



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

October 17, 2007

TO: Hamilton County Drainage Board

RE: Little Eagle Creek Drain, Longridge Estates Section 3 Arm

Attached is a petition filed by Platinum Properties, LLC along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Longridge Estates Section 3 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:

6" SSD	7,357 ft.	24" RCP	355 ft.	36" RCP	94 ft.
12" RCP	1,805 ft.	27" RCP	462 ft.	36" CMP	32 ft.
15" RCP	993 ft.	30" RCP	292 ft.	Open Ditch	7,357 ft.

The total length of the drain will be 12,514 feet.

The 36" CMP listed above is the existing culvert under 141st Street. The open ditch is 3 segments. Segment #1 is approximately 465 feet from the east boundary of the project to Structure 224. Segment #2 is approximately 601 feet from Structure 228 to Structure 233. The third segment is approximately 58 feet from Structures 231 and 235 to the west right of way line of West Road.

The Retention Pond # 2, #5, and # 1 located in Common Area # 8 and # 10 are to be considered part of the regulated drain. Pond maintenance shall include the inlet, outlet, sediment removal and erosion control along the banks and the bio-swales as part of the regulated drain. The maintenance of the ponds such as mowing, 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 ponds were designed will be retained, thereby, allowing no fill or easement encroachments.

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

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 \$10.00 per acre for common areas and platted lots, \$10.00 per acre for roadways, with a \$65.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$3,649.40.

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: Bond Safeguard Insurance Company

Date: June 22, 2007 Number: 5027109 For: Storm Sewers Amount: \$322,848.00

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 Longridge Estates Section 3 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 26, 2007.

Kenton C. Ward, CFM Hamilton County Surveyor

KCW/pll

STATE OF INDIAN	A)	(Ikevised 06/08/04)	
COUNTY OF HAMI	LTON)		
% Hamilton Cou One Hamilton	DUNTY DRAINAGE BOARD inty Surveyor County Square, Suite 188 N. 46060-2230		
In the matter of	LongRidge Estates	Subdivision, Section	
Three	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 LongRidge Estates, Section 3, 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:

- 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.
- 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

Ita Brown		
Signed /	Signed	Horney and the state of the sta
Steve Broermann		
Printed Name	Printed Name	
April 3, 2006		
Date	Date	
Signed	Signed	THE STATE OF THE S
Printed Name	Printed Name	
Date	Date	



STOEPPELWERTH & ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

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

Curtis C. Huff Vice President, COO Professional Land Surveyor

R.M. Stoeppelwerth Founder Professional Engineer Professional Land Surveyor June 20, 2007

Hamilton County Surveyor One Hamilton County Square Suite 188 Noblesville, Indiana 46060

Attention: Greg Hoyes

JUN 2 7 2007

OFFICE OF HAMILTON COUNTY SURVEYOR

Re: Lo

Longridge Estates, Section 3

Dear Mr. Hoyes:

On behalf of the developer, Platinum Properties, I wish to submit the following Engineer's Estimates for Long Ridge Estates, Section 3. The estimate is as follows:

Longridge Estates, Section 3

DESCRIPTION	QUANTITY	UNIT	UNIT	EXTENSION
		TYPE	PRICE	
STORM DRAINAGE				
12" Pipe	1736	L.F.	\$15.12	\$26,248
12" End Section	6	EA	\$800	\$4,800
12" Trash Guard	2	EA	\$375	\$750
15" Pipe	900	L.F.	\$16.67	\$15,003
15" End Section	3	EA	\$850	\$2,550
18" Pipe	615	L.F.	\$21.50	\$13,223
18" Trash Guard	2	EA	\$450	\$900
24" Pipe	328	EA	\$27.00	\$8,856
24" End Section	2	EA	\$1,050	\$2,100
27" Pipe	498	L.F.	\$30.48	\$15,179
27" End Section	1	EA	\$1,100	\$1,100
30" Pipe	210	L.F.	\$38.00	\$7,980
36" Pipe	273	L.F.	\$40.14	\$10,958
36" End Section	2	EA	\$1,600	\$3,200
Standard Storm Manholes	17	EA	\$1,650	\$28,050

7965 East 106th Street Fishers, Indiana 46038-2505

317 849 5935 Fax: 317 849 5942 www.Stoeppelwerth.com

Hamilton County Surveyor Greg Hoyes June 20, 2007 Page 2 of 2

Large Storm Manholes and Double Inlets	6	EA	\$2,200	612 200
Storm Inlets	4	EA	\$1,500	\$13,200
Double Inlet	5	EA	\$2,250	\$6,000
Miscellaneous Connections	 	LS	#2,230	\$11,250 \$12,292
Sand Backfill and Bedding	2412	TON	\$12.61	\$30,415
SUB-TOTAL			412.01	\$214,040
Sub-surface Drains - Under Curb	10,381	L.F.	\$4.95	\$51,386
Sub-surface Drains - Sump Laterals	48	EA	\$75.00	\$3,600
TOTAL				\$269,040
Monuments and Markers				
Perimeter Monuments	6	LS	\$200	\$1200
Street Centerline Monuments	16	EA	\$16.00	\$2400
TOTAL				\$3600
GRAND TOTAL				\$272,640

Witness my signature this <u>20^H</u> day of <u>June</u>, 2007.

