

*Kenton C. Ward, CFM*  
*Surveyor of Hamilton County*  
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*Fax (317) 776-9628*

*Suite 188*  
*One Hamilton County Square*  
*Noblesville, Indiana 46060-2230*

October 9, 2014

To: Hamilton County Drainage Board

Re: Lee Lambert Drain Reconstruction

Attached is a petition, drainage map, drainage shed map and schedule of assessments for the reconstruction of the Lee Lambert Drain. The Lee Lambert Drain is listed as number ten (10) on the 2014 Drain Classification List under reconstruction.

The Lee Lambert Drain was petitioned for reconstruction on August 5, 2011 by ten (10) property owners representing 53.83% of the total acreage of 655.75 in the watershed.

The Lee Lambert Regulated Drain was constructed in 1931. The drain consists of 2,366 linear feet of 15 inch tile and 1,036 linear feet of 18 inch tile, located south of 276th Street between Ditch Road and Six Points Road. The Lee Lambert Open Channel begins on the north side of 276th Street and runs 5,481 linear feet to its confluence with Prairie Creek. The Drainage Area of Lee Lambert covers portions of Adams Township, Hamilton County, Township 20 North, Range 3 East, Sections 9, 10, 15 and 16.

Andy Conover, project inspector and Christie Kallio, the project engineer, visually inspected the drain in March of this year. During the inspection log jams, broken bridge decking and a steel culvert blocking the drain upstream of Prairie Creek were found. These items were removed in April and paid out of the drain maintenance fund.

The existing 56"x36" elliptical corrugated metal pipe culvert under 276th Street is undersized and frequently overtops the roadway. The open channel north of 276th Street is laden with sediment and tall grasses. The last time it was dredged was in 1977. The regulated tile south of 276th Street doesn't have an adequate outlet at 276th Street. The water backs up in the tiles causing excessive pressure in the tiles causing them to blow out. Large holes in the farm fields result from the blown out tiles.

The following drain complaints and work orders are on file at the Hamilton County Surveyor's Office:

<u>Landowner</u>	<u>Date</u>	<u>Complaint</u>
Radford Dunning	April 8, 1981	Blow Hole
Harold Billingsley	April 23, 1981	Hole in Road
Don Carpenter	May 28, 1982	Lower Culvert under 276 <sup>th</sup> to Outlet Tile to Open Ditch
Roy Delph	September 14, 1984	Repair Breather
Jeff Newcom	November 16, 1989	4 Holes in Tile South of 276 <sup>th</sup> St.
Hamilton County Surveyor's Office	January 25, 1990	Replace Tile
Jeff Newcom	November 17, 1992	6 Holes in Tile South of 276 <sup>th</sup> St.
Jeff Newcom	December 28, 1993	Hole in Tile
Jeff Newcom	June 14, 1994	6' Hole in Tile
Garrick Mallery	July 6, 1994	Blow Hole in Tile
Garrick Mallery	September 24, 1996	11-12 Blow Holes in Field
Hamilton County Surveyor's Office	October 15, 1997	Dredge Open Ditch to Relieve Back Pressure on Tile. Clean CMP at 276 <sup>th</sup> Street
Hamilton County Surveyor's Office	June 10, 1998	Blow Holes
Mr. Delph (Dale & Dan) W.O. 99-063	February 11, 1999	Washed Out Outlet Pipe North of 276 <sup>th</sup> St.
Garrick Mallery DC-2001-00214 WO-2001-00177	October 30, 2001	Broken Tile
Dale Delph DC-2003-00683 WO-2004-00045	December 9, 2003	Broken Outlet/Erosion
Jeff Newcom (for Gerrick Mallery) DC-2004-00257 WO-2004-00169	June 8, 2004	Holes

Kenneth Carlisle DC-2006-00327 WO-2006-00175	August 14, 2006	Erosion on Open Ditch
Jeff Newcom (for Gerrick Mallery) DC-2007-00172 WO-2007-00093	April 4, 2007	Sink Hole
Bob Davis DC-2008-00150 WO-2008-00104	April 17, 2008	Hole
Gerrick Mallery DC-2008-00339	July 14, 2008	Ditch Needs Dredged
Gerrick Mallery DC-2008-00425 WO-2008-00261	October 16, 2008	4 Holes
Ronald Delph DC-2012-00098	March 21, 2012	Trees in Ditch
Hamilton County Surveyor's Office DC-2012-00315 WO-2012-00280	October 8, 2012	Hole
Mark Law DC-2013-00384	June 26, 2013	Needs Dredged

All the work orders have been completed to date.

### **RECONSTRUCTION PROJECT**

This reconstruction of the Lee Lambert Drain will not include any relocation of the existing drain. Clearing of trees will take place to facilitate an operational side for the equipment needed to dredge the channel. This will create a side for future maintenance access and will generally be on the east and north banks as shown on the attached in house plans dated June 10, 2014.

The channel will be dredged approximately two (2) feet deep starting at the existing 56"x36" elliptical CMP on the north side of 276th Street. This is Station 0+41 per the plans, Station 34+97 of the original description. The fall of the proposed channel will be 0.10% from Station 0+41 to Station 13+00 per the plans, Station 34+97 to Station 47+56 of the original description. The proposed channel slope is 0.32% from plan Station 13+00 to 26+00, Station 47+56 to Station 60+56 of the original description. The slope of the proposed channel is 0.26% from plan Station 26+00 to the terminus of the project at plan Station 49+30, Station 60+56 to Station 83+86 of the original description. The proposed channel bottom is four (4) feet wide the entire length of reconstruction. The channel side slopes will be cut at 2 to 1 to meet the existing top of bank.

Two (2) existing farm crossings will be lowered to meet the proposed flow line. One existing 68" steel culvert at plan Station 15+96 to plan Station 16+36 will be lowered and one existing 66" steel culvert at plan Station 32+80 to plan Station 33+21 will be lowered to the proposed flow line.

A fabricated corrugated aluminum toe wall and drop spillway will be installed with this reconstruction on the south side of 276th Street. The drop structure is necessary to direct storm water into the culvert under 276th Street and dissipate energy to allow increased transfer of storm water downstream. This will minimize erosion currently evident at the tile outlets and reduce the amount of standing water in the farm fields.

Fifty (50') of new 18" double wall, smooth bore plastic pipe will replace the existing 18" regulated clay tile between Stations 34 +47 and Station 34+97 per the original description. This tile will be lowered to meet the drop structure and to facilitate the construction of a grass waterway at some point in the future by the landowner.

Included with the reconstruction and shown on the plans is the installation of a twenty foot (20') filter strip along both sides of the open drain in the agricultural land uses. The filter strip shall affect the following properties:

<u>Current Owner</u>	<u>Parcel</u>
Delph, Dale G. Trustee of Dale G. Delph Revocable Trust	01-01-10-00-00-012.000
Delph, Ronald Adam & Shelly K.	01-01-10-00-00-012.003
Delph, Ronald E.	01-01-10-00-00-012.002
Martin, David V. & Cassidy E.	01-01-10-00-00-001.002

**HYDROLOGY, DESIGN AND ENVIRONMENTAL PERMITS**

The following flow rate information was determined. The Lee Lambert Drain at Prairie Creek Confluence:

Q10 = 145 ft<sup>3</sup> per Second  
 Q100 = 287 ft<sup>3</sup> per Second

The channel is designed to carry/contain the 10 year storm frequency within the banks at all locations.

The project shall include excavation of 6,000 yards of sediment from the channel, extension of 18 farm outlets, 1 sediment basin and lowering of 2 farm crossings. Installation of one fabricated corrugated aluminum toe wall and drop structure, 50' of 18" double wall, smooth bore plastic pipe to replace existing 18" tile, rip rap bend protection and surface water pipes will be installed as needed. The dredging of Lee Lambert Drain will include tree removal and clearing of debris.

The reconstruction of this drain will not require acquisition of new easement for the entire length of the drain. The drain is being reconstructed in place and the existing 75 foot easement from

the top of bank per IC 36-9-27-33 will be maintained. No additional easement acquisition will be required since the spoils of the project will be spread within the existing easement.

A U.S. Army Corps of Engineers 404 Permit and an Indiana Department of Environmental Management 401 permit are not required because we are not impacting jurisdictional wetlands.

The SWPPP (Storm Water Pollution Prevention Plan) has been approved by the Hamilton County Soil and Water District and the Rule 5, Notice of Intent, will be sent to the Indiana Department of Environmental Management (IDEM) upon Drainage Board approval of reconstruction.

An IDNR Construction in a Floodway permit is not required because the upstream watershed is less than 1 square mile and the Lee Lambert Regulated Open Channel is less than 10 miles in length.

**QUANTITIES & COST ESTIMATE**

The cost estimate for this work will be as follows:

Item Description	Quantity	Unit	Unit Cost	Total Cost
Excavation of Channel	4,890	LF	\$6.00	\$ 29,340.00
4"x20' CMP with Animal Guard	1	EA	\$500.00	\$ 500.00
6"x20' CMP with Animal Guard	7	EA	\$500.00	\$ 3,500.00
8"x20' CMP with Animal Guard	6	EA	\$650.00	\$ 3,900.00
10"x20' CMP with Animal Guard	3	EA	\$700.00	\$ 2,100.00
12"x20' CMP with Animal Guard	1	EA	\$900.00	\$ 900.00
Lower Existing 66" Farm Crossing	1	EA	\$6,000.00	\$ 6,000.00
Lower Existing 68" Farm Crossing	1	EA	\$6,000.00	\$ 6,000.00
Clearing	1	LS	\$7,500.00	\$ 7,500.00
Rip Rap Corner Protection	90	LF	\$90.00	\$ 8,100.00
Estimated Surface Water Pipes	5	EA	\$1,000.00	\$ 5,000.00
7-9 inch Rip Rap Installed for Farm Crossings & Tile Outlets	1	LS	\$30,000.00	\$ 30,000.00
Seeding for 20 Ft. Filter Strips	4	AC	\$2,500.00	\$ 10,000.00
Seeding for Channel Side Slopes	1.8	AC	\$3,500.00	\$ 6,300.00
Corrugated Alum. Drop Structure	1	EA	\$15,000.00	\$ 11,250.00
18" Double Wall, Smooth Bore Plastic Pipe	50	LF	\$3,750.00	\$ 3,750.00
		Sub-Total		\$134,140.00
		Contingency 15%		<u>\$ 20,121.00</u>
		Total		\$154,261.00

The Hamilton County Drainage Board determined on June 9, 2014 that only the benefitted drainage area for the reconstruction should be assessed for this reconstruction. (See Hamilton County Drainage Board Minutes Book 15, pages 444-445). The benefitted drainage shed for this reconstruction project is 625.05 acres. I have reviewed the benefitted drainage shed and upon considering each parcel individually, I believe each parcel within the drainage shed will have equal benefits 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 reconstruction of this drain. I recommend a reconstruction assessment of \$245.29 per acre with a minimum assessment of \$245.30.

## LANDOWNER PARTICIPATION

On June 25, 2014 an informational meeting was held with the major landowners adjacent to the Lee Lambert Drain. The meeting was held in the Commissioner's Conference Room 1A in the Hamilton County Judicial Center.

Thirteen (13) landowners and farmers attended the meeting. The project parameters were discussed and the preliminary reconstruction assessment roll was given to each landowner. All were in favor of the reconstruction project.

During this meeting, an upstream landowner asked if a grassed waterway could be added over the existing Lee Lambert regulated clay tile south of 276th Street. The Drainage Board decided on July 14, 2014 that the landowner should install his own grass waterway. (Hamilton County Drainage Board Minutes Book 15, pages 472).

