

KCV

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

May 5, 2014

TO: Hamilton County Drainage Board

RE: Village of West Clay Drain, Section 10010E Arm.

Attached is a petition filed by Pulte Homes of Indiana, LLC., along with 2 non-enforcement request, plans, calculations, quantity summary and assessment roll for the Section 10010-E Arm, Village of West Clay 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	771 ft.	15" RCP	263 ft.
18" RCP	600 ft.	21" RCP	56 ft.
6" SSD	1,768 ft.		

This proposal will add an additional 3,458 feet to the drains total length.

The retention pond (existing Lake #1) which is located in Common Area #6 and retention pond (existing Lake #2) which is located in Common Area #4 are not to be considered part of the regulated drain for maintenance purposes. Only the inlets and outlets will be maintained as part of the regulated drain. The maintenance of the ponds (Lake #1 & #2) shall be the responsibility of the Homeowners Association as per the subdivision covenants on pages 11 and 12, sections 4 and 5, as recorded in the Office of the Hamilton County Recorder as instrument number 199909946964. The Board will however, retain jurisdiction for ensuring the storage volume for which the lake was designed will be retained, thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) under curbs are not to be part of the regulated drain. This is per the agreement between Brenwick Development and the Hamilton County Commissioners on April 26, 1999. (See Commissioner's Minute Book 93, Pages 565-566). Only the main SSD lines which are located within the easements 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 are as follows:

From Str. 454 running north in the rear yards of lots 1256 to 1258.
From existing Str. 410 running south in the rear yards of lots 1259 to 1262.
From Str. 435 to Str. 436 in the rear yards of lots 1252 to 1255.
From Str. 436 to Str. 437 in the rear yards of lots 1250 and 1251.
From Str. 440 running north in the rear yard of lots 1249.
From Str. 440 to Str. 441 in the rear yards of lots 1244 to 1248.
From Str. 441 to Str. 449 in the rear yards of lots 1242 and 1243.
From Str. 449 running south in Common Area #7.

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 \$5.00 per acre, \$5.00 per acre for roadways, with a \$120.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$3,061.96.

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:

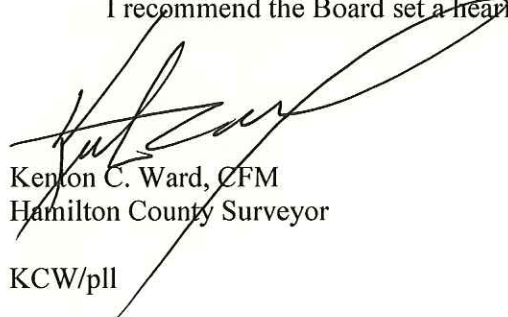
Agent: RLI Insurance Company
Date: April 1, 2014
Number: CMS271574
For: Storm Sewers
Amount: \$152,334.26

Parcels assessed for this drain will also be assessed for the Long Branch Drain.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC36-9-27-67 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 non-enforcements are for the reduction of the Village of West Clay Drain and the Long Branch Drain easements. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Village of West Clay Section 10010-E as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for June 23, 2014.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED
AUG 02 2013
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 Village of WestClay Subdivision, Section
10010-E 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 Village of WestClay, Section 10010-E, 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

Matthew Lohmeyer

Printed Name

June 25, 2013

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Village of West Clay Drain, Section 10010-E Arm


On this 23rd day of June, 2014, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Village of West Clay Drain, Section 10010-E 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



STOEPPELWERTH & ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

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

Curtis C. Huff
 Vice President, COO
 Professional Land Surveyor

R.M. Stoepfelwerth
 Founder
 Professional Engineer
 Professional Land Surveyor

April 2, 2014

Hamilton County Surveyor's Office
 One Hamilton County Square
 Suite 188
 Noblesville, Indiana 46060

Attention: Greg Hoyes

Re: Village of WestClay, Section 10010 -E

Dear Mr. Hoyes:

Please accept the following Engineer's Estimate on behalf of Pulte Homes, LLC for Village of WestClay, Section 10010-E. The estimate is as follows:

Village of WestClay, Section 10010-E Performance Bond Cost Estimate

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Contract Amount</u>		<u>Performance Bond</u>
Monumentation				\$ 4,140.00	120%	\$ 4,968.00
Lot Corners	21	Lots	\$ 100.00	\$ 2,100.00		
Centerline	12	Each	\$ 170.00	\$ 2,040.00		
Storm Sewer				\$126,945.22	120%	\$152,334.26
12" Pipe	802	LF	\$ 15.49	\$12,422.98		
15" Pipe	263	LF	\$ 22.86	\$ 6,012.18		
18" Pipe	600	LF	\$ 21.26	\$ 2,756.00		
21" Pipe	56	LF	\$ 22.89	\$ 1,281.84		
12" ES and TR Grate	2	Each	\$ 952.03	\$ 1,904.06		
15" ES and TR Grate	1	Each	\$ 1,084.03	\$ 1,084.03		
21" ES and TR Grate	1	Each	\$ 1,194.03	\$ 1,194.03		
Standard MH	9	Each	\$ 1,731.89	\$15,587.01		
Inlet	9	Each	\$ 1,194.90	\$10,754.10		
Granular Backfill	634	Ton	\$ 18.81	\$11,925.54		
Clean & Video	1721	LF	\$ 2.10	\$ 3,614.10		

7965 East 106th Street
 Fishers, Indiana
 46038-2505

 317.849.5935
 Fax: 317.849.5942
 www.Stoepfelwerth.com

Hamilton County Surveyor
May 31, 2013
Page 2 of 2

Concrete Collars	36	Each	\$ 127.32	\$ 4,583.52
Oil Debris Hood	4	Each	\$ 1,218.40	\$ 4,873.60
SSD Under Curb	4415	LF	\$ 6.14	\$27,108.10
SSD in Swale	1604	LF	\$ 6.92	11,099.68
SSD Laterals	21	Each	\$ 35.45	\$ 744.45

If you have any questions regarding these estimates, please contact Brett A. Huff at (317) 570-4841.

Very truly yours,

STOEPPELWERTH & ASSOCIATES, INC.



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



Cc: Matthew Lohmeyer

S:\55960PUL-S3\Blue_Book\Agency_Correspondence\HamiltonCountySurveyorHoyesEE04-02-14.doc



Bond No. CMS278025

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 RLI INSURANCE COMPANY a corporation organized and existing under the laws of the State of ILLINOIS and authorized to transact business in the State of Indiana, as Surety, are held and firmly bound unto Hamilton County Drainage Board of One Hamilton County Square, Suite 188, Noblesville, IN 46060 as Obligee, in the penal sum of four thousand nine hundred sixty eight and 00/100 (\$4,968.00) 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, monumentation in West Village at West Clay, Sec. 10010E subdivision.

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.

Signed, sealed and dated this 1st day of April, 2014

Pulte Homes of Indiana, LLC
Principal

Bruce E. Robinson, VP & Treasurer

RLI INSURANCE COMPANY
Surety

Jessica Hollaender, Attorney-in-Fact



RLI Surety
 P.O. Box 3967 | Peoria, IL 61612-3967
 Phone: (800)645-2402 | Fax: (309)689-2036
 www.rlicorp.com

POWER OF ATTORNEY
RLI Insurance Company



Know All Men by These Presents:

That this Power of Attorney is not valid or in effect unless attached to the bond which it authorizes executed, but may be detached by the approving officer if desired.

That **RLI Insurance Company**, an Illinois corporation, does hereby make, constitute and appoint:
Virginia Erickson, Jessica Hollaender, jointly or severally.

in the City of Phoenix, State of Arizona its true and lawful Agent and Attorney in Fact, with full power and authority hereby conferred, to sign, execute, acknowledge and deliver for and on its behalf as Surety, the following described bond.

Any and all bonds provided the bond penalty does not exceed Twenty Five Million Dollars (\$25,000,000.00).

The acknowledgment and execution of such bond by the said Attorney in Fact shall be as binding upon this Company as if such bond had been executed and acknowledged by the regularly elected officers of this Company.

The **RLI Insurance Company** further certifies that the following is a true and exact copy of the Resolution adopted by the Board of Directors of **RLI Insurance Company**, and now in force to-wit:

"All bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or Agents who shall have authority to issue bonds, policies or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

IN WITNESS WHEREOF, the **RLI Insurance Company** has caused these presents to be executed by its Vice President with its corporate seal affixed this 21st day of March, 2013.



RLI Insurance Company

By: [Signature]
 Roy C. Die Vice President

State of Illinois }
 County of Peoria } SS

CERTIFICATE

On this 21st day of March, 2013, before me, a Notary Public, personally appeared Roy C. Die, who being by me duly sworn, acknowledged that he signed the above Power of Attorney as the aforesaid officer of the **RLI Insurance Company** and acknowledged said instrument to be the voluntary act and deed of said corporation.

I, the undersigned officer of **RLI Insurance Company**, a stock corporation of the State of Illinois, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the Company as set forth in the Power of Attorney, is now in force. In testimony whereof, I have hereunto set my hand and the seal of the **RLI Insurance Company** this 1st day of April, 2014.

By: [Signature]
 Jacqueline M. Bockler Notary Public

RLI Insurance Company

By: [Signature]
 Roy C. Die Vice President



0250773020212

A0058707

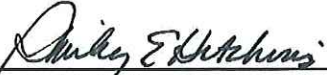


ACKNOWLEDGEMENT BY PRINCIPAL

STATE OF MICHIGAN)
)ss.
COUNTY OF OAKLAND)

On this 1st day of April, 2014, before me, the undersigned authorized employee, personally appeared Bruce E. Robinson who acknowledges himself to be VP & Treasurer of Pulte Homes of Indiana, LLC and as such employee, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the Corporation by himself as such officer.

WITNESS my hand and official seal.



Shirley E. Hutchins, Notary Public
Wayne County, Michigan
Acting in Oakland County, Michigan
My Commission Expires: March 30, 2017

SHIRLEY E. HUTCHINS
NOTARY PUBLIC, STATE OF MI
COUNTY OF WAYNE
MY COMMISSION EXPIRES Mar 30, 2017
ACTING IN COUNTY OF *Oakland*



BOND RIDER

To: Hamilton County Board of Commissioners
One Hamilton County Square
Noblesville, IN 46060

To be attached to and form part of Bond No. CMS278025
issued by RLI Insurance Company on behalf of:

Pulte Homes of Indiana, LLC

It is agreed and understood that the Obligee Name is changed to read as follows:

FROM:

Hamilton County Drainage Board of One Hamilton County Square, Suite 188,
Noblesville, IN 46060

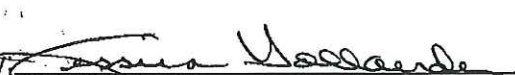
TO:

Hamilton County Board of Commissioners, One Hamilton County Square,
Noblesville, IN 46060

Signed, sealed and dated: April 11, 2014

All other terms and conditions remain in full force and effect.

RLI Insurance Company

By 
Jessica Hollaender, Attorney in Fact

Broker of Record:

Wells Fargo Insurance Services USA, Inc.
100 West Washington Street, 4th Floor
Phoenix, AZ 85003-1808
602-528-3061



RLI Surety
 P.O. Box 3967 | Peoria, IL 61612-3967
 Phone: (800)645-2402 | Fax: (309)689-2036
 www.rlicorp.com

POWER OF ATTORNEY

RLI Insurance Company



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Virginia Erickson, Jessica Hollaender, jointly or severally.

in the City of Phoenix, State of Arizona its true and lawful Agent and Attorney in Fact, with full power and authority hereby conferred, to sign, execute, acknowledge and deliver for and on its behalf as Surety, the following described bond.

Any and all bonds provided the bond penalty does not exceed Twenty Five Million Dollars (\$25,000,000.00).

The acknowledgment and execution of such bond by the said Attorney in Fact shall be as binding upon this Company as if such bond had been executed and acknowledged by the regularly elected officers of this Company.

The **RLI Insurance Company** further certifies that the following is a true and exact copy of the Resolution adopted by the Board of Directors of **RLI Insurance Company**, and now in force to-wit:

"All bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or Agents who shall have authority to issue bonds, policies or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

IN WITNESS WHEREOF, the **RLI Insurance Company** has caused these presents to be executed by its Vice President with its corporate seal affixed this 21st day of March, 2013.



RLI Insurance Company

By: [Signature]
 Roy C. Die Vice President

State of Illinois }
 County of Peoria } SS

CERTIFICATE

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I, the undersigned officer of **RLI Insurance Company**, a stock corporation of the State of Illinois, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the Company as set forth in the Power of Attorney, is now in force. In testimony whereof, I have hereunto set my hand and the seal of the **RLI Insurance Company** this 11 day of April, 2014.

By: [Signature]
 Jacqueline M. Bockler Notary Public

RLI Insurance Company
 By: [Signature]
 Roy C. Die Vice President



0250773020212

A0058707



Bond No. CMS271574

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 RLI INSURANCE COMPANY a corporation organized and existing under the laws of the State of ILLINOIS and authorized to transact business in the State of Indiana, as Surety, are held and firmly bound unto Hamilton County Drainage Board of One Hamilton County Square, Suite 188, Noblesville, IN 46060 as Obligee, in the penal sum of one hundred fifty two thousand three hundred thirty four and 26/100 (\$152,334.26) 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, storm sewer improvements in West Village at West Clay, Sec. 10010E subdivision.