David J. Stoeppelwerth STOEPPO MALENGERIAL STOEPPO MALENGERIAL STOEPPO MALENGERIAL STATE OF MOIANA MOI Professional Engineer

No. 19358

Cc: Steve Broermann

EEF/jag

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STOEPPELWERTH & ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

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

Curtis C. Huff Vice President, COO Professional Land Surveyor

R.M. Stoeppelwerth Founder Professional Engineer Professional Land Surveyor June 20, 2007

Carmel City Engineer One Civic Square Carmel, Indiana 46032

Attention: Dick Hill

Re: Longridge Estates, Section 3

Dear Mr. Hill:

On behalf of the developer, Platinum Properties, I wish to submit the following Engineer's Estimates for Long Ridge Estates, Section 3. The estimate is as follows:

Longridge Estates, Section 3

DESCRIPTION	QUANTITY	UNIT	UNIT	EXTENSION
		TYPE	PRICE	
Streets				
Stone Base	4,833.89	TON	\$13.64	\$65,934
Asphalt Base	32,819.92	SYS*in	\$2.40	\$78,768
Asphalt Binder	21,879.95	SYS*in	\$2.75	\$60,170
Asphalt Surface Coat	16,409.96	SF	\$3.45	\$56,614
DOT Entries - Accel/Decel Lanes				\$8,506
Special Paving - Offsite Improvements				\$38,202
TOTAL				\$308,200
Curbs and Gutter				
Rollcurb and Gutter	7,300	L.F.	\$6.60	\$48,180
TOTAL				\$48,180
WATER MAINS				
6" Main	320	L.F.	\$20.19	\$6,461
6" Gate Valve	1	EA	\$975	\$975

7965 East 106th Street Fishers, Indiana 46038-2505

317.849 5935 Fax: 317.849 5942 www.Stoeppelwerth.com Carmel City Engineer Dick Hill June 20, 2007 Page 2 of 3

3197	L.F.	\$23.01	\$73,563
			\$10,000
	· · · · · · · · · · · · · · · · · · ·		\$29,610
 			\$14,603
		1 30.50	#X*,000
			\$135,214
49	EA	\$609.00	\$29,841
			\$165,060
·			
			•••
8	EA	\$250.00	\$2,000
			\$2,000
29	EA	\$35.00	\$1,015
87,010	S.F.	\$0.15	\$13,052
275,740	S.F.	\$0.05	\$13,787
267,183	S.F.	\$0.06	\$16,031
1	EA	\$2,000	\$2,000
			\$45,890
5675	S.F.	\$3.15	\$17,880
31000	EA	\$3.15	\$97,650
		-	0445.530
			\$115,530
		 	
	<u> </u>	 	
29933	STE	\$2.40	\$71,840
<u> </u>			\$21,460
	AJII.	W44.70	Ψ#A,700
	<u> </u>		\$93,300
			420,000
			\$778,160
	29 87,010 275,740 267,183 1	8 EA 9 EA 1718 TON 49 EA 8 EA 8 EA 8 EA 29 EA 87,010 S.F. 275,740 S.F. 267,183 S.F. 1 EA 5675 S.F. 31000 EA	8 EA \$1,250 9 EA \$3,290 1718 TON \$8.50 49 EA \$609.00 8 EA \$250.00 8 EA \$35.00 87,010 S.F. \$0.15 275,740 S.F. \$0.05 267,183 S.F. \$0.06 1 EA \$2,000 5675 S.F. \$3.15 31000 EA \$3.15

Carmel City Engineer Dick Hill June 20, 2007 Page 3 of 3

Witness my signature this <u>20^K</u> day of <u>Juve</u>

NO. 19358
STATE OF MOIANA MOIA Professional Engineer

No. 19358

Cc: Steve Broermann

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State of: **ILLINOIS** County of: Dupage

On June 22, 2007, before me, Jennifer J. McComb, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared Heather A. Beck, known to me to be Attorney-in-Fact for Bond Safeguard Insurance Company the corporation described in and that executed the within and foregoing instrument, and known to me to be the person who executed the said instrument on behalf of the said corporation, and he duly acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year stated in this certificate above.

My Commission Expires: September 23, 2009

OFFICIAL SEAL JENNIFER J MCCOMB NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES:09/23/09

Jennifer J. McComb, Notary Public

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Little Eagle Creek Drain, Longridge Estates Section 3 Arm

On this **26th** day of **November**, **2007**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Little Eagle Creek Drain**, **Longridge Estates Section 3 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

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

Little Eagle Creek Drain, Longridge Estates Section 3 Arm

NOTICE

То	Whom	Ιt	Mav	Concern	and:					
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Notice is hereby given of the hearing of the Hamilton County Drainage Board on the Little Eagle Creek Drain, Longridge Estates Section 3 Arm on November 26, 2007 at 9:20 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, Longridge Estates Section 3 Arm

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on November 26, 2007 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

To: Hamilton County Drainage Board

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

July 14, 2010

Re: Little Eagle Creek: Longridge Estates Sec. 3A

Attached are as-builts, certificate of completion & compliance, and other information for Longridge Estates Section 3A. 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 October 17, 2007. The report was approved by the Board at the hearing held November 26, 2007. (See Drainage Board Minutes Book 10, Pages 516-517) The changes are as follows: *It should be noted that the original report covered all of Section 3. Due the slowing of development only the first half is built. Therefore, we will address the drain will have two final reports. This one being for the first portion of drain built.