Several landowners asked if the existing culvert at 276th Street could be replaced due to the frequent overtopping of the roadway. The Hamilton County Highway Department has agreed to upsize the culvert at 276th Street with an 81"x59" ( or larger) elliptical corrugated pipe at their expense. This will pass the 100 year storm event. The cost of the new culvert is not included in the cost of this project and is not included in the reconstruction assessment.

At this time the maintenance fund for the Lambert Drain is \$3,988.45 in the red. The drain has 655.75 acres in its drainage shed. The rates were increased in 2007 to the following:

1. Maintenance assessment for agricultural tracts at \$1.00 per acre with a \$15.00 minimum.
2. Maintenance assessment for non-platted residential tracts at \$1.00 per acre with a \$15.00 minimum.
3. Maintenance assessment for 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.
4. Maintenance assessment for platted lots within subdivisions whose drainage system will be part of the regulated drain shall be set at \$65.00 per lot/minimum. Common areas within the regulated drain subdivision, at \$10.00 per acre with a \$65.00 minimum.
5. Maintenance assessment for commercial, institutional and multi-family residential tracts at \$10.00 per acre with a \$75.00 minimum
6. Maintenance assessment for roads and streets \$10.00 per acre.

The above rates result in an annual assessment of \$1,075.74. I recommend the rates be increased to the following:

1. Maintenance assessment for agricultural tracts be set at \$3.00 per acre with a \$25.00 minimum.
2. Maintenance assessment for non-platted residential tracts be set at \$3.00 per acre with a \$25.00 minimum.
3. Maintenance assessment for platted lots in subdivision whose drainage system 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 set at \$5.00 per acres with a \$35.00 minimum.
4. Maintenance assessment for platted lots within subdivisions whose drainage system will be part of the regulated drain shall be set at \$65.00 per lot/minimum. Common area within the regulated drain subdivision shall be set at \$10.00 per acre with a \$65.00 minimum.
5. Maintenance assessment for commercial, institutional and multi-family residential tracts to be set at \$<sup>10.00</sup> per acre with a \$75.00 minimum.
6. Maintenance assessment for roads and streets be set at \$15.00 per acre.

This will result in an annual maintenance assessment of \$2,505.56.

I further recommend to the Board that the drain maintenance assessment collections be extended from four (4) times the annual collection to eight (8) times the annual collections as allowed in IC 36-9-27-43. This will allow an increase in the available balance in the fund in an amount of \$20,044.48 based on the proposed annual assessment. The Board will then be able to utilize maintenance fund monies to partially pay for future reconstruction projects. Under IC 36-9-27-45.5, the Board may transfer up to 75% of a maintenance fund to pay for reconstruction projects. This could reduce or eliminate the assessment for a future reconstruction.

I recommend the Board set a hearing for this proposed reconstruction project for November 24, 2014.

Sincerely,



Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/pll

AUG 5 - 2011

To: Hamilton County Drainage Board

OFFICE OF HAMILTON COUNTY SURVEYOR

Re: In the matter of the LEE LAMBERT Drain Petition

Comes now the undersigned individuals, who petition the Hamilton County Drainage Board, per IC 36-9-27, for the reconstruction of the above referenced regulated drain. The undersigned believe the following:

1. They are owners of ten percent (10%) in acreage or more of land area alleged by the petition to be affected by the drain.
2. That as property owners within the drainage shed, they are qualified petitioners.
3. That they now desire that a regulated drain be reconstructed in Adams Township.
4. The names and address of each owner affected by the proposed public drainage are attached hereto, made a part hereof, and marked Exhibit "A", which area of land involved in the proposed drainage area is located in section \_\_\_\_\_, township \_\_\_\_\_ north, range \_\_\_\_\_ east, Hamilton County, Indiana.
5. That the proposed reconstruction consists of Dredge LEE LAMBERT DRAIN to PRARIE CREEK
6. That in the opinion of the Petitioner, the costs, damages, and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land to be benefited thereby.
7. That in the opinion of the Petitioner, the proposed improvement will improve the public health; benefit a public highway; and be of public utility.
8. That Petitioners shall pay the cost of notice and all legal costs including engineering expense if the petition is dismissed.
9. Petitioners shall post a bond, if required, to pay the cost of notice and all legal costs in the case the improvement is not established.

Signature	Printed Name	Printed Address
<i>[Signature]</i>	<u>Dore C. Law</u>	<u>705w 246th. Tipton In. 46072</u>
<i>[Signature]</i>	<u>LAW BROS FARMS</u>	<u>29151 Horton Rd. Atlanta 43031</u>
<i>[Signature]</i>	<u>Law Bros Family Farms</u>	.. .. .
<u>Mark A. Law</u>	<u>MARK A. LAW</u>	<u>9890 Talwater Dr. Bloomington IN 47404</u>
<u>Mark A. Law</u>	<u>MARK A. LAW</u>	<u>9890 Talwater Dr. Bloomington IN 47404</u>
<u>Warren Crawford</u>	<u>WARREN CRAWFORD</u>	<u>12491 E Co. Rd 500 S. Tipton, In</u>
<u>STEPHEN WEBSTER</u>	<u>WEBSTER PROP. INC</u>	<u>P.O. BOX 272 SHERIDAN, IN 46069</u>
<i>[Signature]</i>	<u>2835 S SIX PTS RD</u>	<u>KAHA UTATI</u>
<i>[Signature]</i>	<u>Derek Delph</u>	<u>28292 N. Six Pts Rd Atlanta 46031</u>
<i>[Signature]</i>	<u>Walt Delph</u>	<u>29535 N. HORTON Atlanta In</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

FINDINGS AND ORDER

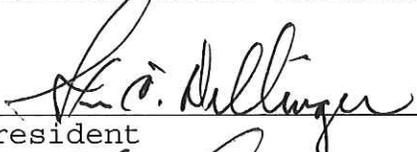
CONCERNING THE MAINTENANCE OF THE

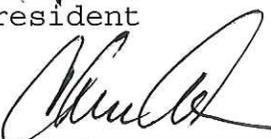
Lee Lambert Drain

On this 12<sup>th</sup> *day of January, 2015*, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Lee Lambert Drain*.

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
President

  
\_\_\_\_\_  
Member

  
\_\_\_\_\_  
Member

Attest:   
Executive Secretary

STATE OF INDIANA        )  
                                  ) ss:  
COUNTY OF HAMILTON    )

BEFORE THE HAMILTON COUNTY  
DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN THE MATTER OF THE  
RECONSTRUCTION OF THE  
*Lee Lambert Drain Reconstruction*

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the *Lee Lambert Drain Reconstruction* came before the Hamilton County Drainage Board for hearing on *January 12, 2014*, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

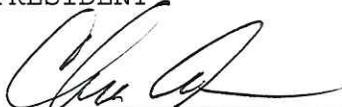
The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

Wherefore, it is ORDERED, that the proposed Reconstruction of the *Lee Lambert Drain Reconstruction* be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
PRESIDENT

  
\_\_\_\_\_  
Member

  
\_\_\_\_\_  
Member

ATTEST:   
Executive Secretary

11-14-2014

I, Ronald Delph want to reserve the right to speak at the Drainage Board Hearing on November 24, 2014.

*Ronald Delph*





Nov. 18, 20014  
27990 Ditch Road  
Meridan, W. 46069

Hamilton Co. Drainage Board  
One Hamilton County Square, Ste. 188  
Noblesville, In. 46060-2230

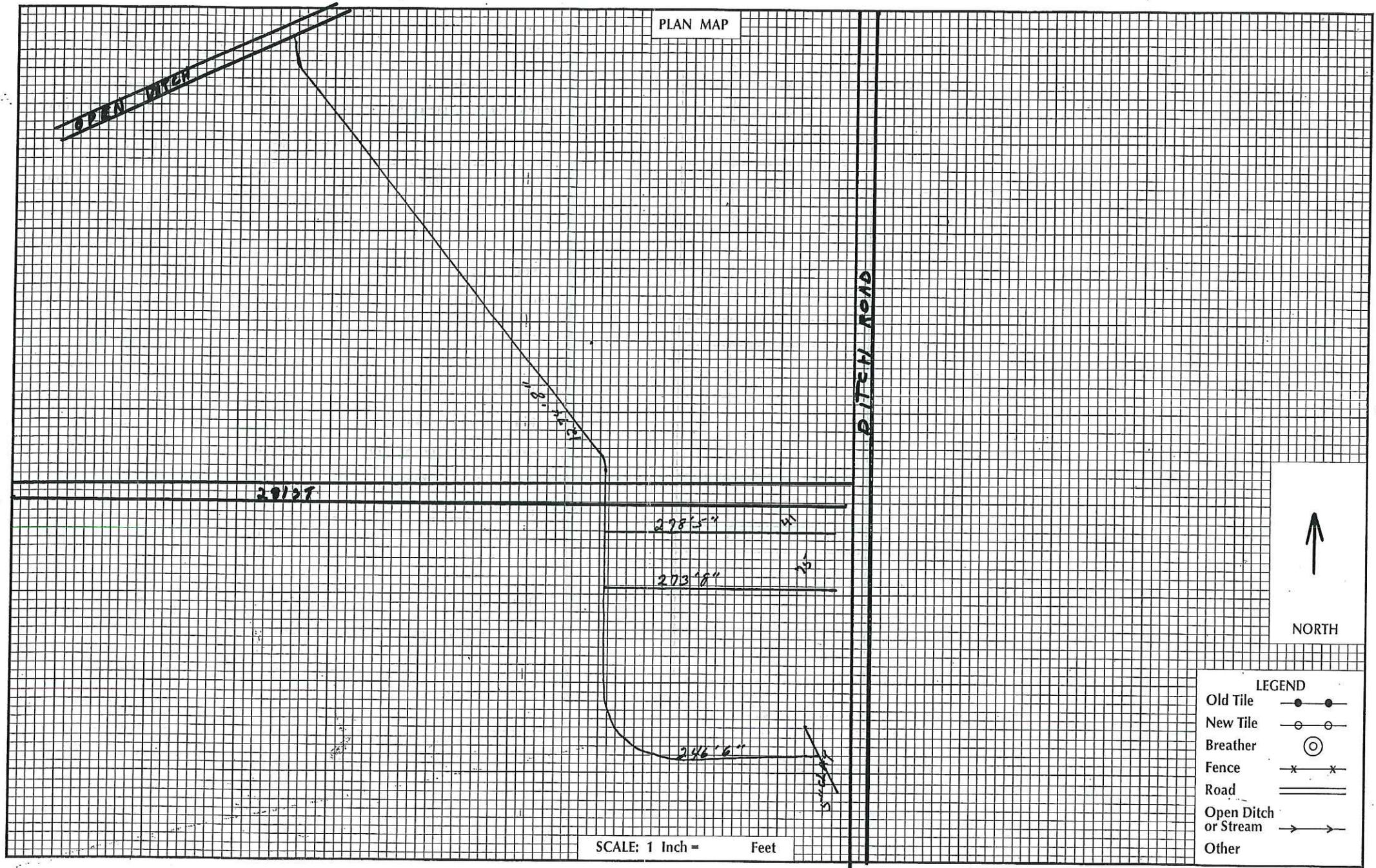
To: (whom it may concern):

This is to inform you that in 2004, we had installed an 8" (inch) tile that drains into Prairie Creek drain. ~~Thus~~ we do not have 8 acres draining into the Lombert drain. Here enclosed are maps to verify my claim. I did discuss this issue with someone in your office and thus the maps as indicated are enclosed. Now we are draining 95% of our water into our 8" tile.

