

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

February 20, 2019

To: Hamilton County Drainage Board

Re: Long Branch Drain, Waterfront of West Clay Section 5A Arm

Attached is a petition filed by Paul Shoopman Home Building Group, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Waterfront of West Clay Section 5A 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:

15" RCP	136 ft.	24" RCP	212 ft.
18" RCP	130 ft.	6" SSD	1,264 ft.
21" RCP	314 ft.		

The total length of the drain will be 2,056 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 portion of the SSD which will be regulated other than those under curbs are as follows:

Curbline SSD in Streets:
 Prairie Falcon Drive
 Stone Lake Drive

Rear Yard SSDs:
 No rear yard SSDs

The retention pond (existing lake located in Common Area Block "E") is not to be considered part of the regulated drain. The maintenance of the pond shall include the inlet and outlet as part of the regulated drain. The maintenance of the pond shall include the inlet and outlet as part of the regulated drain. The

maintenance of the pond including but not limited to sediment removal, erosion control along the banks, mowing and aquatic vegetation control will be the responsibility of the Homeowners Association and/or owner of record. The Board will also retain jurisdiction to enforce the storage volume for which the pond (existing lake) was designed will be retained, thereby, allowing no fill or easement encroachments. In the event the Homeowners Association or owner, in the sole discretion of the Board, fails to adequately maintain the flood compensatory area, after 30 days written notice to the owner of record, the Board may perform the required maintenance and assess the cost thereof to the owner of record as a special assessment.

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 will be \$946.80.

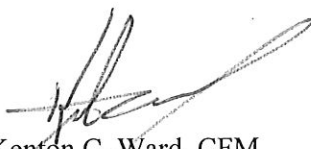
The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of a Performance Bond are as follows:

Agent: Bond Safeguard Insurance Company
Date: September 20, 2018
Number: 5053193
For: Storm Sewers & Sub-Surface Drains
Amount: \$66,681.00

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 requests. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plats for Waterfront of West Clay Section 5A as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for April 22, 2019.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED
FEB 19 2019

OFFICE OF HAMILTON COUNTY SURVEYOR

TO: HAMILTON COUNTY DRAINAGE BOARD
% Hamilton County Surveyor
One Hamilton County Square, Suite 188
Noblesville, IN. 46060-2230

In the matter of Waterfront of West Clay Subdivision, Section
5-A Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in Waterfront of West Clay - Sect. 5-A, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

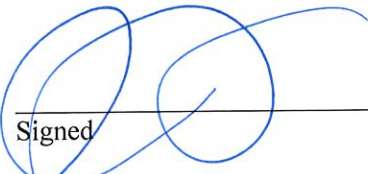
Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.
3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

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
Paul Shoopman

Printed Name
February 14, 2019

Date



Signed
Shelley Shoopman

Printed Name
February 14, 2019

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FINDINGS AND ORDER

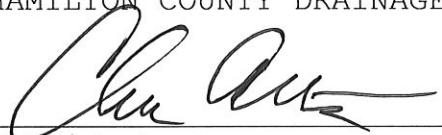
CONCERNING THE MAINTENANCE OF THE

Long Branch Drain,
Waterfront of West Clay Section 5A Arm

On this 22nd day of April, 2019, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Long Branch Drain, Waterfront of West Clay Section 5A 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: 
Executive Secretary

FILED

FEB 19 2019

OFFICE OF HAMILTON COUNTY SURVEYOR



ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A			DATE: Sept. 10, 2018	
LOCATION: Carmel, IN		ITEM: SUMMARY	JOB #: W160409	
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
MONUMENTATION				\$2,400
SANITARY SEWER				\$204,104
STORM SEWER				\$66,681
PAVEMENT				\$111,503
CURBS				\$18,600
WALKS				\$26,090
SIGNAGE				\$1,600
WATER				\$44,544
EROSION CONTROL				\$86,715
TOTAL				\$562,236

Note:
This cost opinion was generated from Construction Plans prepared by Weihe Engineers dated August 8, 2017, with latest revision August 22, 2018



Duane A. Sharrer Sept. 12, 2018

Weihe Engineers
10505 N. College Avenue
Indianapolis, IN 46280
317-846-6611

ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A

DATE: Sept. 10, 2018

LOCATION: Carmel, IN

ITEM: MONUMENTA JOB #: W160409

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
MONUMENTS:				
STREET MARKERS	6	EA	\$150.00	\$900.00
BOUNDARY MARKERS @ R/W	5	EA	\$300.00	\$1,500.00
TOTAL MONUMENTATION				\$2,400.00