Structure:	Length:	Size	Material:	Up Invert:	Dn_Invert	Grade:	Changes:
218-217	130	12	RCP	894.85	893.62	0.95	-3
217-216	30	12	RCP	893.38	893.33	0.97	
216-215	91	15	RCP	893.33	890.4	3.21	3
215-214	173	15	RCP	888.95	883.9	2.92	-2
213-212	212	12	RCP	882.9	880.7	1.04	2
212-211	31	12	RCP	880.7	880.32	1.23	1
211-210	179	12	RCP	879.52	873.44	3.4	-1
219-220	30	12	RCP	886.29	885.95	1.13	
220-221	129	12	RCP	885.95	880.94	3.88	-1
221-222	31	15	RCP	880.94	880.73	0.68	
222-225	100	15	RCP	879.9	877.18	2.72	-1
226-225	35	12	RCP	874.94	874.73	0.6	•
225-227	140	18	RCP	874.73	873.55	0.84	-1
192-193	109	12	RCP	889.2	887.81	1.27	-1
193-194	159	12	RCP	887.81	887.04	0.48	
194-195	36	15	RCP	887.04	886.76	0.78	
195-196	185	15	RCP	886.76	883.43	1.8	-1
EX-228	39_	36	RCP	872.63	872.5	0.33	9
230-231	92	24	RCP	871.59	869.79	1.96	-4
235-233	47	12	RCP	871.78	809.77	4.28	-2

RCP Pipe Totals:

	F	440.0
	40	4004
	12	1091
	15	616
	18	140
	24	92
	36	39
Total:		1978

SSD:

Wilmuth	2333
Liston	462
Nina	1236
Total:	4031

Other Drain:

36"	
CMP	32
BRIDGE	100
OPEN	1505

Total: 1637

The length of the drain due to the changes described above is now 7,646 feet*.

The non-enforcement was approved by the Board at its meeting on November 26, 2007 and recorded under instrument #2008028388.

The sureties were guaranteed by Bond Safeguard Insurance Co. and will released by the Board upon the completion of Longridge Estates Section 3B.