Harold Mars

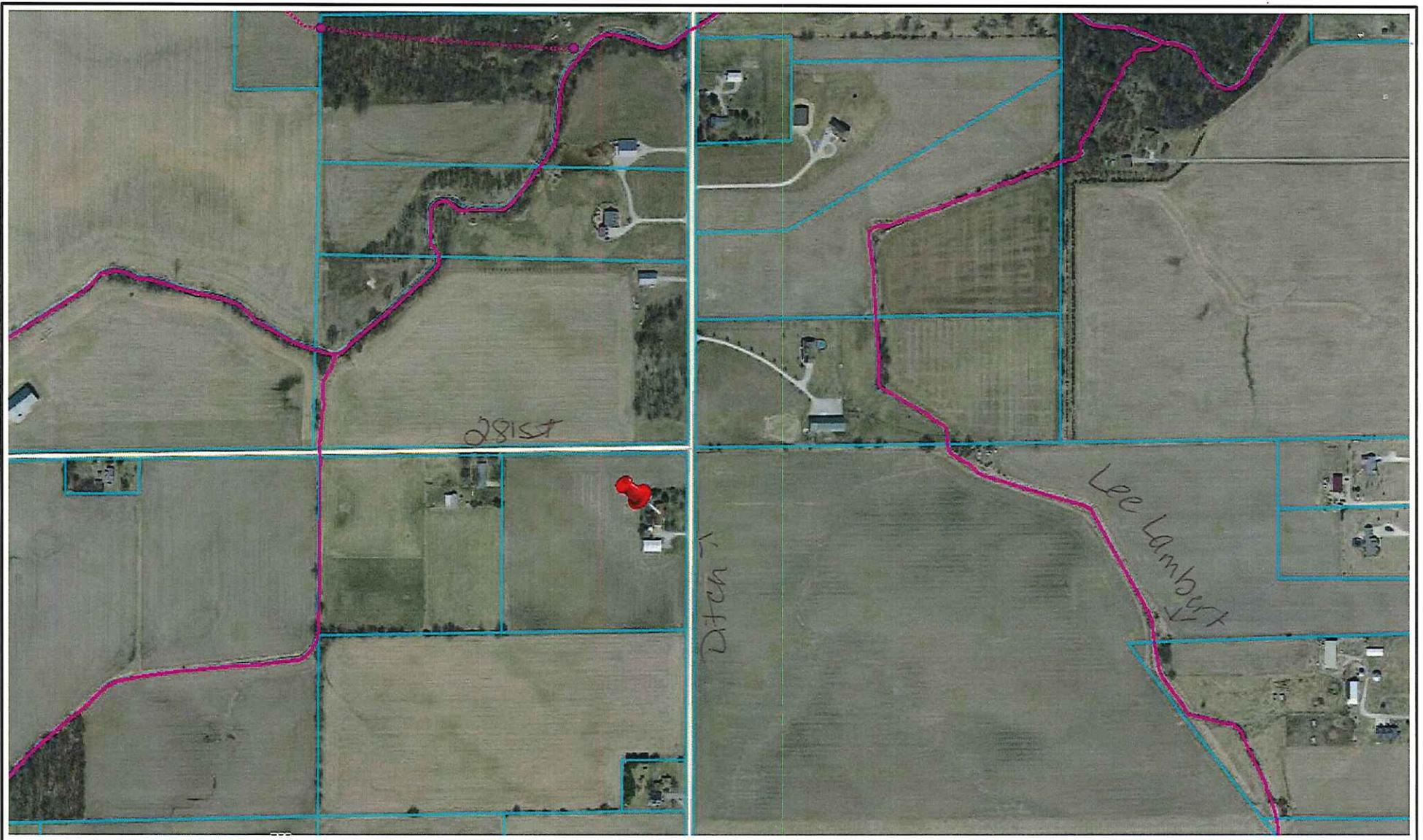
01-01-09-00-00-009.000





LEGEND

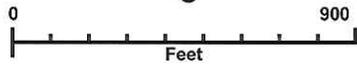
Old Tile	—●—●—
New Tile	—○—○—
Breather	⊙
Fence	—x—x—
Road	====
Open Ditch or Stream	—>—>—
Other	



# South of 281st West of Ditch

## Lee Lambert

Printed: Nov 20, 2014



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County of  
**Hamilton**  
Indiana  
[www.hamiltoncounty.in.gov](http://www.hamiltoncounty.in.gov)

OFFICE OF  
HAMILTON COUNTY DRAINAGE BOARD

October 24, 2014

Notice of Hearing on Reconstruction & Schedule of Assessments and Damages on the **Lee Lambert Drain**.

Mars, Harold W & Patricia L  
27990 Ditch Rd  
Sheridan, IN 46069

Under the Indiana Drainage Code, all land which drains directly, or indirectly, may be assessed for either maintenance cost or reconstruction cost within the drain. In making the calculation for each parcel, the Drainage Board must calculate the percentage of the cost attributable to each parcel of land benefitted. The Drainage Board has received a reconstruction report and schedule of assessments which affects your land. The purpose of the reconstruction project is to perform work which will substantially improve the drainage for the entire watershed served by the drain.

You are hereby notified that the reconstruction report of the County Surveyor and the schedule of assessments made by the Drainage Board have been filed and are available for public inspection in the office of the County Surveyor. The chart below contains your proposed assessment and your percentage of the total reconstruction assessment.

The reconstruction report of the Surveyor and schedule of damages and benefits as determined by the Drainage Board for the proposed improvement known as the **Lee Lambert Drain** have been filed and are available for inspection in the office of the County Surveyor. The schedule of assessments shows the following lands in your name are affected as follows. This assessment is not a charge for services associated with regulating the quality of storm water within your city or town.

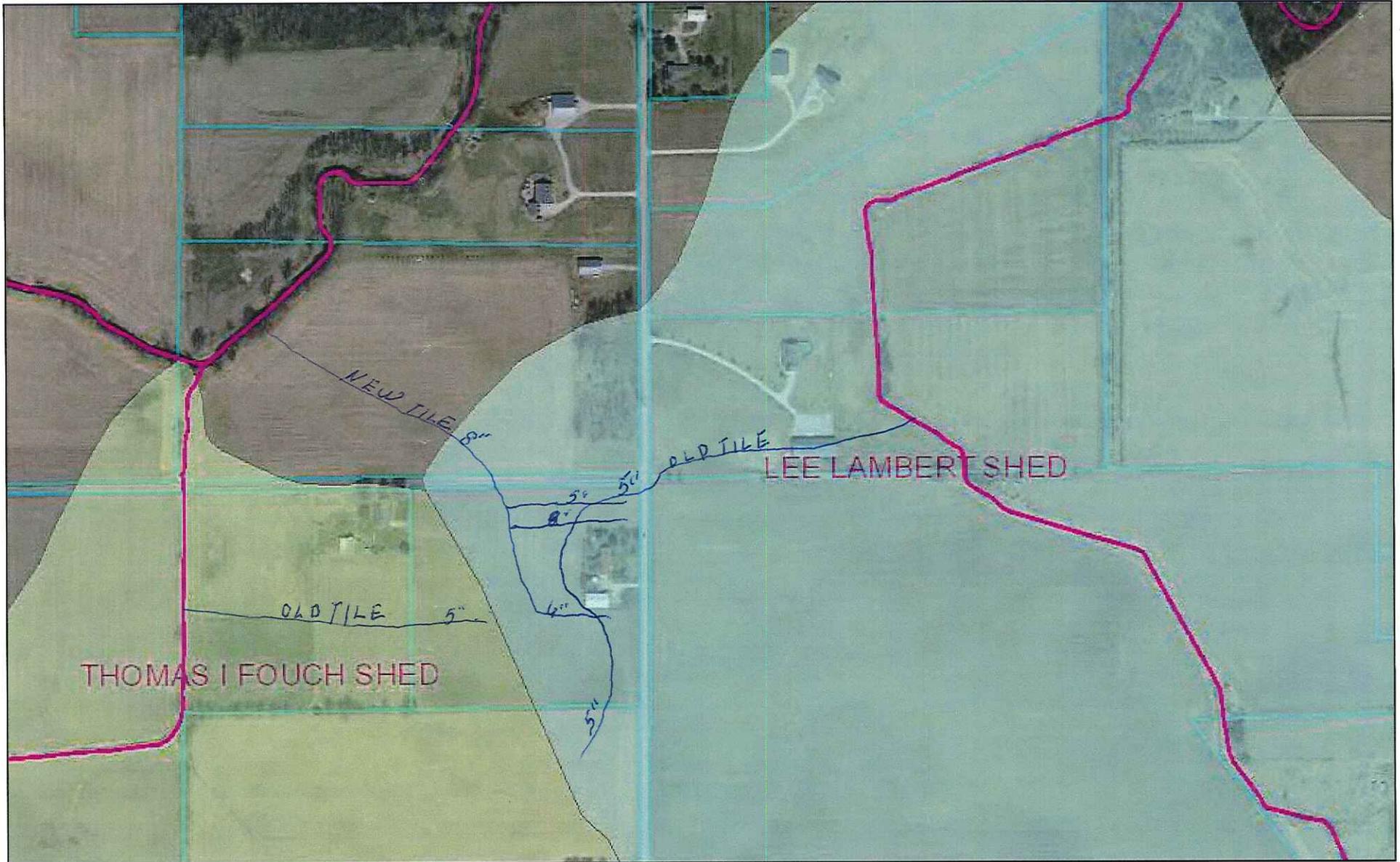
Parcel: 01-01-09-00-00-009.000 Rate:Residential/Ag	Maintenance Benefit	Current Assessment	Revised Assessment	Recon-struction Benefit	Reconstruction Assessment	% of Total
S9 T20 R3 10.00Ac	8.00	\$15.00	\$25.00	8.00	\$1,962.32	1.27%
The period of collection for maintenance will be until the fund has 8 times its annual assessment.						

The hearing on the Surveyor's reconstruction report and on the schedules of damages and assessments are set for hearing at **9:05 A.M. on November 24, 2014**, in the Commissioner's Court. The law provides that objections must be written and filed not less than 5 days before the date of the hearing. Objections may be for causes as specified by law and which are available at the Surveyor's Office. Written evidence in support of objections may be filed. The failure to file objections constitutes a waiver of your right to thereafter object, either before the Board or in court on such causes, to any final action of the Board. On or before the day of the hearing before the Board, the Surveyor shall and any owner of affected lands may cause written evidence to be filed in support of or in rebuttal to any filed objections.

