

*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*

April 7, 2015

To: Hamilton County Drainage Board

**RE: Cool Creek Drain, William Knight Arm Reconstruction**

Attached are a petition, plans, specifications, drain map, drainage-shed map, and schedule of assessments for the reconstruction of the William Knight Arm of the Cool Creek Drain. The William Knight Arm is in need of reconstruction at this time due to its lack of adequate capacity and the drain conditions that have deteriorated beyond the practicality of normal routine maintenance.

The William Knight Drain, now an arm of the Cool Creek Drain, was petitioned by William Knight on the 25<sup>th</sup> day of July 1903 and filed with the Commissioners' Court on October 24, 1903. The William Knight Drain consisted of both open drain and tiled drain. The length of drain currently being proposed for reconstruction, at this time, starts at the existing terminus at Sta. 28+89, and follows the existing 10", 12", and 15" tile upstream to approximately Sta. 2+25, per the 1903 legal description. The original tile between Sta. 28+89 and the original terminus at Sta. 32+25 of the original legal description was removed and dug out as an open ditch (waterway) in 1981 with the drain reconstruction at that time, but not reflected in the drain records. The drainage area covers portion of Washington Township in Hamilton County and benefits properties in Township 18 North, Section 10 and 11, Range 3 East with a total drainage area of approximately 110.5 acres.

**Reconstruction Project:**

The reconstruction of the drain from Sta. 32+25 to Sta. 2+25 will closely follow the route of the original tile as shown in the Knight Legal Drain Reconstruction plans by Banning Engineering, having job number 07053. The new drain will run south of the original tile between Str. 105 to Str. 109, to avoid a 20" water main that runs right next to the original drain. The new reconstructed drain will start at Str. 100, running west to Str. 101, 102, 103, 104, 105, 106, 107, 108, and 109, where it intercepts the original tile at Str. 2+25. The arm between Str. 105 at Str. 112 follows the existing tile and picks up the tile drainage which may be entering the existing tile from the north.

The arm between Str. 109, 110, and 111 will serve the new development proposed by Cooperstown Partners, LLC. at the southeast corner of Springmill Road and 161<sup>st</sup> Street. The storm

sewer system within this development will continue the drain west to Springmill Road to provide a drainage outlet point for the area west of Springmill Road.

The storm sewer design is for the allowable runoff rates for the drainage basin to be based upon the post developed rates of 0.1 cfs per acre for the 0 to 10 year, 24-hour storm event and 0.3 cfs per acre for the 11 to 100 year, 24 hour storm event.

The reconstruction of this drain from Str. 100 to Str. 105 will not require acquisition of new easement for that entire length of the drain, since it is being reconstructed in place and the existing 75 foot easement from the center line of tile, per IC 36-9-27-33, will be maintained. The drain easement for the new pipe from Str. 105 to Str. 109 will remain the 75 foot easement from the centerline of the original 1903 legal description, with the new drain being offset to the south of that centerline varying distance from 17 to 32 feet. The easement for the new pipe from Str. 105 to 112 falls within the existing 75 foot easement from the original centerline of the drain. New easement for the new extension from Str. 109 to Str. 111 is being purchased by Cooperstown Partners, LLC. and will be granted to the Hamilton County as regulated drain easement on parcels:

<u>Parcel</u>	<u>Owner</u>
08-09-11-00-00-023.006	John & Carol Ruddock
08-09-11-00-00-023.007	Carmel Bible Methodist Church
08-09-11-00-00-023.008	Fred & Maureen Boyer

The new length of footage to be added to the William Knight Arm with this report is 596 feet, with 43 feet being from Str. 105 to 112 and 553 feet from Str. 109 to Str. 111.

**QUANTITIES & COST ESTIMATE – Str. 100 to Str. 109 and Str. 105 to Str. 112**

The cost estimate for this work shall be as follows:

30" HDPE Perforated Pipe w/ Backfill – 1037 feet @ \$79.00 per foot	\$ 81,923.00
24" HDPE Perforated Pipe w/ Backfill – 976 feet @ \$61.00 per foot	\$ 59,536.00
18" HDPE Perforated Pipe w/ Backfill – 289 feet @ \$55.00 per foot	\$ 15,895.00
24" RCP w/ Backfill under Driveway – 39 feet @ \$74.00 per foot	\$ 2,886.00
24" RCP w/ Backfill – 415 feet @ \$66.00 per foot	\$ 27,390.00
18" PVC SDR 21 w/ Backfill – 43 feet @ \$100.00 per foot	\$ 4,300.00
7 Manholes w Casting – 4'	\$ 28,000.00
2 Manholes w Casting – 5'	\$ 10,000.00
Existing Manhole Removal – 4 @ \$750.00 each	\$ 3,000.00
Flowable Fill at Waterline Crossing – 1 @ \$500.00 each	\$ 500.00
Destroying & Removing of Old Tile – 2804 feet @ \$1.50 per foot	\$ 4,206.00

Seeding & Mulching	\$ 6,264.00
Tree Removal	\$ 3,063.00
Stone Driveway Repair – 2 locations	\$ 4,000.00
Fence Repair	\$ 3,500.00
Sub Total	\$254,463.00
+ 15% contingencies	\$38,133.00
<b>Total</b>	<b>\$292,596.00</b>

At this time, all monies in the William Knight maintenance fund have been expended on the maintenance needs of the drain. In my opinion, the maintenance fund balance for the Cool Creek Drain (#345) is in excess of the amount reasonably needed in that fund for maintenance work in the foreseeable future; therefore, I recommend that a portion of this balance be transferred to this reconstruction. The maintenance fund transfer is as outlined in I.C. 36-9-27-45.5. The current maintenance fund balance for Cool Creek is \$873,995.89 and up to a maximum of \$292,596.00 will be transferred for this project to fund the construction from Str. 100 to Str. 109 and Str. 105 to Str. 112.