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.

Signed, sealed and dated this 1st day of April, 2014

Pulte Homes of Indiana, LLC
Principal

Bruce E. Robinson, VP & Treasurer

RLI INSURANCE COMPANY
Surety

Jessica Hollaender, Attorney-in-Fact



RLI Surety
 P.O. Box 3967 | Peoria, IL 61612-3967
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RLI Insurance Company

By: [Signature]
 Roy C. Die Vice President

State of Illinois }
 County of Peoria } SS

CERTIFICATE

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I, the undersigned officer of **RLI Insurance Company**, a stock corporation of the State of Illinois, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the Company as set forth in the Power of Attorney, is now in force. In testimony whereof, I have hereunto set my hand and the seal of the **RLI Insurance Company** this 1st day of April, 2014.

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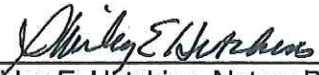


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WITNESS my hand and official seal.



Shirley E. Hutchins, Notary Public
Wayne County, Michigan
Acting in Oakland County, Michigan
My Commission Expires: March 30, 2017

SHIRLEY E. HUTCHINS
NOTARY PUBLIC, STATE OF MI
COUNTY OF WAYNE
MY COMMISSION EXPIRES Mar 30, 2017
ACTING IN COUNTY OF *Oakland*



BOND RIDER

To: Hamilton County Board of Commissioners
One Hamilton County Square
Noblesville, IN 46060

To be attached to and form part of Bond No. CMS271574
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FROM:

Hamilton County Drainage Board of One Hamilton County Square, Suite 188,
Noblesville, IN 46060

TO:

Hamilton County Board of Commissioners, One Hamilton County Square,
Noblesville, IN 46060

Signed, sealed and dated: April 11, 2014

All other terms and conditions remain in full force and effect.

RLI Insurance Company

By: Jessica Hollaender
Jessica Hollaender, Attorney in Fact

Broker of Record:

Wells Fargo Insurance Services USA, Inc.
100 West Washington Street, 4th Floor
Phoenix, AZ 85003-1808
602-528-3061



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 Roy C. Die Vice President

State of Illinois }
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 Jacqueline M. Bockler Notary Public

RLI Insurance Company

By: [Signature]
 Roy C. Die Vice President



0250773020212

A0058707

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Village of West Clay Drain, Section 10010E Arm

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Village of West Clay Drain, Section 10010E Arm** on **June 23, 2014** 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

Village of West Clay Drain, Section 10010-E Arm

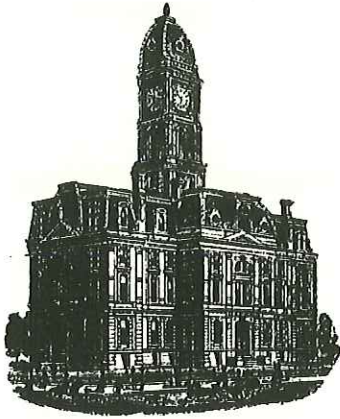
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **June 23, 2014** 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

September 17, 2014

Re: Village of West Clay – Section 10010E

Attached are as-builts, certificate of completion & compliance, and other information for Village of West Clay – Section 10010E. 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 May 5, 2014. The report was approved by the Board at the hearing held June 23, 2014. (See Drainage Board Minutes Book 15, Pages 457-459)

The changes are as follows:

The 12" RCP was shortened from 771 feet to 767 feet. The 15" RCP was shortened from 263 feet to 261 feet. The 18" RCP was lengthened from 600 feet to 618 feet. The 21" RCP was shortened from 56 feet to 55 feet. The 6" SSD was lengthened from 1768 feet to 1793 feet. The length of the drain due to the changes described above is now **3,494 feet**.

The non-enforcement was approved by the Board at its meeting on June 23, 2014 and recorded under instrument #2014037283.

The following sureties were guaranteed by RLI Insurance Company and released by the Board on its October 13, 2014 meeting.

Bond-LC No: CMS271574
Insured For: Storm Sewers
Amount: \$152,334.26
Issue Date: April 1, 2014

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

CERTIFICATE OF COMPLETION AND COMPLIANCE

FILED

SEP 01 2014

To: Hamilton County Surveyor

OFFICE OF HAMILTON COUNTY SURVEYOR

Re: Village of WestClay, Section 10010-E

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:  Date: August 26, 2014

Type or Print Name: Dennis D. Olmstead

Business Address: Stoettelwerth & Associates, Inc.

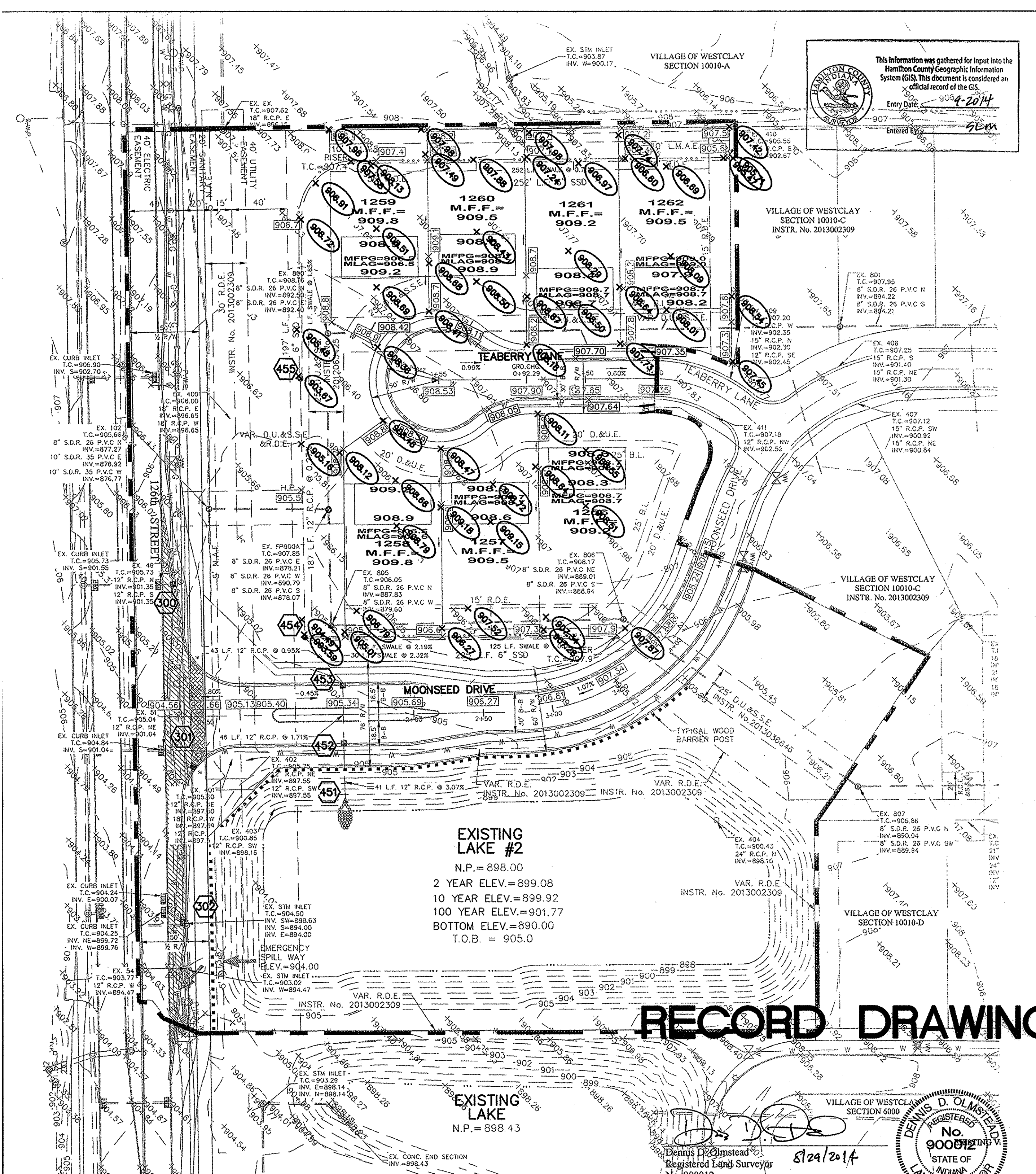
7965 East 106th Street, Fishers, Indiana 46038

Telephone Number: (317) 849-5935

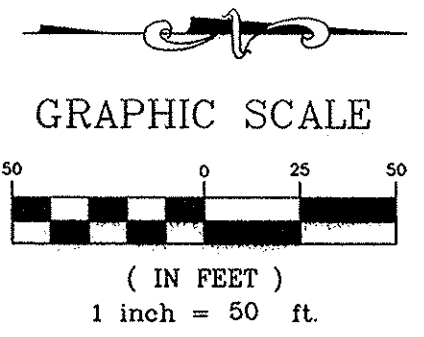


INDIANA REGISTRATION NUMBER

900012



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
Entry Date: 9/19/2014
Entered By: JDM



- LEGEND
- EXISTING CONTOUR
 - EXISTING SANITARY SEWER
 - EXISTING STORM SEWER
 - PROPOSED GRADE
 - PROPOSED CONTOUR
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM SEWER
 - W PROPOSED WATER LINE
 - PROPOSED SWALE
 - PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
 - 25 LOT NUMBER
744.7 PAD ELEVATION
 - PROPOSED 6" DUAL WALL HANCOR HI-Q TYPE 4 UNDERDRAINS

FOR WATER LOCATES
CONTACT: CARMEL UTILITIES
(317) 571-2648

FOR SANITARY SEWER LOCATES
CONTACT: CLAY TOWNSHIP
REGIONAL WATER DISTRICT
(317) 844-9200

DRAINAGE SUMMARY

OVERALL SITE ACREAGE=32.446 AC.±
SECTION 0010-C=9.366 AC.±
ALLOWABLE RATE CALCULATION:
0.1 cfs/acre = 10-yr 0.24 cfs/acre = 100-yr
Restricted rates based on the J.W. Brendle Drain

RELEASE RATE (WITH 8" ORIFICE)
LAKE #1 10 YR. 100 YR.
ALLOWABLE 1.818cfs 4.363cfs
POST DEV. 1.806cfs 4.302cfs

RELEASE RATE (WITH 7" ORIFICE)
LAKE #2
ALLOWABLE 1.438cfs 3.451cfs
POST DEV. 1.403cfs 3.428cfs

VOLUME DETENTION REQUIRED
LAKE #1 = 257,940 ft³
LAKE #2 = 180,742 ft³

VOLUME DETENTION PROVIDED
LAKE #1 = 258,798 ft³
LAKE #2 = 320,786 ft³

LAKE #1 OFFSITE DRAINAGE:
100 YR. cfs = 14.479 (PER VOVOC
SEC 6001 DRAINAGE REPORT)

LAKE #2 OFFSITE DRAINAGE:
THERE IS NO OFFSITE TO LAKE #2

PRE DEVELOPED ONSITE ACREAGE
OUTLET 1 = 18.18
OUTLET 2 = 14.38
POST DEVELOPED ONSITE ACREAGE
LAKE #1 = 16.93
LAKE #2 = 15.56

NOTES TO CONTRACTOR:

ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.

ANY PRIVATE TILES LOCATED ON THIS SITE WILL NEED TO BE LOCATED; BREATHERS SET AT THE DOWNSTREAM PROPERTY LINE AND CRUSHED OR REMOVED ACROSS THIS SITE. IF ANY OF THESE TILES EXTEND BEYOND THE LIMITS OF THIS PROJECT, THEY WILL NEED TO BE PROVIDED A POSITIVE OUTLET AND ALLOWED TO CONTINUE TO FUNCTION, AS IT IS ILLEGAL TO BLOCK OFF A PRIVATE "MUTUAL" TILE.

CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF WORK TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITH THE EXISTING AND PROPOSED CITY RW.

