



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

January 27, 2015

To: Hamilton County Drainage Board

Re: Little Eagle Creek Drain, The Preserve at Bear Creek Section 1 Arm

Attached is a petition filed by Pulte Homes of Indiana LLC, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for The Preserve at Bear Creek Section 1 Arm, Little Eagle Creek 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	1,091 ft.	21" RCP	343 ft.
15" RCP	1,460 ft.	24" RCP	530 ft.
18" RCP	196 ft.	6" SSD	11,281 ft.

The total length of the drain will be 14,901 feet.

The dry detention basin (Basin #1) located in Common Area 1-B is to be considered part of the regulated drain, as it provides future detention volume for 146th Street. Dry basins (Basin #2 and #3) located in Common Areas 1-C and 1-D are not to be considered part of the regulated drain. Basin maintenance assumed by the Drainage Board shall include the inlet and outlet as part of the regulated drain. The maintenance of the basins (basins #2 and #3) such as sediment removal and erosion control along the banks, mowing and vegetation maintenance and control will be the responsibility of the Homeowners Association The Board will also retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained, thereby, allowing no fill or easement encroachments.

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 as described below, 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 portions of the SSD which will be regulated and maintained are as follows:

Curbline SSD in Streets:

Voyageur Way Evergreen Trail Denali Drive Kodiak Drive Rear Yard SSDs:

Rear yard lots 39 to 41

Rear yard lots 34 to 38

Rear yard lots 28 to 30 from Str. 617 Rear yard lots 31 to 32 from Str. 620

Common Area 1-C

Rear yard lots 1 to 3 from Str. 604 to Str. 605

Common Area 1-B from Str. 605 to Str. 606

Rear yard lots 6 to 10 Common Area 1-B

Rear yard lots 11 to 12

Rear yard lots 13 to 15

Rear yard lots 16 to 18

Rear yard lots 25 to 27

Common Area 1-D

Rear yard lots 21 to 23

Rear yard lot 20, 78 and 79

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 \$3,635.40.

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: The Continental Insurance Company

Date: October 1, 2014 Number: 929602319

For: Storm Sewers & Sub-Surface Drains

Amount: \$462,353.64

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 The Preserve at Bear Creek Section 1 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for March 23, 2015.

Kenton C. Ward, CFM Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)
COUNTY OF HAMILTON)

(Revised 06/08/04)

FILED

MAY 1 6 2014

TO: HAMILTON COUNTY DRAINAGE BOARD

% Hamilton County Surveyor
One Hamilton County Square, Suite 188
Noblesville, IN. 46060-2230

OFFICE OF HAMILTON COUNTY SURVEYOR

In the matter of	The Preserve at Bear Creek	Subdivision, Section		
1	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 _____ The Preserve at Bear Creek _____, 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.
- 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.

Adobe PDF Fillable Form

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

Soff Sil	
Signed	Signed
Printed Name Printed Name	Printed Name
5/16/14 Date	Date
Signed	Signed
Printed Name	Printed Name
Date	Date

Adobe PDF Fillable Form

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Little Eagle Creek Drain, The Preserve at Bear Creek Section 1 Arm

On this 13th day of April, 2015, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Little Eagle Creek Drain, The Preserve at Bear Creek Section 1 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



619 N. Pennsylvania Street, Indianapolis, Indiana 46204
+1-317-423-0690 OFFICE +1-877-668-8848 TOIL-FREE Williamscreek.net
Infrastructure · Science · Technology

Engineer's Estimate

Date:

26 August 2014

Issued To:

Mason McQuinn, Pulte Homes of Indiana

Issued By:

Williams Creek Consulting, Inc.

Project Name:

The Preserve at Bear Creek

Purpose:

Section 1 Infrastructure Construction Cost – Engineer's Estimate

Williams Creek

Project Number:

01.0726.A.1

The following contains the estimated construction cost of infrastructure associated with Section 1 of The Preserve at Bear Creek. Estimated quantities are included in the tables below.

Estimated Construction Cost = \$1,667,066.66

Infrastructure breakdown:

O Signage - \$3,680.00

Sidewalk - \$13,700.25

Sanitary Sewer - \$353,640.00

O Watermain - \$338,622.00

O Curb - \$39,799.70

O Paving - \$317,820.33

O Erosion Control - \$127,646.74

O Monumentation - \$9,804.00

Storm Sewer - \$462,353.64

Signage: \$3,680.00				
Item	Unit	Quantity	Unit Cost	Item Cost
Signs	EA	16	\$230.00	\$3,680.00
Sidewalk: \$13,700.25				
Item	Unit	Quantity	Unit Cost	Item Cost
Sidewalk	SF	3,705	\$3.05	\$11,300.25
Ramps	EA	6	\$400.00	\$2,400.00