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

Sincerely,

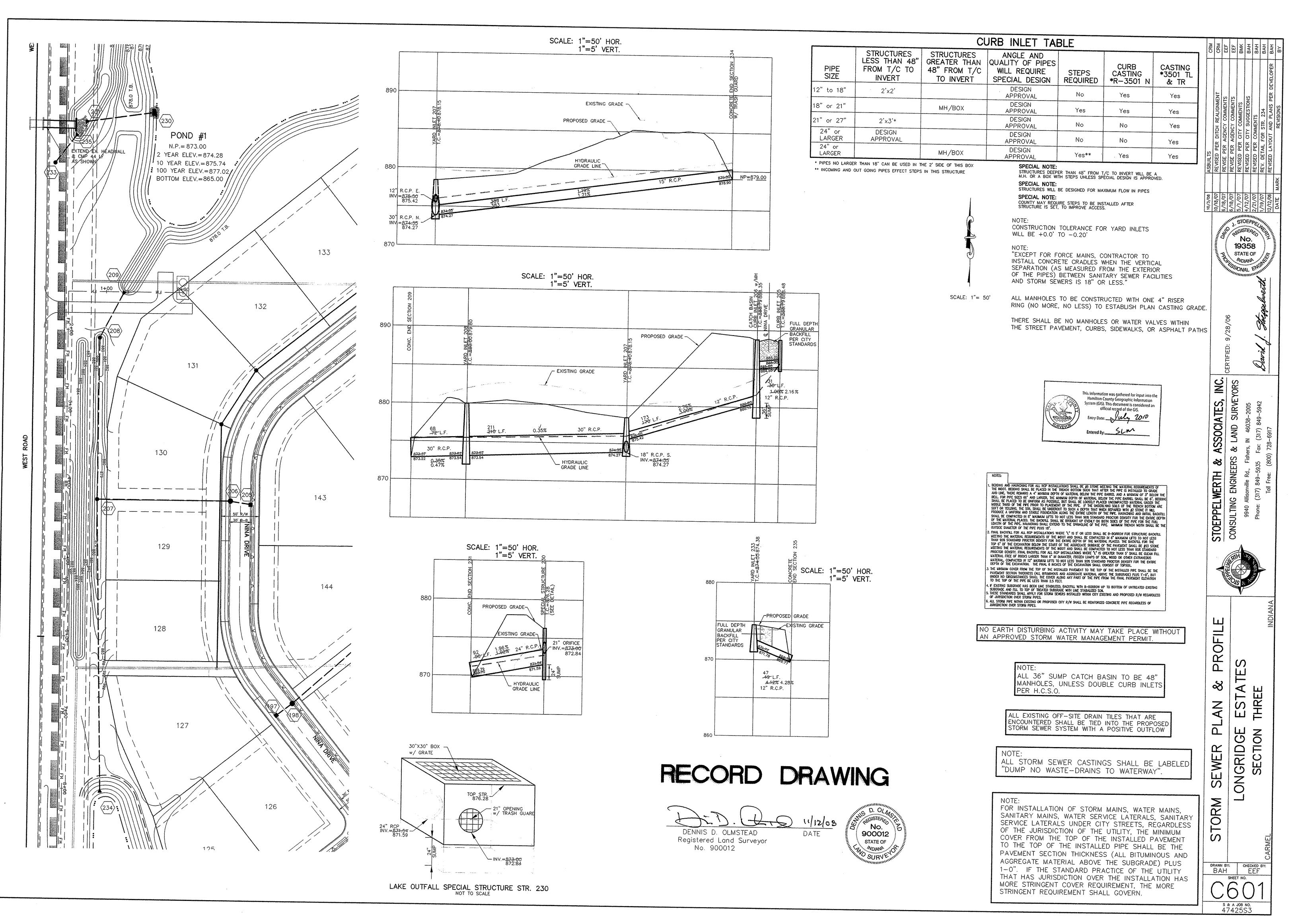
Kenton Q. Ward, CFM

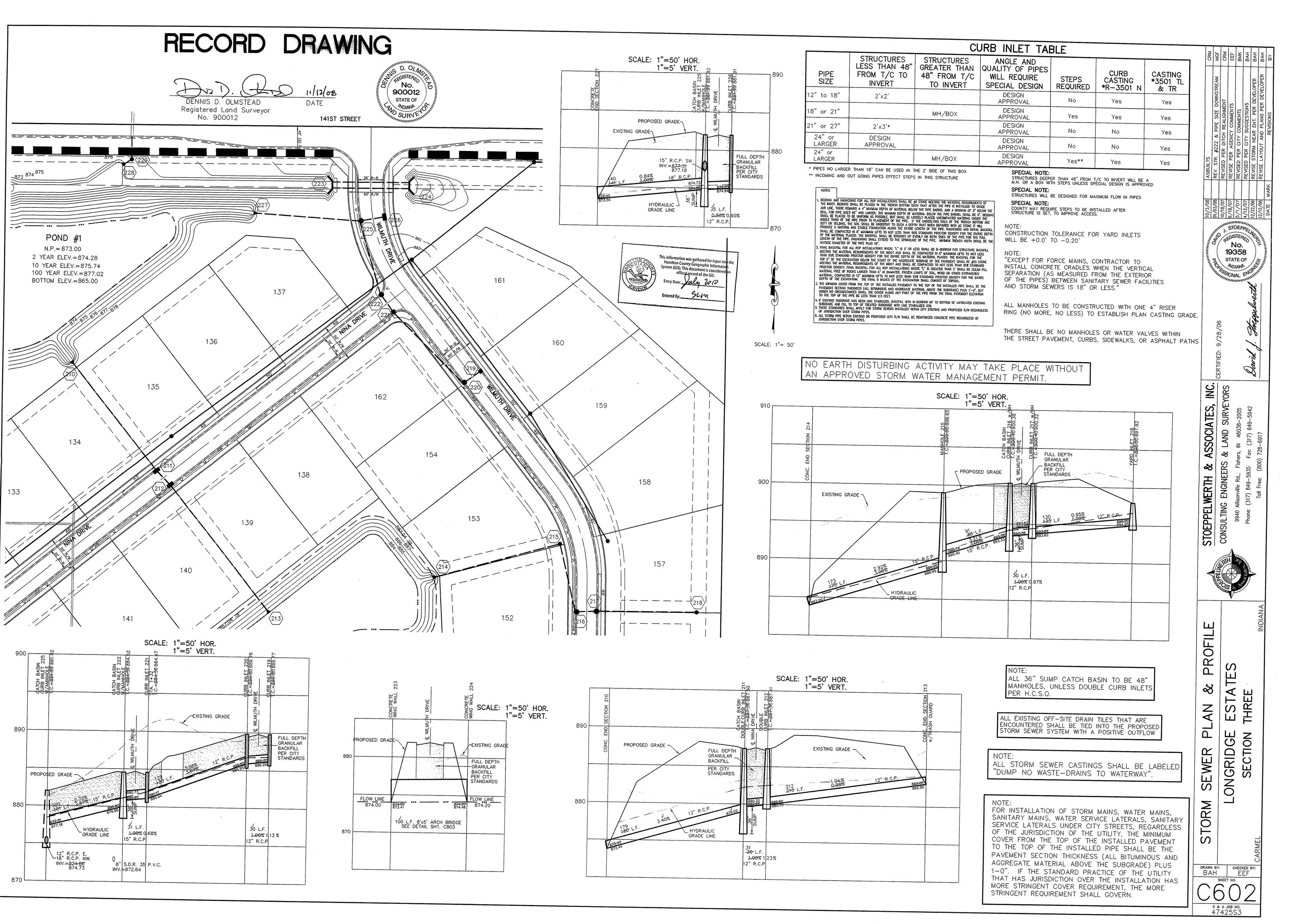
Hamilton County Surveyor

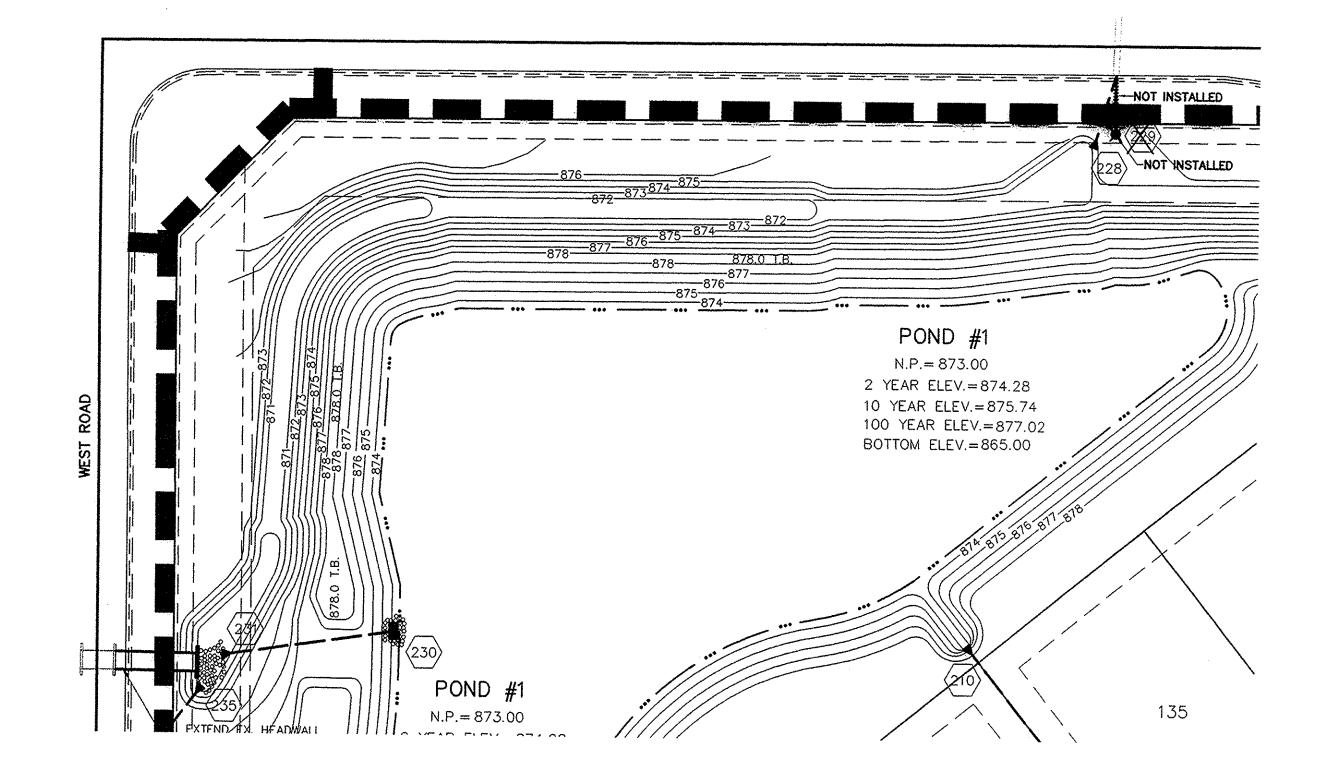
KCW/slm

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor Re: Longridge Estates, Section 3A 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. Date: November 12, 2008 Signature: (\) Type or Print Name: Dennis D. Olmstead 7965 East 106th Street Business Address: Fishers, Indiana 46038 Telephone Number: (317) 849-5935 SEAL INDIANA REGISTRATION NUMBER 900012







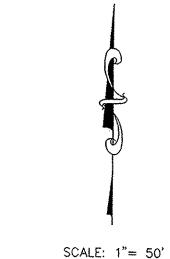
RECORD DRAWING











STRUCTURES

48" FROM T/C

TO INVERT

MH/BOX

MH/BOX

LESS THAN 48" GREATER THAN

FROM T/C TO

INVERT

2'x2'

2'x3'*

DESIGN

APPROVAL

* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX

** INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE

PIPE

SIZE

12" to 18"

18" or 21"

21" or 27"

LARGER

24" or

LARGER