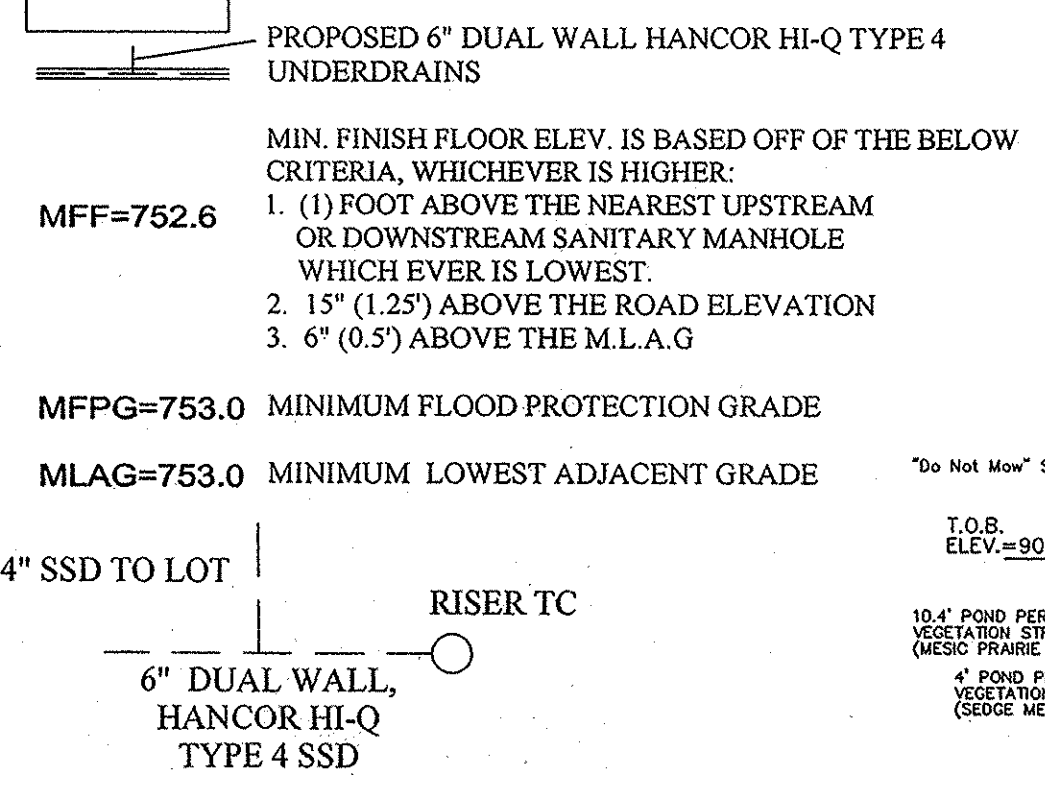
EXISTING PAVEMENT TO BE SAW CUT TO A CLEAN EDGE ADJACENT TO ANY WIDENING, AUXILIARY LANES, ETC.

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

THERE IS TO BE NO DRIVEWAY ENCROACHMENTS INTO EASEMENTS BETWEEN LOTS.

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 TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.

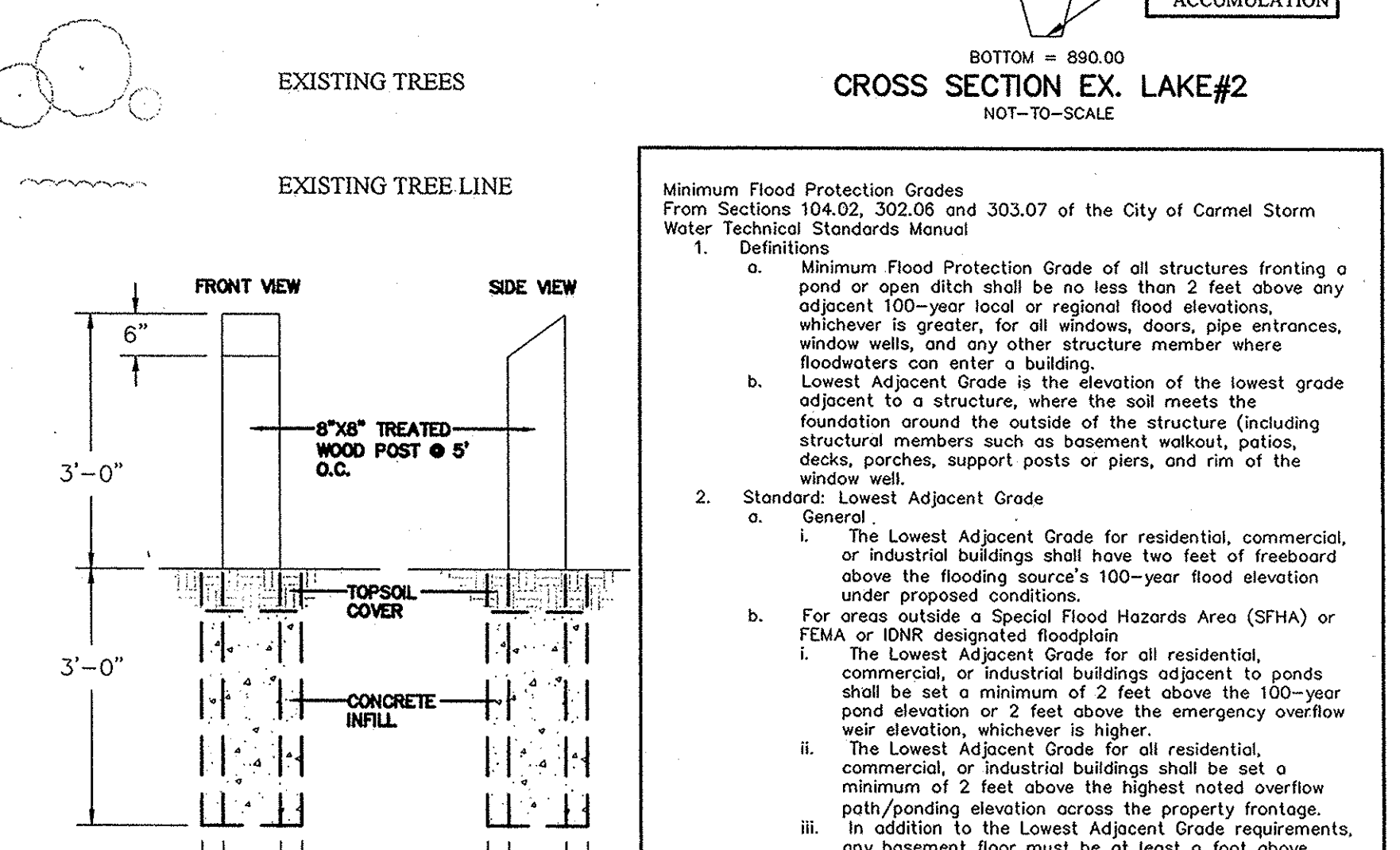
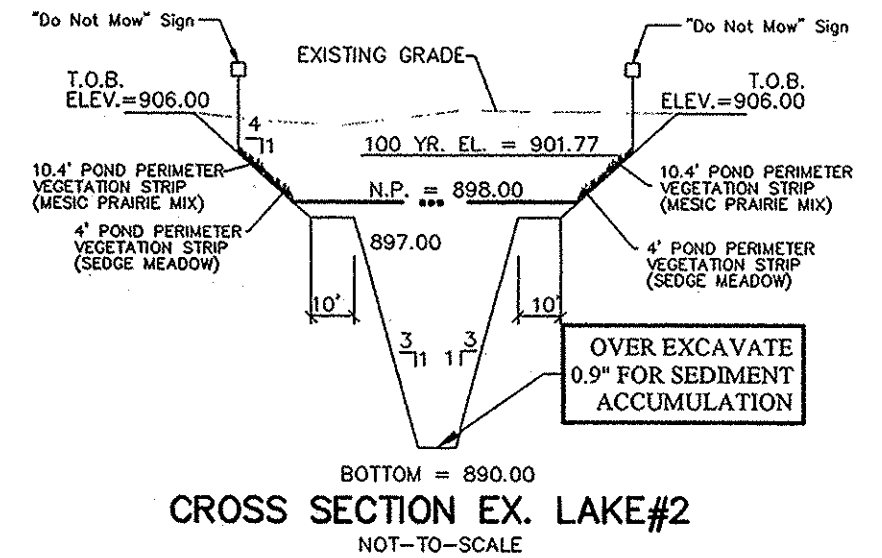
- EARTHWORK:**
1. EXCAVATION
 - A. Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
 - B. Provide and place any additional fill material from offsite as may be necessary to produce the grades required on plans. Fill obtained from offsite shall be of quality as specified for fills herein and the source approved by the Developer. It will be the responsibility of the Contractor for any costs for fill needed.
 2. REMOVAL OF TREES
 - A. All trees and stumps shall be removed from areas to be occupied by a road surface or structure area. Trees and stumps shall not be buried on site.
 3. PROTECTION OF TREES
 - A. The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
 - B. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
 4. REMOVAL OF TOPSOIL
 - A. All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 6 inches or to the depth indicated in the geotechnical report provided by the Developer to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
 5. UTILITIES
 - A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
 - B. It shall be the responsibility of the Contractor to determine the location of existing underground utilities 2 working days prior to commencing work. For utility locations to be marked call Toll Free 1-800-382-5544 within Indiana or 1-800-428-5200 outside Indiana.
 6. SITE GRADING
 - A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
 - B. The tolerance for paved areas shall not exceed 0.05 feet above established subgrade. All other areas shall not exceed 0.05 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.
 - C. The Engineer shall be notified when the Contractor has reached the tolerance as stated above, so that field measurements and spot elevations can be verified by the Engineer. The Contractor shall not remove his equipment from the site until the Engineer has verified that the job meets the above tolerance.



FLOOD STATEMENT
THIS SITE DOES NOT LIE WITHIN A FLOODWAY OR FLOOD PLAIN PER FIRM MAP 18057C025F DATED FEB 19, 2003.

VEGETATIVE COVER
EXISTING SITE CONSIST MOSTLY OF GRASS AND WEEDS WITH WOODS ON THE SITE.

ADJACENT PROPERTIES
NORTH: RESIDENTIAL
EAST: RESIDENTIAL
SOUTH: RESIDENTIAL
WEST: RESIDENTIAL



Minimum Flood Protection Grades From Sections 104.02, 302.06 and 303.07 of the City of Carmel Storm Water Technical Standards Manual

1. Definitions
 - a. Minimum Flood Protection Grade of all structures fronting a pond or open ditch shall be no less than 2 feet above any adjacent 100-year local or regional flood elevations, whichever is greater, for all windows, doors, pipe entrances, window wells, and any other structure member where floodwaters can enter a building.
 - b. Lowest Adjacent Grade is the elevation of the lowest grade adjacent to a structure, where the soil meets the foundation around the outside of the structure (including structural members such as basement walkout, patios, decks, porches, support posts or piers, and rim of the window well.
2. Standard: Lowest Adjacent Grade
 - a. General
 - i. The Lowest Adjacent Grade for residential, commercial, or industrial buildings shall have two feet of freeboard above the flooding source's 100-year flood elevation under proposed conditions.
 - ii. For areas outside a Special Flood Hazard Area (SFHA) or FEMA or IDNR designated floodplain
 - i. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings adjacent to ponds shall be set a minimum of 2 feet above the 100-year pond elevation or 2 feet above the emergency overflow weir elevation, whichever is higher.
 - ii. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings shall be set a minimum of 2 feet above the highest noted overflow path/ponding elevation across the property frontage.
 - iii. In addition to the Lowest Adjacent Grade requirements, any basement floor must be at least a foot above the normal water level of any wet-bottom pond.
 - b. Design Notes:
 - a. Each lot that is adjacent to a pond, open ditch or flooding source has a flood protection grade. There are instances where there are multiple different flooding sources for 1 structure. In this case, there should be a flood protection grade listed for each side of the structure in the event that piping from the structure discharge to either flood source.
 - b. Finished floor elevation or the lowest building entry elevation shall be no less than 6 inches above finished grade around the building. Also, the building's lowest entry elevation that is adjacent to and facing a road shall be a minimum of 15 inches above the road elevation.

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL	UPSTREAM STR.#	DOWNSTREAM STR.#
439-440	12"	168.18'	0.45%	R.C.P.	440	439
438-439	15"	45.85'	0.15%	R.C.P.	439	438
437-438	18"	120.91'	0.18%	R.C.P.	438	437
436-437	18"	179.93'	0.40%	R.C.P.	437	436
435-436	18"	316.71'	0.21%	R.C.P.	436	435
434-435	21"	54.94'	0.20%	R.C.P.	434	434
446-441	12"	149.73'	0.37%	R.C.P.	441	446
445-446	12"	30.17'	0.37%	R.C.P.	446	445
444-445	15"	214.74'	0.15%	R.C.P.	445	444
448-449	12"	37.42'	3.18%	R.C.P.	449	448
447-448	12"	29.73'	1.24%	R.C.P.	448	447
426-447	12"	34.66'	2.11%	R.C.P.	447	EX.426
454-453	12"	42.70'	0.95%	R.C.P.	454	453
452-453	12"	45.90'	1.71%	R.C.P.	453	452
451-452	12"	41.06'	3.07%	R.C.P.	452	451

STRUCTURE TABLE

STR.#	TYPE	T.C.	STRUCTURE TYPE	CASTING TYPE	DIAMETER IN	DIRECTION IN	INV. IN	DIAMETER OUT	DIRECTION OUT	INV. OUT	SLOPE
300	CURB INLET	905.52	24x24 BOX	R-3501-L2	12	S	901.38				
301	CURB INLET	906.24	24x24 BOX	R-3501-L2	12	SW	902.24				
302	DOUBLE CURB INLET	903.88	STD. MH W/2' SUMP	R-3501-TR-TL							
434	END SECTION	897.83			21	N	895.77				
435	YARD INLET	903.53	STD. MH	R-4342	18	N	895.88	21	S	895.88	0.20%
436	YARD INLET	911.08	STD. MH	R-4342	18	N	896.54	18	S	896.54	0.21%
437	YARD INLET	908.21	STD. MH	R-4342	18	E	897.26	18	S	897.26	0.40%
438	DOUBLE CURB INLET	907.07	STD. MH W/2' SUMP	R-3501-TR-TL	15	E	897.47	18	W	897.47	0.18%
439	CURB INLET	907.34	STD. MH	R-3501-L2	12	E	897.54	15	W	897.54	0.15%
440	YARD INLET	902.29	24x24 BOX	R-4342	12	W	898.29	12	W	898.29	0.45%
441	YARD INLET	900.77	24x24 BOX	R-4342	12	W	896.77	12	W	896.77	0.37%
444	END SECTION	897.21				N	895.69				
445	CURB INLET	911.45	STD. MH W/2' SUMP	R-3501-TR	12	E	896.14	15	S	896.14	0.21%
446	CURB INLET	911.51	STD. MH	R-3501-TR	12	E	896.21	12	W	896.21	0.23%
447	CURB INLET	902.65	STD. MH W/2' SUMP	R-3501-L2	12	NE	897.55	12	SW	897.35	2.11%
448	CURB INLET	902.60	24x24 BOX	R-3501-L2	12	E	898.12	12	SW	897.92	1.24%
449	END SECTION	900.56				W	899.31				
451	END SECTION	899.25				W	898.00				
452	CURB INLET	905.14	STD. MH W/2' SUMP	R-3501-L2	12	W	899.37	12	E	899.26	3.07%
453	CURB INLET	905.11	STD. MH	R-3501-L2	12	SW	900.16	12	E	900.16	1.71%
454	YARD INLET	904.67	24x24 BOX	R-4342	12	NE	900.67	12	NE	900.57	0.95%
455	YARD INLET	905.18	24x24 BOX	R-4342	12	E	901.18	12	E	901.18	0.27%

STOEPPEL WERTH
ALWAYS ON
7965 East 16th Street, Fishers, IN 46038-2505
phone: 317-849-5195 fax: 317-849-5192

811
Know what's below. Call before you dig.
IUPSS Dig Safely. Indiana Underground Plant Protection Service

STORM SEWER FOR THIS PROJECT WILL BE PUBLIC.
ALL STORM SEWERS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RCP CLASS III.