Sanitary Sewer: \$353,640.00				
Item	Unit	Quantity	Unit Cost	Item Cost
8" PVC 8'-12'	LF	732	\$36.00	\$26,352.00
8" PVC 12'-16'	LF	1,455	\$48.00	\$69,840.00
8" PVC 16'-20'	LF	517	\$55.00	\$28,435.00
8" PVC 20'-25'	LF	665	\$78.00	\$51,870.00
Testing	LS	1	\$1,195.00	\$1,195.00
Manholes 8'-12'	EA	4	\$3,000.00	\$12,000.00
Manholes 12'-16'	EA	7	\$4,000.00	\$28,000.00
Manholes 16'-20'	EA	3	\$5,000.00	\$15,000.00
Manholes 20'-25'	EA	3	\$6,000.00	\$18,000.00
Sanitary Laterals	LF	1,871	\$38.00	\$71,098.00
Granular Backfill	TON	2,450	\$13.00	\$31,850.00
Water Main: \$338,622.00				
Item	Unit	Quantity	Unit Cost	Item Cost
8" D.I. Water Main	LF	3,761	\$32.00	\$120,352.00
8" Gate Valve	EA	11	\$1,800.00	\$19,800.00
Fire Hydrant Assembly	EA	10	\$4,500.00	\$45,000.00
Granular Fill	TON	4,790	\$13.00	\$62,270.00
Services	EA	48	\$1,900.00	\$91,200.00
Curb: \$39,799.70				
Item	Unit	Quantity	Unit Cost	Item Cost
Roll Curb & Gutter	LF	5,905	\$6.74	\$39,799.70
Paving: \$317,820.33				
Item	Unit	Quantity	Unit Cost	Item Cost
Local Stone Base	TON	4,345	\$15.37	\$66,782.65
Local HMA Base	TON	1,610	\$56.19	\$90,465.90

\$65,181.06

\$60,012.75 \$8,375.22

\$6,500.16

\$4,019.25

\$16,483.34

Local HMA Int

Local HMA Surface

ROW Stone Base

ROW HMA Base

ROW HMA Int

ROW HMA Surface

1,074

805

414

111

69

134

\$60.69

\$74.55

\$20.23

\$58.56

\$58.25

\$123.01

TON

TON

TON

TON

TON

TON



Erosion Control: \$127,646.74				
Item	Unit	Quantity	Unit Cost	Item Cost
Perimeter Silt Fence	LF	2,620	\$0.95	\$2,489.00
Rear Yard Silt Fence	LF	5,380	\$0.95	\$5,111.00
Front Yard Silt Fence	LF	4,940	\$0.95	\$4,693.00
Curb Inlet Protection	EA	20	\$35.00	\$700.00
Beehive Inlet Protection	EA	4	\$45.00	\$180.00
Permanent Seed w/ Blanket	SY	25,753	\$1.19	\$30,646.07
Permanent Seed and Mulch	SY	61,846	\$0.47	\$29,067.62
Temporary Seed and Mulch	SY	59,555	\$0.25	\$14,888.75
Native Plug Plantings	EA	10,094	\$3.95	\$39,871.30
Monumentation: \$9,804.00 (20% Contingency Added to Total)				
Item	Unit	Quantity	Unit Cost	Item Cost
Lot Corners	Lots	46	\$100.00	\$4,600.00
Centerlines	EA	21	\$170.00	\$3,570.00
Storm Sewer: \$462,353.64 (20% Contingency Added to Total)				
Item	Unit	Quantity	Unit Cost	Item Cost
12" Pipe	LF	1,091	\$31.00	\$33,821.00
15" Pipe	LF	1,460	\$35.00	\$51,100.00
18" Pipe	LF	196	\$39.00	\$7,644.00
21" Pipe	LF	343	\$43.00	\$14,749.00
24" Pipe	LF	530	\$47.00	\$24,910.00
12" End Section	EA	1	\$850.00	\$850.00
12" Trash Grate	EA	1	\$450.00	\$450.00
15" End Section	EA	4	\$900.00	\$3,600.00
15" Trash Grate	EA	4	\$475.00	\$1,900.00
18" End Section	EA	1	\$1,000.00	\$1,000.00
18" Trash Grate	EA	1	\$500.00	\$500.00
21" End Section	EA	1	\$1,100.00	\$1,100.00
21" Trash Grate	EA	1	\$550.00	\$550.00
24" End Section	EA	2	\$1,200.00	\$2,400.00
24" Trash Grate	EA	2	\$600.00	\$1,200.00
Standard Manhole	EA	16	\$3,600.00	\$57,600.00
Inlet	EA	13	\$2,850.00	\$37,050.00
Granular Backfill	TON	1,700	\$13.00	\$22,100.00
SSD Under Curb	LF	5,960	\$9.25	\$55,130.00
SSD in Swale	LF	5,740	\$11.50	\$66,010.00
SSD Laterals	EA	46	\$35.45	\$1,630.70



Should you have any question in regards to the above information, please do not hesitate to contact me at (317) 423-0690 or arosenwinkel@williamscreek.net.

Best regards, Williams Creek Consulting, Inc.