CURB INLET TABLE

ANGLE AND

QUALITY OF PIPES

WILL REQUIRE

SPECIAL DESIGN

DESIGN

APPROVAL

DESIGN

APPROVAL

DESIGN

APPROVAL

DESIGN

APPROVAL

DESIGN

APPROVAL SPECIAL NOTE: STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED. SPECIAL NOTE: STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES SPECIAL NOTE:

STEPS

REQUIRED

Yes

No

Yes**

CURB CASTING

*R-3501 N

Yes

CASTING

& TR

Yes

Yes

Yes

Yes

*3501 TL

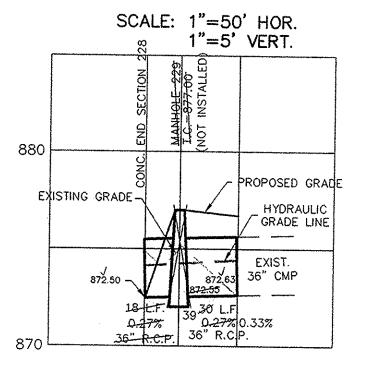
COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS. CONSTRUCTION TOLERANCE FOR YARD INLETS

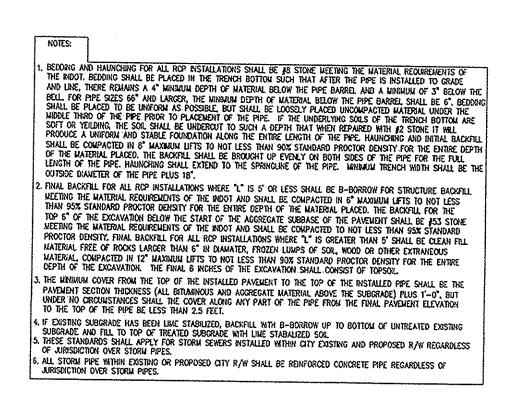
WILL BE +0.0' TO -0.20'

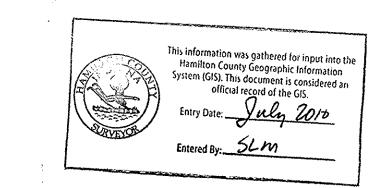
"EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS."

ALL MANHOLES TO BE CONSTRUCTED WITH ONE 4" RISER RING (NO MORE, NO LESS) TO ESTABLISH PLAN CASTING GRADE.

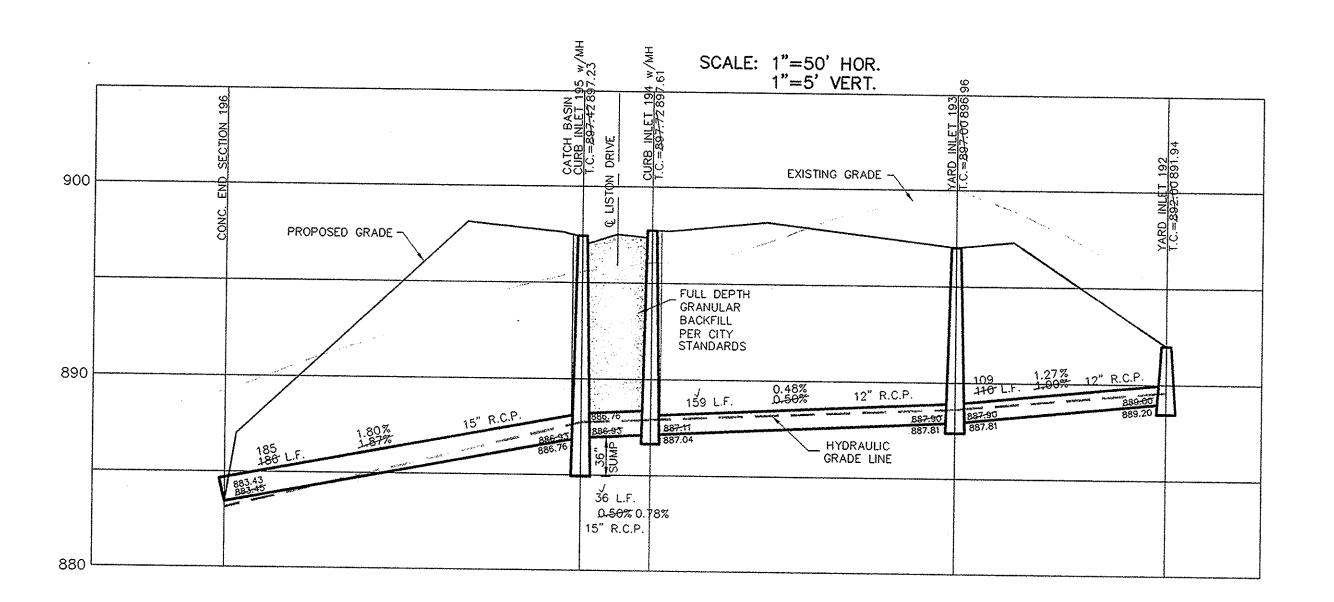
THERE SHALL BE NO MANHOLES OR WATER VALVES WITHIN THE STREET PAVEMENT, CURBS, SIDEWALKS, OR ASPHALT PATHS