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	08/28/14	ISSUED FOR PERMITS	KJAV
2	09/19/14	REVISED PER FINAL ENGINEERING COMMENTS	DCM
3	10/22/14	REVISED PER CITY OF CARMEL COMMENTS	DCM
4	09/17/13	REVISED PER CITY OF CARMEL COMMENTS	LAC
5	08/09/13	REVISED PER TAC COMMENTS	DCV
6	07/29/13	REVISED PER TAC COMMENTS	DCV

THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY. A ROUTE SURVEY OF A SURVEYOR LOCATION REPORT.

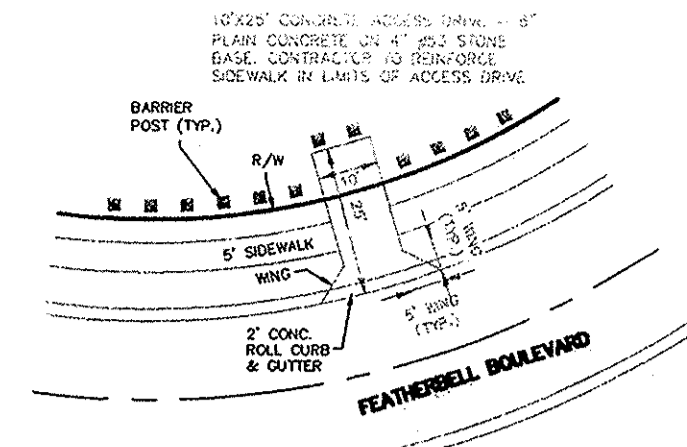
DAVID STOEPPEL WERTH
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA
CERTIFIED: 5/17/13
David J. Steppewerth

STRUCTURE TABLE

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447	CURB INLET	902.65	STD. MH W/2' SUMP	R-3501-L2	12	NE	897.55	12	SW	897.35	2.11%
448	CURB INLET	902.60	24x24 BOX	R-3501-L2	12	E	898.12	12	SW	897.92	1.24%
449	END SECTION	900.56				W	899.31				
451	END SECTION	899.25				W	898.00				
452	CURB INLET	905.14	STD. MH W/2' SUMP	R-3501-L2	12	W	899.37	12	E	899.26	3.07%
453	CURB INLET	905.11	STD. MH	R-3501-L2	12	SW	900.16	12	E	900.16	1.71%
454	YARD INLET	904.67	24x24 BOX	R-4342	12	NE	900.67	12	NE	900.57	0.95%
455	YARD INLET	905.18	24x24 BOX	R-4342	12	E	901.18	12	E	901.18	0.27%

STATE OF INDIANA
DENNIS D. OLMSHEAD
REGISTERED LAND SURVEYOR
No. 900912
CLAY TOWNSHIP
SECTION 10010-C

EXISTING VILLAGE OF WEST CLAY, SECTION 10,010



DRAINAGE SUMMARY

OVERALL SITE ACREAGE=32.446 AC±
SECTION 1010-C=9.246 AC±
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SEC 6001 DRAINAGE REPORT)

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THERE IS NO OFFSITE TO LAKE #2

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RCP CLASS III

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MAP 18057C0205F DATED FEB 19, 2003.

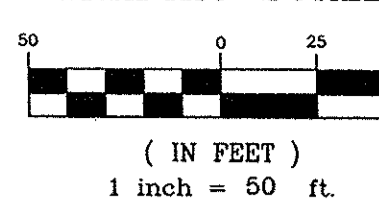
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GRASS AND WEEDS WITH WOODS ON
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SOUTH: RESIDENTIAL
WEST: RESIDENTIAL

FOR WATER LOCATES
CONTACT: CARMEL UTILITIES
(317) 371-2648

FOR SANITARY SEWER LOCATES
CONTACT: CLAY TOWNSHIP
REGIONAL WASTE DISTRICT
(317) 844-9200

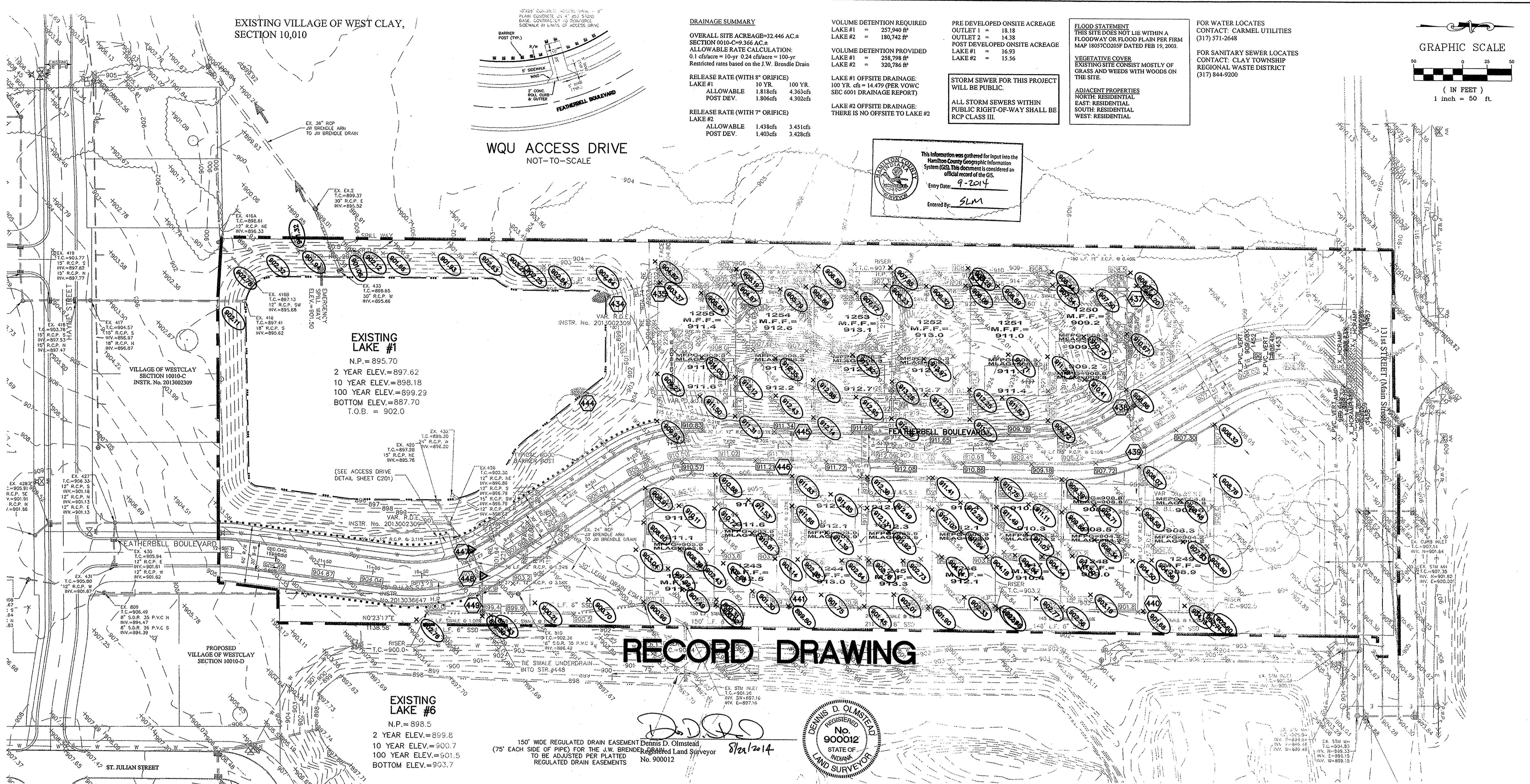
GRAPHIC SCALE



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.

Entry Date: 9-2014

Entered By: SLM



EXISTING LAKE #1
N.P. = 895.70
2 YEAR ELEV. = 897.62
10 YEAR ELEV. = 898.18
100 YEAR ELEV. = 899.29
BOTTOM ELEV. = 887.70
T.O.B. = 902.0

EXISTING LAKE #6
N.P. = 898.5
2 YEAR ELEV. = 899.6
10 YEAR ELEV. = 900.7
100 YEAR ELEV. = 901.5
BOTTOM ELEV. = 903.7

150' WIDE REGULATED DRAIN EASEMENT FOR THE J.W. BRENDLE DRAIN TO BE ADJUSTED PER FLATTED REGULATED DRAIN EASEMENTS

Dennis D. Olmstead
Registered Land Surveyor
No. 900012
8/21/2014

DENNIS D. OLMSTEAD
REGISTERED
No. 900012
STATE OF INDIANA
LAND SURVEYOR

Minimum Flood Protection Grades
From Sections 104.02, 302.06 and 303.07 of the City of Carmel Storm Water Technical Standards Manual

1. Definitions

a. Minimum Flood Protection Grade of all structures fronting a pond or open ditch shall be no less than 2 feet above any adjacent 100-year local or regional flood elevations, whichever is greater, for all windows, doors, pipe entrances, window wells, and any other structure member where floodwaters can enter a building.

b. Lowest Adjacent Grade is the elevation of the lowest grade adjacent to a structure, where the soil meets the foundation around the outside of the structure (including structural members such as basements, patios, decks, porches, support posts or piers, and rim of the window well).

2. Standard: Lowest Adjacent Grade

a. General

i. The Lowest Adjacent Grade for residential, commercial, or industrial buildings shall have two feet of freeboard above the flooding source's 100-year flood elevation under proposed conditions.

ii. For areas outside a Special Flood Hazards Area (SFHA) or FEMA or IDNR designated floodplain

i. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings adjacent to ponds shall be set a minimum of 2 feet above the 100-year pond elevation or 2 feet above the emergency overflow weir elevation, whichever is higher.