Alan E. Rosenwinkel, RLA Project Manager



PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that Pulte Homes of Indiana, LLC of 11590 N. Meridian, Suite 530, Carmel IN 46032 as Principal, and The Continental Insurance Company a corporation organized and existing under the laws of the State of Pennsylvania and authorized to transact business in the state of Indiana, as Surety, are held and firmly bound unto the Hamilton County Board of Commissioners, One Hamilton County Square, Noblesville IN 46060 as Obligee, in the penal sum of four hundred sixty two thousand three hundred fifty three and 64/100 (\$462,353.64) for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has agreed to construct or have constructed, <u>storm sewer in Section</u>

1 of The Preserve at Bear Creek.

NOW, THEREFORE, the condition of this obligation is such that if said Principal shall well and truly perform said work in accordance with said standards, then this obligation shall be void, otherwise to remain in full force and effect.

OCT 02 2014

Signed, sealed and dated this 1st day of October, 2014.

OFFICE OF HAMILTON COUNTY SURVEYOR

Pulte Homes of Indiana, LLC

Bryce Langen, Assistant Treasurer

The Continental Insurance Company

Bruce E. Robinson, Attorney-in-Fact

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That The Continental Insurance Company, a Pennsylvania insurance company, is a duly organized and existing insurance company having its principal office in the City of Chicago, and State of Illinois, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Bryce Langen, Bruce E. Robinson, James Zeumer, Robert Porter, James Ossowski, Matthew Zitka, Brien O'Meara, Individually

of Bloomfield Hills, MI,, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In an amount not to exceed Two Million and no/100 Dollars (\$2,000,000.00) -

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the insurance company and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Board of Directors of the insurance company.

In Witness Whereof, The Continental Insurance Company has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 10th day of July, 2014.



The Continental Insurance Company

Paul T. Bruflat

Vice President

State of South Dakota, County of Minnehaha, ss:

On this 10th day of July, 2014, before me personally came Paul T. Bruflat to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of The Continental Insurance Company, a Pennsylvania insurance company, described in and which executed the above instrument; that he knows the seal of said insurance company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said insurance company and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance company.



My Commission Expires June 23, 2015

J. Mohr

Notary Public

CERTIFICATE



The Continental Insurance Company

D. Bult

Assistant Secretary

Form F6850-4/2012

Authorizing Resolutions

ADOPTED BY THE BOARD OF DIRECTORS OF THE CONTINENTAL INSURANCE COMPANY:

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the Board of Directors of the Company at a meeting held on May 10, 1995.

"RESOLVED: That any Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Group Vice President to the Secretary of the Company prior to such execution becoming effective."

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execution power of attorneys on behalf of The Continental Insurance Company.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

"Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the "Authorized Officers") to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, "Electronic Signatures"); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company."



ACKNOWLEDGEMENT BY SURETY

STATE OF GEORGIA)

)ss.

COUNTY OF FULTON)

This record was acknowledge before me on October 1, 2014 by Bruce E. Robinson as Attorney-in-Fact of The Continental Insurance Company, who provided to me on the basis of satisfactory evidence to be the person who appeared before me and is personally known to me.

SHIRLEY E HUTCHINS Notary Public Fulton County State of Georgia My Commission Expires Apr 17, 2018

WITNESS my hand and official seal.

Signature of Notary Public

Shirley E. Hutchins

Notary Public State of Georgia

My Commission Expires: April 17, 2018



<u>ACKNOWLEDGEMENT BY PRINCIPAL</u>

STATE OF GEORGIA)

Ss.

COUNTY OF FULTON)

This record was acknowledge before me on October 1, 2014, by Bryce Langen, Assistant Treasurer of <u>Pulte Homes of Indiana, LLC</u>, who provided to me on the basis of satisfactory evidence to be the person who appeared before me and is personally known to me.

WITNESS my hand and official seal.

Signature of Notary Public

Shirley E. Hutchins

Notary Public State of Georgia

My Commission Expires: April 17, 2018

SHIRLEY E HUTCHINS

Notary Public

Fulton County

State of Georgia

My Commission Expires Apr 17, 2018

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

Little Eagle Creek Drain, The Preserve at Bear Creek Section 1 Arm

NOTICE

То	Whom	It	May	Concern	and:	
						_

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the Little Eagle Creek Drain, The Preserve at Bear Creek Section 1 Arm on March 23, 2015 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

Little Eagle Creek Drain, The Preserve at Bear Creek Section 1 Arm

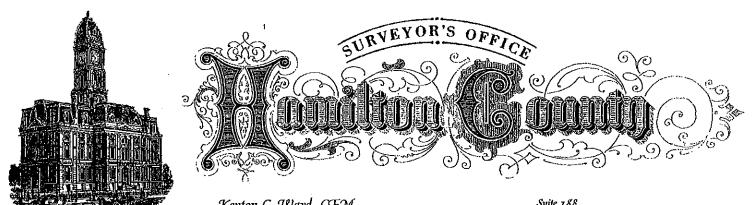
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on April 13, 2015 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 Thone (317) 776-8495 Tax (317) 776-9628 Suite 188 One Hamilton County Square Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

