

Drain: MALLERY-GRANGER **Drain #:** 313
Improvement/Arm: NORTH ARM
Operator: J. LIVINGSTON **Date:** 11-21-03
Drain Classification: Urban/Rural **Year Installed:** 1999

GIS Drain Input Checklist:

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

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

Drain-Improvement: MALLEY - GRANGER - NORTH ARM

Drain Type:	Size:	Length ()	Length (DB Query)	Length Reconcile	Price:	Cost:
OPEN	—	2230'	2230'			

Sum: 2230' 2230' \$45,440.00

Final Report: 2230'

Comments:
* Damages were awarded in the amount of \$185,000. This will be reflected
when the drainage easements are reported.



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

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Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

June 7, 1999

TO: Hamilton County Drainage Board

RE: Mallery-Granger Arm (Revised)

Attached is a petition filed by the City of Noblesville for an Arm to the Mallery-Granger Drain. Also attached are plans and the schedule of assessments for the proposed arm. 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 is practicable; will improve the public health; benefit a public highway and be of public utility; and that the cost, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited.

The location of the proposed arm will begin at the East end of the existing thirty-six (36") inch pipe under Hague Road at the intersection of Hague Road and 209th Street. Thence running East and intersecting with the Mallery-Granger Drain. The length of the project is 2,230 feet.

The cost estimate for the arm is as follows:

Excavation	2,230 Ft.	\$10.00 LF	\$22,300.00
Clearing	1.0 Ac.	\$3,800.00 AC	\$3,800.00
Seeding	1.3 Ac.	\$3,100.00 AC	\$4,030.00
Filter Strip	1.1 Ac.	\$3,100.00 AC	\$3,410.00
Silt Basin	3	\$1,000.00 EA	\$3,000.00
Field Drainage Chutes	3	\$1,500.00 EA	\$4,500.00
Rock Chute Structure	1	\$5,000.00 EA	\$5,000.00
Demolition	LS	\$2,000.00 EA	\$2,000.00
Fill in Old Channel	LS	\$2,000.00 EA	\$2,000.00
65"x43" Drain Crossing	LS	\$5,000.00 EA	\$5,000.00
		Sub Total	\$55,040.00
		15% Contingencies	\$8,256.00
		Sub Total	\$63,296.00
		Engineering	\$5,115.00
		Appraisals	\$4,500.00
		Damages	\$185,500.00
		TOTAL	\$258,411.00

A filter strip 20' in width from the top of bank on the open drain portion of the project across the Church property and on both the North and South sides of the project across the Roudebush property.

New easements will be required for the project. The easements for the open ditch will be twenty-five (25') feet from the top of bank. Temporary construction easements shall be seventy-five (75') feet from the top of bank for the entire length of the arm.

The allowable runoff rates for the drainage basin will be based on the predevelopment runoff rate for the 10 year, 24 hour storm event. The rate will be set for the area within the drainage basin for future development.

Construction access for the Roudebush and Church properties will be from Hague Road across the easements along the South side of the drain. Construction access will not enter from 206th or 211th Street for either property.

The property owned by the Marina Limited Partnership, located on the West side of Hague Road, was originally included in the drainage shed at the time the petition was submitted. Since that time, the Marina Limited Partnership has constructed a storm sewer system running to the reservoir which shall be utilized for its own drainage. Based on this, the Marina Limited Partnership should not be assessed as owning any "acres benefited" as a result of this project for tracts 11-06-14-00-00-006.302, 11-06-14-00-00-006.202 and 11-06-14-00-00-006.002. Therefore, Marina Limited Partnership shall be responsible for its own drainage for these tracts, and that any future considerations for drainage of the remaining properties within the drainage shed of the proposed arm shall not be burdened by drainage to come from the property owned by Marina Limited Partnership West of Hague Road. Marina shall have until January 1, 2000 to divert the drainage away from the drainage shed of the proposed arm. If the diversion of drainage is not accomplished prior to this date Marina shall be assessed for these tracts at the commercial rate per acre.

The Proposed reconstruction assessments as set out in the schedule of assessment for the March 22, 1999 hearing are to be modified. The modifications noted to the Board in my report dated March 22, 1999 regarding acreage benefited shall be incorporated. Also, the assessment against the Marina tracts shall be reduced \$7,978.55. This is due to the engineering costs expended for the project by Marina.

The following tracts shall be reduced by 20%:

Carmen Sholty	03-06-12-00-00-015.000
Jerald E. Johnson	10-06-13-00-00-001.000
B&D Incorporated	10-06-13-00-00-001.001
Harbour Shores Baptist Church	10-06-13-00-00-002.001 10-06-13-00-00-002.101
Larry E. & Tamela J. Grabb	10-06-13-00-00-002.005
John G. & Margaret W. Roudebush	10-06-13-00-00-018.000 10-06-13-00-00-019.000 10-06-13-00-00-020.000
Dolores M. & Kelie D. Baker	10-06-13-00-00-025.000

Rodney K. Bortel	10-06-13-00-00-026.001
James David Lunsford	10-06-13-00-00-026.002
Steven L. & Lorianne Peachey	10-06-13-00-00-026.003
Willard D. & Camille Klink	10-06-14-00-00-006.001

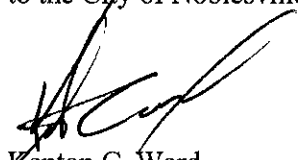
Damages for the Church property should be set at \$35,500.00. Damages for the Roudebush property should be set at \$150,000.00. These costs were derived from appraisals completed by Burrell Appraisal Service, Incorporated. No damages are to be allowed for the Lingenfelter property as a perimeter drainage easement was required for the property when the property was developed.

