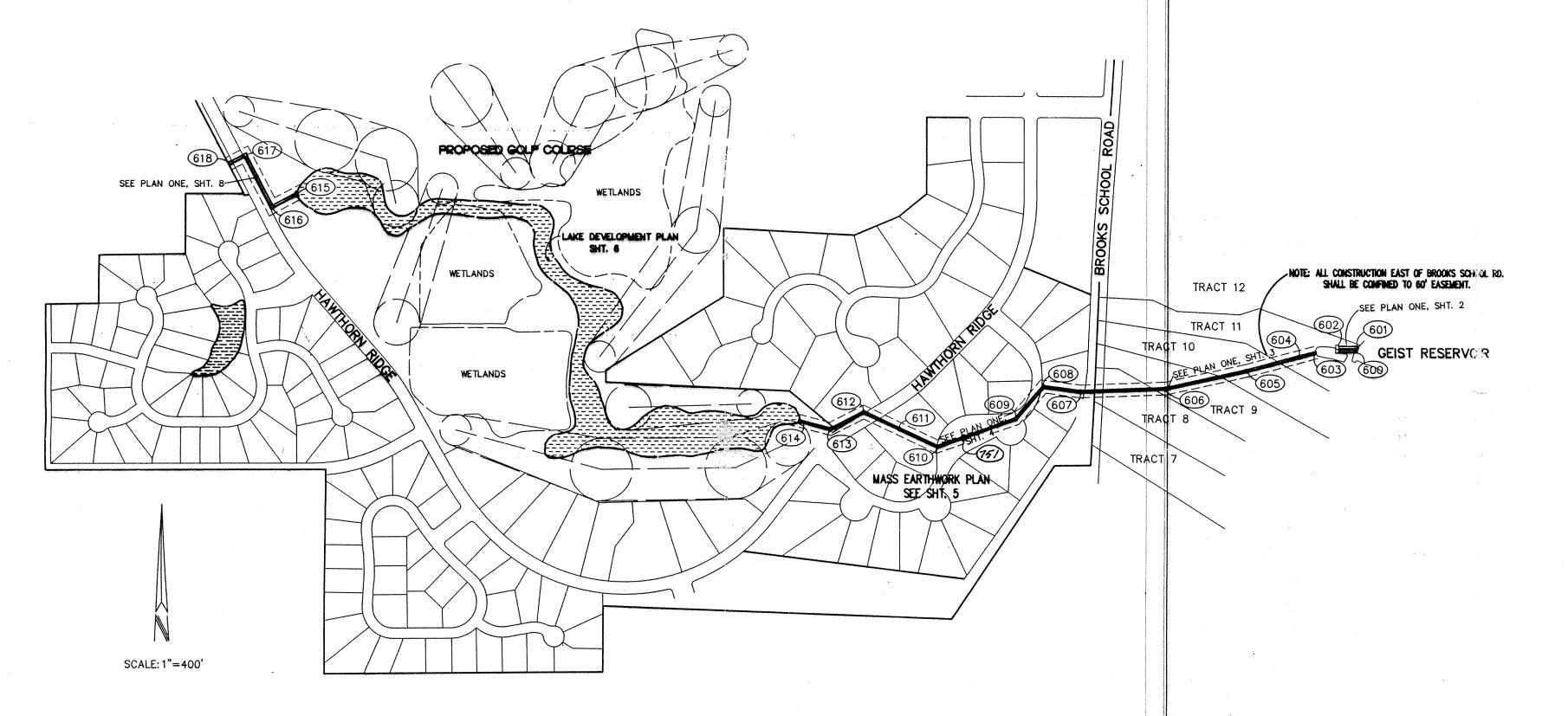
- 1. Lake bottom elevations shall be a minimum of 8 feet deep from normal pool unless noted otherwise.
- 2. It is the intent of these plans to use all excess fill material onsite. Borrow pits in nonstructural fill areas may be utilized to obtain suitable fill material and waste
- Topographic and planametric information from photographic compilation by others. Accuracy has not been totally confirmed by Paul I. Cripe, Inc. Any discrepancies shall be reported to the Engineer. The outside photogrametric onsultant shall be solely responsible for the accuracy of
- Building pad areas designated for fill for future buildings shall be constructed of suitable fill material and compacted per specifications. All fill areas for building and parking areas are to be stripped of topsoil prior to placement of
- Contractor shall preserve existing trees wherever possible. Owner and owner's representative shall be consulted for clearing limits. Clearing limits shall consist of all trees within street areas, utility installation limits and cut and fill areas. Cleared trees may be buried onsite at the direction of the owner's representative.
- 6. All topsoil shall be placed in mounding areas and nonstructural fill areas. Upon completion of mass earthwork, topsoil shall be spread to a depth of 4 to 6 inches in areas to be seeded such as lake slopes, mound areas, areas between curb and clearing limits, and all disturbed areas outside of building and parking areas.
- Straw bale dams, sediment pits and silt fences shall be utilized to control erosion. See erosion control specifications and erosion details for additional information. See Soil Erosion Plan for additional information.
- See Soils Report by Atec Associates, Inc. dated March 22, 1989 for fill recommendations and existing soil conditions. Any soil investigation data furnished to Contractor by Owner shall be for the convenience of Contractor, and Owner will not be responsible for any variance in actual conditions with such data or interpretations or conclusions drawn therefrom. Data on subsurface conditions do not constitute a representation or warranty of the continuity of such
- 9. Earthwork Balance The Contractor shall confirm all earthwork quantities prior to start of construction. If an excess or shortage or earth is encountered, the Contractor shall confirm with the Owner and Engineer the requirements for stockpiling, removal or importing of earth.
- Minor adjustments to the grades may be required to obtain earthwork balances when minor excess material or shortages are encountered. It is recognized by the parties hereto that the calculations of the Engineer in determining earthwork quantities shall be accomplished in accordance with the American Society of Civil Engineers Standards for such calculations. Further, that these calculations are subject to the interpretations of soil borings as the physical limits of the various soil types, also the allowable variation in finish grade and compaction permitted the contractor, and that all of these parameters may cause either an excess or shortage of actual earthwork materials to complete the project. If such an actual minor excess or shortage of materials occurs, the contractor shall contact the engineer to determine if adjustments can be made to correct the inbalance of earth.
- 10. Spot Elevations If during the construction or survey layout process it is determined that there are insufficient spot elevations to properly construct the project or the design grades appears to be too steep or flat for on-site conditions, the contractor shall contact the engineer to adjust or add additional elevations as required.

