

SURVEYOR'S OFFICE
Hamilton **C**ounty

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

June 28, 2013

To: Hamilton County Drainage Board

Re: Long Branch Drain, Kendall Wood Arm

Attached is a petition filed by Steven A. Wilson, Inc., along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Kendall Wood Arm, Long Branch Drain to be located in Clay Township. 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 costs, 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 drain will consist of the following:

12" RCP	412 ft.	21" RCP	42 ft.
15" RCP	340 ft.	24" RCP	650 ft.
18" RCP	166 ft.	6" SSD	2,144 ft.
Open Ditch	108 ft.		

The total length of the drain will be 3,862 feet.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines in rear yards. Only the main SSD lines which are located within the easement or right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

The open ditch listed above is the swale between Str. 105 and Str. 102 and falls in the ROW of 121st Street.

The retention pond (Lake #1) located in Common Area #2 is to be considered part of the regulated drain. Pond maintenance shall include the inlet, outlet, sediment removal, and erosion control along the banks as part of the regulated drain. The maintenance of the pond (Lake #1) such as mowing and aquatic vegetation control will be the responsibility of the Homeowners Association. The Board will also retain jurisdiction for ensuring the storage volume for which the pond (Lake #1) was designed will be retained thereby, allowing no fill or easement encroachments.

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$65.00 per platted lot, \$10.00 per acre for common areas, with a \$65.00 minimum, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain/this section will be \$1,181.80.

The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of a Performance Bond from contractor and cash bond from developer are as follows:

Agent: Merchants Bonding Company
Date: April 22, 2013
Number: INC 45509
For: Storm Sewers & Sub-Surface Drains
Amount: \$96,614.00

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.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Kendall Wood as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for August 26, 2013.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE
Long Branch Drain, Kendall Wood Arm

On this 26th day of August, 2013, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Long Branch Drain, Kendall Wood Arm.**

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: 

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED



Signed

Steven A. Wilson

Printed Name

November 4, 2005

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date



STOEPPELWERTH & ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

David J. Stoepfelwerth
President, CEO
Professional Engineer
Professional Land Surveyor

Curtis C. Huff
Vice President, COO
Professional Land Surveyor

R.M. Stoepfelwerth
Founder
Professional Engineer
Professional Land Surveyor

April 22, 2013

City of Carmel
Department of Engineering
One Civic Square
Carmel, Indiana 46032

Attention: David Barnes

Re: Kendall Wood

Dear Mr. Barnes:

Please accept the following Engineer's Estimate on behalf of Steven A. Wilson, Inc. for Kendall Wood. The estimate is as follows:

Kendall Wood

Item	Unit	Unit Cost	Quantities	Cost
Sanitary Sewer				
Sanitary Sewers - On-site				
Mains 0' - 8' Deep	LF	\$ 23.00	400	\$9,200.00
Mains 8' - 12' Deep	LF	\$ 30.00	475	\$14,250.00
Mains 12' - 16' Deep	LF	\$ 33.00	211	\$6,963.00
On-site mains by depth total				\$30,413.00
MH's 0' - 8' Deep	EA	\$1,445.00	3	\$4,335.00
MH's 8' - 12' Deep	EA	\$1,510.00	3	\$4,530.00
MH's 12' - 16' Deep	EA	\$1,842.00	3	\$5,526.00
On-site manholes by depth total				\$14,391.00
On-site san. sewer backfill	TON	\$ 10.85	558	\$6,054.30
Total Sanitary Sewers - On-site				\$50,858.30
Sanitary Sewer Laterals	LF	\$ 20.00	750	\$15,000.00
Total				\$65,858.30