Weihe Engineers
10505 N. College Avenue
Indianapolis, IN 46280
317-846-6611

ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A

DATE: Sept. 10, 2018

LOCATION: Carmel, IN

ITEM: SANITARY

JOB #: W160409

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
8" PVC PIPE - 6'-10'	416	LF	\$21.00	\$8,736.00
8" PVC PIPE - 10'-14'	1325	LF	\$25.00	\$33,125.00
8" PVC PIPE - 14'-18'	1010	LF	\$33.00	\$33,330.00
8" PVC PIPE - 18'-20'	315	LF	\$38.00	\$11,970.00
6" PVC LATERALS	1475	LF	\$22.00	\$32,450.00
WYES	33	EA	\$160.00	\$5,280.00
GRANULAR BACKFILL	1455	CYDS	\$13.00	\$18,915.00
MANHOLES 6'-8'	2	EA	\$2,400.00	\$4,800.00
MANHOLES 8'-10'	1	EA	\$2,550.00	\$2,550.00
MANHOLES 10'-12'	4	EA	\$2,650.00	\$10,600.00
MANHOLES 12'-14'	2	EA	\$2,850.00	\$5,700.00
MANHOLES 14'-16'	3	EA	\$3,000.00	\$9,000.00
MANHOLES 16'-18'	2	EA	\$3,400.00	\$6,800.00
DROP MANHOLES 18'-20'	1	EA	\$6,500.00	\$6,500.00
TELEWISE SANITARY	3066	LF	\$1.75	\$5,365.50
MANHOLE TESTING	15	EA	\$110.00	\$1,650.00
AIR & MANDREL TESTING	3066	LF	\$1.25	\$3,832.50
TAP INTO EX MH	1	EA	\$3,500.00	\$3,500.00
TOTAL SANITARY				\$204,104.00

Weihe Engineers
 10505 N. College Avenue
 Indianapolis, IN 46280
 317-846-6611

ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A

DATE: Sept. 10, 2018

LOCATION: Carmel, IN

ITEM: STORM

JOB #: W160409

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
15" RCP Pipe	119	LF	\$30.00	\$3,570.00
18" RCP PIPE	130	LF	\$35.00	\$4,550.00
21" RCP PIPE	294	LF	\$40.00	\$11,760.00
24" RCP PIPE	212	LF	\$45.00	\$9,540.00
STR. 3010-DOUBLE INLET w/CASTING	1	EA	\$3,200.00	\$3,200.00
STR. 30 CURB INLET w/CSTG	1	EA	\$2,900.00	\$2,900.00
18" END SECTION	1	EA	\$1,400.00	\$1,400.00
21" END SECTION	1	EA	\$1,500.00	\$1,500.00
24" END SECTION	1	EA	\$1,600.00	\$1,600.00
GRANULAR BACKFILL	215	CYDS	\$13.00	\$2,795.00
6" SSD IN STREET	1240	LF	\$12.00	\$14,880.00
4" SUBSURFACE LOT HOOKUPS	13	EA	\$500.00	\$6,500.00
TELEVISIONING STORM PIPE	755	LF	\$1.65	\$1,245.75
TELEVISIONING 6" STREET SSD	1240	LF	\$1.00	\$1,240.00
TOTAL STORM				\$66,680.75

Weihe Engineers
 10505 N. College Avenue
 Indianapolis, IN 46280
 317-846-6611

ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A

DATE: Sept. 10, 2018

LOCATION: Carmel, IN

ITEM: PAVEMENT JOB #: W160409

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
STONE SUB-BASE (#53 STONE)	550	TONS	\$8.00	\$4,400.00
ASPHALT - 1.5" (9.5 mm Surface)	2440	SYDS	\$10.00	\$24,400.00
ASPHALT - 2" (19 mm Binder)	2440	SYDS	\$12.00	\$29,280.00
ASPAHLT - 3" (25 mm Base)	2440	SYDS	\$18.00	\$43,920.00
LIME STABILIZATION	2715	SYDS	\$3.50	\$9,502.50
TOTAL PAVEMENT				\$111,502.50

Weihe Engineers
10505 N. College Avenue
Indianapolis, IN 46280
317-846-6611

ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A

DATE: Sept. 10, 2018

LOCATION: Carmel, IN

ITEM: CURBS

JOB #: W160409

DESCRIPTION

QUANTITY

UNIT

UNIT PRICE

TOTAL

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
2' CONCRETE ROLL CURB	1240	LF	\$15.00	\$18,600.00

TOTAL CURBS

\$18,600.00

Weihe Engineers
10505 N. College Avenue
Indianapolis, IN 46280
317-846-6611

ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A

DATE: Sept. 10, 2018

LOCATION: Carmel, IN

ITEM: WALKS

JOB #: W160409

DESCRIPTION

QUANTITY

UNIT

UNIT PRICE

TOTAL

5' CONC. WALK (IN FRONT OF LOTS)	1240	LF	\$18.50	\$22,940.00
HANDICAP RAMP	4	EA	\$650.00	\$2,600.00
END OF STREET BARRICADE	1	EA	\$550.00	\$550.00

TOTAL WALKS

\$26,090.00

Weihe Engineers
10505 N. College Avenue
Indianapolis, IN 46280
317-846-6611

ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A

DATE: Sept. 10, 2018

LOCATION: Carmel, IN

ITEM: SIGNAGE

JOB #: W160409

DESCRIPTION

QUANTITY

UNIT

UNIT PRICE

TOTAL

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
STREET SIGNS	1	EA	\$925.00	\$925.00
TRAFFIC CONTROL SIGNS	1	EA	\$675.00	\$675.00