HAMILTON COUNTY DRAINAGE BOARD  
One Hamilton County Square, Ste. 188  
Noblesville, IN 46060-2230

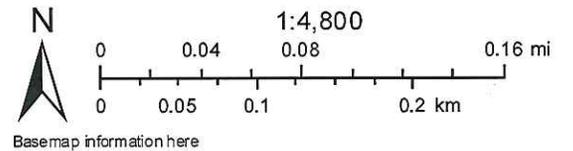
*For a copy of the Surveyor's Report to the Drainage Board and a copy of the map, if applicable, please go to [www.hamiltoncounty.in.gov/drainageboardnotices](http://www.hamiltoncounty.in.gov/drainageboardnotices).*

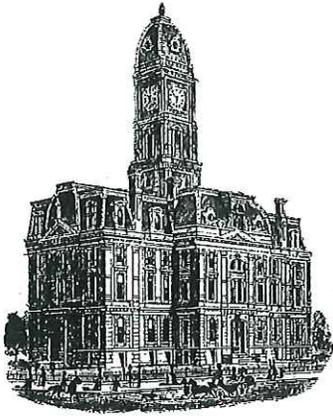
# Hamilton County Map



November 14, 2014

- <all other values>
- ⊕ MUNICIPAL MANHOLE
- Regulated Drains Text
- ..... CLOSED DRAIN





SURVEYOR'S OFFICE  
**Hamilton County**

*Kenton C. Ward, CFM*  
Surveyor of Hamilton County  
Phone (317) 776-8495  
Fax (317) 776-9628

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

November 20, 2014

Harold Mars  
27990 Ditch Road  
Sheridan, IN. 46069

RE: Lee Lambert Drain

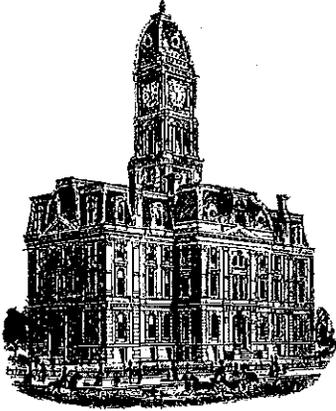
I received your letter of objection dated November 18, 2014 regarding the above referenced drain. Upon reading your objection I felt that I should respond.

Please be aware that all drainage sheds are based on surface flow of the storm water. Private tiles are not used to determine drainage sheds. The reason private tiles are not used is because this office has no knowledge where they are located, what size they are, how deep they are, what other tiles are tied into them and if there are any surface inlets. All of these factors can determine the area drained. Because we have no record of where these are located the existence of private tiles are not taken into account when determining drainage sheds.

Sincerely,

Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/pll



*Kenton C. Ward, CFM*  
*Surveyor of Hamilton County*  
*Phone (317) 776-8495*  
*Fax (317) 776-9628*

*Suite 188*  
*One Hamilton County Square*  
*Noblesville, Indiana 46060-2230*

To: Hamilton County Drainage Board

October 17, 2016

Re: Lee Lambert Regulated Drain Reconstruction  
Final Inspection Report

### **FINAL REPORT**

Please regard this letter as the inspector's final report on the Lee Lambert Regulated Drain Reconstruction, located in sections 9, 10, 15 and 16, Township 20 north and Range 3 east, Adams Township in Hamilton County, Indiana.

The Date of the Surveyor's Report for the Lee Lambert Regulated Drain Reconstruction was October 9, 2014. The reconstruction was approved by the Board on January 12, 2015 (Hamilton County Drainage Board Minutes Book (Book) 16 Pages 68 - 75). The engineer's estimate for the reconstruction was \$154,261.00. The bid was awarded to Culy Construction on March 23, 2015 ((Book 16, Pages 142-143). The base bid by Culy Construction was for the amount of \$90,000.00.

The reconstruction consisted of clearing and dredging 5470 feet beginning at the north side of 276th Street (station 0+41 of the new plans, station 34+97 of the original description). 600 feet of new 18" double wall, smooth bore plastic pipe was installed replacing the existing 18" regulated clay tile between Stations 28 +56 and Station 34+56 per the original description.

There were a total of six change orders for additional work or field revisions on the project as allowed by IC 36-9-27-80.5.

Change Order #1 was requested by the affected property owners to change the working sides of the ditch from the south and east sides of the open ditch to the north and west sides of the ditch. Property owners requesting the change were David Martin and John Miller. There is no change in cost for Change Order #1

Change Order #2 for the amount of \$725.00 approved by the board on September 28, 2016 (Book 16 Page 323). This change order was required to clean out the culvert pipe under 276th Street. Fluid Waste Services was utilized for the cleaning of the culvert pipe.

Change Order #3 for the amount of \$ 27,797.58 approved by the board on December 21, 2015 (Book 16 Page 410). This change was required due to poor sub soils (sand and gravel veins) encountered during the reconstruction of the Lee Lambert Drain. The areas where the sand and gravel were encountered were dug out and rip rap was keyed in in the areas to prevent undercutting the banks.

Change Order #4 for the amount of \$4,375.00 approved by the board on December 21, 2015 (Book 16 Page 411). This change was to have an additional 250 feet of 18" dual wall HDPE pipe south of 276th Street.

Change Order #5 for the amount of \$1,025.00 approved by the board on February 22, 2016 (Book 16 Page 461). This change was to add an additional 300 feet of 18" dual wall HDPE pipe south of 276th Street. Change Order #5 included the deletion of 5 surface water pipes that were not needed.

Change Order #6 for the amount of \$1,190.00 approved by the board on April 11, 2016 (Book 16 Page 514). This change order was to install two outlet pipes for private tiles that were encountered during the reconstruction and were provided proper outlets into the open ditch.

Partial Pay Requests by Culy Construction for this project submitted and paid as allowed in IC 36-9-27-81 are as follows:

Pay Request #1 submitted 8-31-2015	Paid 9-29-2015	\$43,605.00
Pay Request #2 submitted 10-12-2015	Paid 1-12-2016	\$23,627.94
Pay Request #3 submitted 1-14-2016	Paid 2-9-2016	\$29,303.75
Pay Request #4 submitted 4-18-2016	Paid 5-10-2016	\$9,192.75
Pay Request #5 Retainage submitted 11-04-2016	Paid 11-29-2016	<u>\$18,658.14</u>
Culy Construction Total		\$124,387.58

Fluid Waste Service cost Submitted 8-31-2015	Paid 10-13-2015	\$725.00
--	-----------------	----------

The final costs for the reconstruction are as follows:

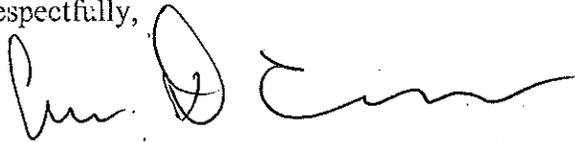
Contractor's Bid - Culy Construction -----	\$90,000.00
Cost by Culy Construction of Change Order # 1 -----	\$0.00
Cost by Fluid Waste Services of Change Order # 2 -----	\$725.00
Cost by Culy Construction of Change Order # 3 -----	\$27,797.58
Cost by Culy Construction of Change Order # 4 -----	\$4,375.00
Cost by Culy Construction of Change Order # 5 -----	\$1,025.00
Cost by Culy Construction of Change Order # 6 -----	<u>\$1,190.00</u>
Total construction Cost -----	\$125,112.58
Banning Engineering Surveying -----	\$7,314.27
Total reconstruction cost -----	\$132,426.85
Engineer's Estimate -----	\$154,261.00
Total Reconstruction Cost -----	<u>\$132,426.85</u>
Difference -----	\$21,834.15

Statement of All Incurred Expenses Paid signed by the contractor as required in IC 36-9-27-82(b) was received on September 28, 2016. At this time I would request that the retainage for this project be released when the request from the contractor is received.

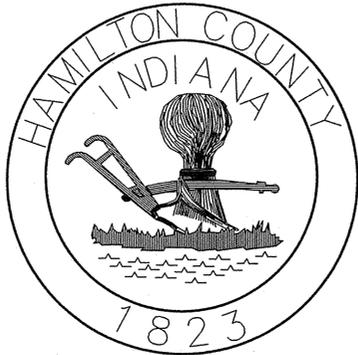
The construction staking and as-built (record) drawings were prepared by Banning Engineering per contract approved by the Board on April 13, 2015 (Book 16 Page 410). The total billed by Banning Engineering was \$7,314.27.

I recommend the Board approve the reconstruction as complete and acceptable.

Respectfully,

A handwritten signature in black ink, appearing to read 'Andrew Conover', written over a horizontal line.

Andrew Conover  
Inspector  
Hamilton County Surveyor's Office



# HAMILTON COUNTY SURVEYOR'S OFFICE

## the reconstruction of the lee lambert drain

KENTON C. WARD, COUNTY SURVEYOR  
HAMILTON COUNTY DRAINAGE BOARD

MARK HEIRBRANDT, president  
STEVEN C. DILLINGER, vice president  
CHRISTINE ALTMAN, member

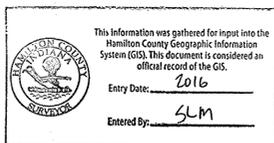
### UTILITY CONTACTS

Hamilton Co. Highway  
1700 S. Dunes Street  
Noblesville, Indiana 46060  
CONTACT: BRAD DAVIS  
(317) 773-7770

## RECORD DRAWINGS

S:\GIS\PROJECTS\Legal Drains\1TEMPLATES2012\holeymoley-bw

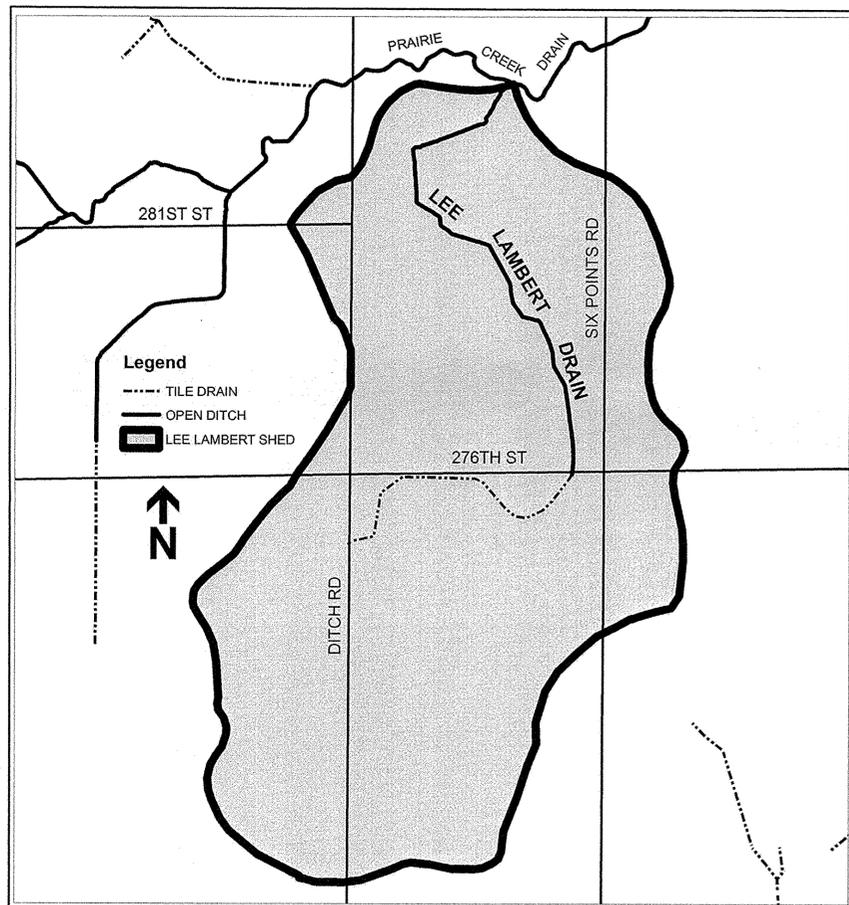
(877) 230-0495



### Certificate of Survey

I hereby state that the record information provided herein is true and correct to the best of my knowledge and belief and was collected under my supervision with the field data completed on February 09, 2016. The record information pertains to the location and elevation of the overbank, top-of-bank, toe-of-slope, and flowline associated with the Lee Lambert Ditch. The elevations on soft surfaces are accurate to within 0.10 feet and were gathered using a robotic total station and standard radial surveying techniques.