7965 East 106th Street
Fishers, Indiana
46038-2505

317.849.5935
Fax: 317.849.5942
www.Stoepfelwerth.com

Storm Sewers				
Storm Sewers - On-site				
12" Pipe	LF	\$ 14.00	375	\$5,250.00
15" Pipe	LF	\$ 17.50	373	\$6,527.50
18" Pipe	LF	\$ 19.50	203	\$3,958.50
21" Pipe	LF	\$ 24.00	15	\$360.00
24" Pipe	LF	\$ 28.00	649	\$18,172.00
Standard Storm Manholes	EA	\$1,530.00	15	\$22,950.00
Backfill	TON	\$ 10.85	320	\$3,472.00
Total Storm Sewers - On-site				\$60,690.00
SSD - under curb	LF	\$ 7.00	2641	\$18,487.00
SSD - sump laterals	EA	\$ 89.00	15	\$1,335.00
Total Subsurface Drains				\$19,822.00
Total				\$80,512.00
Water Mains				
Water Mains				
12" Main	LF	\$ 37.41	1,115	\$41,712.15
6"/8" Gate Valves	EA	\$ 733.00	6	\$4,398.00
Fire Hydrants	EA	\$1,980.00	3	\$5,940.00
Sand Backfill	TON	\$ 10.85	420	\$4,557.00
Off-site Mains, & Appurtenances by item total				\$56,607.15
Special Cond - Water Service Lines				
1" Line	LF	\$ 12.00	673.00	\$8,076.00
1" Tap	EA	\$ 186.00	15.00	\$2,790.00
Special Cond - Water Service Lines Total				\$10,866.00
Total				\$67,473.15
Curb and Gutter				
Rollcurb and Gutter	LF	\$ 6.45	2,115	\$13,641.75
Total				\$ 13,642
Sidewalk				
C.A. Sidewalk	SF	\$ 3.00	2440	\$7,320.00
Total				\$7,320.00
Streets				
Road and Street Paving including Accel/Decel				
Asphalt Binder	SYS*in	\$ 7.18	3354	\$24,081.72
Asphalt Base	SYS*in	\$ 9.28	3354	\$31,125.12
Stone Base	TON	\$ 16.80	1580	\$26,544.00

Dept. of Engineering

April 22, 2013

Page 3 of 3

Stone Shoulder	TON	\$ 74.95	20	\$1,499.00
Total Stone, Base and Binder				\$83,249.84
Tac, Clean and Surface Coat	SYS*in	\$ 6.62	3354	\$22,203.48
Total				\$105,453.32
Asphalt Paths	SF	\$ 2.08	7,383.00	\$ 15,357
Total				\$ 15,357
Guard Rail	LF	\$ 24.00	565	\$ 13,560
Total				\$ 13,560
Erosion & Sediment Control				
Post Const BMP's				
Mesic Seeding	SYS	\$ 1.80	2078	\$3,740.40
Sedge Meadow Seeding	SYS	\$ 2.30	347	\$798.10
Do Not Mow or Spray Signage	EA	\$ 100.00	6	\$600.00
Check Dams	EA	\$ 300.00	2	\$600.00
Total				\$5,738.50
Construction BMP's				
Silt Fence	LF	\$ 1.20	2330	\$2,796.00
Inlet Protection	EA	\$ 85.00	26	\$2,210.00
Construction Entrance	LS	\$1,843.49	1	\$1,843.49
Concrete Washout Area	LS	\$1,000.00	1	\$1,000.00
Temp Seeding	SYS	\$ 0.200	20195	\$4,039.00
Perm Seeding w/ Erosion Control Blanket	SYS	\$ 0.550	27548	\$15,151.40
Total				\$27,039.89
Monuments & Markers				
Concrete Monuments	EA	\$ 225.00	9	\$2,025.00
Centerline Markers	EA	\$ 170.00	11	\$1,870.00
Total				\$3,895.00
Grand Total				\$281,096.73

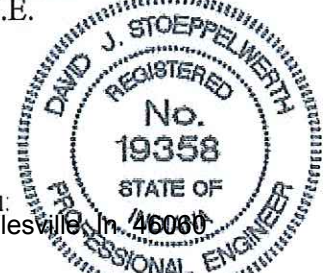
If you have any questions regarding these estimates, please contact Brian K. Robinson at (317) 570-4763.

Very truly yours,
STOEPPELWERTH & ASSOCIATES, INC.