NO EARTH DISTURBING ACTIVITY MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.



ALL 36" SUMP CATCH BASIN TO BE 48" MANHOLES, UNLESS DOUBLE CURB INLETS PER H.C.S.O.

ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

ALL STORM SEWER CASTINGS SHALL BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY"

FOR INSTALLATION OF STORM MAINS, WATER MAINS, SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, RÉGARDLESS OF THE 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 1-0". IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

STOEPPELWERTH & / STOEPPELWERTH

EGISTER

No.

19358

STATE OF

. MOIANA ..

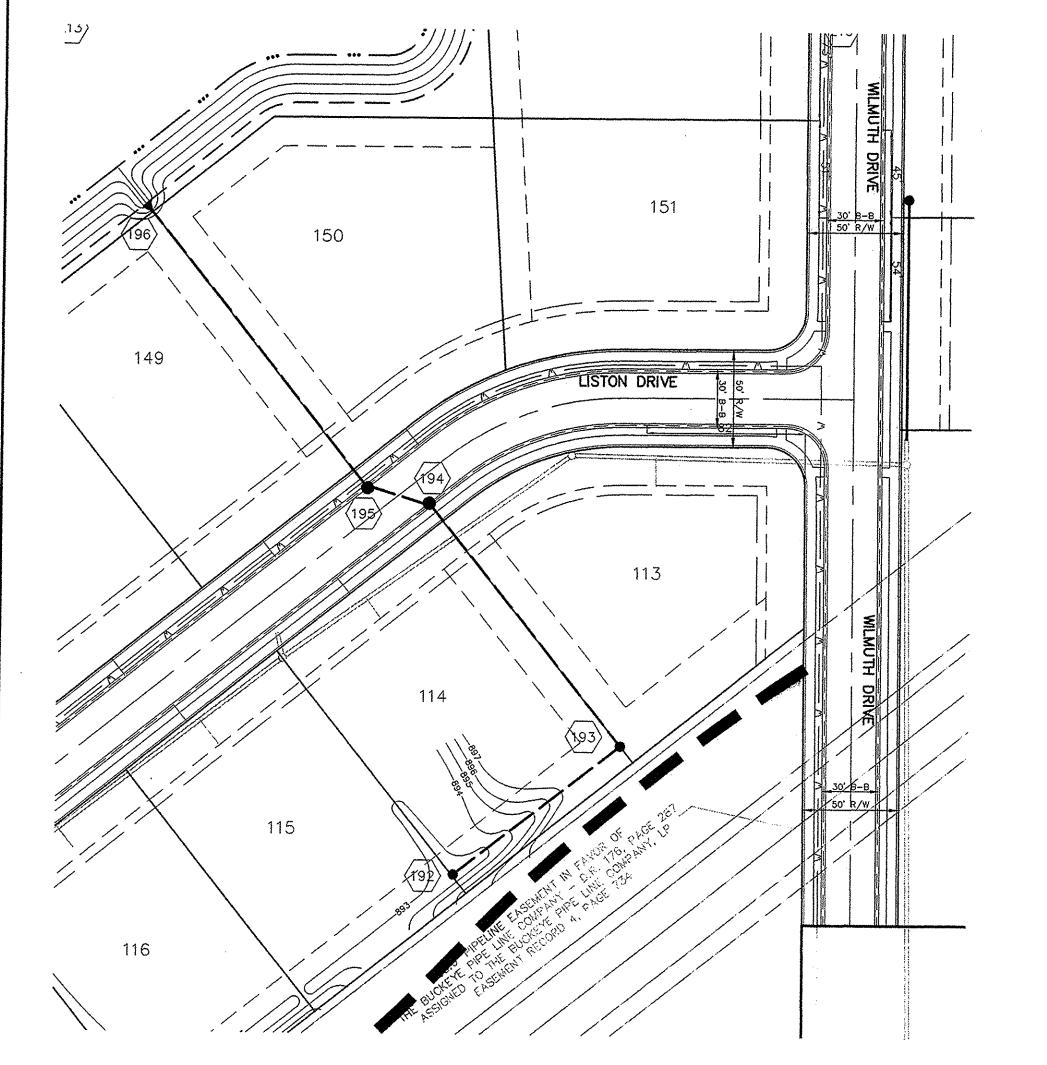
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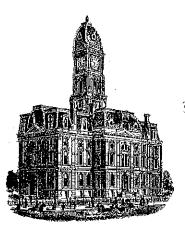
PROFILE ઝ TA THREE ONGRID(

PLAN JGRIDGE SECTION WER SE

drawn by: BAH CHECKED BY:

SHEET NO. s & a job no. 47425S3







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

May 21, 2014

Re: Little Eagle Creek Drain: Longridge Estates Sec. 3B

Attached are as-builts, certificate of completion & compliance, and other information for Longridge Estates Section 3B. 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 October 17, 2007. The report was approved by the Board at the hearing held November 26, 2007. (See Drainage Board Minutes Book 10, Pages 516-517) The changes are as follows:

The 6" SSD is 3182 feet. The 12" RCP is 655 feet. The 15" RCP is 383 feet. The 27" RCP is 471 feet. The 30" RCP is 279 feet. The length of the drain due to the changes described above is now 4970 feet.