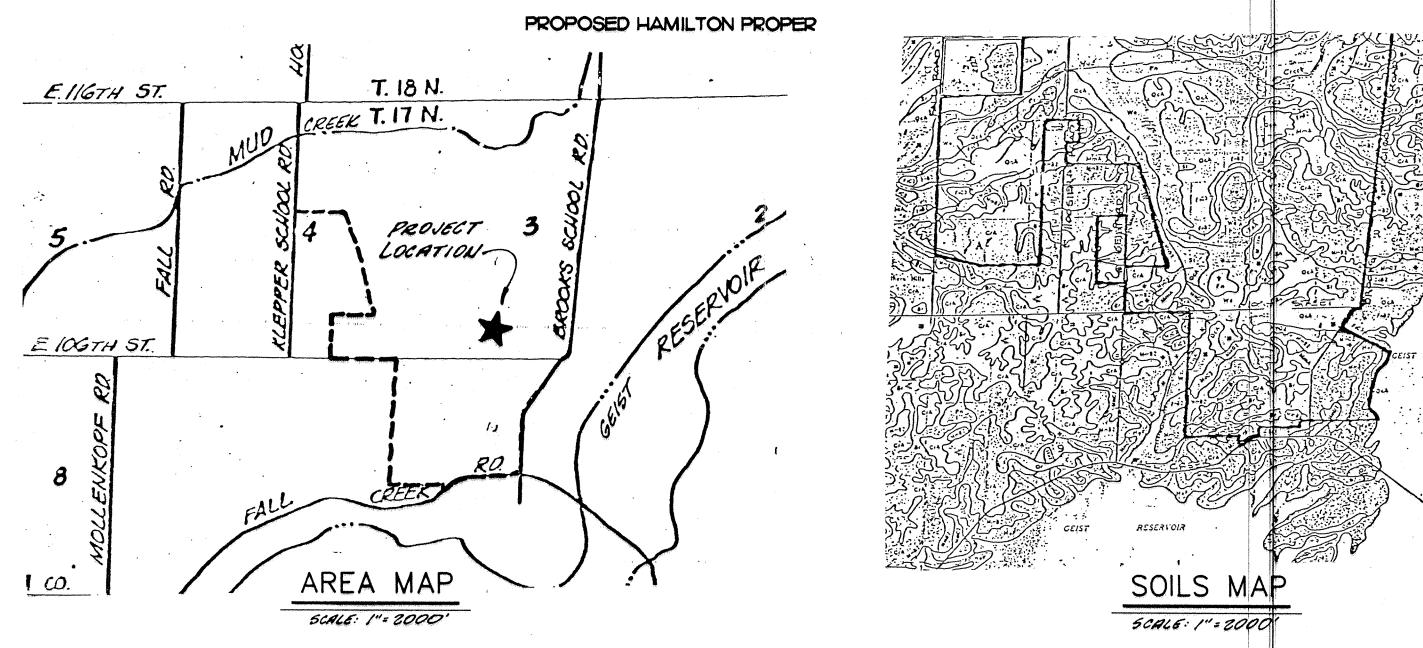
- 1. Contractor shall verify depth and locations of all existing utilities prior to start of construction and notify the Engineer of any discrepancies with the plan information. Existing utilities have been shown on the plans according to the best available information. The exact location and protection of these facilities and structures, their support and maintenance in operation during construction is the express responsibility of the Contractor in the performance of his contract and in the preparation of his bid.
- 2. See Sewer Plan and Profile sheets for additional
- 3. If any existing field tile systems are encountered during the construction process, the contractor shall be responsible for reconstructing the tile to its original conditions or connect it into the proposed storm drainage
- 4. The contractor will be required to provide as-built drawings to th agency to certify the elevation and slope orm sewers. Sewers installed at a grade by the agency will not be accepted. ide for periodic as-built checks on the construction to assure that the