TOTAL SIGNAGE

\$1,600.00

Weihe Engineers
10505 N. College Avenue
Indianapolis, IN 46280
317-846-6611

ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A

DATE: Sept. 10, 2018

LOCATION: Carmel, IN

ITEM: WATER

JOB #: W160409

DESCRIPTION

QUANTITY

UNIT

UNIT PRICE

TOTAL

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
6" MAIN w/VALVES & FITTINGS	465	LF	\$25.00	\$11,625.00
8" MAIN w/VALVES & FITTINGS	169	LF	\$36.00	\$6,084.00
1" LATERAL - K COPPER	524	LF	\$12.00	\$6,288.00
SERVICE TAPS		EA	\$110.00	\$0.00
FLUSHING & TESTING	634	LF	\$1.10	\$697.40
HYDRANTS W/ VALVES	2	EA	\$4,400.00	\$8,800.00
METER PITS (SINGLES)	13	EA	\$850.00	\$11,050.00

TOTAL WATER

\$44,544.40

Weihe Engineers
 10505 N. College Avenue
 Indianapolis, IN 46280
 317-846-6611

ESTIMATE OF PROBABLE COSTS

PROJECT: WATERFRONT OF WESTCLAY SEC 5A

DATE: Sept. 10, 2018

LOCATION: Carmel, IN
DESCRIPTION

ITEM: EROSION
QUANTITY UNIT

JOB #: W160409
UNIT PRICE TOTAL

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
PERMANENT SEEDING	46800	SYDS	\$0.45	\$21,060.00
TEMPORARY SEEDING	18850	SYDS	\$0.25	\$4,712.50
EROSION BLANKETS	8270	SYDS	\$1.50	\$12,405.00
TEMP. CONST. ENTRANCE	335	SYDS	\$20.00	\$6,700.00
SILT FENCE	13685	LF	\$1.10	\$15,053.50
RIP RAP	75	SYDS	\$10.00	\$750.00
BEEHIVE INLET PROTECTION		EA	\$65.00	\$0.00
CURB INLET PROTECTION	5	EA	\$150.00	\$750.00
TREE PROTECTION FENCING	3606	LF	\$2.25	\$8,113.50
HC RAMP PROTECTION	4	EA	\$75.00	\$300.00
BMP, INC. 24R SNOUT	1	EA	\$1,750.00	\$1,750.00
BMP, INC. 18F SNOUT	1	EA	\$1,020.00	\$1,020.00
BMP, INC. 30F SNOUT	1	EA	\$2,100.00	\$2,100.00
STR. 3011-MANHOLE w/ DBLE CURB INLET CSTG (SUMPED)	1	EA	\$4,400.00	\$4,400.00
STR. 31 MANHOLE w/ DBLE CURB INLET CSTG (SUMPED)	1	EA	\$4,000.00	\$4,000.00
STR. 27 CURB INLET w/CSTG (SUMPED)	1	EA	\$3,600.00	\$3,600.00
TOTAL EROSION				\$86,714.50

Weihe Engineers
10505 N. College Avenue
Indianapolis, IN 46280
317-846-6611



**BOND SAFEGUARD COMPANY
Mt. Juliet, TN 37122**

SUBDIVISION PERFORMANCE BOND

BOND #5053193

HADB-2018-00040

KNOW ALL MEN BY THESE PRESENTS, That we, **Paul Shoopman Home Building Group, Inc.**, 11731 Cold Creek Ct., Zionsville, IN 46077 as Principal, and **Bond Safeguard Insurance Company**, 12890 Lebanon Road, Mt. Juliet, TN 37122, as Surety, are held and firmly bound unto the **Hamilton County Commissioners**, One Hamilton Square, Noblesville, IN 46060 as Owner, in the sum of **** Sixty Six Thousand Six Hundred Eighty One and 000 /100 **Dollars (\$66,681.00)** for payment of which we firmly bind ourselves, our heirs, executors, administrators, and assigns.

THE CONDITION OF THIS BOND is such that if the said Principal shall complete the construction of **Waterfront of WestClay, Section 5A – Drainage** according to the approved plans and specifications on file with the **Hamilton County Commissioners**, then this obligation is null and void, otherwise to remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seal this 20th Day of September, 2018.

Paul Shoopman Home Building Group, Inc.

Bond Safeguard Insurance Company

By: _____

By: *Deborah M. Roth*
Deborah M. Roth, Attorney-in-Fact

American Contracting Services, Inc.
P.O. Box 691
Danville, IN 46122
(317) 563-3228

POWER OF ATTORNEY

BSIC 11203



Bond Safeguard Insurance Company

KNOW ALL MEN BY THESE PRESENTS, that BOND SAFEGUARD INSURANCE COMPANY, a South Dakota Corporation, with its statutory home office in Austin, Texas, does hereby constitute and appoint: Anthony G. Balzano, Deborah M. Roth, Rosalie S. Smith, Sarah E. Scott, Jo Ann R. Smith its true and lawful Attorney(s)-In-Fact to make, execute, seal and deliver for, and on its behalf as surety, any and all bonds, undertakings or other writings obligatory in nature.