**QUANTITIES & COST ESTIMATE – Str. 109 to Str. 111**

The cost estimate for this work shall be as follows:

18" RCP w/ Backfill – 509 feet @ \$60.00 per foot	\$ 30,540.00
18" PVC SDR 21 w/ Backfill – 44 feet @ \$100.00 per foot	\$ 4,400.00
3 Manholes w Casting – 4'	\$ 12,000.00
Flowable Fill at Waterline Crossing – 1 @\$500.00 each	\$ 500.00
Seeding & Mulching	\$ 1,236.00
Tree Removal	\$ 437.00
Sub Total	\$49,113.00
+ 15% contingencies	\$7,367.00
<b>Total</b>	<b>\$56,480.00</b>

The cost of the drain extension from Str. 109 to Str. 111 to service the commercial development area being developed by Cooperstown Partners, LLC should be assessed to them. The total assessment for this extension assessed to the developers should be \$56,480.00. The developer has also paid for the engineering and design cost of this reconstruction. The parcels that make up the commercial development are:

<u>Parcel</u>	<u>Owner</u>
08-09-11-00-00-023.008	Fred & Maureen Boyer
08-09-11-00-00-023.004	Fred & Maureen Boyer
08-09-11-00-00-023.000	Fred & Maureen Boyer
08-09-11-00-00-023.003	Lisa & Jeffrey Foreman

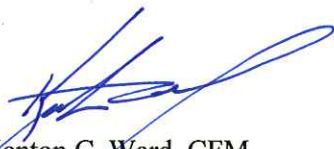
08-09-11-00-00-023.002  
08-09-11-00-00-023.001

Herbert & Deborah Feldmann  
Daniel & Lynne Coverdale

I further recommend that the portion of the Drain being reconstructed be designated an urban drain.

I believe that no damages will result to landowners by the reconstruction of this drain. Therefore, damages for all tracts shall be set at \$0.00.

I recommend that the Board set a hearing for this reconstruction for May 26, 2015.



Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/pll

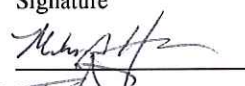
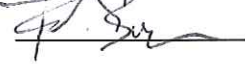
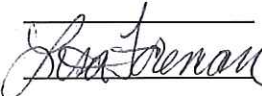

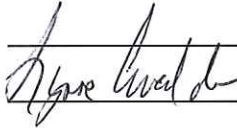
To: Hamilton County Drainage Board

Re: In the matter of the William Knight legal drain Drain Petition

OFFICE OF HAMILTON COUNTY SURVEYOR

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 Washington 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 11, township 18 north, range 3 east, Hamilton County, Indiana.
5. That the proposed reconstruction consists of the replacement of 3380 LF of old existing 12" drainage line with new drainage line ranging from 30" to 12".
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
	<u>Michael House</u>	<u>836 East 64th St, Indianapolis, IN 46220</u>
	<u>Fred &amp; Maureen Boyer</u>	<u>223 161st Street, Westfield IN 46074</u>
	<u>Jeff &amp; Lisa Foreman</u>	<u>16025 Springmill Road, Westfield IN 46074</u>
	<u>Herbert &amp; Deborah Feldman</u>	<u>16001 Springmill Road, Westfield IN 46074</u>
	<u>Daniel &amp; Lynne Coverdale</u>	<u>15951 Springmill Road, Westfield IN 46074</u>

STATE OF INDIANA        )  
                                  ) ss:  
COUNTY OF HAMILTON    )

BEFORE THE HAMILTON COUNTY  
DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN THE MATTER OF THE  
RECONSTRUCTION OF THE  
*Cool Creek Drain, William Knight Arm Reconstruction*

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the *Cool Creek Drain, William Knight Arm Reconstruction* came before the Hamilton County Drainage Board for hearing on *May 26, 2015*, 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 *Cool Creek Drain, William Knight Arm 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

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF

*Cool Creek Drain,  
William Knight Arm Reconstruction*

NOTICE

To Whom It May Concern and: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the **Cool Creek Drain, William Knight Arm Reconstruction** on **May 26, 2015 at 9:05 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

STATE OF INDIANA     )  
                              ) SS                   BEFORE THE HAMILTON  
                              )  
COUNTY OF HAMILTON )                   DRAINAGE BOARD

**IN THE MATTER OF Cool Creek Drain, William Knight Arm  
Reconstruction**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **May 26, 2015** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

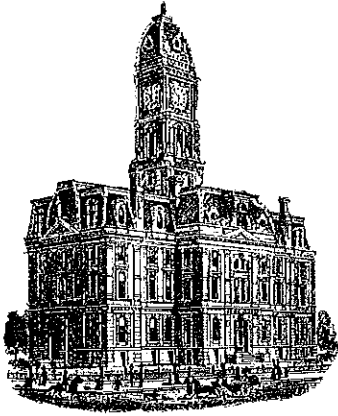
If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Steven C. Dillinger  
PRESIDENT

ATTEST: Lynette Mosbaugh  
SECRETARY





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

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

November 30, 2016

To: Hamilton County Drainage Board

Re: William Knight Arm, Cool Creek Regulated Drain  
Final Inspection Report

### **FINAL REPORT**

This is the inspector's final report on the William Knight Arm of the Cool Creek Regulated Drain Reconstruction, located in Section 11, Township 18 North, Range 3 East, in Washington Township in Hamilton County, Indiana.

The Surveyor's Report for the William Knight Arm to Cool Creek Regulated Drain dated April 7, 2016 was presented to the Drainage Board and approved at hearing on May 26, 2015. (Hamilton County Drainage Board Minute Book 16, Pages 204-207). The Engineer's Estimate was \$349,076.00.