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HAMILTON COUNTY, INDIANA







INDEX DESCRIPTION COVER SHEET STORM SEWER - PLAN & PROFILE STORM SEWER - PLAN & PROFILE STORM SEWER - PLAN & PROFILE MASS EARTHWORK PLAN LAKE DEVELOPMENT PLAN WETLANDS CONSTRUCTION DETAILS STORM SEWER - PLAN & PROFILE EROSION CONTROL DETAILS & SPECIFICATIONS STANDARD DETAILS & SPECIFICATIONS

## **BENCHMARKS**

LARGE HINGE NAIL SET IN S.W. SIDE OF PWP. NORTH SIDE OF 106TH. ST. & 30' WEST OF BROOKS SCHOOL ROAD.

LARGE HINGE NAIL SET IN WEST SIDE OF TWIN 10" PINE SOUTH SIDE OF GRAVE YARD EAST SIDE OF HOOSIER ROAD.

## **REVISIONS**

1-3-90 REVISED SHEETS 1, 3, 4

HAMILTON COUNTY DRAINAGE BOARD

**REVISIONS** CERTIFIED BY: • CIVIL ENGINEERING | TECH CHK: DRAWN BY: CLIENT: FILE NUMBER SHEET: MANSUR DEVELOPMENT CORP. LAND SURVEYING AS NOTED 4-30-90 7172 GRAHAM ROAD ARCHITECTURE DRFTNG. CHK: DRAWING TITLE: JOB NUMBER INDIANAPOLIS, INDIANA 46250 COVER SHEET LAND PLANNING 8 8 4 0 4 - 2 6 7 0 0 of 10 (317) 842-6777

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