June 2, 2016

Re: Little Eagle Creek: Preserve at Bear Creek Section 1

Attached are as-built, certificate of completion & compliance, and other information for Preserve at Bear Creek Section 1. 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 January 27, 2015. The report was approved by the Board at the hearing held April 13, 2015. (See Drainage Board Minutes Book 16, Pages 126-128,153-156) The changes are as follows:

The 12" RCP was shortened from 1,091 feet to 1,074 feet. The 15" RCP was lengthened from 1,406 feet to 1,639 feet. The 18" RCP was reduced to 0 feet. The 21" RCP was shortened from 343 feet to 341 feet. The 6" SSD was lengthened from 11,281 feet to 12,054 feet. The length of the drain due to the changes described above is now 15,581 feet.

The non-enforcement was approved by the Board at its meeting on April 13, 2015 and recorded under instrument #2015017257.

The following sureties were guaranteed by Continental Insurance Company and released by the Board on its June 13, 2016 meeting.

Bond-LC No: 929602319 Amount: \$462,353.64 For: Storm Sewers

Issue Date: October 01, 2014

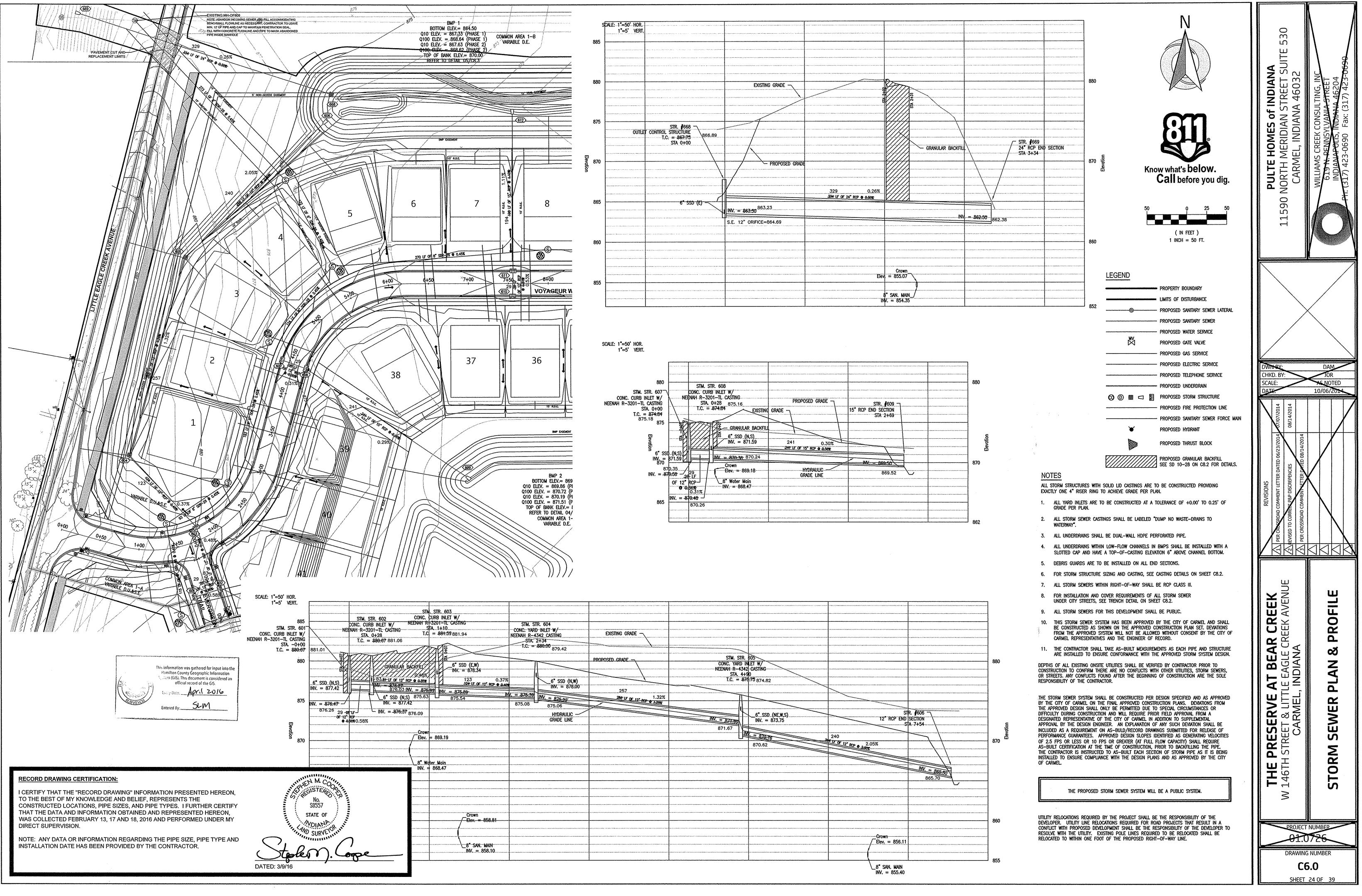
I recommend	the Board	approve the	drain's	construction	as comi	olete and acce	ntable.
1 10001111110110	mo Doma	upprove and	dium b	COLIDII GOULOIL	ab com	note and acce	patore.