David J. Stoepelwerth, P.E.
Professional Engineer
No. 19358

Cc: Steve Wilson



MERCHANTS BONDING COMPANY™

MERCHANTS BONDING COMPANY (MUTUAL) • MERCHANTS NATIONAL BONDING, INC.
2100 FLEUR DRIVE • DES MOINES, IOWA 50321-1158 • (800) 678-8171 • (515) 243-3854 FAX



HCDB-2013-00030

SUBDIVISION BOND

Bond No. INC 45509

KNOW ALL PERSONS BY THESE PRESENTS:

THAT we, D & R Excavating, Inc. dba Earth Resources

as Principal, and Merchants Bonding Company (Mutual) of Des Moines, Iowa (hereinafter called the Surety) are held and firmly bound unto the Hamilton County Board of Commissioners

as Oblige, in the penal sum of Ninety Six Thousand Six Hundred Fourteen Dollars

dollars (\$96,614.00), lawful money of the United States to the payment of which sum well and truly to be made, the Principal herein firmly binds himself (themselves), their heirs, executors, and administrators, and the said Surety binds itself, its successors, assigns, executors and administrators, jointly and severally, firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH, THAT, whereas the above bounden Principal is platting certain lots entitled _____

being an official plat lying within the City of _____

County of _____, State of _____

WHEREAS, the above bounden Principal has agreed with the Oblige to install the following improvements:

Kendall Wood - Storm Sewer, 121St. & Shelborne Road, Carmel, IN

ALL such improvements to be completed in accordance with an agreement between the Principal and the Oblige.

NOW, if the Principal shall in all respects fulfill this said obligation according to the terms thereof, and shall satisfy all claims and demands incurred for same, and shall fully indemnify and save harmless the Oblige from all costs and damages which it may suffer by reason of failure to do so and shall fully reimburse and repay the Oblige all outlays and expenses which it may incur in making good any such default, then this obligation is to be void and of no effect; otherwise to remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 22nd
day of April, 20 13

D & R Excavating, Inc. dba Earth Resources
Principal

By _____

Merchants Bonding Company (Mutual)

By _____

Kimberly J Pace Attorney-in-Fact

CON 0303 (2/12)

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

MERCHANTS
BONDING COMPANY™
POWER OF ATTORNEY

Bond #: INC 45509



Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations duly organized under the laws of the State of Iowa (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint, individually,

Kimberly J Pace

of **Indianapolis** and State of **IN** their true and lawful Attorney-in-Fact, with full power and authority hereby conferred in their name, place and stead, to sign, execute, acknowledge and deliver in their behalf as surety any and all bonds, undertakings, recognizances or other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of:

TEN MILLION (\$10,000,000.00) DOLLARS

and to bind the Companies thereby as fully and to the same extent as if such bond or undertaking was signed by the duly authorized officers of the Companies, and all the acts of said Attorney-in-Fact, pursuant to the authority herein given, are hereby ratified and confirmed.

This Power-of-Attorney is made and executed pursuant to and by authority of the following By-Laws adopted by the Board of Directors of the Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.

The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 2nd day of March, 2012.



MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*
President

STATE OF IOWA
COUNTY OF POLK ss.

On this 2nd day of March, 2012, before me appeared Larry Taylor, to me personally known, who being by me duly sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument is the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

In Testimony Whereof, I have hereunto set my hand and affixed my Official Seal at the City of Des Moines, Iowa, the day and year first above written.



Maranda Greenwalt
Notary Public, Polk County, Iowa

STATE OF IOWA
COUNTY OF POLK ss.

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 22nd day of April, 2013.