It should be noted that Longridge Section 3 was written under one report and then developed into two sections. See the final report for Section 3A for the remaining footage.

The non-enforcement was approved by the Board at its meeting on November 26, 2007 and recorded under instrument #2014019704.

The following sureties were guaranteed by Bond Safeguard and released by the Board on its April 14, 2014 meeting.

Bond-LC No: 5027109 Insured For: Storm Sewers Amount: \$322,848.00

Issue Date: June 22, 2007

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

Sincerely,

Kenton C. Ward, CFM Hamilton County Surveyor

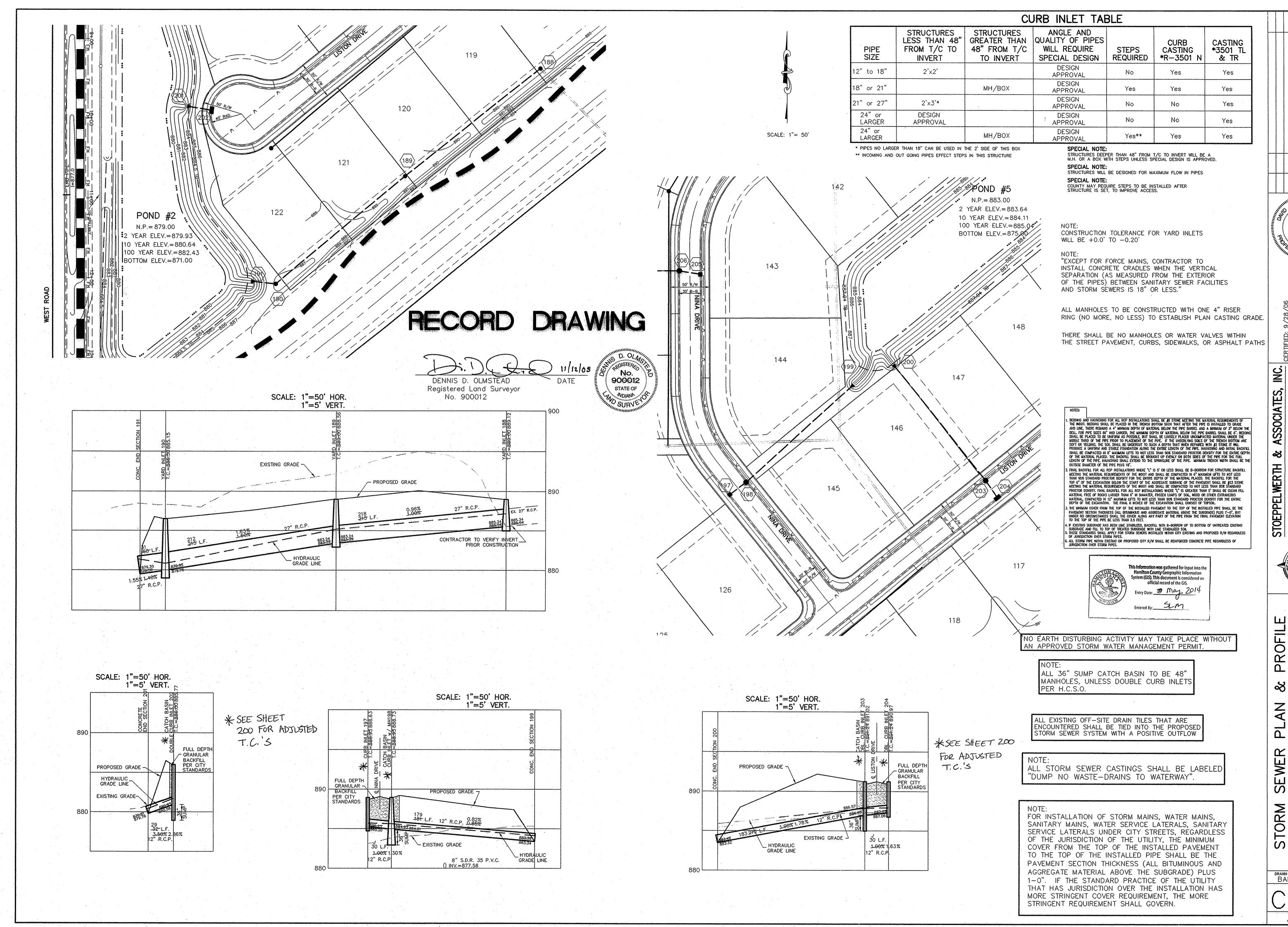
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PROFILE

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PLAN

SEWER

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DRAWN BY: BAH

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ONGRIDGE

No.

19358

STATE OF

.. WDIANA...

LAKE OUTFALL SPECIAL STRUCTURE STR. 230
NOT TO SCALE

CURB INLET TABLE STRUCTURES ANGLE AND GREATER THAN QUALITY OF PIPES CASTING *3501 TL CURB WILL REQUIRE 48" FROM T/C STEPS CASTING SPECIAL DESIGN REQUIRED *R-3501 & TR TO INVERT **DESIGN** No Yes Yes **APPROVAL** DESIGN Yes Yes Yes **APPROVAL** DESIGN Yes **APPROVAL** DESIGN No No Yes APPROVAL DESIGN Yes Yes** Yes APPROVAL

SPECIAL NOTE: STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED. SPECIAL NOTE: STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES SPECIAL NOTE:

COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.