Bids were opened at the October 26, 2015 meeting, (Minute Book 16, Page 331). The Board awarded the contract for construction of the William Knight Arm to Cool Creek Regulated Drain to Morphe Construction on November 9, 2015 for the amount of \$239,561.00. (Minute Book 16, Page 345)

During construction, two changes were made to the plans, which will alter the plans submitted with the Surveyor's Report for this drain. The changes made, allowed under IC 36-9-27-80.5, were as follows:

Change Order #1 order was required because of a private tile that was encountered during construction of the storm drain. Per the contract these tiles are required to be connected to the new storm drain. An 8" tile was found in a low area along the route of the new portion of the William Knight. To connect the newly found tile and provide proper drainage of the low area an extra 48" manhole structure was added. Cost of Change Order #1 was \$2,700.00. The change

order was approved by the Hamilton County Drainage Board April 25, 2016. (Minute Book 16, Page 541)

Change Order #2 was required because riprap was not originally called for on the plans. After installing the outlet it was recognized that surface runoff was expected and the outlet required protection. Cost of Change Order #2 was \$1,091.00. The change order was approved by the Hamilton County Drainage Board July 11, 2016. (Minute Book 17, Page 35)

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

Pay Request #1 submitted 2/29/16	Paid 3/29/16	\$159,443.85
Pay Request #2 submitted 4/1/16	Paid 5/10/16	\$ 39,763.00
Pay Request #3 submitted 5/12/16	Paid 6/14/16	\$ 6,715.00
Pay Request #4 submitted 7/21/16	Paid 7/26/16	\$ 927.35
Pay Request #5 Retainage submitted 9/6/16	Paid 9/26/16	\$ 36,502.80
Total Construction Costs – Morphey Construction		<u>\$243,352.00</u>

The Final Costs for the Reconstruction are as follows:

Morphey's Bid -----	\$239,561.00
Change Order #1 -----	\$ 2,700.00
Change Order #2 -----	\$ 1,091.00
Reconstruction Cost -----	\$243,352.00
Construction Staking & Asbuilts -----	\$ 6,200.00
Total Cost -----	<u>\$249,552.00</u>

Easement acquisition & installation of drain from Structure 109 to Structure 111 paid for by Cooperstown Partners, LLC -----	\$ 35,152.28
Reconstruction cost of drain from Cool Creek Fund -----	<u>\$214,399.72</u>
Total	\$249,552.00

Engineer's Estimate -----	\$349,076.00
Total Cost -----	<u>\$249,552.00</u>
Difference -----	\$ 99,524.00

Form E-1 stating that all expenses for labor & materials has been paid as required by IC 36-9-27-82(b) has been received and retainage withheld was released September 27, 2016.

As of the date of this report, I hereby attest to and agree that the reconstruction was completed according to the specified plans and change orders. All inspections have been completed. Construction staking and asbuilts were done by Banning Engineering. Asbuilt plans have been approved.

Easements for the drain were outlined in my original report to the board, dated April 7, 2015. As noted in that report easement was obtained for the new drain from Structure 109 – Structure 111.

These easement documents were recorded in the Hamilton County Recorders' Office under instrument #'s 2015062900, 2015062902, and #2016030541. The additional easements were paid for by Cooperstown Partners, LLC.

Cooperstown Partners, LLC paid for the engineering and design costs of the reconstruction.

Construction staking was performed and asbuilts were prepared by Banning Engineering and paid for from the Cool Creek Maintenance Fund. This was approved by the Board at its meeting on July 13, 2015 at a cost of \$6,200.00. (Minute Book 16, Page 244)

I recommend the Board approve the drain's reconstruction as complete and acceptable.

Respectfully



Luther M. Cline

Inspector

Hamilton County Surveyor's Office

# KNIGHT LEGAL DRAIN RECONSTRUCTION

SW 1/4 & SE 1/4, SEC. 11 - T18N-R3E, WESTFIELD, WASHINGTON TOWNSHIP, HAMILTON COUNTY, INDIANA

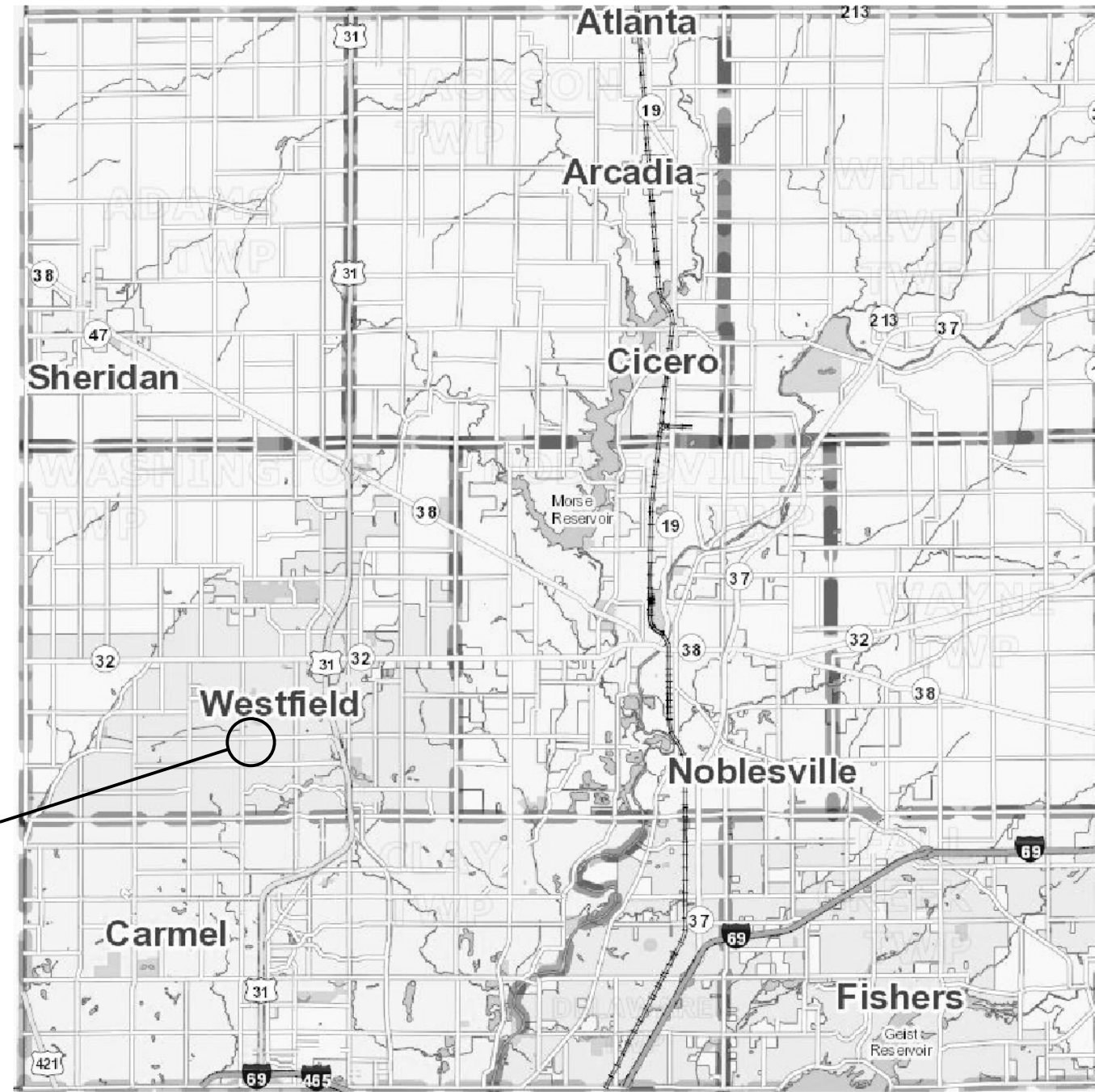
PLANS PREPARED FOR:  
 HAMILTON COUNTY DRAINAGE BOARD  
 1 HAMILTON COUNTY SQUARE, SUITE 188  
 NOBLESVILLE, IN 46060  
 PHONE: 317-776-9626  
 FAX: 317-776-9628  
 CONTACT: KENTON WARD