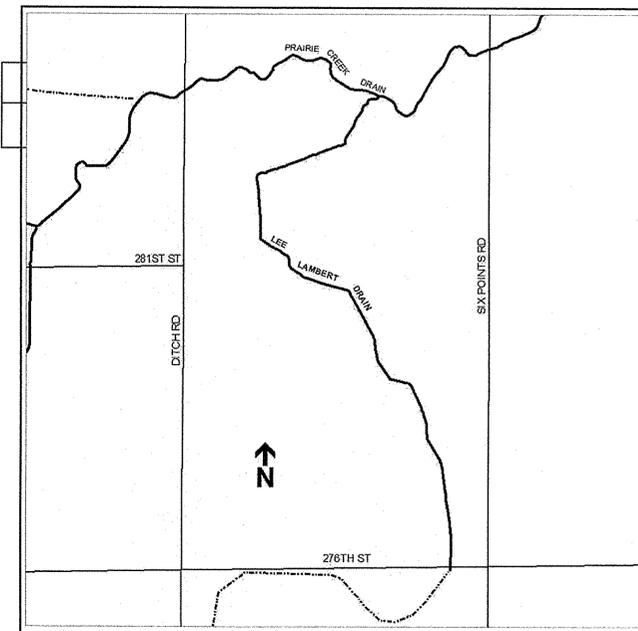
Prepared by:  
*Brian L. Haggard*  
Brian L. Haggard  
Registered Land Surveyor - LS29800001  
State of Indiana



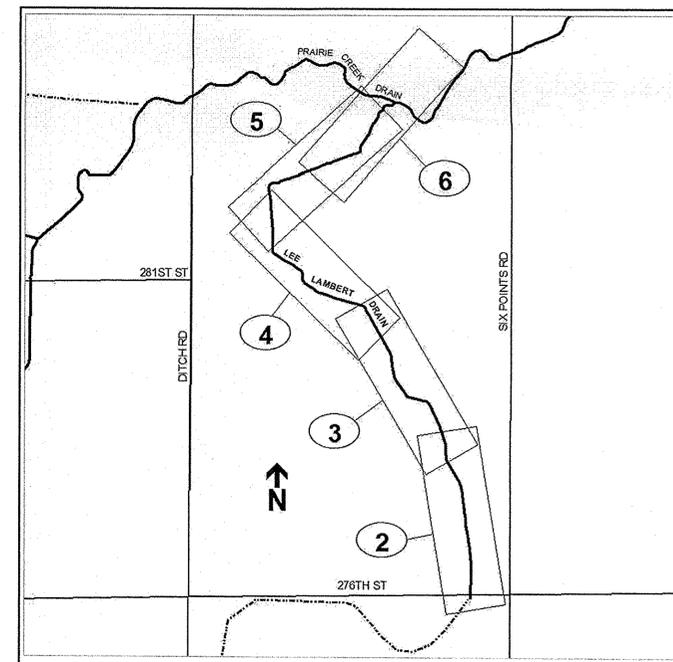
WATERSHED AREA NOT TO SCALE

### BENCHMARKS

job benchmark  
c.G.S. MONUMENT E.KIN. A BRASS DISK IN CONCRETE AT THE  
SOUTHEAST INTERSECTION OF 286TH STREET AND HORTON ROAD,  
elevation 911.48.  
SITE TBM  
MAG SPIKE SET IN THE NORTH EDGE OF PAVEMENT OF 276TH  
STREET AT THE LEE LAMBERT DRAIN, elevation 921.75



SITE LOCATION MAP NOT TO SCALE



KEY MAP NOT TO SCALE

### SHEET INDEX

SHEET NO	Description
1	title sheet
2-6	plan and profile sheets
7-8	CROSS SECTION SHEETS
9-11	STORMWATER POLLUTION PREVENTION
12-13	HAMILTON COUNTY STANDARD DETAILS

HAMILTON COUNTY, INDIANA  
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surveyor@HAMILTONCOUNTY.IN.GOV



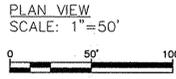
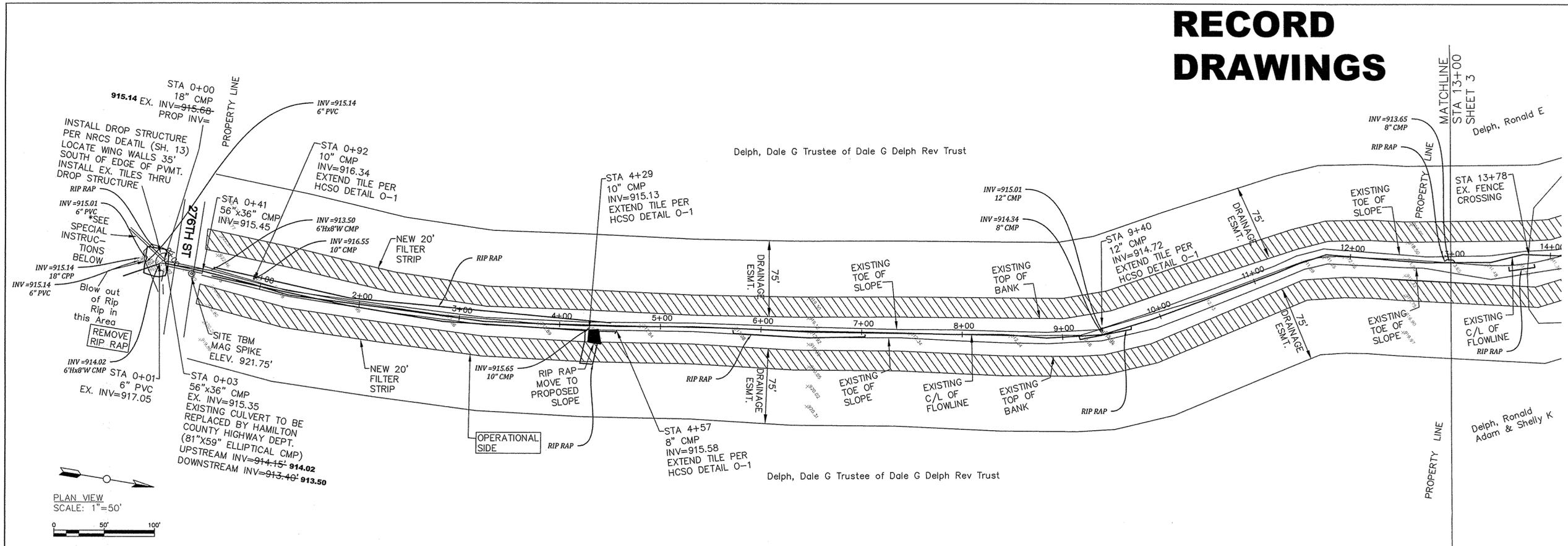
Project No:	Watershed No:
Field By: JKM/BKR	Drawn By: DMW
Checked By: CLK	Date: 07/11/2016

By: RJS	Date: DATE
Revisions:	REVISIONS:

Certified By:  
Christie L. Kallio, P.E.

Project Name:  
LEE LAMBERT DRAIN RECONSTRUCTION  
TITLE SHEET  
SHEET NO.  
1 OF 13  
PLOT DATE: Jul 11, 2016 -- 7:02am

# RECORD DRAWINGS

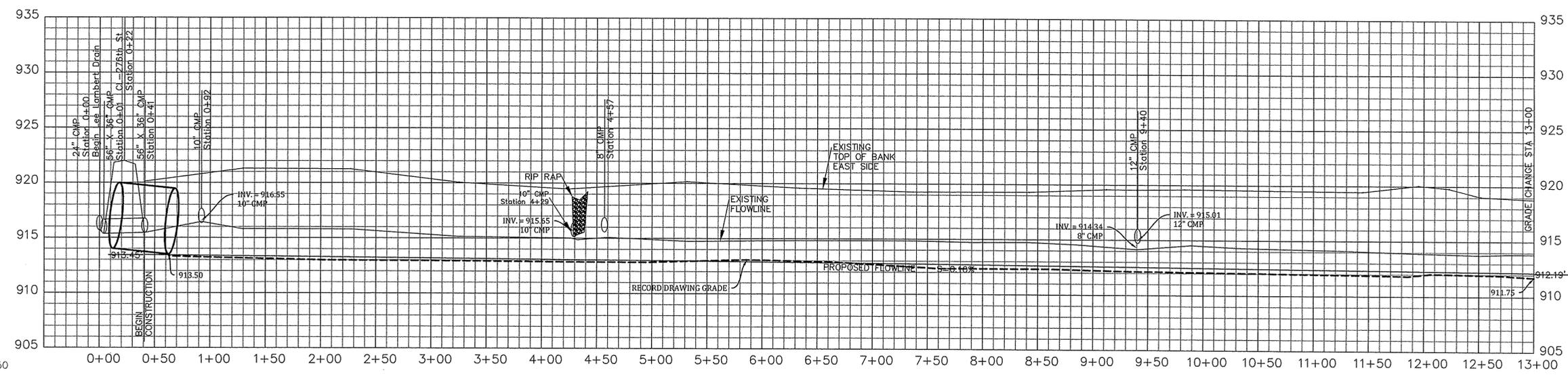


\*REMOVE 50' OF EXISTING 18" TILE AND REPLACE WITH NEW 18" DOUBLE WALL SMOOTH BORE PLASTIC PIPE. JOIN EXISTING 18" TILE & PROFILE NEW 18" PIPE TO MEET DROP STRUCTURE AT ELEVATION 914.75' INV. INSTALL GRASS WATERWAY OVER NEW PIPE PER HCSO INSPECTOR

This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.  
Entry Date: 7/16  
Entered By: GJM

- NOTES:
- 1.) TREE CLEARING AS NEEDED PER HCSO DETAIL 00-1 & 00-3. CONTRACTOR TO COORDINATE WITH HCSO INSPECTOR.
  - 2.) HCSO INSPECTOR TO COORDINATE FENCE REMOVAL, FENCE REPLACEMENT AND GATES WITH PROPERTY OWNERS.
  - 3.) BANKS SHALL BE ARMORED PER HCSO DETAIL 0-4 ON ALL TILE EXTENSIONS.
  - 4.) SPOIL FROM CHANNEL EXCAVATION SHALL BE SPREAD ON OPERATIONAL SIDE PER HCSO DETAIL 00-8 ON OPERATIONAL SIDE.
  - 5.) CORNER PROTECTION AS INDICATED ON PLANS SHALL BE PER HCSO.
  - 6.) FILTER STRIPS SHALL BE 20' WIDE ON EACH SIDE OF CHANNEL IN AGRICULTURAL GROUND.
  - 7.) INSTALL SURFACE WATER PIPES PER HCSO DETAIL 00-8 PER DIRECTION OF HAMILTON COUNTY INSPECTOR.