This authority is made under and by the authority of a resolution which was passed by the Board of Directors of BOND SAFEGUARD INSURANCE COMPANY on the 7th day of November, 2001 as follows:

Resolved, that the President of the Company is hereby authorized to appoint and empower any representative of the Company or other person or persons as Attorney-In-Fact to execute on behalf of the Company any bonds, undertakings, policies, contracts of indemnity or other writings obligatory in nature of a bond, not to exceed \$5,000,000.00, Five Million Dollars, which the Company might execute through its duly elected officers, and affix the seal of the Company thereto. Any said execution of such documents by an Attorney-In-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company. Any Attorney-In-Fact, so appointed, may be removed for good cause and the authority so granted may be revoked as specified in the Power of Attorney.

Resolved, that the signature of the President and the seal of the Company may be affixed to by facsimile on any power of attorney granted, and the signature of the Assistant Secretary, and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certificate so executed and sealed shall, with respect to any bond or undertaking to which it as attached, continue to be valid and binding on the Company.

IN WITNESS THEREOF, BOND SAFEGUARD INSURANCE COMPANY has caused this instrument to be signed by its President, and its Corporate seal to be affixed this 22nd day of June, 2018.

BOND SAFEGUARD INSURANCE COMPANY



BY [Signature] Brian Beggs President

ACKNOWLEDGEMENT

On this 22nd day of June, 2018, before me, personally came Brian Beggs to me known, who being duly sworn, did depose and say that he is the President of BOND SAFEGUARD INSURANCE COMPANY, the corporation described in and which executed the above instrument; that he executed said instrument on behalf of the corporation by authority of his office under the By-laws of said corporation.



AMY TAYLOR Notary Public - State of Tennessee Davidson County My Commission Expires 07-08-19

BY [Signature] Amy Taylor Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of BOND SAFEGUARD INSURANCE COMPANY, A South Dakota Insurance Company, DO HEREBY CERTIFY that the original Power of Attorney of which the foregoing is a true and correct copy, is in full force and effect and has not been revoked and the resolutions as set forth are now in force.

Signed and Sealed at Mount Juliet, Tennessee this 20th Day of September, 2018



BY [Signature] Andrew Smith Assistant Secretary

WARNING: Any person who knowingly and with intent to defraud any insurance company or other person, files an application for insurance or statement of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, commits a fraudulent insurance act, which is a crime and subjects such person to criminal and civil penalties.

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

**Long Branch Drain,
Waterfront of West Clay Section 5A 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, Waterfront of West Clay Section 5A Arm** on **April 22, 2019** at **9:00 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,
Waterfront of West Clay Section 5A Arm**

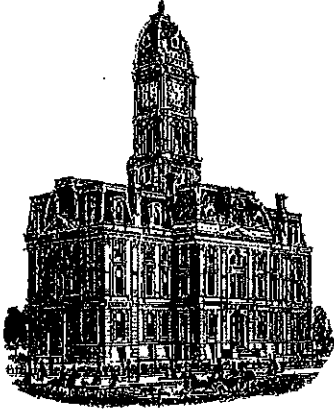
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **April 22, 2019** 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



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 9, 2021

Re: Long Branch Drain: Waterfront of West clay Sec 5A

Attached are as-built, certificate of completion & compliance, and other information for Waterfront at West Clay Sec. 5A. 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 February 20, 2019. The report was approved by the Board at the hearing held April 22, 2019. (See Drainage Board Minutes Book 18, Pages 413-414) The changes are as follows: the 15" RCP was shortened from 136 feet to 120 feet. The 18" RCP was shortened from 130 feet to 127 feet. The 21" RCP was shortened from 314 feet to 280 feet. The 24" RCP was shortened from 212 feet to 207 feet. The 6" SSD was shortened from 1264 feet to 1246 feet. The length of the drain due to the changes described above is now **1980 feet**.

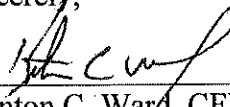
The non-enforcement was approved by the Board at its meeting on April 22, 2019 and recorded under instrument #2021042244.

The following sureties were guaranteed by Bond Safeguard Insurance Company and released by the Board on its April 26, 2022 meeting.

Bond-LC No: 5053193
Amount: \$66,681.00
For: Storm Sewers & SSD
Issue Date: September 20, 2018

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

Sincerely,

A handwritten signature in black ink, appearing to read "Kenton C. Ward", written over a horizontal line.

Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Waterfront at West Clay Section 5A

I hereby certify that:

1. I am a registered Professional 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.
5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Signature:  Date: 4/14/2021

Printed Name: Duane A. Sharrer

Business Address: Weihe Engineers, Inc.
10505 N College Ave.
Indianapolis, IN 46280