William Warner Jr.
Secretary

POA 0014 (11/11)

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

MERCHANTS
BONDING COMPANY



MERCHANTS BONDING COMPANY (MUTUAL) • MERCHANTS NATIONAL BONDING, INC.
2100 FLEUR DRIVE • DES MOINES, IOWA 50321-1158 • (800) 678-8171 • (515) 243-3854 FAX

HCDB-2013-00031

SUBDIVISION BOND

Bond No. INC 45512

KNOW ALL PERSONS BY THESE PRESENTS:

THAT we, D & R Excavating, Inc. dba Earth Resources

as Principal, and Merchants Bonding Company (Mutual) of Des Moines, Iowa (hereinafter called the Surety) are held and firmly bound unto the Hamilton County Board of Commissioners

as Obligee, in the penal sum of Four Thousand Six Hundred Seventy Four Dollars

dollars (\$4,674.00), lawful money of the United States to the payment of which sum well and truly to be made, the Principal herein firmly binds himself (themselves), their heirs, executors, and administrators, and the said Surety binds itself, its successors, assigns, executors and administrators, jointly and severally, firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH, THAT, whereas the above bounden Principal is platting certain lots entitled _____

being an official plat lying within the City of _____
County of _____, State of _____

WHEREAS, the above bounden Principal has agreed with the Obligee to install the following improvements:

Kendall Wood - Monuments and Markers, 121 St. & Shelborne Road, Carmel, IN

ALL such improvements to be completed in accordance with an agreement between the Principal and the Obligee.

NOW, if the Principal shall in all respects fulfill this said obligation according to the terms thereof, and shall satisfy all claims and demands incurred for same, and shall fully indemnify and save harmless the Obligee from all costs and damages which it may suffer by reason of failure to do so and shall fully reimburse and repay the Obligee all outlays and expenses which it may incur in making good any such default, then this obligation is to be void and of no effect; otherwise to remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ 24th
day of April, 20 13.

D & R Excavating, Inc. dba Earth Resources
Principal

By _____
Merchants Bonding Company (Mutual)

By [Signature]

MERCHANTS
BONDING COMPANY™
POWER OF ATTORNEY

Bond #: INC 45512



Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations duly organized under the laws of the State of Iowa (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint, Individually,

Carolyn J Waggoner

of **Indianapolis** and State of **IN** their true and lawful Attorney-in-Fact, with full power and authority hereby conferred in their name, place and stead, to sign, execute, acknowledge and deliver in their behalf as surety any and all bonds, undertakings, recognizances or other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of:

TEN MILLION (\$10,000,000.00) DOLLARS

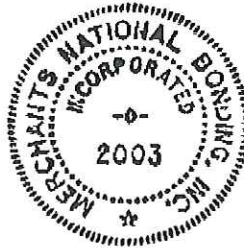
and to bind the Companies thereby as fully and to the same extent as if such bond or undertaking was signed by the duly authorized officers of the Companies, and all the acts of said Attorney-in-Fact, pursuant to the authority herein given, are hereby ratified and confirmed.

This Power-of-Attorney is made and executed pursuant to and by authority of the following By-Laws adopted by the Board of Directors of the Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.

The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 2nd day of March, 2012.



MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*
President

STATE OF IOWA
COUNTY OF POLK ss.

On this 2nd day of March, 2012, before me appeared Larry Taylor, to me personally known, who being by me duly sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument is the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

In Testimony Whereof, I have hereunto set my hand and affixed my Official Seal at the City of Des Moines, Iowa, the day and year first above written.



Maranda Greenwalt
Notary Public, Polk County, Iowa

STATE OF IOWA
COUNTY OF POLK ss.

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 24th day of April, 2013.



William Warner Jr.
Secretary

POA 0014 (11/11)

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Long Branch Drain, Kendall Wood Arm

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Long Branch Drain, Kendall Wood Arm** on **August 26, 2013** at **9:05 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the 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 Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE

Long Branch Drain, Kendall Wood Arm

NOTICE

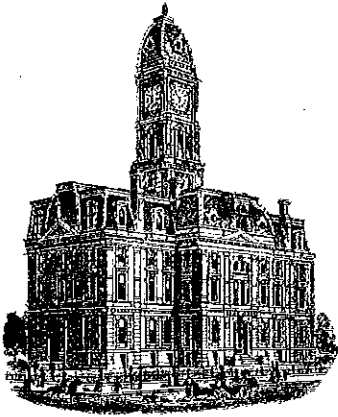
Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **August 26, 2013** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

KCW



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

To: Hamilton County Drainage Board

June 28, 2013

Re: Long Branch Drain: Kendall Wood Arm

Attached are as-builts, certificate of completion & compliance, and other information for Kendall Wood Arm. 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 June 28, 2013. The report was approved by the Board at the hearing held August 26, 2013. (See Drainage Board Minutes Book 15, Pages 130-131)

The changes are as follows:

The 6" SSD is now 2079 feet. The 12" RCP is now 443 feet. The 18" RCP is now 161 feet. The 21" RCP is now 41 feet. The 24" RCP is now 643 feet.