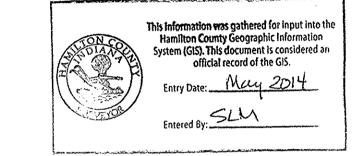
WILL BE +0.0' TO -0.20' "EXCEPT FOR FORCE MAINS, CONTRACTOR TO

CONSTRUCTION TOLERANCE FOR YARD INLETS

INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS."

ALL MANHOLES TO BE CONSTRUCTED WITH ONE 4" RISER RING (NO MORE, NO LESS) TO ESTABLISH PLAN CASTING GRADE.

THERE SHALL BE NO MANHOLES OR WATER VALVES WITHIN THE STREET PAVEMENT, CURBS, SIDEWALKS, OR ASPHALT PATHS



THE ROOT, BEDDING STALL BE PLACED IN THE INDICATIONS SUCH THAT ATTER HE PAPE IS MISTALLED TO GRAZE.

AND LINE, THESE REMAINS A "MISSIAND DEPTH OF MATERIAL BELOW THE PIPE BARREL AND A MISSIAND OF 3" BELOW THE

BELL FOR PIPE SIZES 66" AND LARGER, THE MINIMUM DEPTH OF MATERIAL BELOW THE PIPE BARREL SHALL BE 6". BEDDING

SHALL BE PLACED TO BE UNIFORM AS POSSBUE, BUT SHALL BE LOOSELY PLACED UNCOMPACTED MATERIAL UNDER THE

MIDDLE THERO OF THE PIPE PROOF TO PLACEMENT OF THE PIPE. IF THE UNDERTHING SOLES OF THE TRENCH BOTTOM ARE

SOFT OR YELDING, THE SOIL SHALL BE UNDERCUIT TO SUCH A DEPTH THAT WHEN REPARED WITH \$2 STONE IT WILL

PRODUCE A UNIFORM AND STABLE FOLNOATION ALONG THE ENTRE LENGTH OF THE PIPE, HAUNCHEMB AND DISTALL BACKFILL. SHALL BE COMPACTED IN 8" MAXIMUM LIFTS TO NOT LESS THAN 90% STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED. THE BACKFILL SHALL BE BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE FOR THE FULL LENGTH OF THE PIPE. HARRICHING SHALL EXTEND TO THE SPRINGUINE OF THE PIPE. MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 18". OUTSDE DIAMETER OF THE PIPE PLUS 18".

2. FINAL BACKFILL FOR ALL RCP INSTALLATIONS WHERE "L" IS 5" OR LESS SHALL BE 8-BORROW FOR STRUCTURE BACKFILL MEETING THE MATERIAL REQUIREMENTS OF THE MODT AND SHALL BE COMPACTED IN 6" MAXIMUM LIFTS TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED. THE BACKFILL FOR THE IOP 6" OF THE EXCAVATION BELOW THE START OF THE ACCRECATE SUBBASE OF THE PAVEMENT SHALL BE ESS STONE MEETING THE MATERIAL REQUIREMENTS OF THE MODT AND SHALL BE COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. FINAL BACKFILL FOR ALL RCP INSTALLATIONS WHERE "L" IS GREATER THAN 5" SHALL BE CLEAN FILL MATERIAL FREE OF ROCKS LARGER THAN 6" IN DIAMATER, FROZEN LUMPS OF SOIL, WOOD OR OTHER EXTRANEOUS MATERIAL, COMPACTED IN 12" MAXIMUM LIFTS TO NOT LESS THAN 90% STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH OF THE EXCAVATION. THE FINAL BINCHES OF THE EXCAVATION SHALL CONSIST OF TOPSOIL.

3. THE INMITTAL COMPACTED BY THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PROFESSION. THE , the minimum cover from the top of the installed pavement to the top of the installed pipe shall be the PAYEMENT SECTION THICKNESS (ALL BITURENOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0". 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. 4. IF EXISTING SUBGRADE HAS BEEN LIME STABILIZED, BACKFILL WITH B-BORROW UP TO BOTTOM OF UNTREATED EXISTING SUBGRADE AND FILL TO TOP OF TREATED SUBGRADE WITH LIME STABILIZED SON.
5. THESE STANDARDS SHALL APPLY FOR STORM SEWERS WISTALLED WITHIN CITY EXISTING AND PROPOSED R/W REGARDLESS OF JURISDICTION OVER STORM PIPES.

6. ALL STORM PIPE WITHIN EXISTING OR PROPOSED CITY R/W SHALL BE REINFORCED CONCRETE PIPE REGARDLESS OF JURISDICTION OVER STORM PIPES.

NO EARTH DISTURBING ACTIVITY MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.

> ALL 36" SUMP CATCH BASIN TO BE 48" MANHOLES, UNLESS DOUBLE CURB INLETS PER H.C.S.O.

ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SEWER SYSTEM WITH A POSITIVE OUTFLOW

ALL STORM SEWER CASTINGS SHALL BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY".

FOR INSTALLATION OF STORM MAINS, WATER MAINS SANITARY MAINS, WATER SERVICE LATERALS, SANITARY SERVICE LATERALS UNDER CITY STREETS, REGARDLESS OF THE 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 1-0". IF THE STANDARD PRACTICE OF THE UTILITY THAT HAS JURISDICTION OVER THE INSTALLATION HAS MORE STRINGENT COVER REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

STOEPP No. 19358 STATE OF MOIANA

REVISED REVISE

PROFIL TA PLAN SEWER

DGE ONGRID TORM

CHECKED BY: DRAWN BY: BAH SHEET NO.