Telephone Number: (317) 846-6611

Indiana Registration Number: 890258



STORM SEWER NOTES

- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND STORMWATER POLLUTION PREVENTION PLAN.
- REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
- THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
- ANY PART OF STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
- CLEARANCE BETWEEN STORM / SANITARY SEWER SYSTEMS AND DOMESTIC/FIRE LINE SERVICE, SHALL MAINTAIN 10' HORIZONTAL AND 18" VERTICAL.
- CONTRACTOR TO INSTALL CONCRETE CRADLES AT PIPE CROSSING WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
- SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO ITS CONDITION PRIOR TO CONSTRUCTION.
- WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE Dewatering, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
- COMPACTED "B" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
- ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS AND COVERS.
- COORDINATE LOCATIONS AND CONNECTIONS OF BUILDING STORM LINES WITH PLUMBING DRAWINGS.
- FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO STORM SEWER INSTALLATION.
- ALL EXISTING MANHOLE AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
- EXISTING PIPES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- ALL STORM PIPE CONNECTIONS AT STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- ALL STORM SEWER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS AND COVERS RATED FOR H20 LOADING.
- ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR CHANNEL FROM INVERT IN TO INVERT OUT.
- NEW PIPES AND STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS PRIOR TO FINAL TURN-OVER TO THE OWNER.
- IF HOPE PIPE IS SPECIFIED USE DUAL WALLED, HANCOCK HQ, ADS N-12 PIPE OR APPROVED EQUAL.
- ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC. SHALL BE HOPE MATERIAL, IF SPECIFIED, COMPARABLE WITH STORAGE PIPES.
- PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.
- SEE SHEET C601 FOR STORM SEWER DETAILS

ADDITIONAL NOTE:

THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED REPRESENTATIVE OF THE CITY OF CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS OR 10 FPS OR GREATER AT FULL FLOW CAPACITY SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION. PRIOR TO BACKFILLING THE PIPE, THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.

CITY OF CARMEL COVER AND BACKFILL POLICY; 9-8-06

WATER AND SEWER UNDER PAVEMENT, SIDEWALK, PAVED AREAS AND WITHIN RIGHT-OF-WAY

BEDDING, HAUNCHING INITIAL BACKFILL

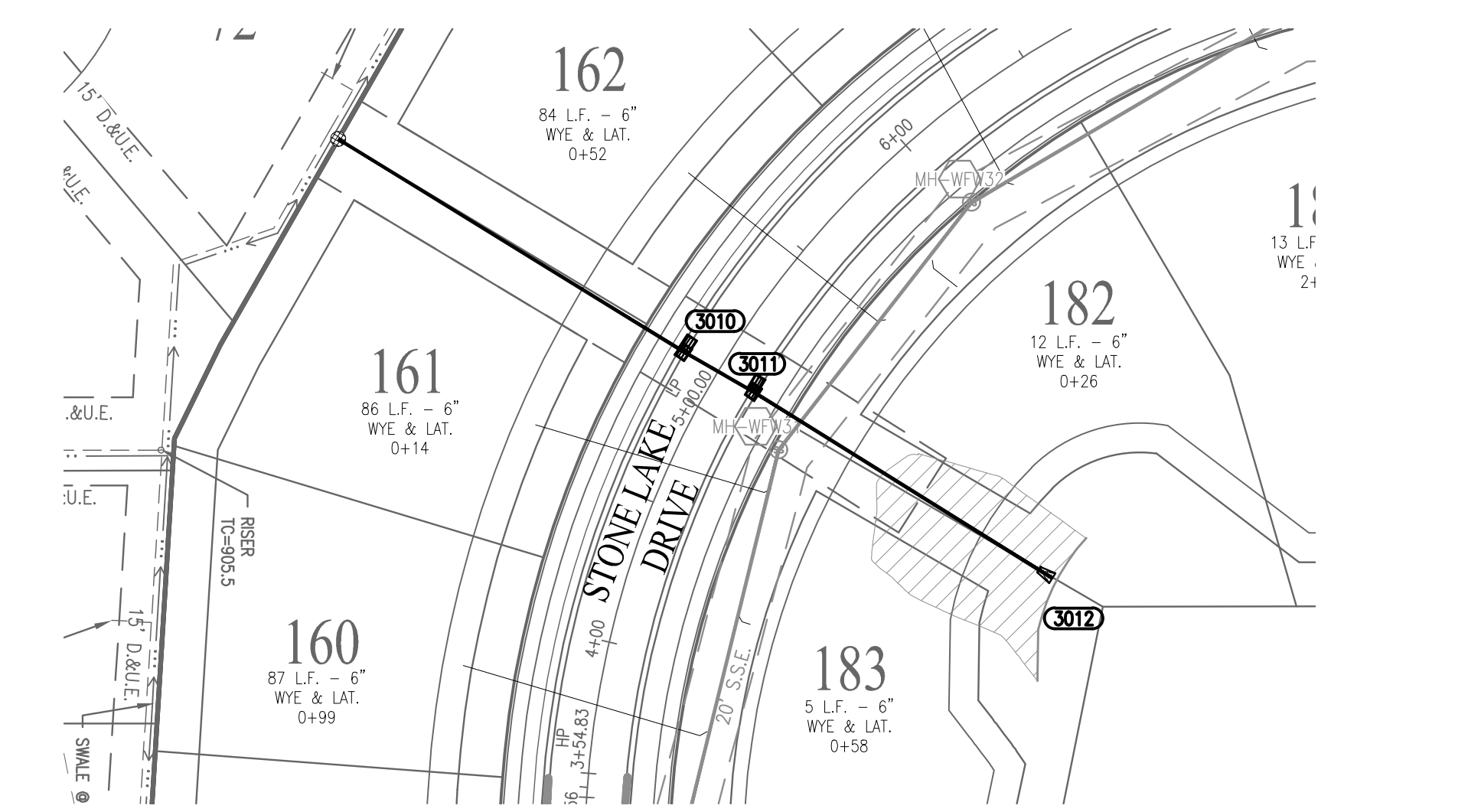
BEDDING, HAUNCHING AND INITIAL BACKFILL REQUIREMENTS AND COMPACTION FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS SHALL BE IN ACCORDANCE WITH THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION.