CROSS SECTION SCALE: 1"=20'



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

HAMILTON COUNTY, INDIANA  
Hamilton County Surveyor's Office  
Hamilton County Government and Judicial Center  
One Hamilton County Square, Suite 188  
Noblesville, IN 46060  
phone: (317) 776-8495  
fax: (317) 776-9628  
surveyor@HAMILTONCOUNTY.IN.GOV

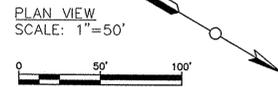
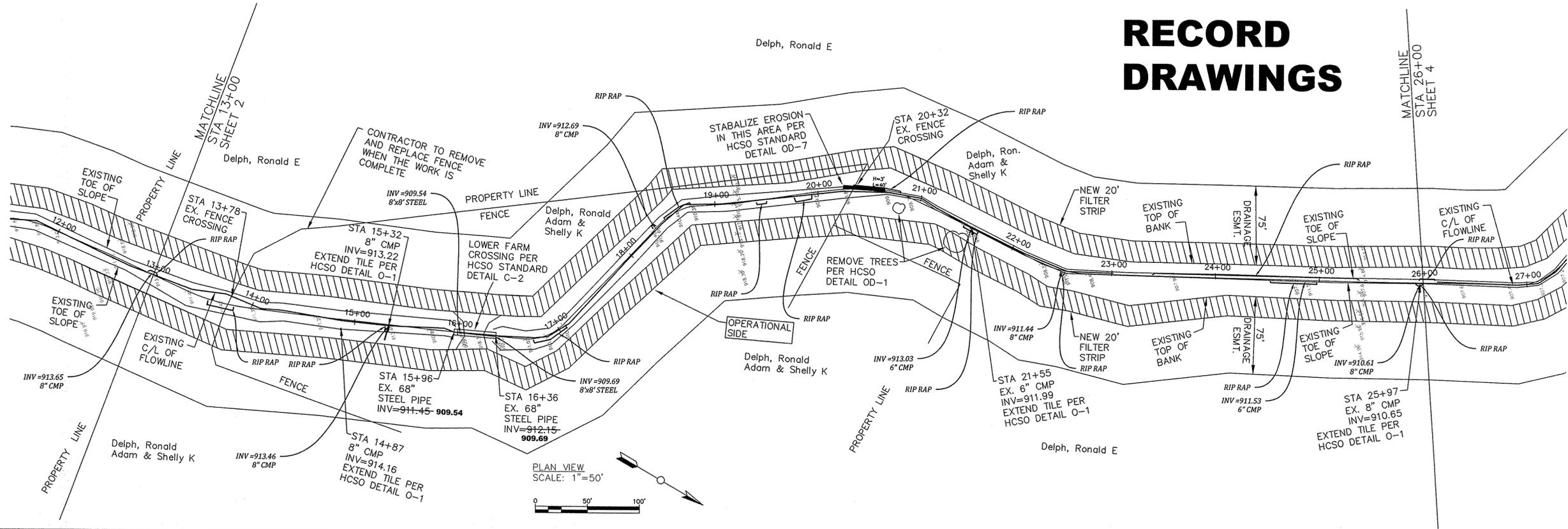


Project No:	Watershed No:
By:	Field By: JKM/bkr
Date:	Drawn By: DMW
Revisions:	Checked By: CLK
REVISIONS:	DATE: 07/11/2016

Certified By:  
Christie L. Kallio, P.E.

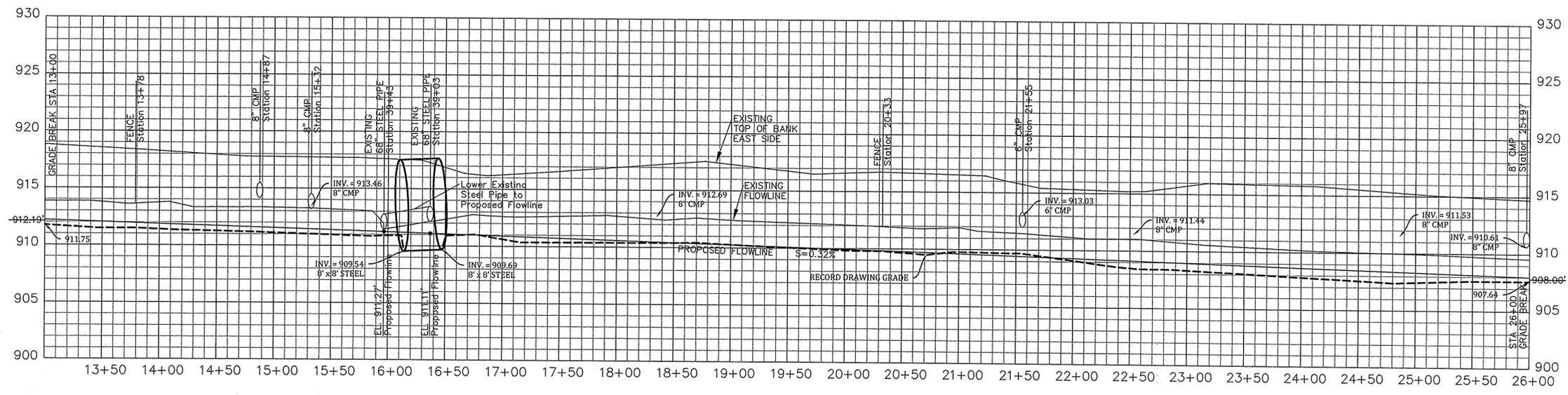
Project Name:  
LEE LAMBERT DRAIN RECONSTRUCTION  
PLAN & PROFILE SHEET  
Plot DATE: Jul 11, 2016 - 10:56am

# RECORD DRAWINGS



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.  
 Entry Date: 2016  
 Entered By: SLM

CROSS SECTION SCALE: 1\"/>



PROFILE VIEW  
 HORIZONTAL SCALE: 1\"/>

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 surveyor@HAMILTONCOUNTY.IN.GOV

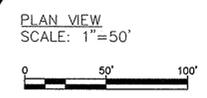
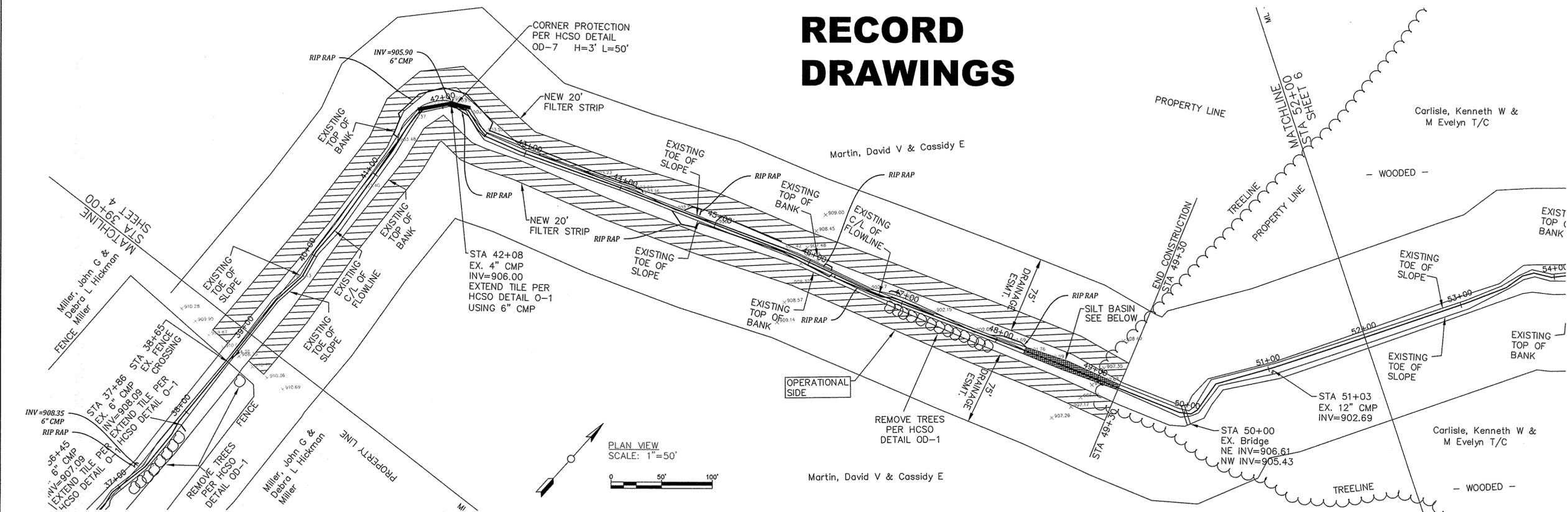
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**By:** DMW **Field By:** Jkm/bkr  
**Date:** DATE **Drawn By:** DMW  
**Revisions:** REVISIONS **Checked By:** CLK  
**DATE:** 07/11/2016

Certified By: \_\_\_\_\_  
 Christie L. Kallio, P.E.

Project Name: LEE LAMBERT DRAIN RECONSTRUCTION  
 PLAN & PROFILE SHEET  
 SHEET NO. 3 of 13  
 PLOT DATE: Jul 11, 2016 - 10:56am



# RECORD DRAWINGS

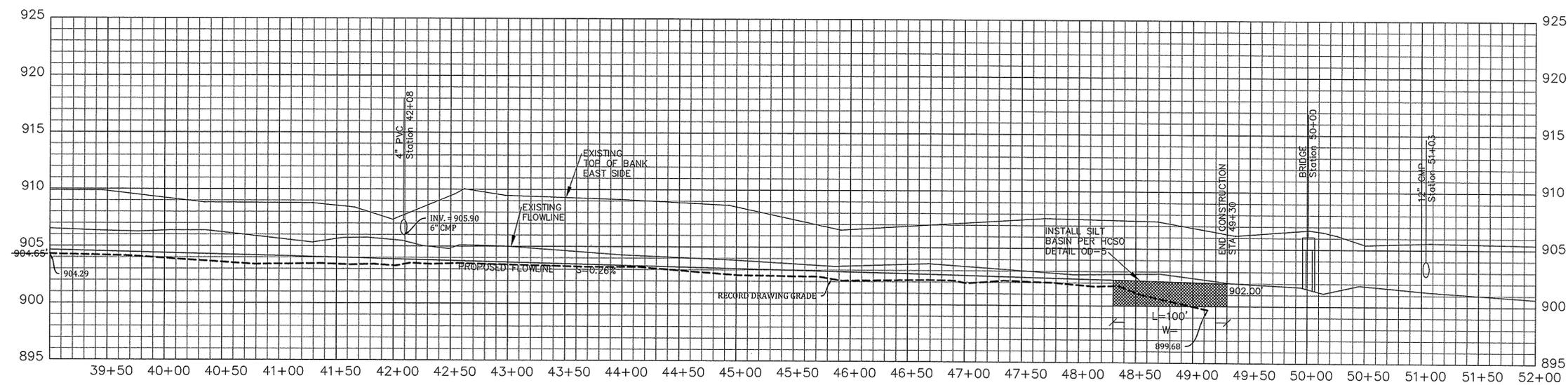


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Entry Date: 2016

Entered By: SLM

CROSS SECTION SCALE: 1"=20'



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

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Project No:	Watershed No:
By: DMW	Field By: JKM/bsr
Date: DATE	Drawn By: DMW
Revisions:	Checked By: CLK
REVISIONS:	DATE: 07/11/2016

Certified By:   
Christie L. Kallio, P.E.