I have reviewed the plans and believe that the drain will benefit each tract equally for maintenance. I also recommend a maintenance assessment of \$3.00 per acre, with a \$15.00 minimum be established. This will generate an annual maintenance collection of \$692.42 for this drain.

Parcels assessed for this drain shall also be assessed for the Mallery-Granger Drain in the future.

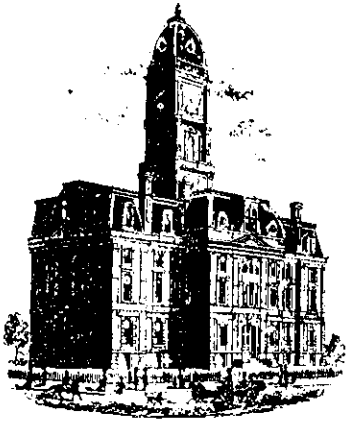
I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

A continued hearing should be set for this proposal for July 26, 1999. Notices should be sent to the City of Noblesville and Lockfield, Inc. for the proposed increases for those tracts.



Kenton C. Ward
Hamilton County Surveyor

KCW/ilm



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To: Hamilton County Drainage Board

Re: Mallery Granger North Arm Reconstruction

On December 1st, 1999, the final inspection was made for the Mallery Granger North Arm. The final inspection was done by Andrew Conover of this office. At this time the work was found to be complete and acceptable. The reconstruction was done by Van Horn Construction under contract dated August 23rd, 1999.

The contract price was \$39,448.00 and the project estimate on my original report dated January 28, 1999 was \$63,296.00. The project cost including change orders, reductions, and the bid amount was totaled at \$45,440.00. The result being that the project was \$17,856.00 under estimate.

The changes occurring in construction and cost are as follows:

Change Order #1

October 25, 1999 - Van Horn Construction

The following items are changes to the Mallery Granger Reconstruction Project:

1. Removal / spreading of topsoil.
2. Hauling of clay soil to offsite location.

Removal / spreading of topsoil-----	\$500.00
Hauling of clay soil, 1000 cubic yards @ \$2.00 per yard -----	\$2,000.00
 Change Order #1 Total -----	 <u>\$2,500.00</u>

Change Order #2

November 22, 1999 – Van Horn Construction

The following items are changes to the Mallery Granger Reconstruction Project:

- 3. Additional outlet pipes have been added due to field tiles encountered during construction.
- 4. Installation of breather / riser on field tile encountered during construction and sealing of downstream tile.
- 5. Additional rock chute installed.

Outlet pipes

1 - 8" x 20' CMP @ \$192.00 each-----	\$192.00
1 - 10" x 20' CMP @ \$192.00 each-----	\$200.00
1 - Breather installed -----	\$100.00
1 - Rock Chute-----	\$1,600.00

Change Order #2 Total ----- \$2092.00

Change Order #3

November 12, 1999 - Boram Crop Service

The following items are changes to the Mallery Granger Reconstruction Project:

Watering of hydroseeded areas of open ditch on Mallery Granger, 21,000-gallon minimum.

Watering of Hydro Seeded Banks & Filter Strip ----- \$1,400.00

Change Order #3 Total ----- \$1400.00

Contractor's Bid -----	\$39,448.00
Change Order #1 -----	\$2,500.00
Change Order #2 -----	\$2,092.00
Change Order #3 -----	\$1,400.00
Total Reconstruction Cost -----	<u>\$45,440.00</u>

Engineer's Estimate ----- \$63,296.00

Total Reconstruction Cost ----- \$45,440.00

Difference ----- \$17,856.00

The length of the drain constructed is 2,329 feet.

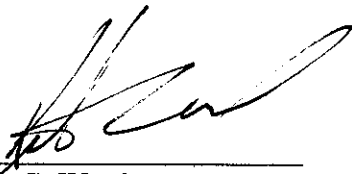
The payments to the contractor are as follows:

<u>Claim Date:</u>	<u>Claim number:</u>	<u>Claim Amount:</u>
11/23/1999	99-278	\$37,434.00
12/28/1999	99-280	\$1,400.00
01/25/2000	00-007	\$6,606.00

At this time all the 15% retainage has been paid. The contractor has submitted a statement for expenses and costs as required. The amount was \$6,606.00, paid by claim #00-007.

The reconstruction assessments set out in my original report and approved by the board at its June 28th, 1999 meeting, Drainage Board minutes Book 5, Pages 169-171, have been revised. The original reconstruction assessments based on the rate of \$2,239.66 per acre was reduced by the board on January 10, 2000, Drainage Board minutes Book 5, Pages 307- 308, to 83.46442 % (83.46442 percent) of the original assessment.

I recommend the board accept the drain as complete and acceptable and approve the final payment.



Kenton C. Ward
Hamilton County Surveyor