FINAL BACKFILL

FINAL BACKFILL FOR WATER MAINS, WATER SERVICE LATERALS, SANITARY MAINS AND SANITARY SERVICE LATERALS UNDER AND WITHIN STREET OF PAVEMENT OR SIDEWALK OR OTHER PAVED AREAS AND FOR ALL INSTALLATIONS WITHIN CITY RIGHT-OF-WAY SHALL BE B-BORROW FOR STRUCTURE BACKFILL MEETING THE MATERIAL REQUIREMENTS OF THE INDOT. THE MATERIAL SHALL BE APPROVED BY THE CITY OF CARMEL DEPARTMENT OF ENGINEERS AT TIME OF INSTALLATION. FINAL BACKFILL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED. THE BACKFILL FOR THE TOP 6 INCHES OF THE EXCAVATION BELOW THE START OF THE AGGREGATE SUB-BASE OF THE PAVEMENT SHALL BE NO. 53 STONE MEETING THE MATERIAL REQUIREMENT OF THE INDOT AND SHALL BE COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT BACKFILL REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

MINIMUM COVER FOR PIPE CROSSINGS WITHIN CITY RIGHT-OF-WAY

FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF JURISDICTION OF THE UTILITY, THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 4" BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5 FEET. IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS A MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. COVER HEIGHTS FOR REINFORCED CONCRETE PIPE STORM SEWER THAT ARE LESS THAN THOSE REQUIRED WILL BE EVALUATED ON A CASE BY CASE CONDITION AND APPROVED ONLY WITH WRITTEN PERMISSION BY THE CITY ENGINEER.



STORM SEWER STRUCTURE DATA TABLE				
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
27	DOUBLE CURB INLET	903.12	NEENAH R-3501-TR	INV IN = 899.43(N) INV IN = 899.43(S) INV OUT = 899.04(E)
28	END SECTION	900.62	N/A	INV IN = 898.83(W)
30	MANHOLE	904.04	NEENAH R-3501-TR	INV IN = 899.35(W) INV OUT = 899.25(E)
31	MANHOLE	904.04	NEENAH R-3501-TL	INV IN = 899.19(W) INV IN = 900.00(N) INV IN = 900.00(S) INV OUT = 899.09(E)
32	END SECTION	901.16	N/A	INV IN = 898.83(W)
3010	DOUBLE CURB INLET	903.32	NEENAH R-3501-TR	INV IN = 899.38(NW) INV OUT = 899.28(SE)
3011	DOUBLE CURB INLET	903.34	NEENAH R-3501-TR	INV IN = 899.20(NW) INV OUT = 899.10(SE)
3012	END SECTION	900.91	N/A	INV IN = 898.83(NW)

STORM SEWER PIPE DATA TABLE					
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
27	28	18"	CL V RCP	97'	0.22%
30	31	21"	RCP	30'	0.20%
31	32	24"	RCP	213'	0.12%
3004A	30	21"	RCP	112'	0.15%
3008A	3010	15"	RCP	119'	0.30%
3010	3011	18"	RCP	30'	0.26%
3011	3012	21"	RCP	121'	0.22%