Project Name: **LEE LAMBERT DRAIN RECONSTRUCTION**

PLAN & PROFILE SHEET

PLOT DATE: Jul 11, 2016 - 10:56am

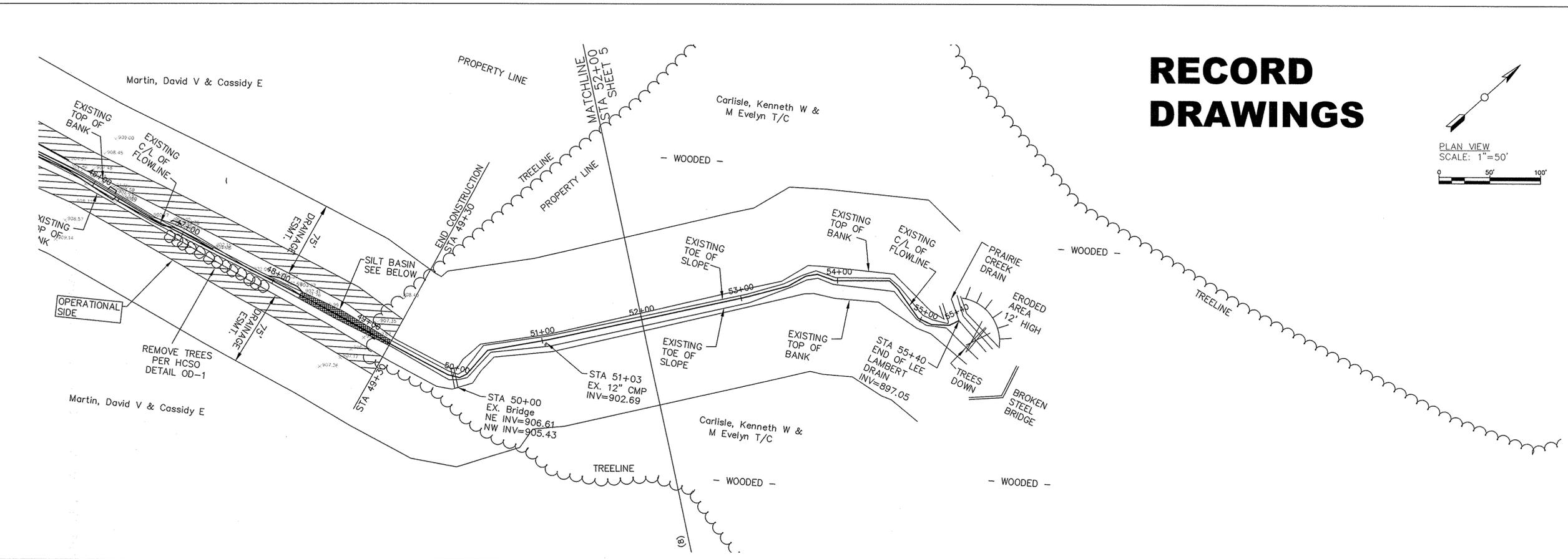
SHEET NO. **5 of 13**

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Jul 11, 2016 - 10:56am

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Jul 11, 2016 - 10:56am



# RECORD DRAWINGS

PLAN VIEW  
SCALE: 1"=50'

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Hamilton County Government and Judicial Center  
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Noblesville, IN 46060  
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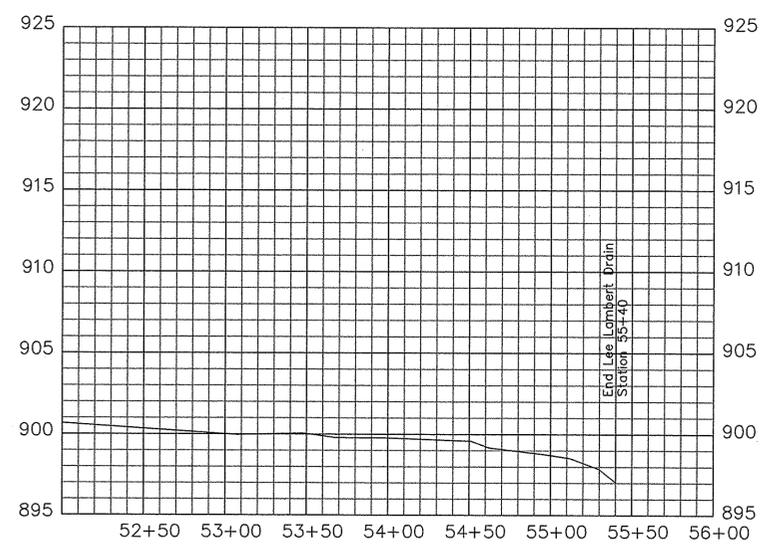


Project No:	Watershed No:
By:	DMW
Date:	DATE
Revisions:	REVISIONS:
Field By:	JKM/bkr
Drawn By:	DMW
Checked By:	CLK
DATE:	07/11/2016

NO CONSTRUCTION

This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.  
Entry Date: 2016  
Entered By: SLM

CROSS SECTION  
SCALE: 1"=20'



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

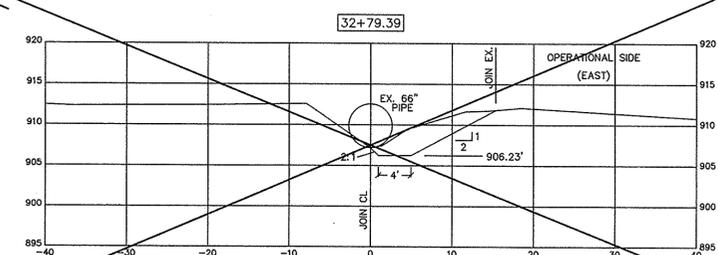
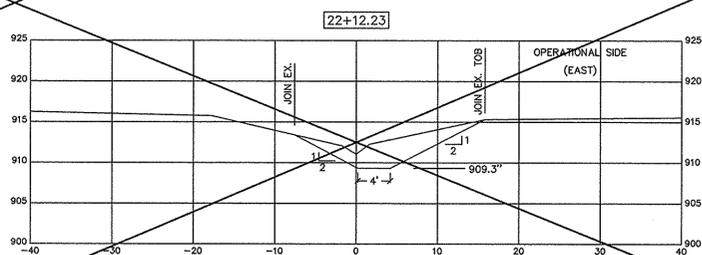
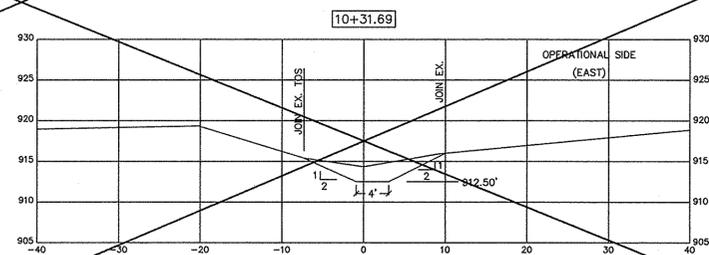
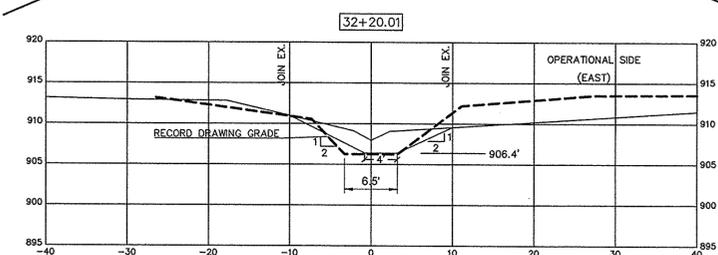
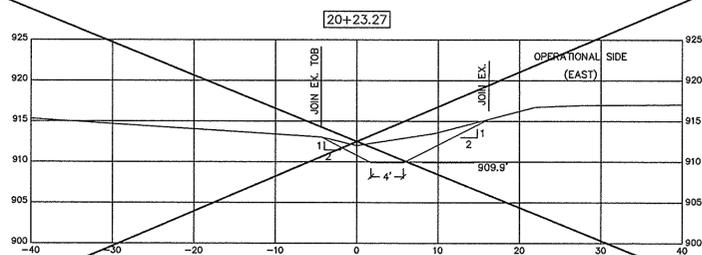
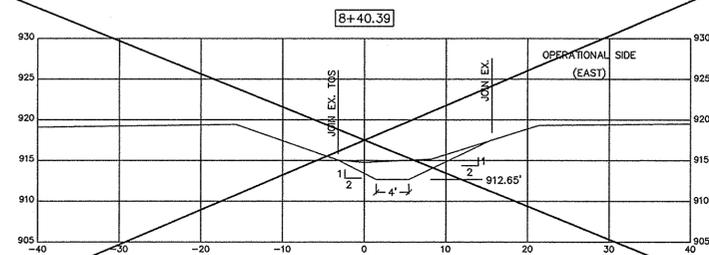
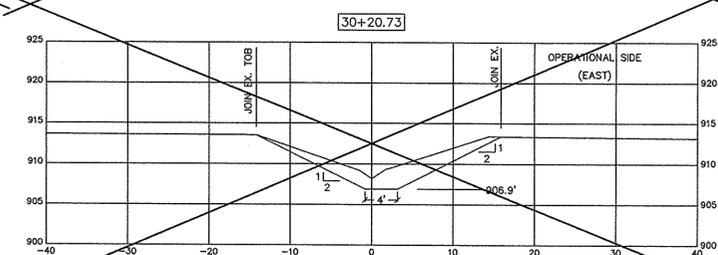
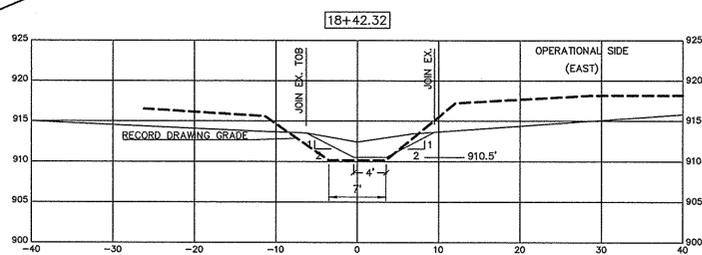
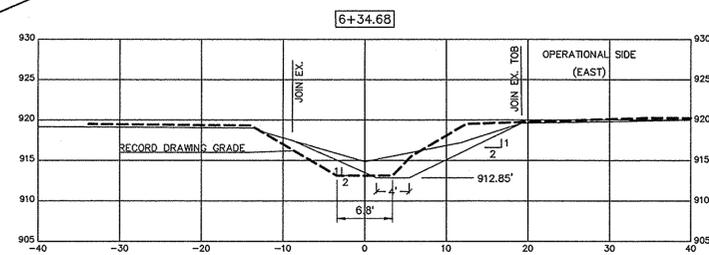
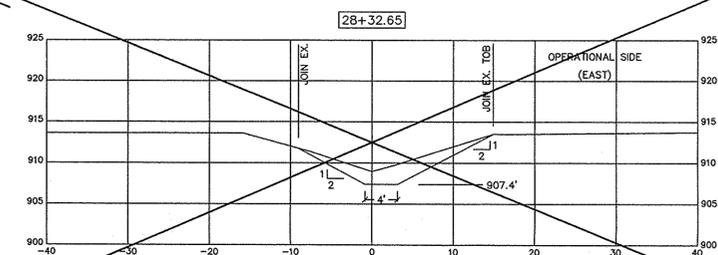
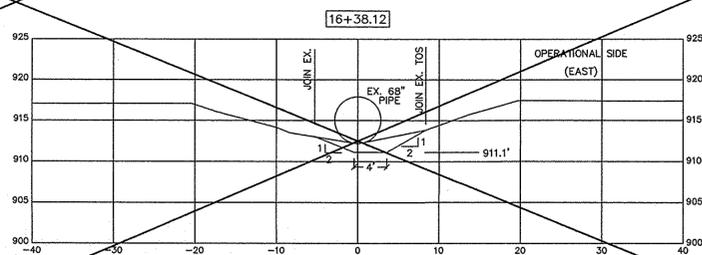
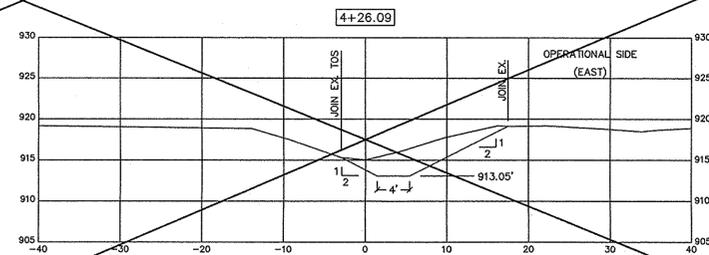
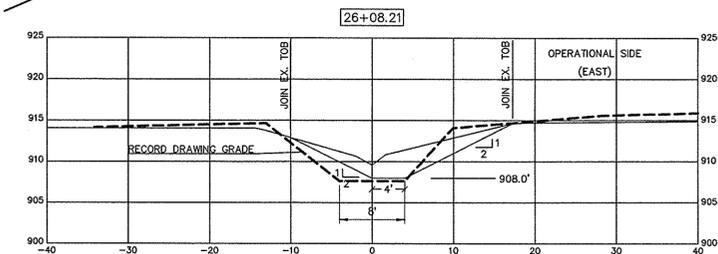
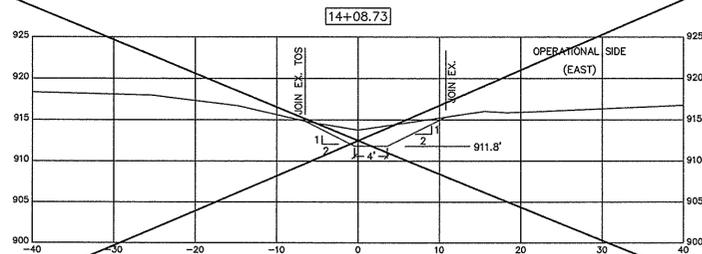
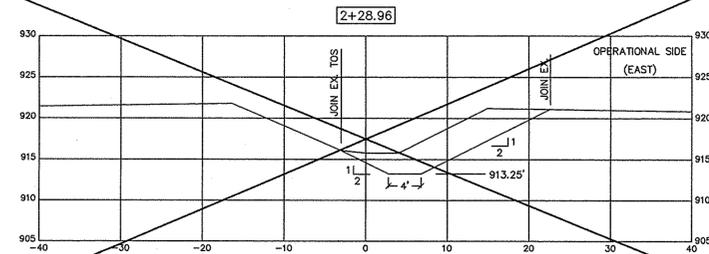
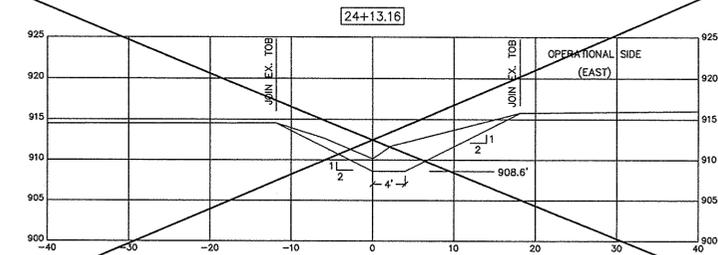
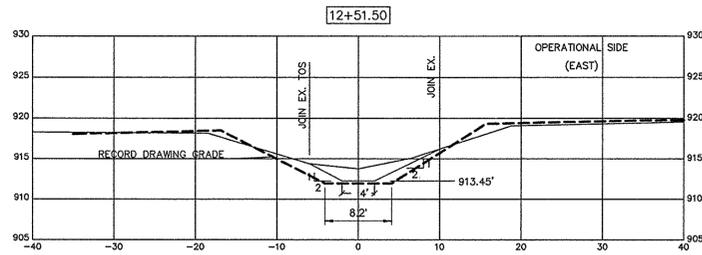
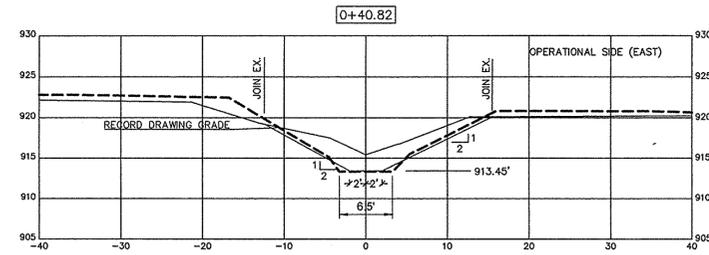
Certified By:  
Christie L. Kallio, P.E.