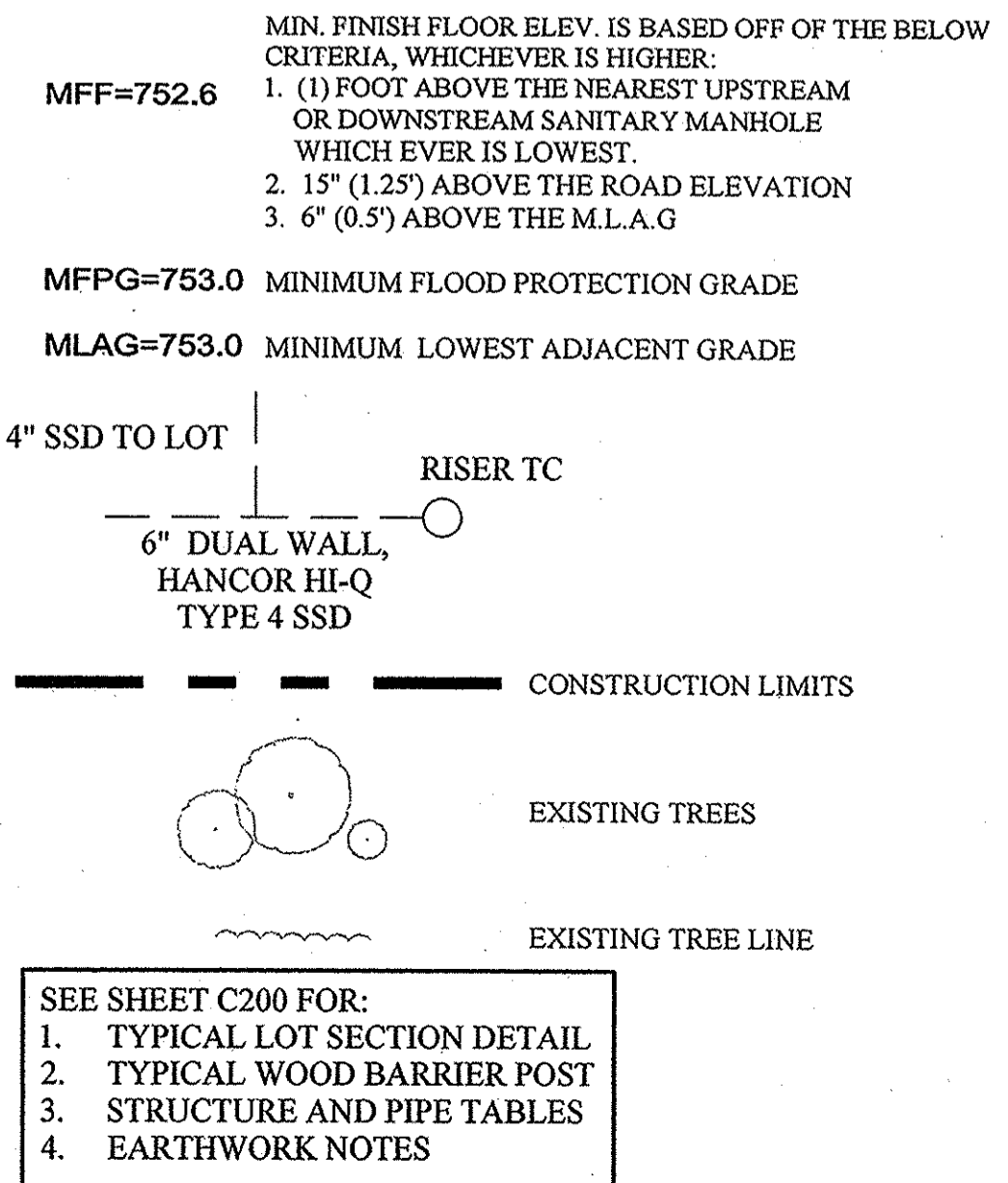
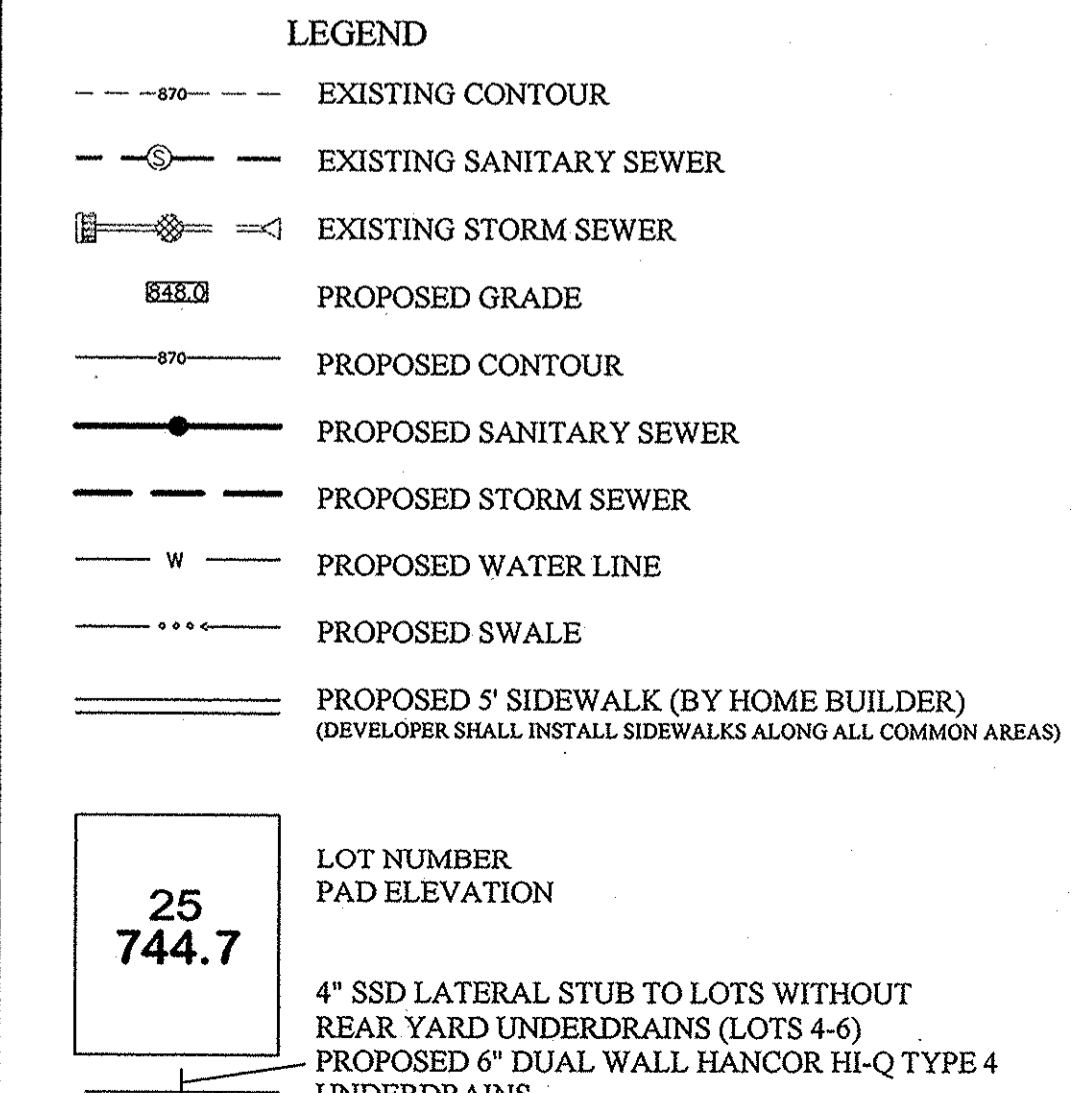
ii. The Lowest Adjacent Grade for all residential, commercial, or industrial buildings shall be set a minimum of 2 feet above the highest noted overflow path/ponding elevation across the property frontage.

iii. In addition to the Lowest Adjacent Grade requirements, any basement floor must be at least a foot above the normal water level of any wet-bottom pond.

3. Design Notes

a. Each lot that is adjacent to a pond, open ditch or flooding source has a flood protection grade. There are instances where there are multiple different flooding sources for 1 structure. In this case, there should be a flood protection grade listed for each side of the structure in the event that piping from the structure discharge to either flood source.

b. Finished floor elevation or the lowest building entry elevation shall be no less than 6 inches above finished grade around the building. Also, the building's lowest entry elevation that is adjacent to and facing a road shall be a minimum of 15 inches above the road elevation.



NOTES TO CONTRACTOR:

ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.

ANY PRIVATE TILES LOCATED ON THIS SITE WILL NEED TO BE LOCATED, BREATHERS SET AT THE DOWNSTREAM PROPERTY LINE AND CRUSHED OR REMOVED ACROSS THIS SITE. IF ANY OF THESE TILES EXTEND BEYOND THE LIMITS OF THIS PROJECT, THEY WILL NEED TO BE PROVIDED A POSITIVE OUTLET AND ALLOWED TO CONTINUE TO FUNCTION, AS IT IS ILLEGAL TO BLOCK OFF A PRIVATE "MUTUAL" TILE.

CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

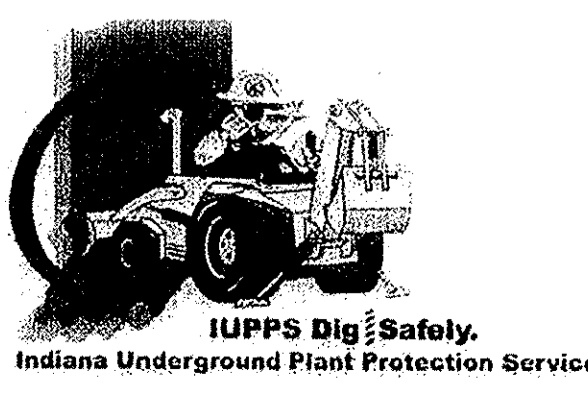
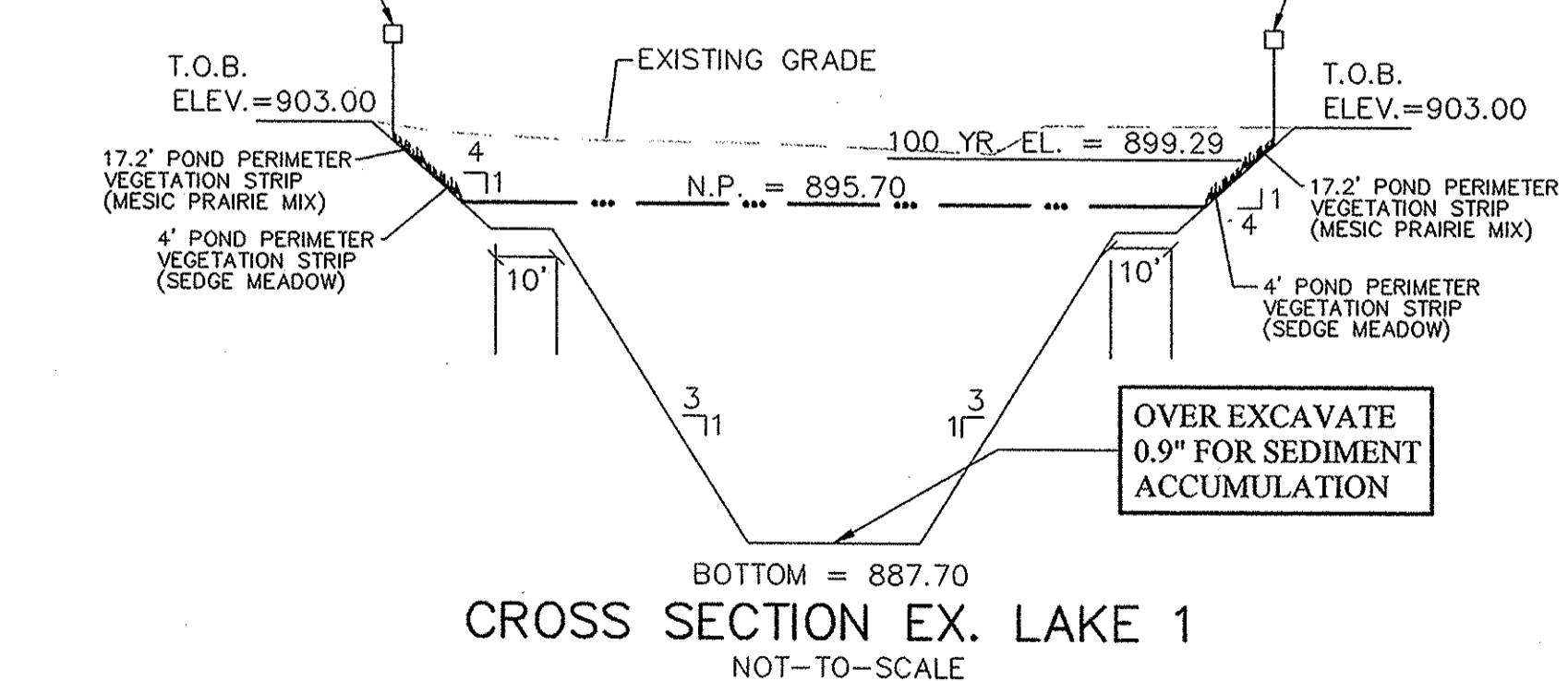
CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF WORK TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED CITY RV.

EXISTING PAVEMENT TO BE SAW CUT TO A CLEAN EDGE ADJACENT TO ANY WIDENING, AUXILIARY LANES, ETC.

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

THERE IS TO BE NO DRIVEWAY ENCROACHMENTS INTO EASEMENTS BETWEEN LOTS.

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 TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.



811
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THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACTION OR SURVEY OR A SURVEYOR'S LOCATION REPORT.