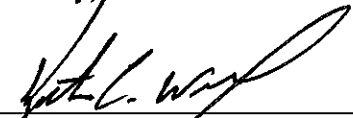
The length of the drain due to the changes described above is now **3815 feet**.

The non-enforcement was approved by the Board at its meeting on August 26, 2013 and recorded under instrument #2013070710. The following sureties were guaranteed by Merchants Bonding Company and released by the Board on its February 24, 2014 meeting.

Bond-LC No: INC 45509
Insured For: Storm Sewers
Amount: \$96,614.00
Issue Date: April 22, 2013

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Kendall Wood

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.

Signature:  Date: 10/15/2013

Type or Print Name: Dennis D. Olmstead

Business Address: Stoepelwerth & Associates, Inc.

7965 East 106th Street, Fishers, Indiana 46038

Telephone Number: (317) 849-5935

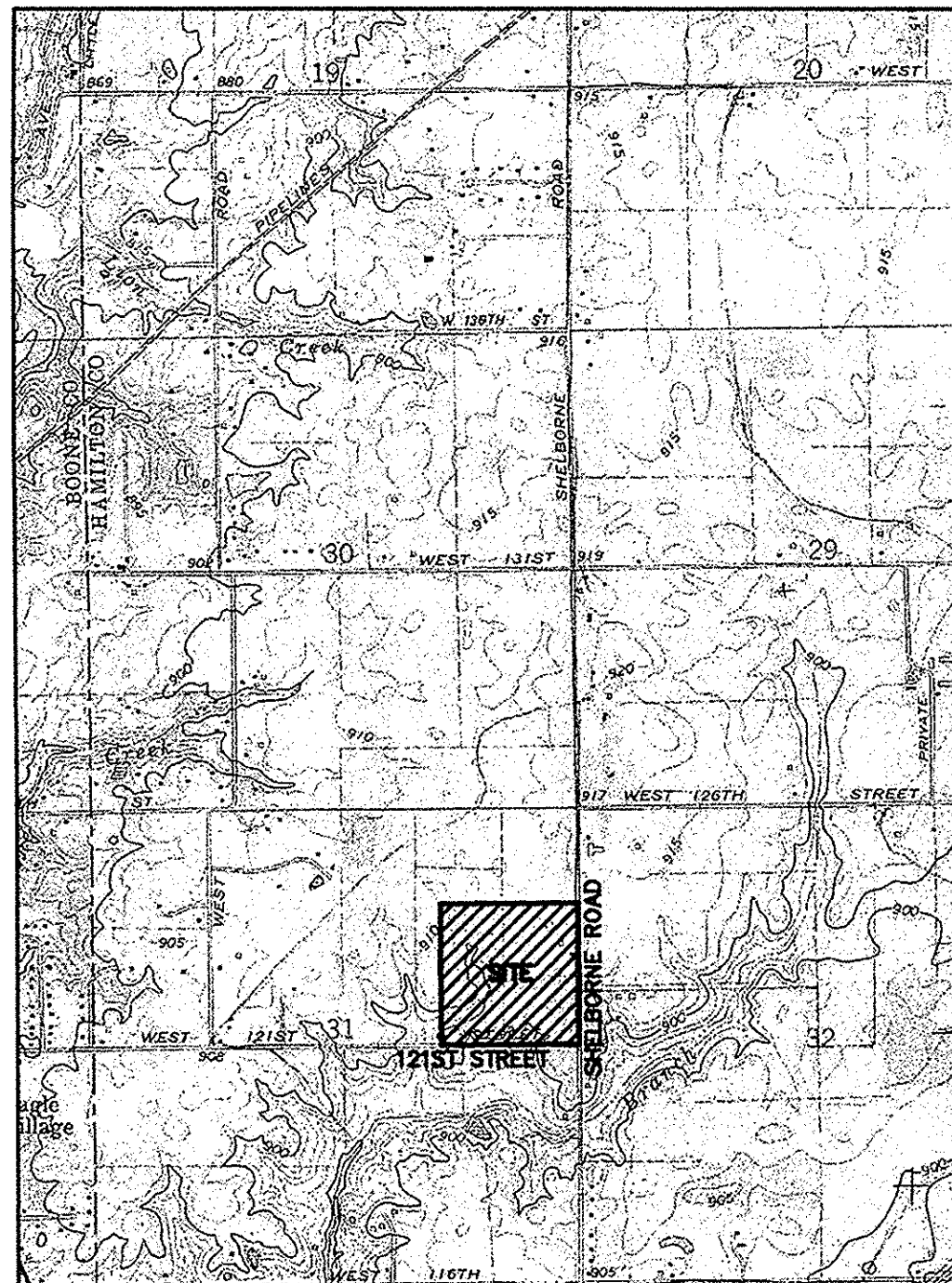
SEAL

INDIANA REGISTRATION NUMBER

900012



KENDALL WOOD



LOCATION MAP



SOILS MAP

Developed by:
 SAW Development, LLC
 739 KEYSTONE WAY
 CARMEL, INDIANA 46032
 PHONE # (317)-846-2555
 FAX # (317)-846-9594
 CONTACT PERSON: STEVE WILSON

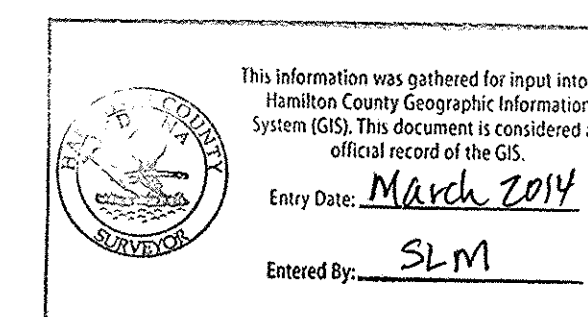
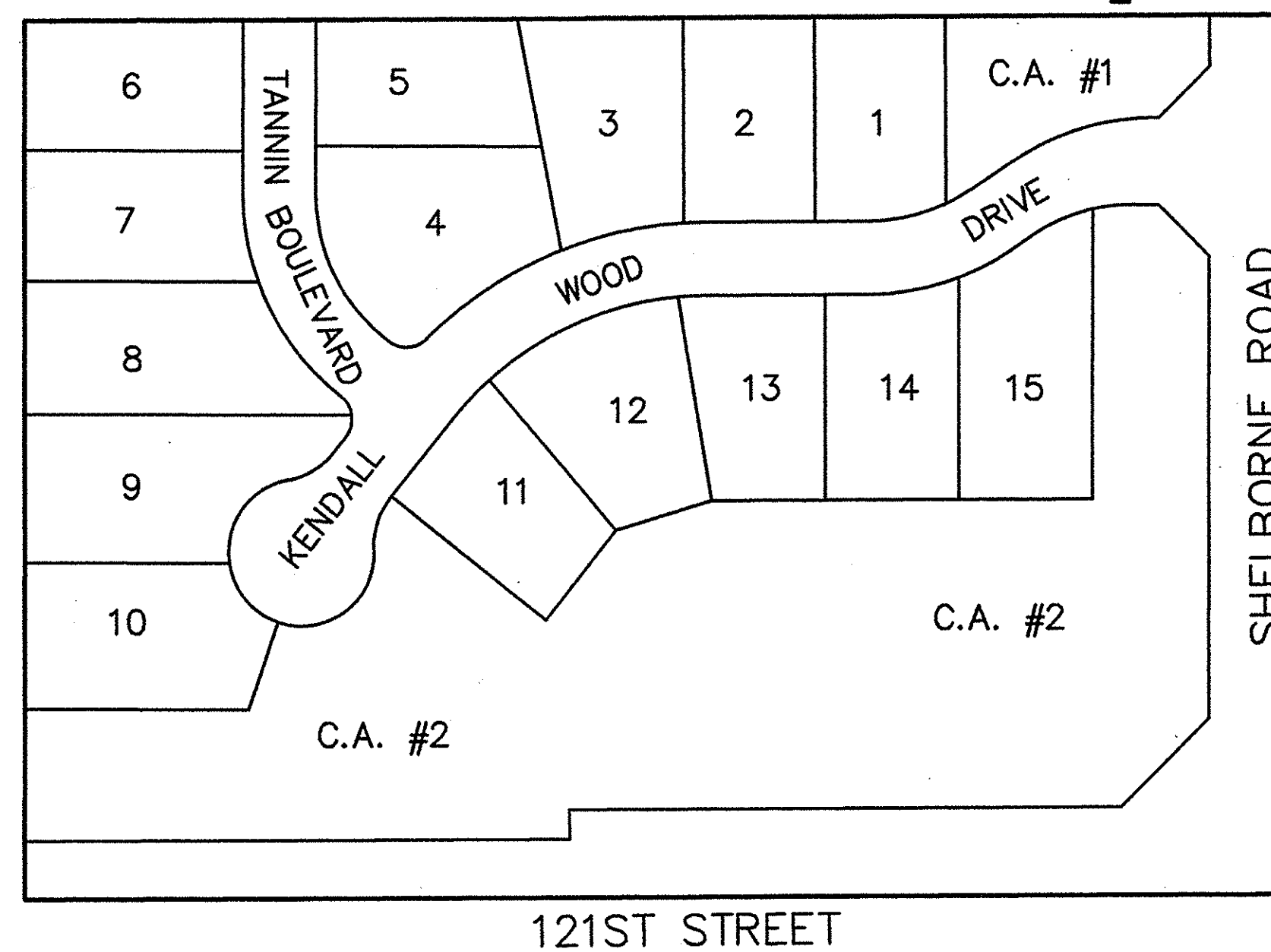
Map Unit: Br - Brookston silty clay loam