Sincerely

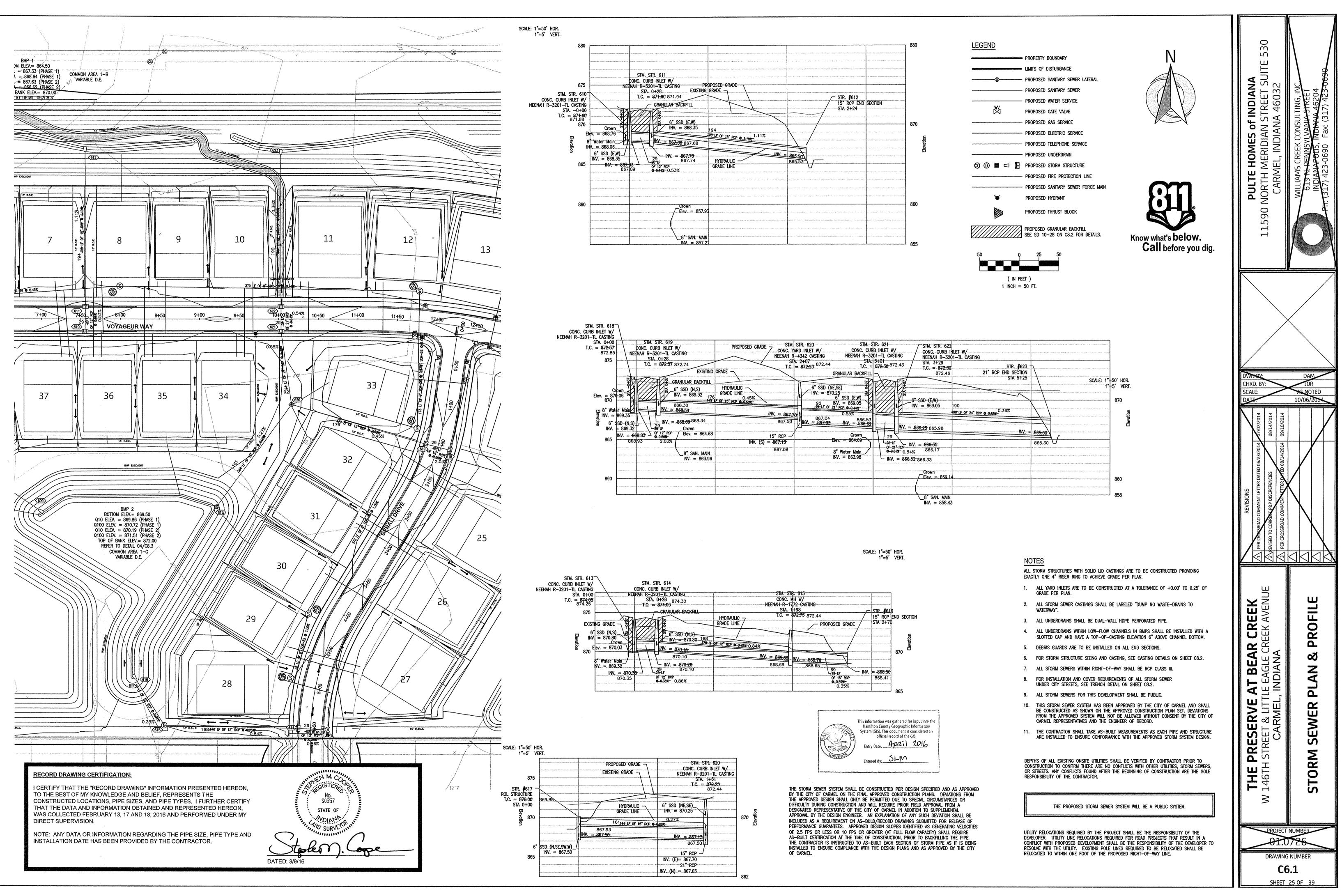
Kenton C. Ward, CFM Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