PLANS PREPARED BY:  
**BANNING**  
 ENGINEERING  
 853 COLUMBIA ROAD, SUITE #101  
 PLAINFIELD, IN 46168  
 BUS: (317) 707-3700, FAX: (317) 707-3800  
 E-MAIL: [Banning@BanningEngineering.com](mailto:Banning@BanningEngineering.com)  
 WEB: [www.BanningEngineering.com](http://www.BanningEngineering.com)  
 CONTACT: JOSEPH MILLER

PROJECT LOCATION



PROJECT LOCATION

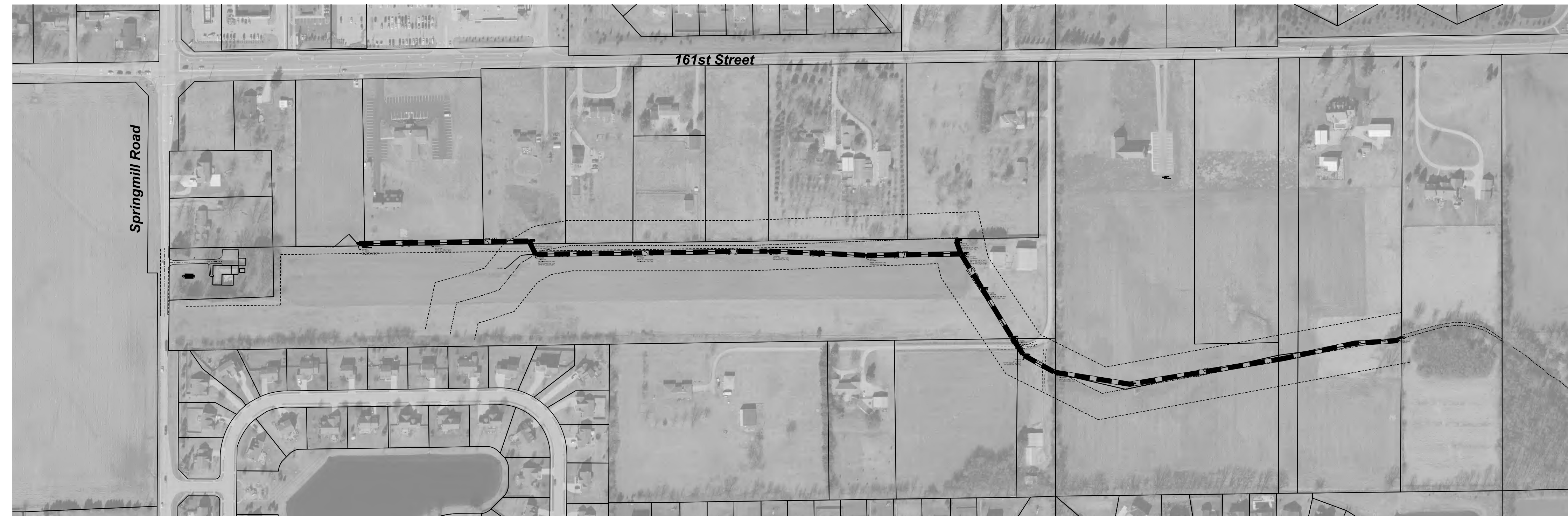


VICINITY MAP  
NO SCALE

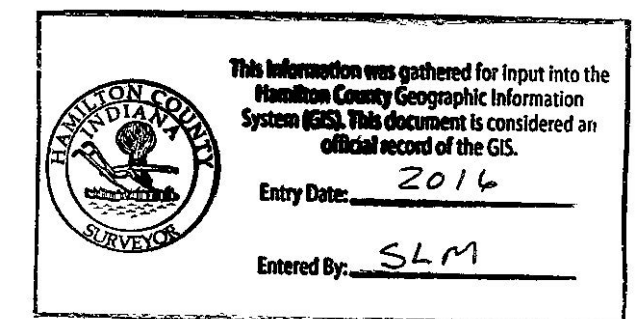
### OPERATING AUTHORITIES

<b>GAS</b> Vectren 16000 Allisonville Road Noblesville, IN 46061 317-776-5534	<b>CABLE TELEVISION</b> Brighthouse Networks 3030 Roosevelt Ave. Indianapolis, IN 46218 317-632-9077	<b>WATER</b> Citizens Water 2150 Dr. Martin Luther King Jr. Street Indianapolis, IN 46202 317-264-7715
<b>ELECTRIC</b> Duke Energy 390 N. Main Street Martinsville, IN 46151 765-349-4012	<b>CABLE TELEVISION</b> Comcast 9750 E. 150 St., Suite 1600 Noblesville, IN 46060 765-846-9113	<b>TELEPHONE</b> AT&T 3858 N. College Ave. Indianapolis, IN 46220 317-252-4007
<b>SANITARY</b> Citizens Energy Group 2150 Dr. Martin Luther King Jr. Street Indianapolis, IN 46202 317-927-6001	<b>STORM</b> Hamilton County 1 Hamilton County Square Suite 188 Noblesville, IN 46060 317-776-6495	<b>FIRE DEPARTMENT</b> Westfield Fire Department 17535 Dartown Road Westfield, IN 46074 317-804-3333
<b>SCHOOL DISTRICT</b> Westfield Washington Schools 322 W. Main Street Westfield, IN 46074 317-867-8000		

LOCATION MAP  
NO SCALE



SITE MAP  
NO SCALE



### 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 May 7, 2015. The record information pertains to the location and elevation of the Storm sewer structures, the size and type of the storm and sewer pipes, and the slope of said pipes between structures. The elevations on top of casting of the structures and their accompanying pipe inverts are accurate to within 0.05 feet and were gathered using an auto-level applying standard leveling techniques. The record locations of the sanitary sewer laterals were provided by those responsible for construction of said sewer and are subject to the accuracy of those measurements provided.