CERTIFIED: 5/17/13
David J. Stoepelwerth

STOEPPELWERTH
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA

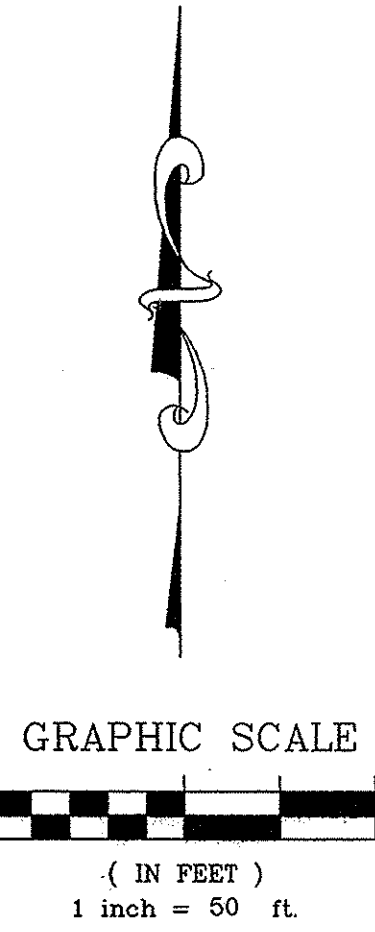
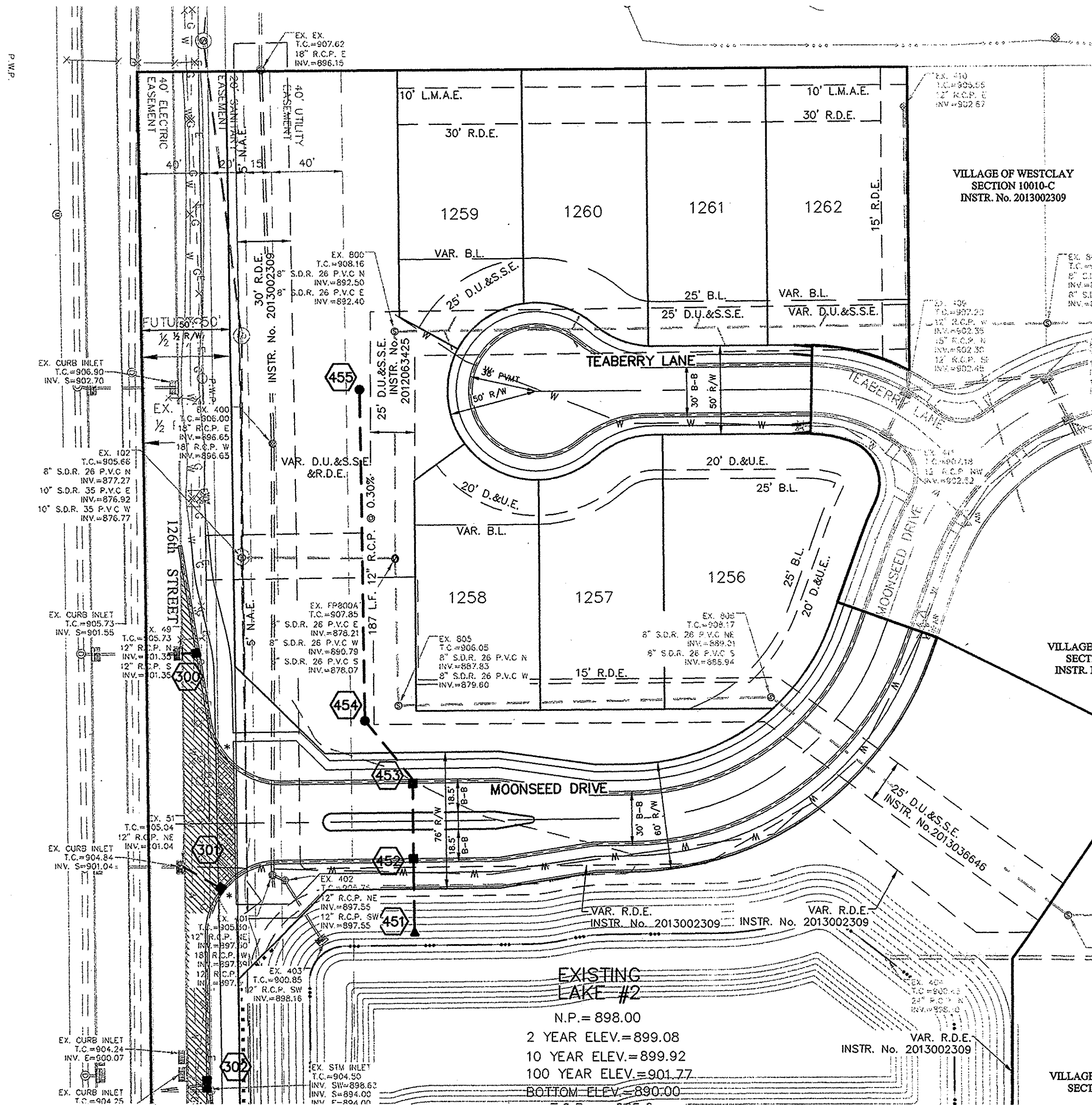
ALWAYS ON
7945 East 106th Street, Fishers, IN 46038-2505
phone: 317.840.5393 fax: 317.840.5342

SITE DEVELOPMENT PLAN
VILLAGE OF WEST CLAY, SECTION 1010-E
HAMILTON COUNTY, INDIANA
CLAY TOWNSHIP

DRAWN BY: KRG
CHECKED BY: BAH

SHEET NO. C201
S & A JOB NO. 55960PUL-S3

DATE	MARK	REVISIONS
09/29/14		ASBUILTS
11/16/14		REVISED ENTRANCE
04/07/14		REVISED PER FINAL ENGINEERING COMMENTS
10/23/13		REVISED PER ENGINEERING COMMENTS
09/17/13		REVISED PER CITY OF CARMEL COMMENTS
08/29/13		REVISED PER TAC COMMENTS
07/06/13		REVISED PER TAC COMMENTS
		AGG/LSJ



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■ DENOTES FULL DEPTH GRANULAR BACKFILL

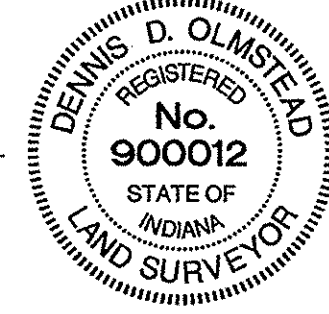
STORM SEWER NOTE
 THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE 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 AND 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.

STORM SYSTEM
 STORM SEWERS FOR THIS DEVELOPMENT WILL BE PUBLIC.