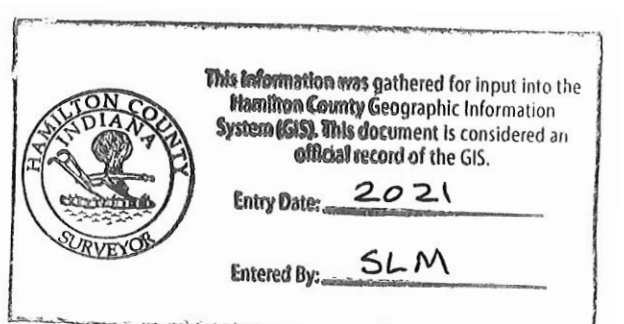
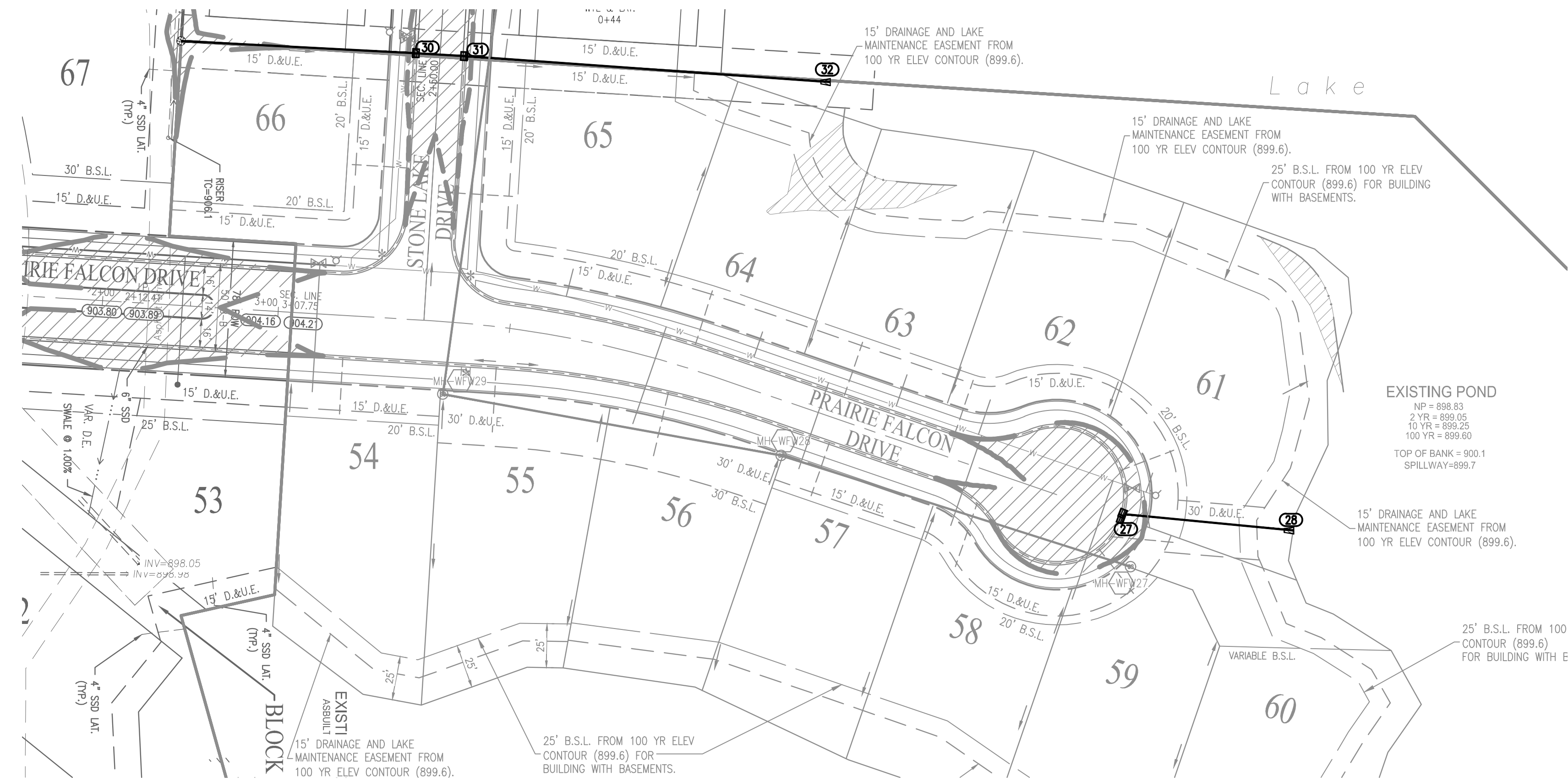
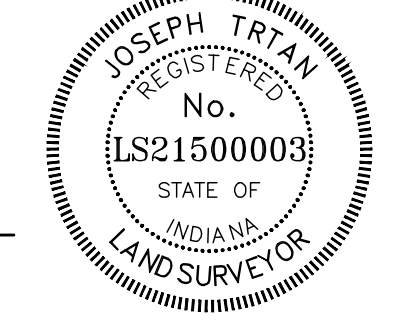
BENCHMARK INFORMATION

BM 800 54 - A DNR DISK IS LOCATED 1.0 MILE NORTHEAST OF ZIONSVILLE, 0.2 MILE EAST ALONG WEST 121ST STREET FROM ITS JUNCTION WITH STATE ROAD 421, AT THE INTERSECTION OF DAUGHERTY DRIVE AND WEST 121ST STREET, IN THE NORTHEAST 1/4 OF THE INTERSECTION, AT THE ENTRANCE TO THE EAGLE VILLAGE SUBDIVISION, SET IN THE TOP OF A CONCRETE POST, LEVEL WITH THE GROUND. A DEPARTMENT OF NATURAL RESOURCES BRASS CONTROL STATION TABLE STAMPED "800 54 1989".
ELEV. 901.14 FEET (1929 DATUM)
ELEV. 900.76 FEET (1988 DATUM)
THESE PLANS ARE BASED ON 1988 DATUM