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



## RECORD DRAWING

THESE PLANS ARE NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR A SURVEYOR LOCATION REPORT.

REVISIONS		
NUMBER	DESCRIPTION	DATE

SHEET INDEX	
SHEET NO	DESCRIPTION
C100	TITLE SHEET
C101-C103	STORM SEWER PLAN AND PROFILES
C500	MISCELLANEOUS DETAILS

## CONSTRUCTION DOCUMENTS

PROJECT MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_

THESE PLANS ARE NOT TO BE CONSIDERED FINAL OR TO BE UTILIZED FOR CONSTRUCTION UNLESS SIGNED AND DATED BY THE APPROPRIATE BANNING ENGINEERING PROJECT MANAGER.

THESE PLANS ARE NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR A SURVEYOR LOCATION REPORT.

CERTIFIED BY: \_\_\_\_\_

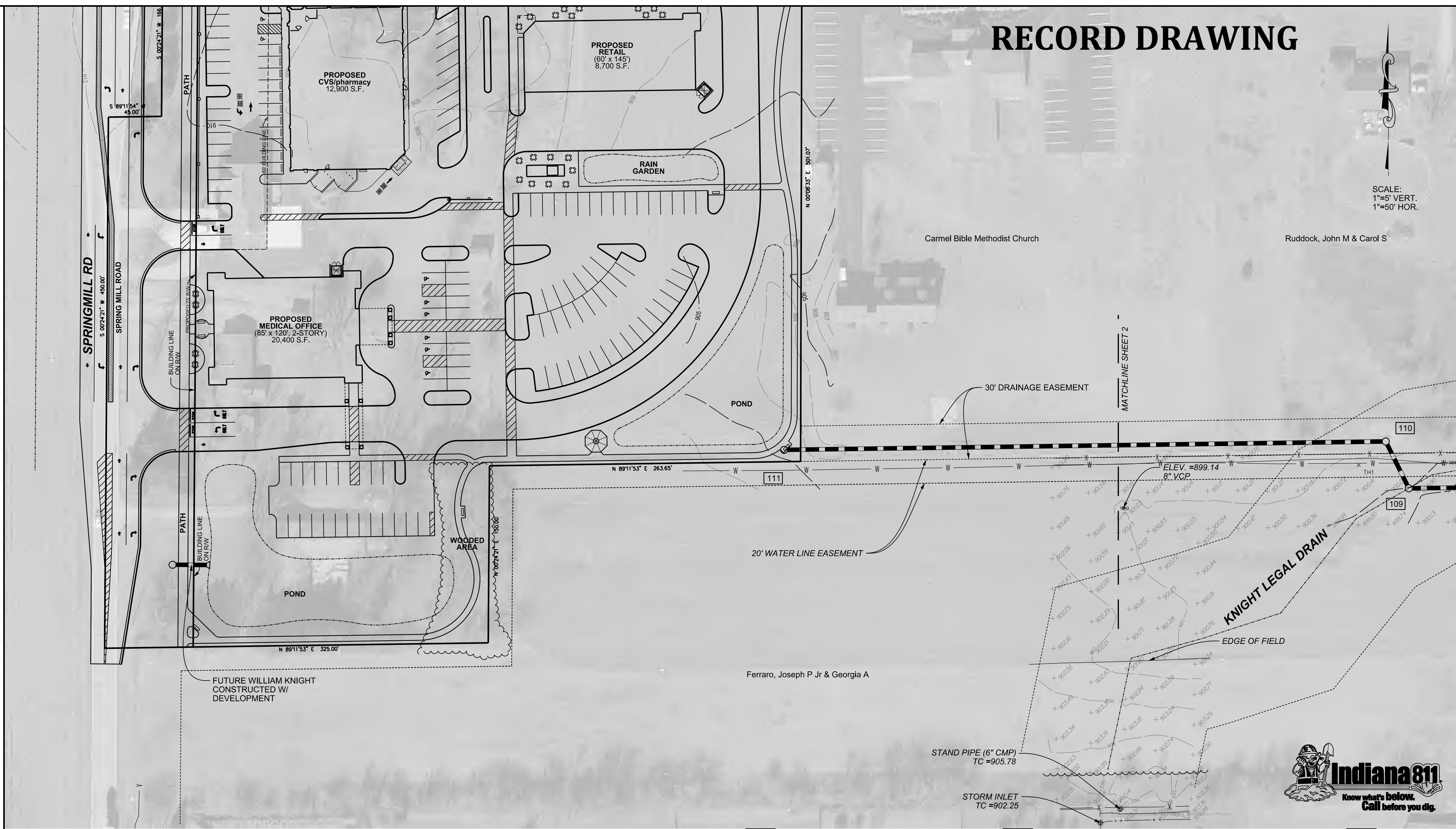
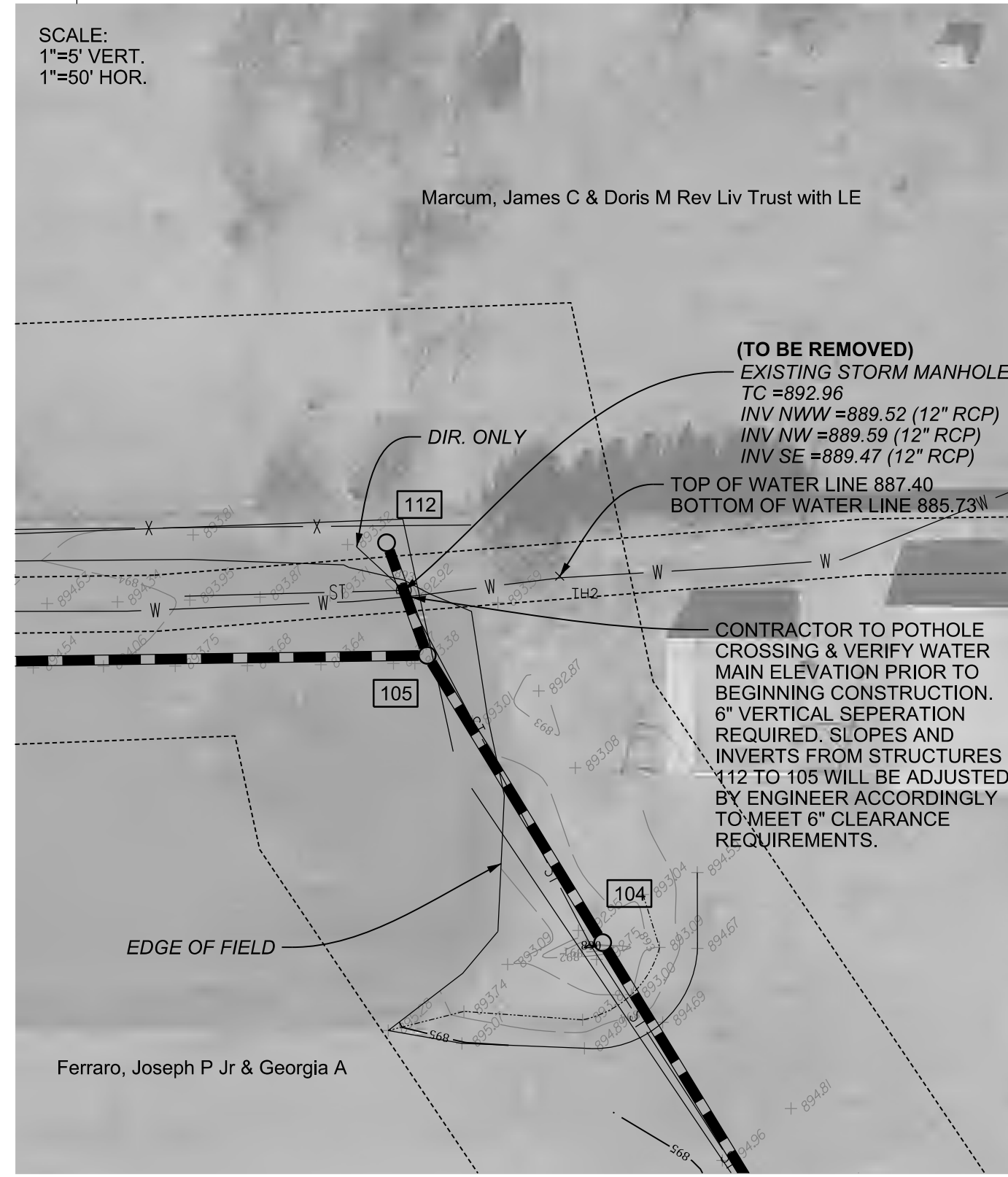
Date: 06-08-15  
 Project No: 07053  
 Sheet No: \_\_\_\_\_