Project Name:  
LEE LAMBERT DRAIN  
RECONSTRUCTION  
PLAN & PROFILE SHEET  
PLOT DATE: Jul 11, 2016 - 10:56am

SHEET NO.  
0 of 13

# RECORD DRAWINGS

CROSS SECTION  
SCALE: 1"=10'



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Hamilton County Surveyor's Office  
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One Hamilton County Square, Suite 188  
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surveyor@HAMILTONCOUNTY.IN.GOV



Project No: \_\_\_\_\_  
Watershed No: \_\_\_\_\_  
Field By: JKM/bkr  
Drawn By: DMW  
Checked By: CLK  
DATE: 07/11/2016

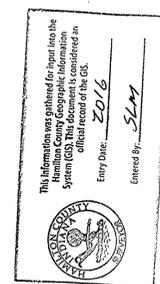
By: DMW  
Date: \_\_\_\_\_

Revisions:  
REVISIONS:

Certified By:

Christie L. Kallio, P.E.

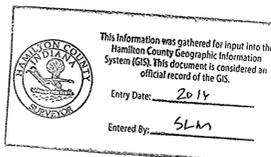
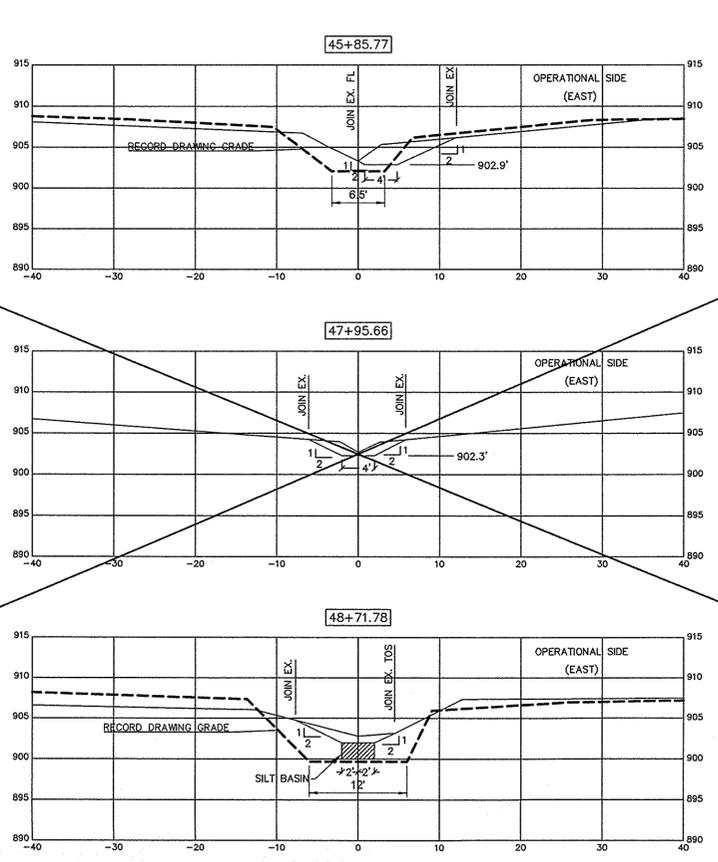
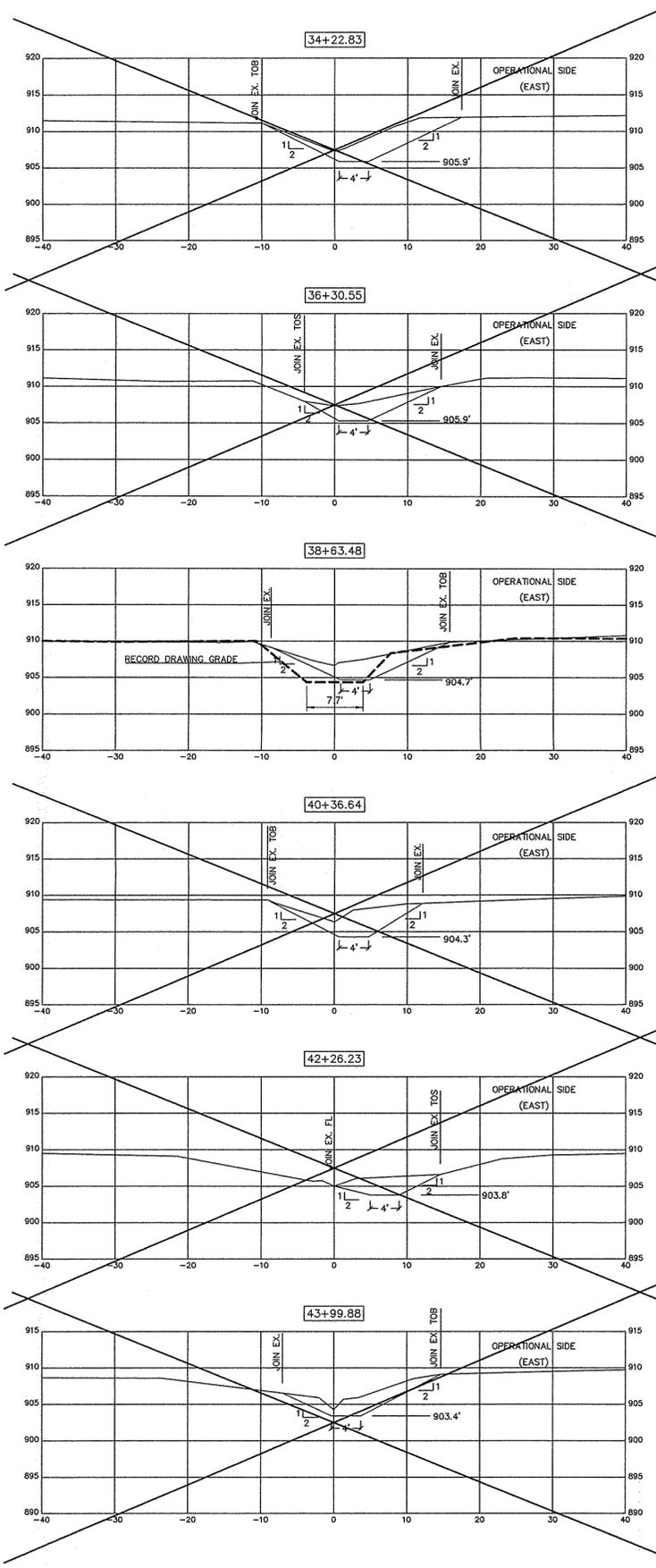
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**LEE LAMBERT DRAIN  
RECONSTRUCTION**  
cross section SHEET  
SHEET NO.  
7 of 13  
PLOT DATE: Jul 11, 2016 - 10:57am



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Jul 11, 2016 - 10:57am

# RECORD DRAWINGS



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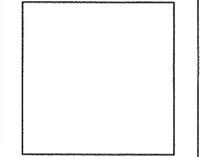


Project No: \_\_\_\_\_  
Watershed No: \_\_\_\_\_  
Field By: JKM/bkr  
Drawn By: DMW  
Checked By: CLK  
DATE: 07/11/2016

By: DMW

Date: DATE

Revisions:  
REVISIONS:



Certified By:  
Christie L. Kallio, P.E.

Project Name:  
**LEE LAMBERT DRAIN  
RECONSTRUCTION**  
cross section SHEET

PLOT DATE: Jul 11, 2016 - 10:57am