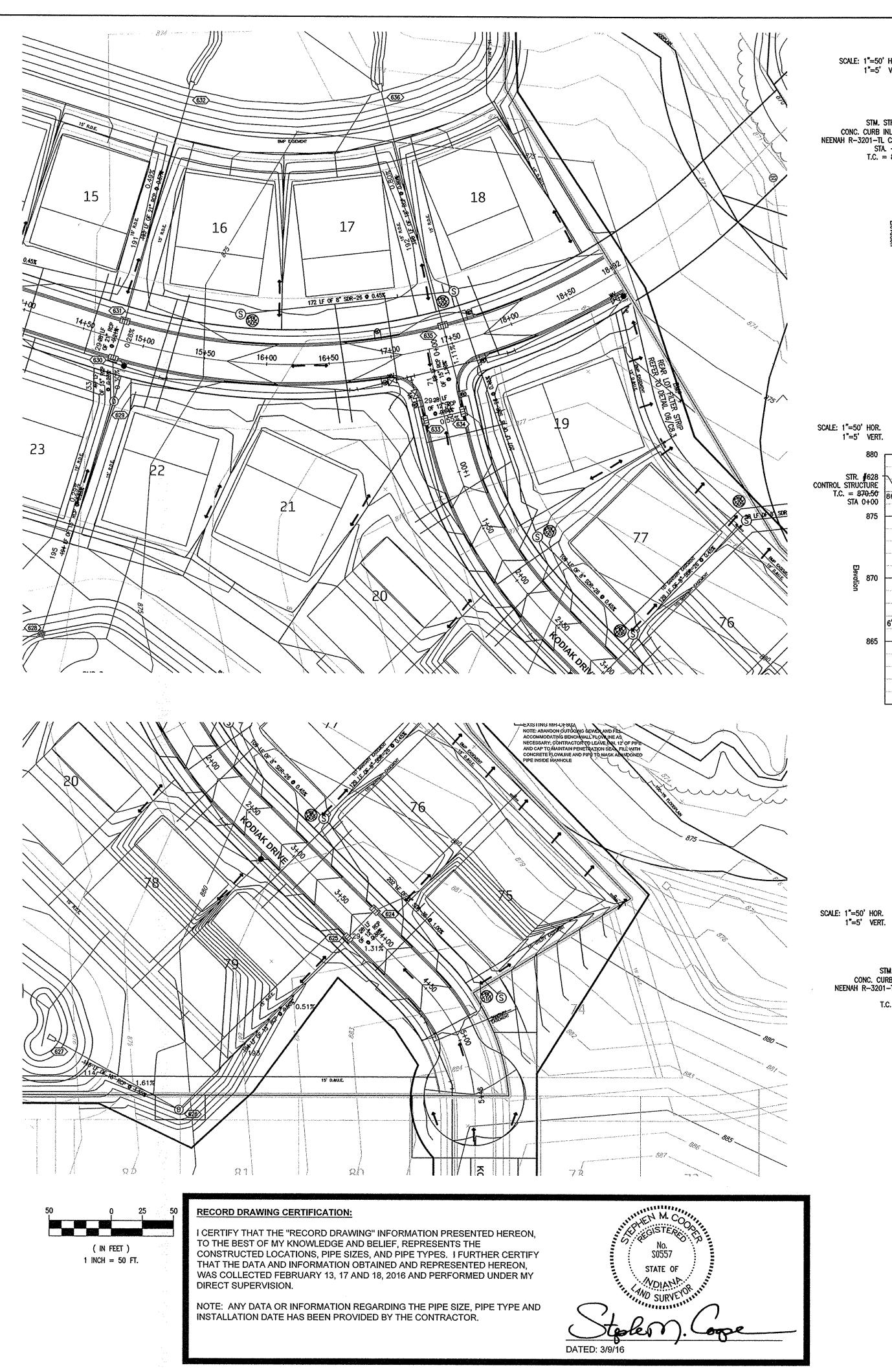
To: Hamilton County Surveyor				
Re: PRESERVE AT BEAR CREEK - SECTION !				
I hereby certify that:				
1. I am a Registered Land Surveyor or Engineer in the State of Indiana.				
2. I am familiar with the plans and specifications for the above referenced subdivision.				
3. I have personally observed 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.				
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: 2 Date: 4/11/14				
Type or Print Name: JAMES O. RINEHART				
Business Address: 619 N. PENNSYLVANIA STREET				
NODIANAROLIS INDIANA 46204				
Telephone Number: 317-473-0690				
INDIANA REGISTRATION NUMBER				
10200495				