C100

KNIGHT LEGAL DRAIN RECONSTRUCTION

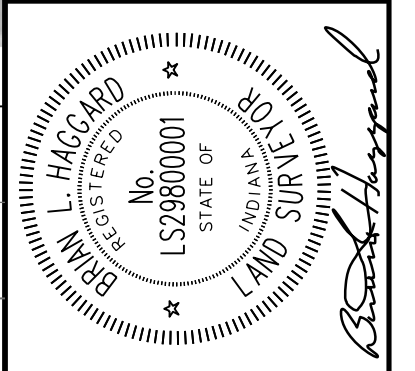
# RECORD DRAWING

**BENCHMARK**  
 B 112  
 DESCRIBED BY COAST AND GEODETIC SURVEY 1946  
 2.2 MI W FROM WESTFIELD,  
 ALONG STATE HIGHWAY 32 ABOUT 2.25 MILES WEST OF WASHINGTON  
 HIGH SCHOOL AT WESTFIELD AND ABOUT 1.0 MILE EAST OF THE CROSS  
 ROAD AT EAGLE TOWN, 0.25 MILE EAST OF THE JUNCTION WITH A CROSS  
 ROAD LEADING NORTH, 24 FEET NORTH OF THE CENTER LINE OF THE HIGHWAY,  
 187 FEET EAST OF THE CENTER LINE OF THE DRIVEWAY LEADING TO H.J.  
 MATTHEWS FARM HOUSE, 75 FEET SOUTHEAST OF THE SOUTHEAST CORNER  
 OF A BARN, 4 FEET EAST OF A FENCE CORNER, 1.3 FOOT SOUTH OF A  
 WHITE WOODEN WITNESS POST AND ABOUT LEVEL WITH THE HIGHWAY.  
 A STANDARD DISK, STAMPED B 112 1946 AND SET IN THE TOP OF A  
 CONCRETE POST PROJECTING 5 INCHES ABOVE GROUND,  
 ELEVATION = 924.24, NAVD 88



SCALE:  
 1"=5' VERT.  
 1"=50' HOR.

**STORM SEWER PLAN & PROFILE**  
**KNIGHT LEGAL DRAIN**  
**161st AND SPRINGMILL ROAD**  
**HAMILTON, COUNTY**



**BANNING ENGINEERING**  
 853 COLUMBIA ROAD, SUITE #101  
 PLAINFIELD, IN 46168-3800  
 BUS: (317) 707-3700, FAX: (317) 707-3800  
 E-MAIL: Banning@BanningEngineering.com  
 WEB: www.BanningEngineering.com

Project No: 07053  
 Sheet No:

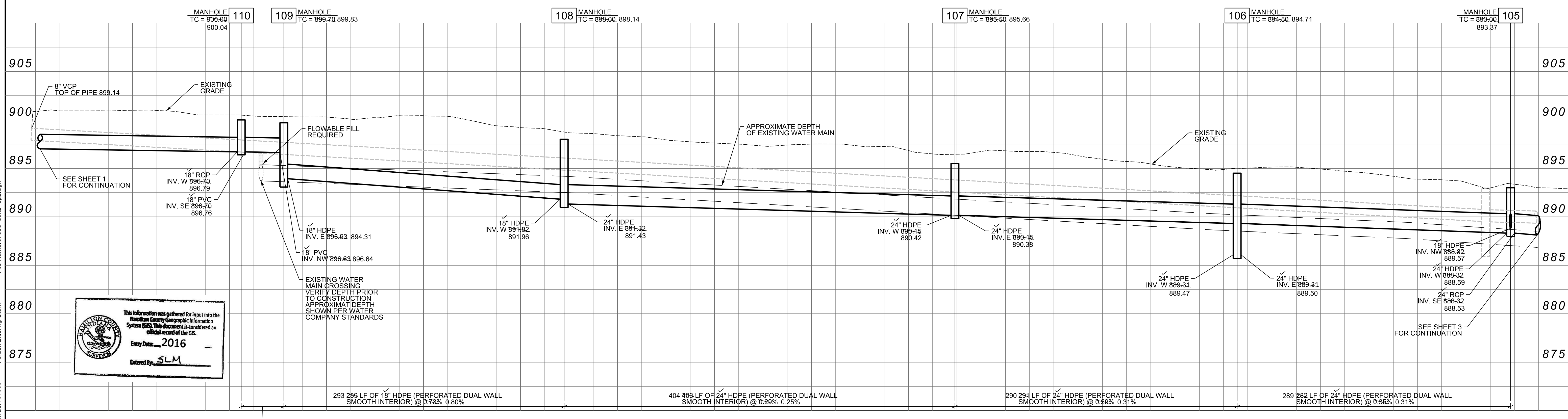
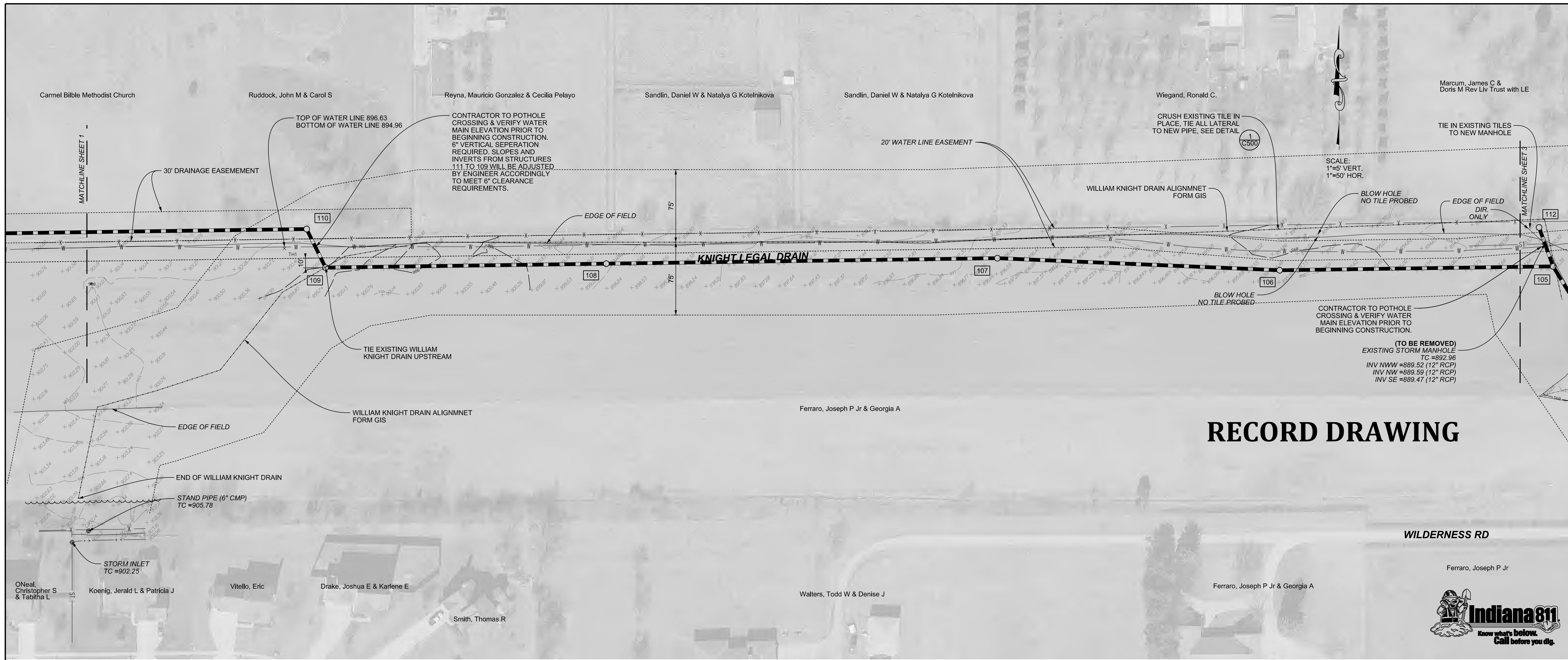
C101

MANHOLE 112 TC = 893.00 893.16	MANHOLE 105 TC = 893.00 893.37	MANHOLE 111 TC = 904.60 903.98	MANHOLE 110A TC = 900.95	MANHOLE 110 TC = 900.60 900.04
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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

## PLAN & PROFILE STRUCTURES



Date	
Revisions	
Sym.	
Designed:	TMF
Drawn:	TMF
Checked:	
Scale:	As Shown
Date:	08-08-15