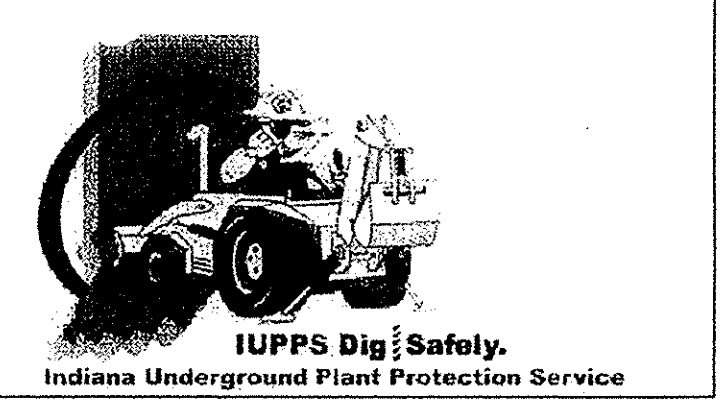
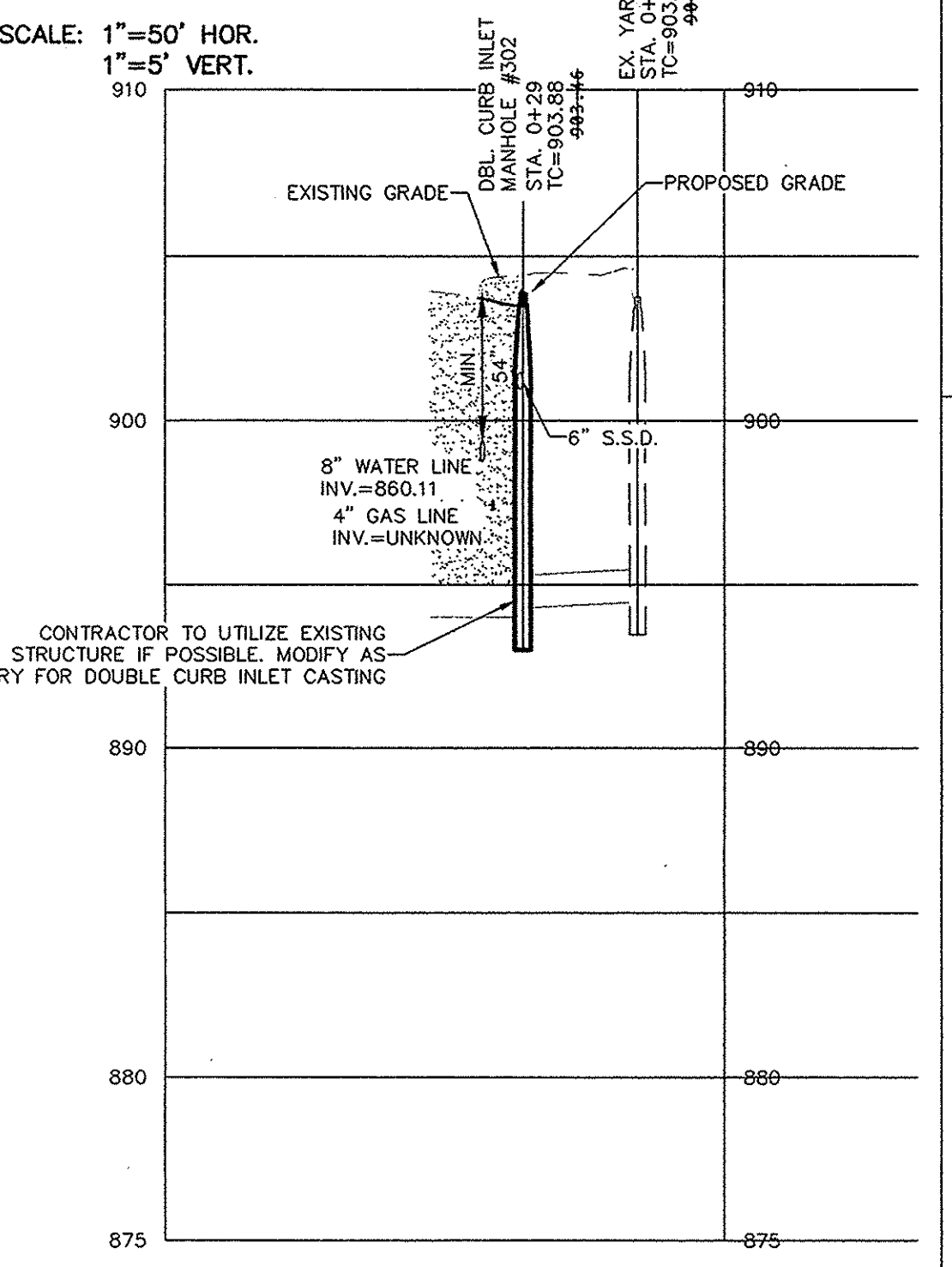
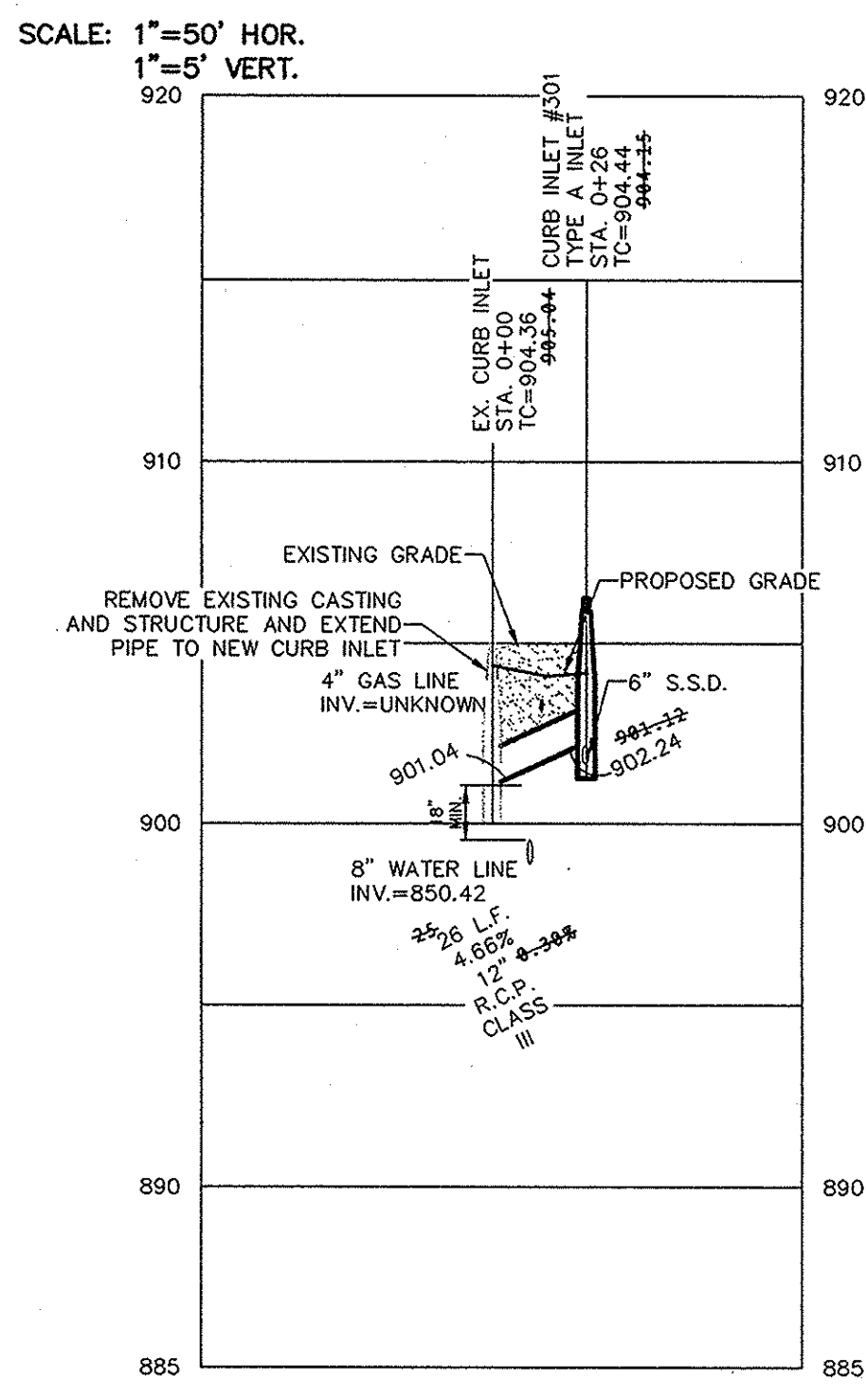
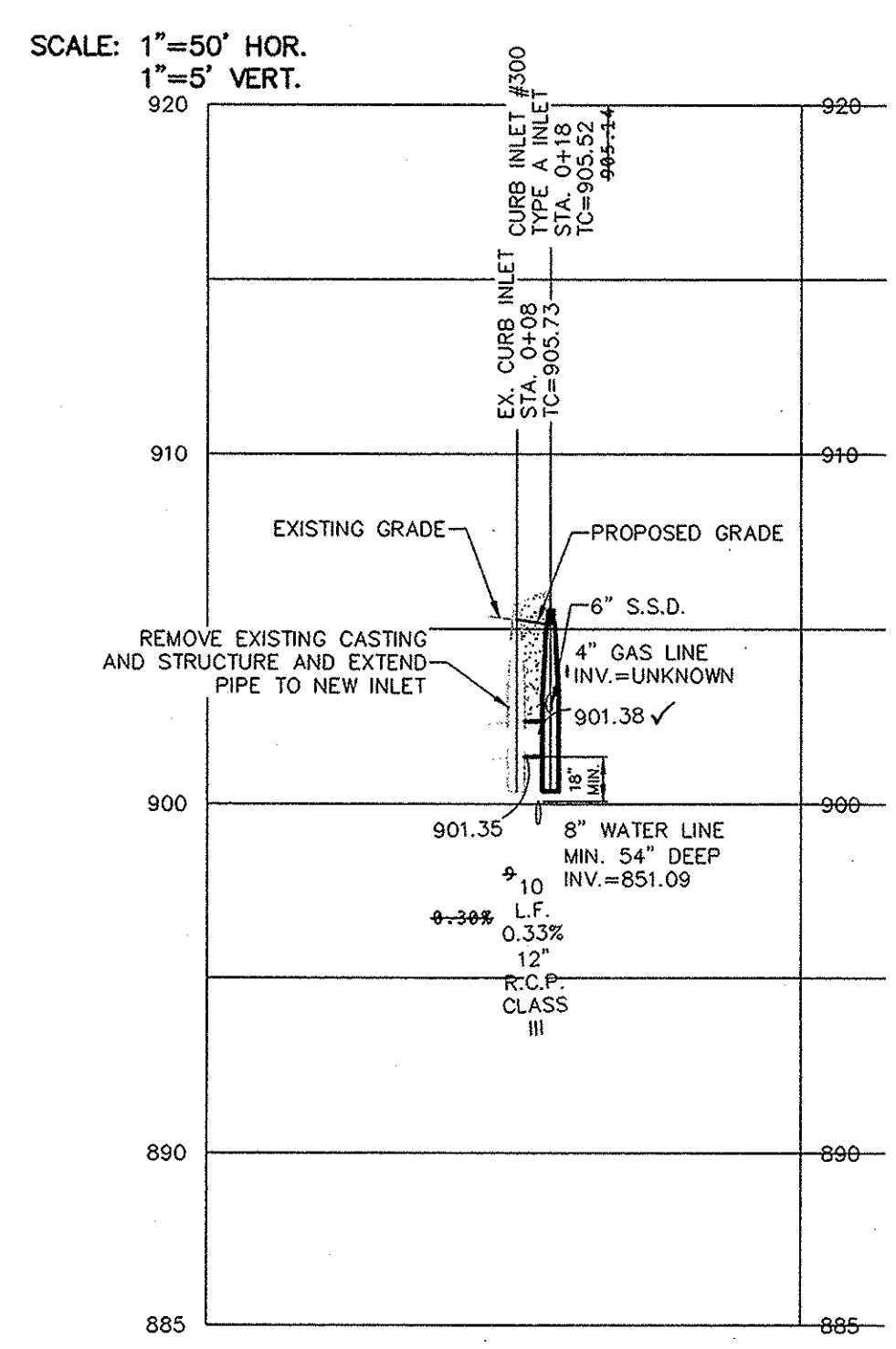
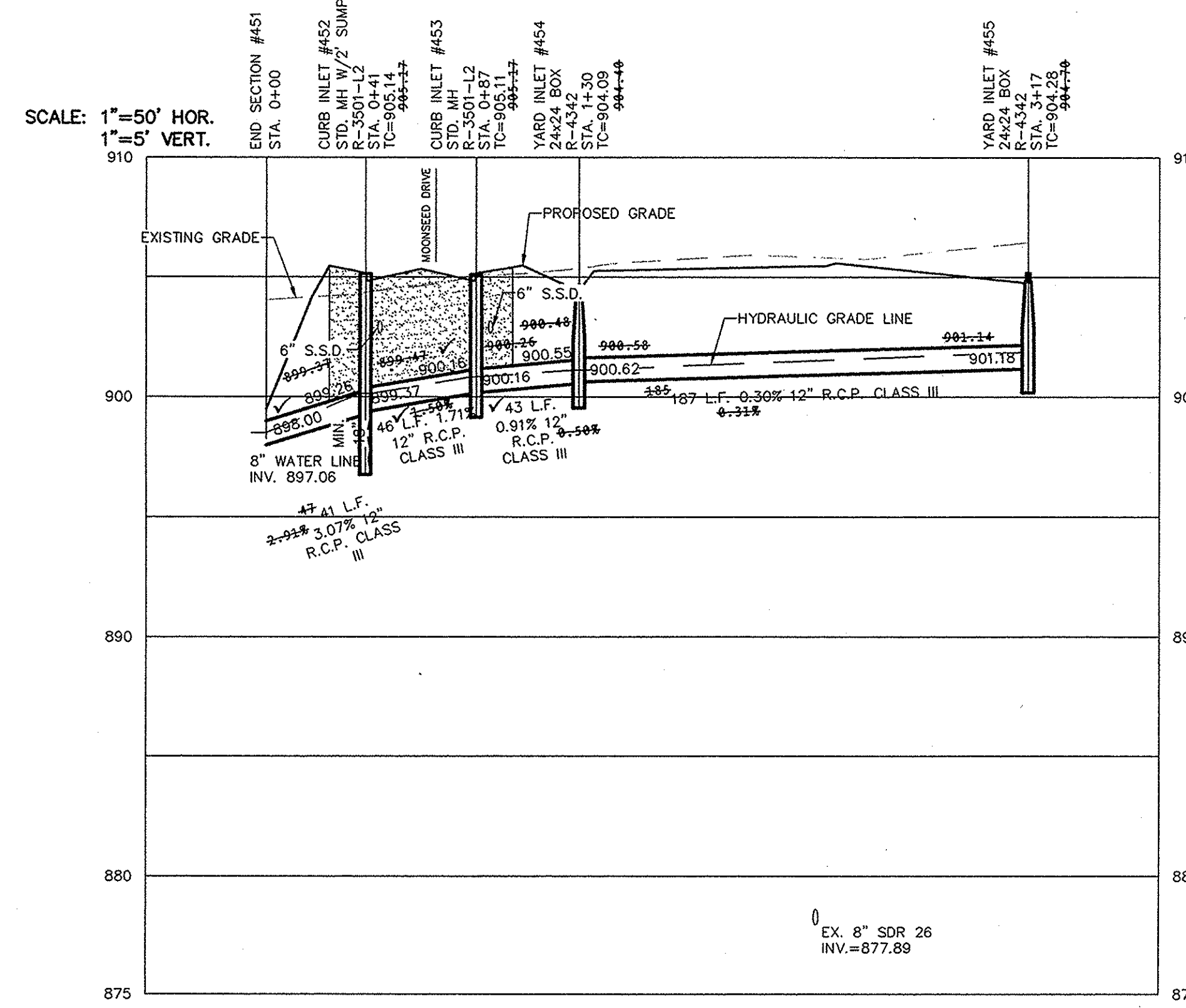
- NOTES:
- ALL STORM STRUCTURES TO RECEIVE SOLID LID CASTINGS ARE TO BE CONSTRUCTED TO PROVIDE ONE 4" RISER RING NO MORE, NO LESS TO ACHIEVE PLAN RIM GRADE.
 - ALL YARD INLETS ARE TO BE CONSTRUCTED AT A TOLERANCE OF +0.00' TO -0.20' OF PLAN GRADE.
 - ALL STORM SEWER CASTINGS SHALL BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY"
 - ALL SSD'S (SUBSURFACE DRAINS) WILL NEED TO BE DOUBLE WALL SMOOTH BORE PERFORATED (HDPB) PIPE.
 - DEBRIS GUARDS ARE TO BE INSTALLED ON ALL OPEN ENDED INLETS.
 - FOR STORM STRUCTURE SIZING AND CASTING TABLE SEE DETAIL D-18 ON SHEET C802.
 - ALL STORM SEWERS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RCP CLASS III.
 - FOR INSTALLATION OF STORM UNDER CITY STREETS AND COVER REQUIREMENTS, SEE SHEET No. C802 ON THE TRENCH DETAIL.

RECORD DRAWING

Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
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 Entered By: SLM



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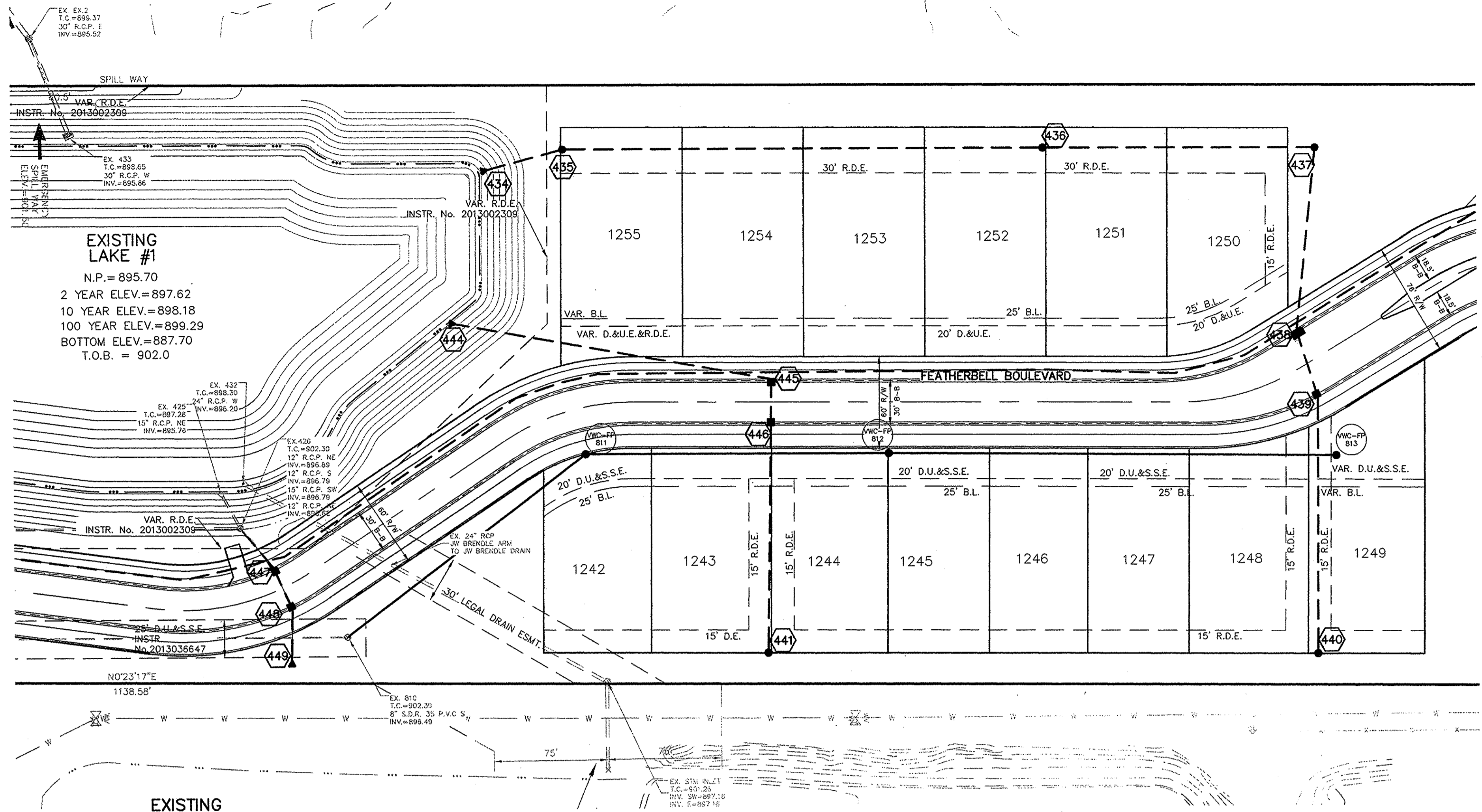
STOEPPELWERTH
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 phone: 317.849.5785 fax: 317.849.5742

REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA

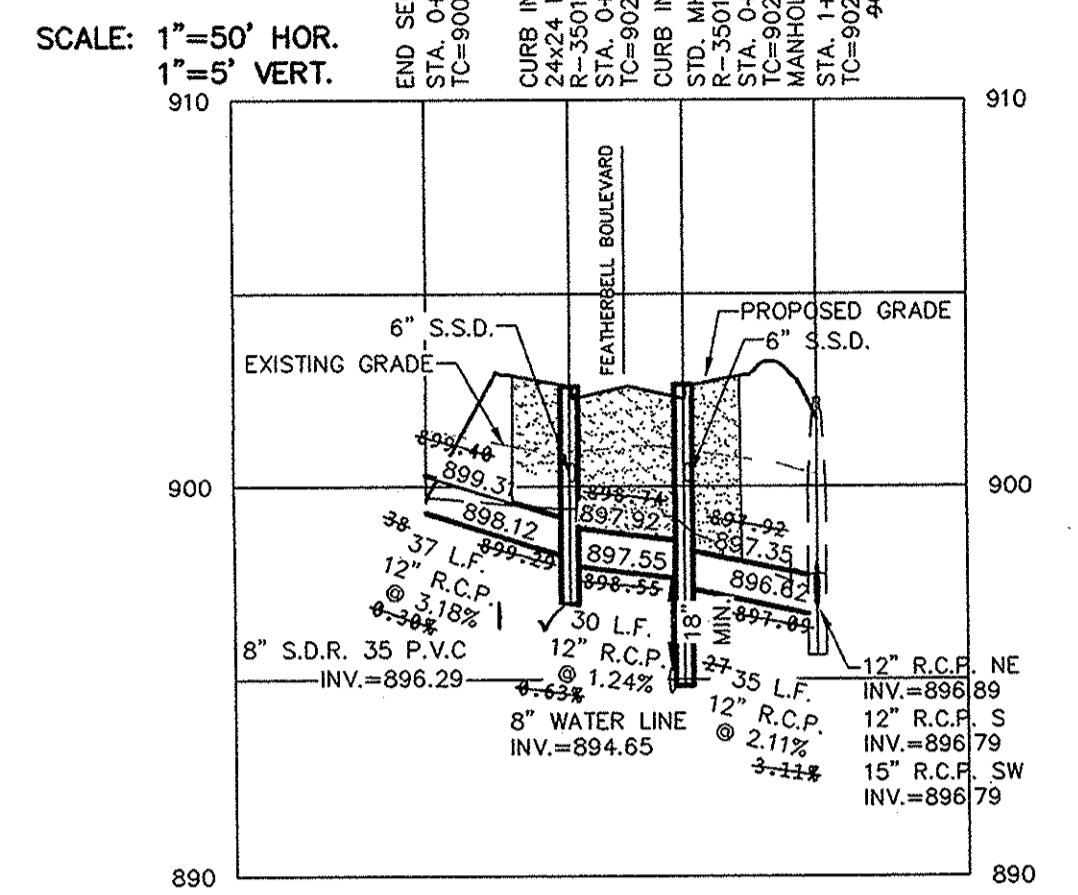
THIS DRAWING IS NOT INTENDED TO BE AN ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY OR A SURVEYOR LOCATION REPORT.
 CERTIFIED: 5/17/13
 David J. Stappert

DATE: 07/29/13
 MARK: []
 REVISIONS: []

DRAWN BY: KRG
 CHECKED BY: BAH
 SHEET NO: C600
 S & A JOB NO: 55960PUL-S3



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 Date: 9.2014
 Entered by: SLM



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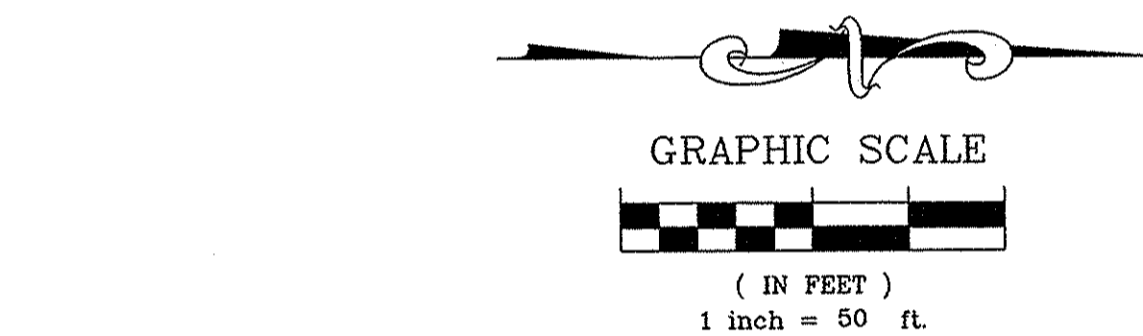
STORM SYSTEM
 STORM SEWERS FOR THIS DEVELOPMENT WILL BE PUBLIC.

NO.	DATE	REVISIONS
1	09/26/14	AS BUILT'S
2	10/23/13	REVISED PER ENGINEERING
3	07/26/13	REVISED PER CITY OF CARMEL COMMENTS
4	07/26/13	REVISED PER TAC COMMENTS

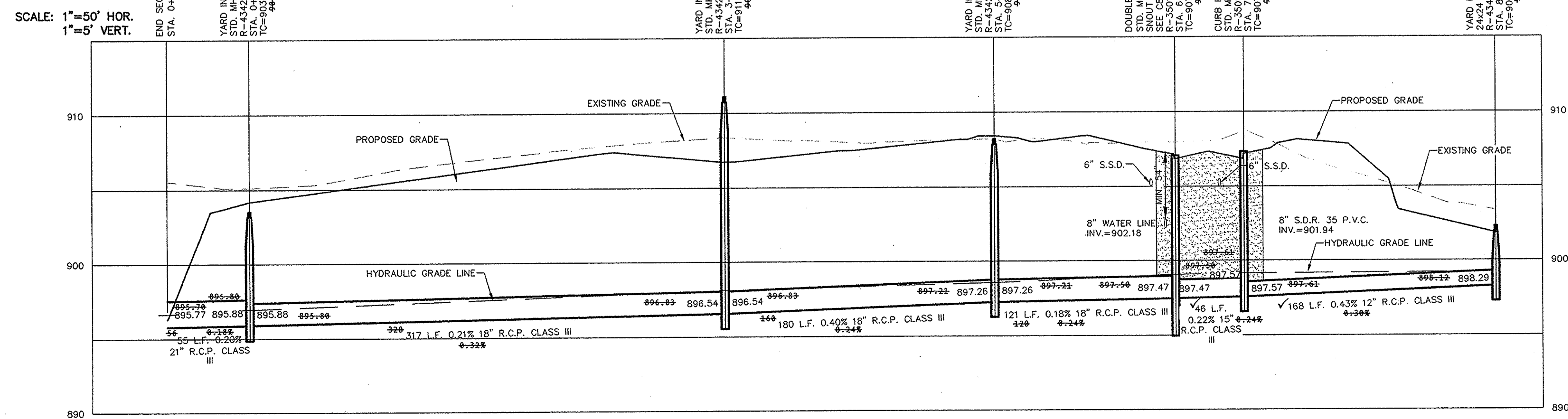
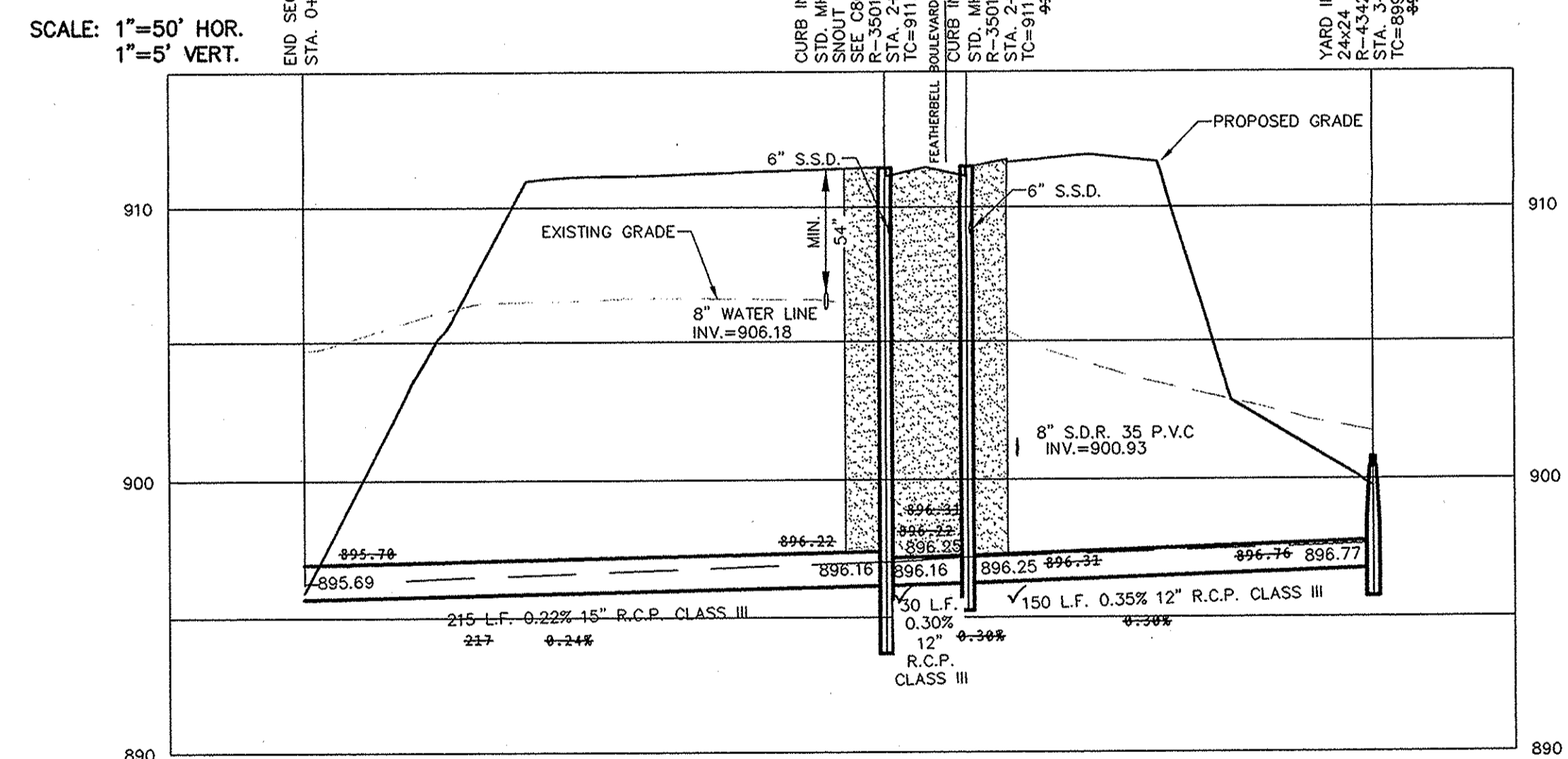
DATE MARK

THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY. IT IS A REPORT.

DAVID J. STOEPPELWERTH
 REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA
 CERTIFIED: 5/17/13
 David J. Stoepfelwerth

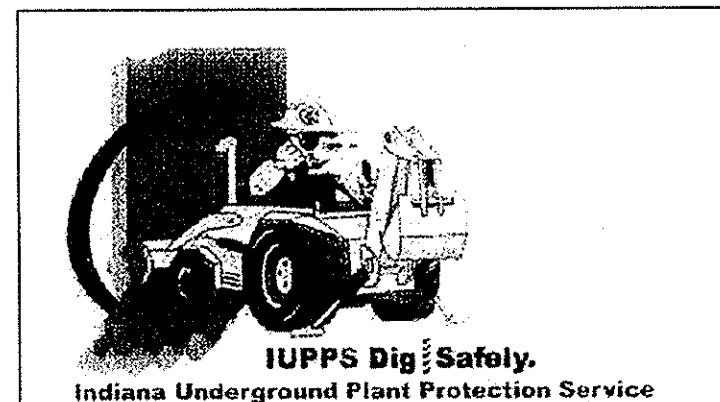


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RECORD DRAWING

Demetrius D. Olmstead
 Registered Land Surveyor
 No. 900012
 8/29/2014



STOEPPELWERTH
 ALWAYS ON
 7905 East 100th Street, Fishers, IN 46038-2905
 phone: 317.849.5955 fax: 317.849.5942

STORM PLAN & PROFILES
 VILLAGE OF WEST CLAY,
 SECTION 10010-E
 HAMILTON COUNTY, INDIANA
 CLAY TOWNSHIP

DRAWN BY: KRG
 CHECKED BY: BAH
 SHEET NO.
C601
 S & A JOB NO.
 55960PUL-S3