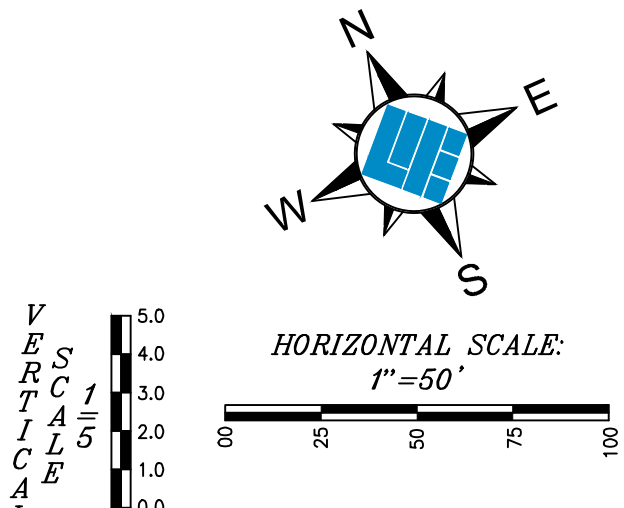
RECORD DRAWING

STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
11/14/2019

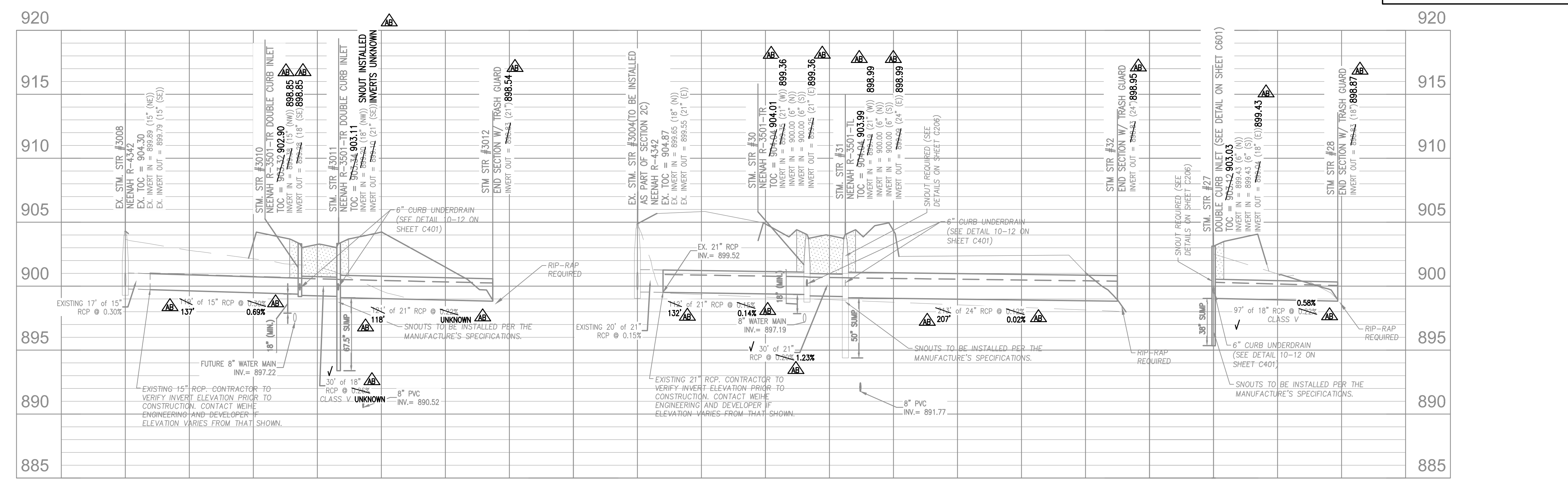
JOSEPH TRTAN, LS21500003



AS-BUILT INFORMATION
BUILT AS PLANNED
DATE OF LAST FIELDWORK: 9/30/2019



PROFILE LEGEND	
	EXISTING GRADE
	FINISHED GRADE
	HYDRAULIC GRADE LINE
	GRANULAR BACKFILL (SEE DETAIL 10-31 ON SHEET C601)



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317 | 843 - 0546 fax

WEIHE ENGINEERS
Land Surveying / Civil Engineering
Landscape Architecture

DATE	BY	PROJECT NO.	DESCRIPTION
12/28/2017	JK	W160409-5A	AS-BUILT RECORD DRAWING
02/07/2018	JK	W160409-5A	AS-BUILT RECORD DRAWING
02/07/2018	JK	W160409-5A	AS-BUILT RECORD DRAWING
02/07/2018	JK	W160409-5A	AS-BUILT RECORD DRAWING
02/07/2018	JK	W160409-5A	AS-BUILT RECORD DRAWING
02/07/2018	JK	W160409-5A	AS-BUILT RECORD DRAWING
02/07/2018	JK	W160409-5A	AS-BUILT RECORD DRAWING
02/07/2018	JK	W160409-5A	AS-BUILT RECORD DRAWING
02/07/2018	JK	W160409-5A	AS-BUILT RECORD DRAWING
02/07/2018	JK	W160409-5A	AS-BUILT RECORD DRAWING

REVISIONS AND ISSUES
1. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING
2. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING
3. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING
4. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING
5. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING
6. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING
7. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING
8. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING
9. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING
10. 02/07/2018 JK W160409-5A AS-BUILT RECORD DRAWING

DUANE A. SHARRER, P.E.
Professional Engineer
No. 890256
STATE OF INDIANA

PREPARED FOR:
WATERFRONT OF WEST CLAY
SECTION FIVE "A" & MASS GRADING
FOR FUTURE 5B
WATERFRONT HOMES
STORM PLAN AND PROFILE
Part of the SF 1/4 of Section 21, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana
SHEET NO. **C600**
PROJECT NO. **W160409-5A**

LOCATION: H:\2019\W160409\Section 5A\Engineering\Design\Submittals\AB_Convert\AB_C600_Storm_Profile.dwg
DATE/TIME: November 14, 2019 - 11:18am
PLOTTED BY: weaver