**STORM SEWER PLAN & PROFILE**

**KNIGHT LEGAL DRAIN**

**161st AND SPRINGMILL ROAD**

**HAMILTON, COUNTY**

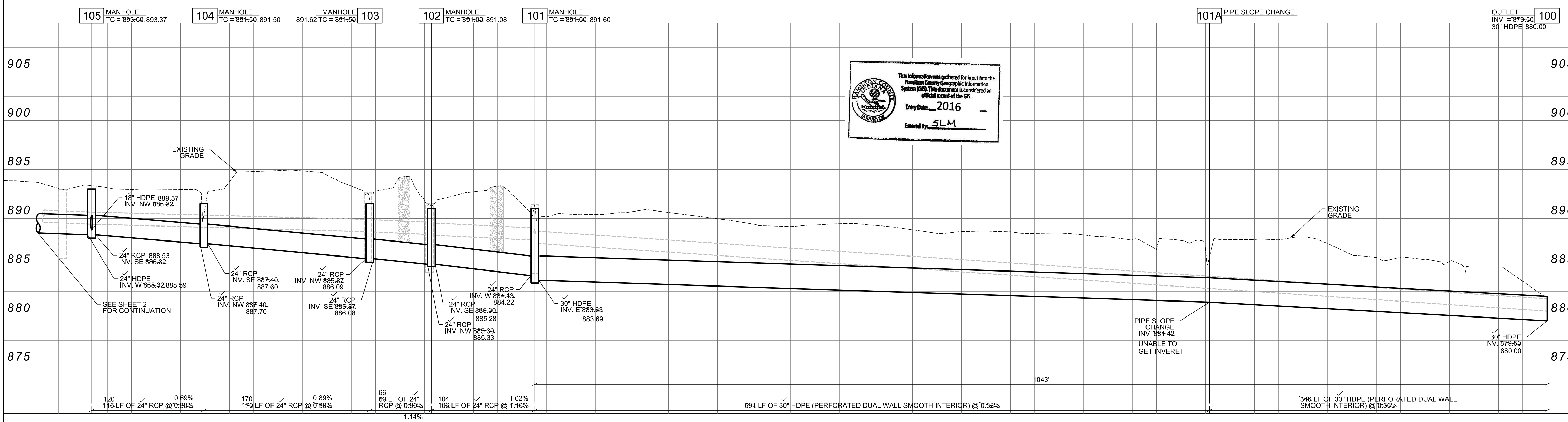
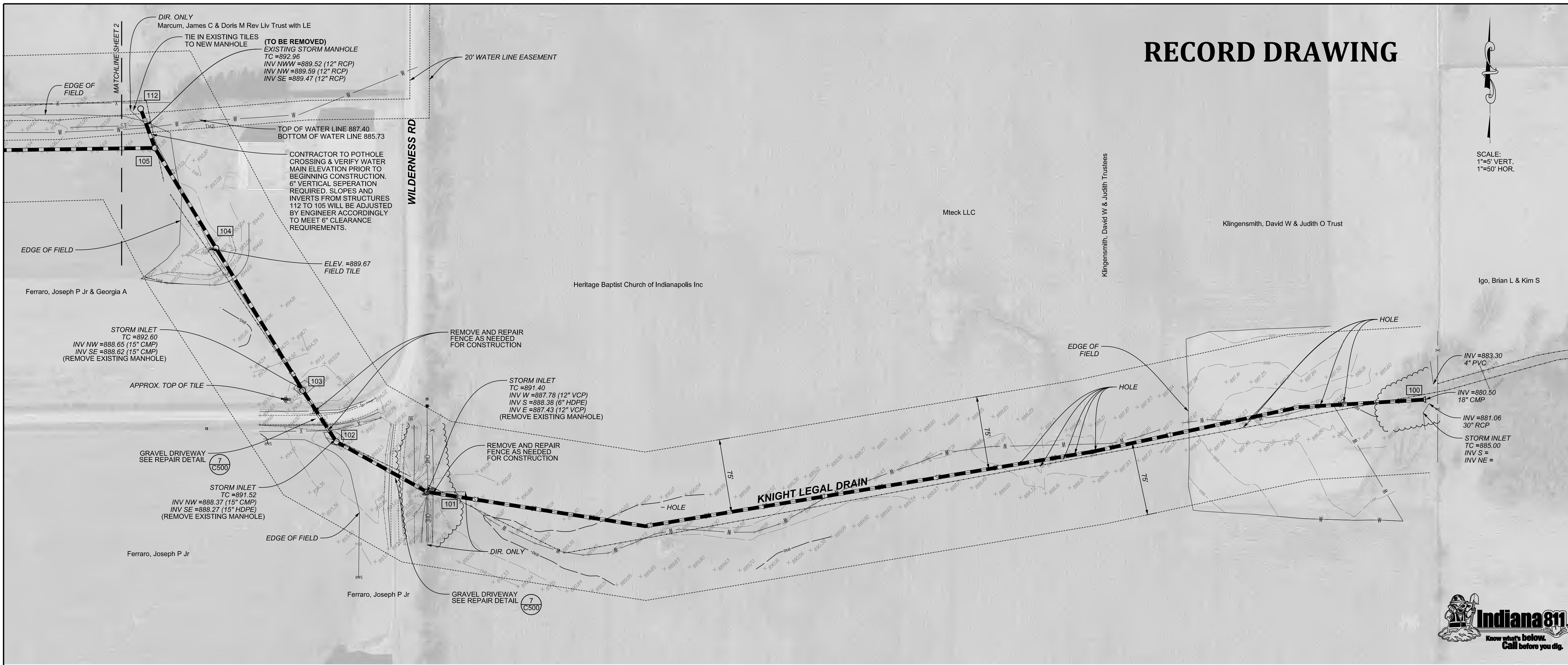
**Indiana 811**  
Know what's below. Call before you dig.

**BANNING ENGINEERING**  
853 COLUMBIA ROAD, SUITE #101  
PLAINFIELD, IN. 46168  
BUS: (317) 707-3700, FAX: (317) 707-3800  
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WEB: www.BanningEngineering.com

Project No: 07053  
Sheet No: C102

# RECORD DRAWING

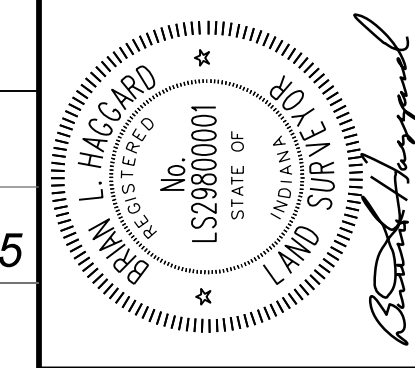
SCALE:  
1"=5' VERT.  
1"=50' HOR.



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

Date	Revisions	Sym.	Designed:	Drawn:	Checked:	Scale:	As Shown:	Date:
								08-08-15

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## PLAN & PROFILE STRUCTURES