

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

July 31, 2019

To: Hamilton County Drainage Board

Re: Sly Run Drain, Mill Grove Sec. 1 Offsite Arm, Retreat at Mill Grove Sec. 2 Reconstruction

Attached are petition and plans for the proposed reconstruction of a portion of the Sly Run Drain, Mill Grove Sec. 1 Offsite Arm as part of the Retreat at Mill Grove, Sec. 2 project. This project is being paid for by Retreat at Mill Grove Developer, LLC. The proposal is to reconstruct the existing drain that serves as the outflow pipe from existing Lake #5 per construction plans by Stoepelwerth & Associates, revision date 11/20/2018. This reconstruction is part of the plan to expand the detention area designed to accommodate the next phase of this development.

Per the plans by Stoepelwerth & Associates, the reconstructed drain route will be as follows: The upstream end of this relocation will begin at Str 833 at Lake #5 and drain northeast to Str 832.

This reconstruction will consist of the following:

70' of 21" RCP

The new drain involves the lengths of drain between the following structures per the construction plans: 832 & 833.

The newly installed drain will have a length of 70'.

Regarding the existing regulated drain, this project will replace 67' of existing 12" RCP drain at that location.

This proposal will add 3' of footage to the Sly Run drain's total length.

The Sly Run Drain, Mill Grove Section 1 Offsite Arm was established by the Drainage Board at hearing on May 24, 2010 per my report dated February 19, 2010. See Drainage Board Minutes Book 12, pages 550 - 552.

The cost of the project is to be paid by Retreat at Mill Grove Developer, LLC. Surety has been posted in the form of performance bond as follows:

Agent: Great American Insurance Co.

Date: April 25, 2019

Number: 2018773

For: Retreat at Mill Grove, Section 2 – Legal Drain Reconstruction

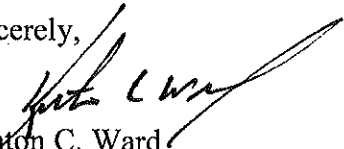
Amount: \$8,769.00

HCDB-2019-00023

Regarding easement, this project is located within existing easement as per the recorded secondary plat for Retreat at Mill Grove, Sec. 1 Common Area #3 (Parcel 11-06-27-00-16-035.000, owned by Retreat at Mill Grove Homeowners Association, Inc.), and State Road 38 right-of-way, owned by the State of Indiana.

I recommend the Board set a hearing date for September 23, 2019.

Sincerely,



Kepton C. Ward
Hamilton County Surveyor

KCW/stc

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN RE: Retreat at Mill Grove, Section 2)
Hamilton County, Indiana)

FILED

APR 12 2019

OFFICE OF HAMILTON COUNTY SURVEYOR

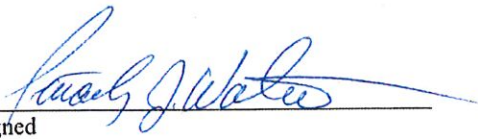
PETITION FOR RELOCATION AND RECONSTRUCTION

Retreat at Mill Grove Developer, LLC (hereinafter Petitioner”),

hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a section of the Sly Run Drain, and in support of said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the Sly Run Drain runs.
2. Petitioner plans to develop its real estate with roads, buildings, utilities, storm drains, sanitary sewers and other structures.
3. Petitioner’s proposed development of its real estate will require relocation and reconstruction of a portion of the Sly Run Drain, as specifically shown on engineering plans and specifications filed with the Hamilton County Surveyor.
4. The work necessary for the proposed relocation and reconstruction will be undertaken at the sole expense of the Petitioner and such work will result in substantial improvement to the Sly Run Drain, without cost to other property owners on the watershed of the Sly Run Drain.

WHEREFORE, Petitioner requests that an Order issued from the Hamilton County Drainage Board authorizing relocation and reconstruction of the Sly Run Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.