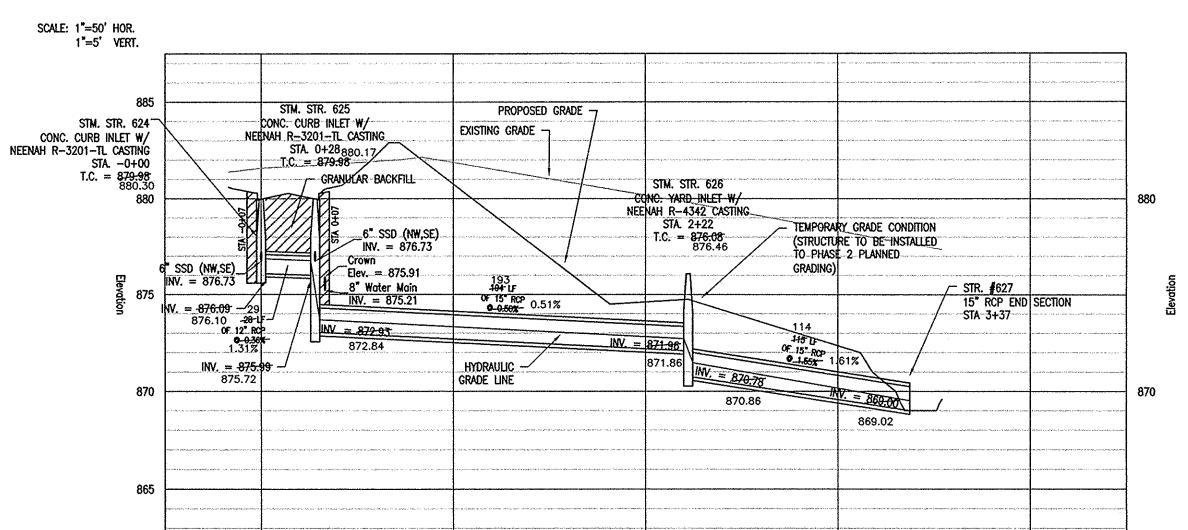


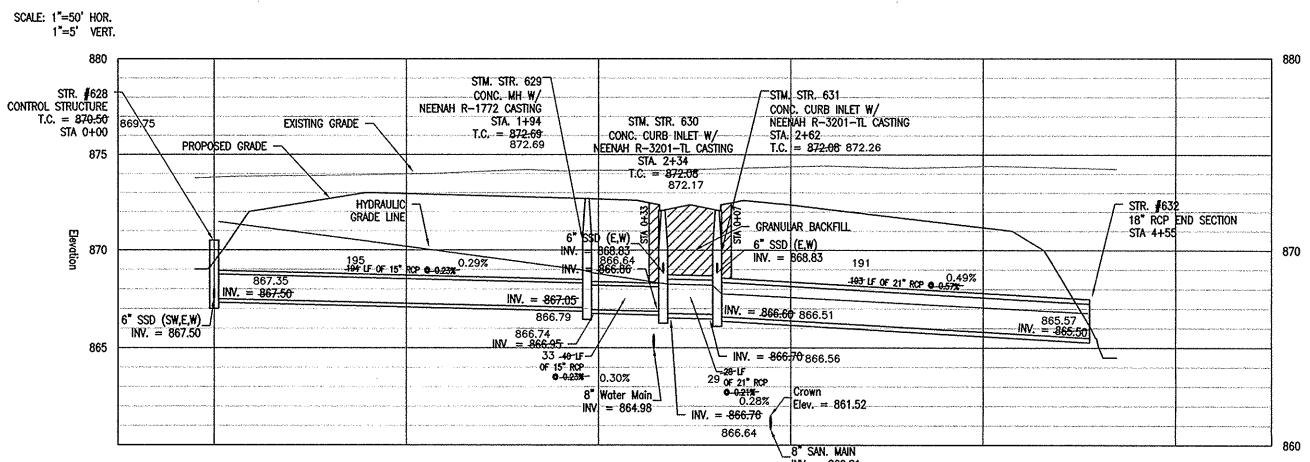
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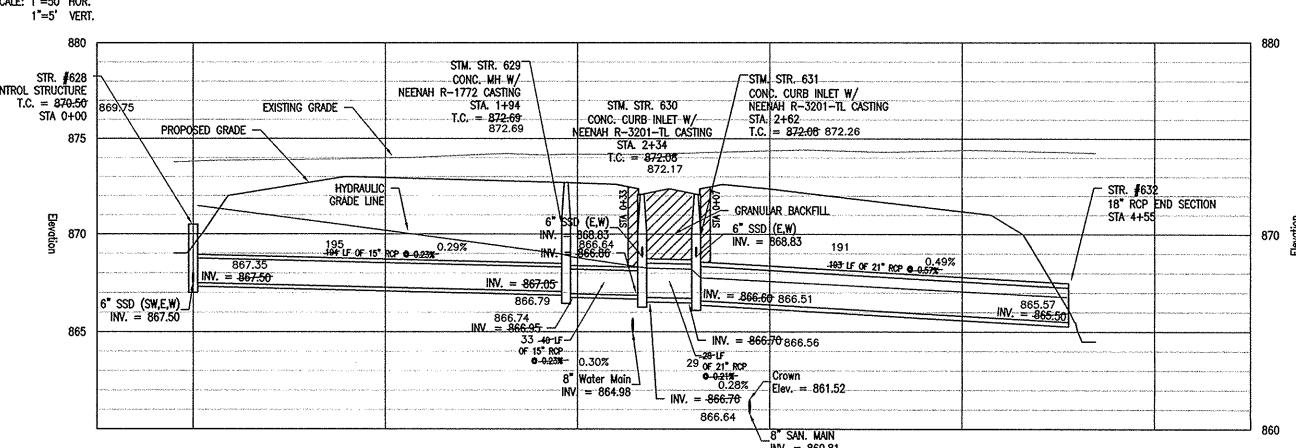