Br--Brookston silty clay loam
 This poorly drained soil has a seasonal high watertable above the surface or within 1.0 ft. and is in depressions. Slopes are 0 to 2 percent. The native vegetation is water tolerant grasses and hardwoods. The surface layer is silty clay loam and has moderate or high organic matter content (2.0 to 5.0 percent). Permeability is moderately slow (0.2 to 0.6 in/hr) in the most restrictive layer above 60 inches. Available water capacity is high (10.0 inches in the upper 60 inches). The pH of the surface layer in non-limed areas is 6.1 to 7.3. This soil is hydric. Wetness is a management concern for crop production. This soil responds well to tile drainage.

Map Unit: CrA - Crosby silt loam, 0 to 2 percent slopes

CrA--Crosby silt loam, 0 to 2 percent slopes
 This is a somewhat poorly drained soil and has a seasonal high watertable at 0.5 to 2.0 ft. and is on rises on uplands. Slopes are 0 to 2 percent. The native vegetation is hardwoods. The surface layer is silt loam and has moderately low or moderate organic matter content (1.0 to 3.0 percent). Permeability is very slow (<0.06 in/hr) in the most restrictive layer above 60 inches. Available water capacity is moderate (6.2 inches in the upper 60 inches). The pH of the surface layer in non-limed areas is 5.1 to 6.0. Droughtiness and wetness are management concerns for crop production. This soil responds well to tile drainage.