Signed

Timothy J. Walter
Printed

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
**Sly Run Drain, Mill Grove Section 1 Offsite Arm, Retreat at Mill Grove
Section 2 Reconstruction**

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Sly Run Drain, Mill Grove Section 1 Offsite Arm, Retreat at Mill Grove Section 2 Reconstruction** came before the Hamilton County Drainage Board for hearing on **September 23, 2019**, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

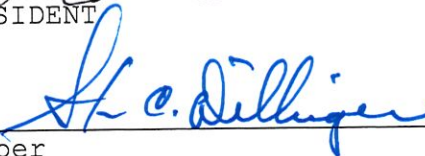
Wherefore, it is ORDERED, that the proposed Reconstruction of the **Sly Run Drain, Mill Grove Section 1 Offsite Arm, Retreat at Mill Grove Section 2 Reconstruction** be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

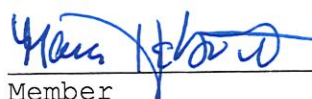
HAMILTON COUNTY DRAINAGE BOARD



PRESIDENT



Member



Member

ATTEST: 
Executive Secretary



STOEPPELWERTH
ALWAYS ON

ofc: 317.849.5935
fax: 317.849.5942

7965 East 106th Street
Fishers, IN 46038-2505
www.stoeppelwerth.com

April 11, 2019

FILED

MAY 10 2019

OFFICE OF HAMILTON COUNTY SURVEYOR

Hamilton County Surveyors Office
One Hamilton County Square
Suite 188
Noblesville, Indiana 46038

Attention: Steve Cash

Re: Retreat at Mill Grove, Section 2

Dear Mr. Cash:

On behalf of the developer Retreat at Mill Grove Developer, LLC, enclosed please find an Engineer's Estimate (opinions of cost representing out best judgement and not a guarantee of actual construction costs) for Retreat at Mill Grove, Section 2. The estimate is as follows:

Item	Unit	Unit Cost	Quantities	Cost
STORM SEWERS				
On-site Mains, Structures & Backfill				
21" Pipe	LF	\$ 42	70	\$ 2,958
21" End Section	EA	\$ 1,650	1	\$ 1,650
Outlet control structure	EA	\$ 2,700	1	\$ 2,700
Total				\$ 7,308
Surety Coverage Required				120%
TOTAL SURETY AMOUNT				\$ 8,769.00

If you have any questions or comments regarding this estimate, please call Brett A. Huff at (317) 570-4841.

Witness my signature this 11th day of April 2019.

David J. Stoeppelwerth

David J. Stoeppelwerth
Professional Engineer
No. 19358



Cc: Tim Walsh

BAH/meb
S:\31083PIA-S2\Blue_Book\Agency_Correspondence\HamiltonCountySurveyor\CashEE04-11-19.doc

LAND DEVELOPMENT SUPPORT SOLUTIONS

ENGINEERING | SURVEYING

HCDB-2019-00023

FILED

MAY 10 2019

OFFICE OF HAMILTON COUNTY SURVEYOR

SUBDIVISION IMPROVEMENTS PERFORMANCE BOND

BOND NO. Bond No. 3018773

KNOW ALL MEN BY THESE PRESENTS:

THAT we, Platinum Properties Management Company, LLC, as Principal,
and Great American Insurance Company, a corporation organized and doing
business and under and by virtue of the laws of the State of Ohio and duly
licensed to conduct surety business in the State of Indiana, as Surety,
are held and firmly bound unto
Hamilton County Drainage Board

One Hamilton County Square
Noblesville, IN 46060

as Oblige, in the sum of Eight Thousand Seven Hundred Sixty-nine And No/100
(\$8,769.00) Dollars,

for which payment, well and truly to be made, we bind ourselves, our heirs, executors and successors,
jointly and severally firmly by these presents.

THE CONDITION OF THE OBLIGATION IS SUCH THAT:

WHEREAS, the above named Principal, has agreed to construct in _____
Subdivision, in Noblesville, IN the
following improvements: Retreat at Mill Grove, Section 2 - Legal Drain Reconstruction

NOW, THEREFORE, the condition of this obligation is such, that if the above Principal shall well and
truly perform said agreement or agreements during the original term thereof or of any extension of said
term that may be granted by the Oblige with or without notice to the Surety, this obligation shall be void,
otherwise it shall remain in full force and effect.