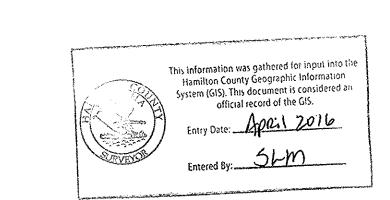
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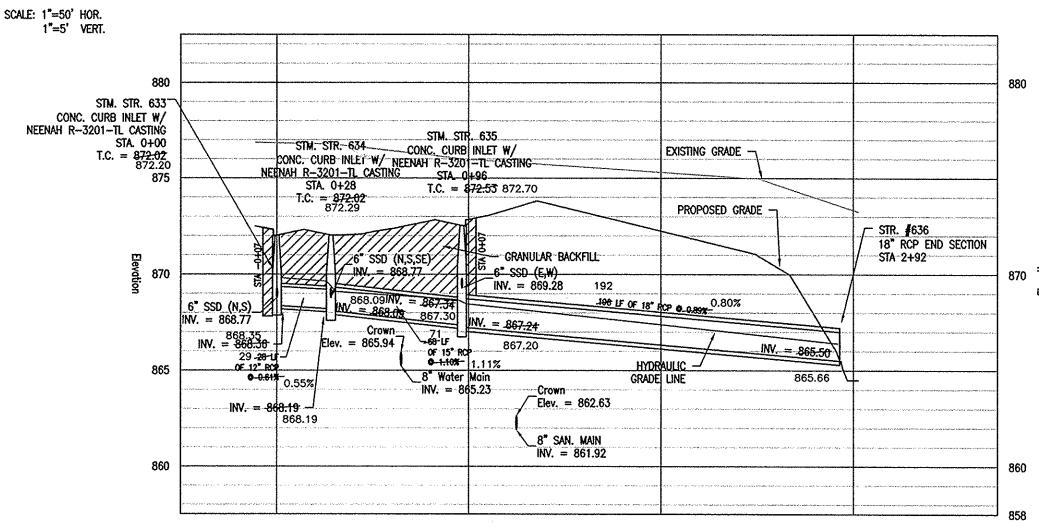




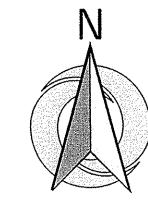








LEGEND -@----PROPOSED SANITARY SEWER LATERA PROPOSED GATE VALVE ② ② ■ □ 月 PROPOSED STORM STRUCTURE PROPOSED HYDRANT PROPOSED THRUST BLOCK





ALL STORM STRUCTURES WITH SOLID LID CASTINGS ARE TO BE CONSTRUCTED PROVIDING EXACTLY ONE 4" RISER RING TO ACHIEVE GRADE PER PLAN.

- 1. ALL YARD INLETS ARE TO BE CONSTRUCTED AT A TOLERANCE OF +0.00' TO 0.25' OF
- 2. ALL STORM SEWER CASTINGS SHALL BE LABELED "DUMP NO WASTE-DRAINS TO
- 3. ALL UNDERDRAINS SHALL BE DUAL—WALL HDPE PERFORATED PIPE.
- 4. ALL UNDERDRAINS WITHIN LOW-FLOW CHANNELS IN BMPS SHALL BE INSTALLED WITH A
- SLOTTED CAP AND HAVE A TOP-OF-CASTING ELEVATION 6" ABOVE CHANNEL BOTTOM. 5. DEBRIS GUARDS ARE TO BE INSTALLED ON ALL END SECTIONS.
- 6. FOR STORM STRUCTURE SIZING AND CASTING, SEE CASTING DETAILS ON SHEET C8.2.
- 7. ALL STORM SEWERS WITHIN RIGHT-OF-WAY SHALL BE RCP CLASS III.
- 8. FOR INSTALLATION AND COVER REQUIREMENTS OF ALL STORM SEWER UNDER CITY STREETS, SEE TRENCH DETAIL ON SHEET C8.2.
- 9. ALL STORM SEWERS FOR THIS DEVELOPMENT SHALL BE PUBLIC.
- 10. THIS STORM SEWER SYSTEM HAS BEEN APPROVED BY THE CITY OF CARMEL AND SHALL BE CONSTRUCTED AS SHOWN ON THE APPROVED CONSTRUCTION PLAN SET. DEVIATIONS FROM THE APPROVED SYSTEM WILL NOT BE ALLOWED WITHOUT CONSENT BY THE CITY OF CARMEL REPRESENTATIVES AND THE ENGINEER OF RECORD.
- 11. THE CONTRACTOR SHALL TAKE AS-BUILT MEASUREMENTS AS EACH PIPE AND STRUCTURE ARE INSTALLED TO ENSURE CONFORMANCE WITH THE APPROVED STORM SYSTEM DESIGN.

DEPTHS OF ALL EXISTING ONSITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION TO CONFIRM THERE ARE NO CONFLICTS WITH OTHER UTILITIES, STORM SEWERS, OR STREETS. ANY CONFLICTS FOUND AFTER THE BEGINNING OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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-BULD/RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DÉSIGN 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

THE PROPOSED STORM SEWER SYSTEM WILL BE A PUBLIC SYSTEM.

UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED SHALL BE RELOCATED TO WITHIN ONE FOOT OF THE PROPOSED RIGHT-OF-WAY LINE.

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