INDEX	
SHT.	DESCRIPTION
C001	COVER SHEET
C100	TOPOGRAPHICAL SURVEY
C200-C201	SITE DEVELOPMENT PLAN/PROPOSED GRADING PLAN
C300-C304	EROSION CONTROL PLAN & SPECIFICATIONS
C400-C409	STREET PLAN & PROFILES/ENTRANCE DETAIL/INTERSECTION DETAILS/ PAVEMENT WIDENING PLAN/TRAFFIC CONTROL PLAN/ TRAFFIC MAINTENANCE PLAN/STRIPING PLAN/PAVING POLICY/CURB POLICY
C500	SANITARY SEWER PLAN & PROFILES
C600-C601	STORM SEWER PLAN & PROFILES
C700	WATER PLAN/WATER SPECIFICATIONS
C800-C805	CONSTRUCTION DETAILS
	SANITARY
	STORM
	STREET
L-1, L-2, L-3	LANDSCAPE PLANS
	HANDICAPPED RAMPS



SCALE: 1" = 100'

DESIGN DATA

$\frac{15 \text{ LOTS}}{12.045 \text{ AC.}} = 1.25 \text{ LOTS/ACRE}$
 KENDALL WOOD DRIVE 817.96 L.F.
 TANNIN BOULEVARD 300.54 L.F.
 SPEED LIMIT: 25 M.P.H.

PLANS PREPARED BY:
 STOEPPELWERTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS & LAND SURVEYORS
 7965 E. 106TH STREET, FISHERS, INDIANA 46038
 PHONE: (317)-849-5935
 FAX: (317)-849-5942
 CONTACT PERSON: BRIAN K. ROBINSON
 EMAIL: brobinson@stoepfelwerth.com

REVISIONS	
SHT.	DESCRIPTION
ALL	REVISED PLANS PER AGENCY COMMENTS 12/13/05 KMC
C700	REVISED PLANS PER CARMEL UTILITIES 12/27/05 BKR
C200, C502 & 2001	REVISED SHEETS PER CTRW 1/4/06 KMC
C200	REVISED PLANS PER AGENCY COMMENTS 12/24/05 DLL
ALL	REVISED PER CARMEL ENGINEERING COMMENTS 2/8/06
ALL	REVISED PER SOIL AND WATER COMMENTS 2/10/06
ALL	REVISED PER CARMEL ENGINEERING 2/21/06
ALL	REVISED PER AGENCY COMMENTS 2/28/06
ALL	REVISED PER CARMEL ENGINEERING 3/29/06
ALL	REVISED PER SANITARY SEWER REDESIGN 1/05/08 MGF
ALL	REVISED PER CLIENT CHANGES 1/9/08 CRM
ALL	REVISED PER CTRWD COMMENTS 2/18/08 CRM
ALL	REVISED PER DEVELOPER CHANGES 4/11/08 CRM
ALL	UPDATED PER CARMEL ROAD IMPROVEMENTS 11/01/12 DCM
ALL	REVISED PER CTRWD COMMENTS 11/09/12 DCM
C200, C300 & C802	REVISED PER CTRWD COMMENTS 11/19/12 DCM
ALL	REVISED PER CITY COMMENTS 12/14/12 DCM
C100, C200, C300-C304, C600, C700	REVISED PER CARMEL COMMENTS 12/19/12 DCM
ALL	REVISED PER CITY COMMENTS 02/01/13 DCM
C200, C201, C400, C401, C402, C500, C600, C601, C700	REVISED PER CITY COMMENTS 03/05/13 DCM
C001, C200, C400, C401, C402, C500, C600, C601, C700	RECORD DRAWINGS 10/08/13 DCM

Legal Description
 Beginning at the Southeast corner of the Northeast Quarter of Section 31, Township 18 North, Range 3 East; thence North on and along the East line of said Northeast Quarter 600.0 feet; thence West parallel with the South line of said Northeast Quarter 874.5 feet; thence South parallel with the East line of said Northeast Quarter 600.0 feet to the South line thereof; thence East on and along aforesaid South line 874.5 feet to the place of beginning, containing 12.05 acres, more or less.

RECORD DRAWING

Dennis D. Olmstead
 DENNIS D. OLMSTEAD
 Registered Land Surveyor
 No. 900012

10/14/2013
 DATE



PLANS CERTIFIED BY:
David J. Stoepfelwerth
 DAVID J. STOEPPELWERTH
 PROFESSIONAL ENGINEER
 NO. 19358

02/01/13
 DATE