IN WITNESS WHEREOF, the seal and signature of said Principal is hereto affixed and the corporate seal
and the name of the said Surety is hereto affixed and attested by its duly authorized Attorney-in-Fact, this
25th day of April, 2019
YEAR

Platinum Properties Management Company, LLC

BY: Steve R. [Signature] Principal

Great American Insurance Company

BY: Brenda [Signature] Attorney-in-Fact
Brenda Johnston

GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740

The number of persons authorized by this power of attorney is not more than **TEN**

No. 0 20585

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof, provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name	Address	Limit of Power	
NICOLE MCKINNEY	CYNTHIA L. JENKINS	KIMBERLY E. KINKEAD	ALL
MICHAEL H. BILL	GINGER J. KRAHN	REBECCA A. VIRT	\$100,000,000
EDWARD L. MOURINGHAN	SHEREE HSIEH		
BRENDA JOHNSTON	LAURAN REYNOLDS	ALL OF INDIANAPOLIS, INDIANA	

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this: 24TH day of NOVEMBER 2014

Attest

GREAT AMERICAN INSURANCE COMPANY



My L C. B.
Assistant Secretary

David C. Kitchin
Divisional Senior Vice President

STATE OF OHIO, COUNTY OF HAMILTON - ss:

DAVID C. KITCHIN (877-377-2405)

On this 24TH day of NOVEMBER, 2014, before me personally appeared DAVID C. KITCHIN, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



Shelle Clontz
Notary Public, State of Ohio
My Commission Expires 08-09-2016

Shelle Clontz

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, STEPHEN C. BERANA, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this 25th

day of April

, 2019



My L C. B.
Assistant Secretary

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

***Sly Run Drain, Mill Grove Section 1 Offsite Arm,
Retreat at Mill Grove Section 2 Reconstruction***

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the **Sly Run Drain, Mill Grove Section 1 Offsite Arm, Retreat at Mill Grove Section 2 Reconstruction** on **September 23, 2019** at **9:00 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed 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

STATE OF INDIANA)
) SS BEFORE THE HAMILTON
)
COUNTY OF HAMILTON) DRAINAGE BOARD

IN THE MATTER OF **Sly Run Drain, Mill Grove Offsite, Retreat
at Mill Grove Section 2 Arm**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **September 23, 2019** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

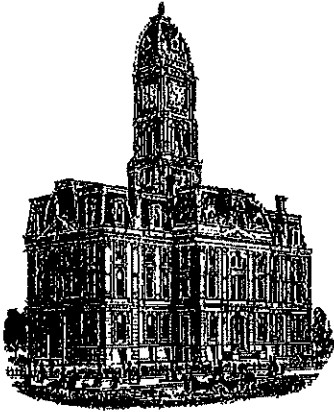
The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Christine Altman
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY



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

November 4, 2019

Re: Sly Run Drain: Mill Grove Sec. 1 Offsite Arm – Retreat at Mill Grove Sec. 2 Reconstruction

Attached are as-built, certificate of completion & compliance, and other information for Retreat at Mill Grove Section 2 Reconstruction. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

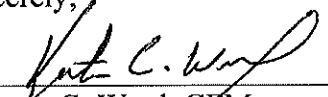
During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated July 31, 2019. The report was approved by the Board at the hearing held September 23, 2019. (See Drainage Board Minutes Book 19, Pages3-4) The changes are as follows: The 21" RCP was shortened from 70 feet to 57 feet. The length of the drain due to the changes described above is now **57 feet**.

The work was done within existing drainage easements. The following sureties were guaranteed by Great American Insurance Co. and released by the Board on its October 28, 2019 meeting.

Bond-LC No: PB11328100044
Amount: \$215,120.04
For: Storm Sewers & SSD
Issue Date: June 24, 2014

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

Sincerely,


Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

FILED

OCT 04 2019

Re: Retreat at Mill Grove, Sec.2

OFFICE OF HAMILTON COUNTY SURVEYOR

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: October 4, 2019

Type or Print Name: Dennis D. Olmstead - Stoeppelwerth & Associates, Inc.

Business Address: 7965 East 106th Street
Fishers, Indiana

Telephone Number: (317) 570-4700

SEAL



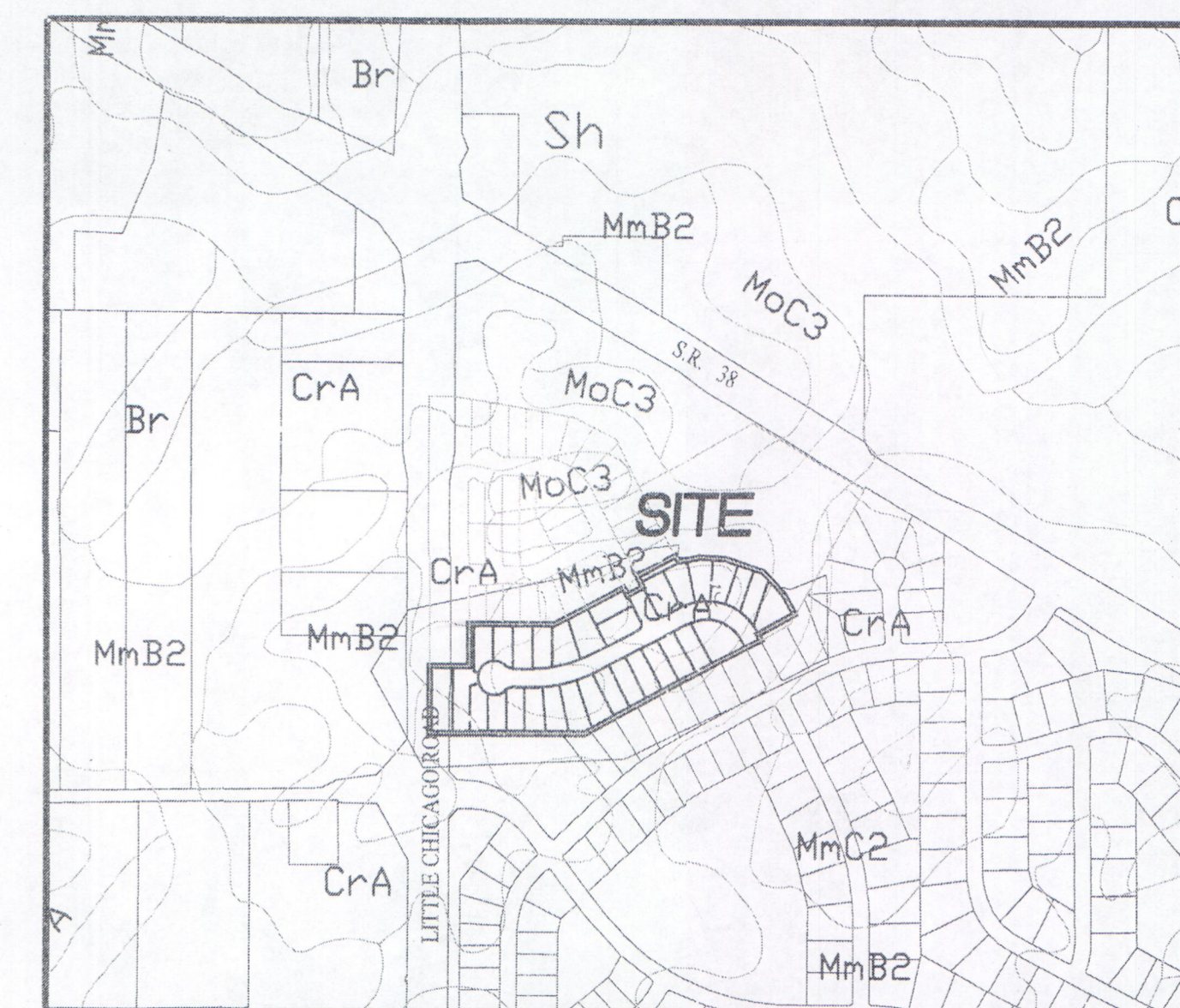
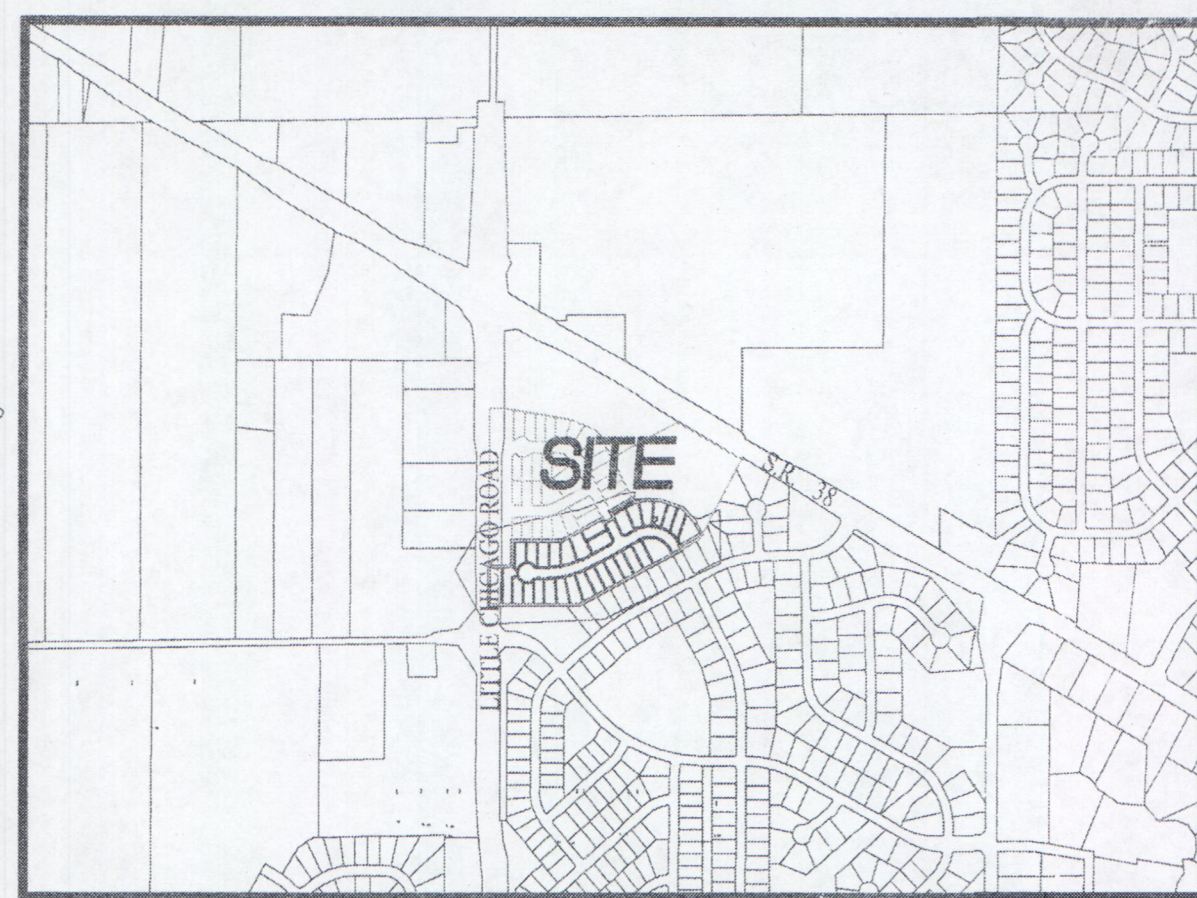
INDIANA REGISTRATION NUMBER

900012

RETREAT AT MILL GROVE

SECTION 2

Developed by:
Retreat at Mill Grove Developer, LLC
 9757 Westpoint Drive, Suite 600
 Indianapolis, Indiana 46256
 Phone: (317)-564-7304
 Contact Person: Tim Walsh



SOILS MAP
SCALE: 1"=500'

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

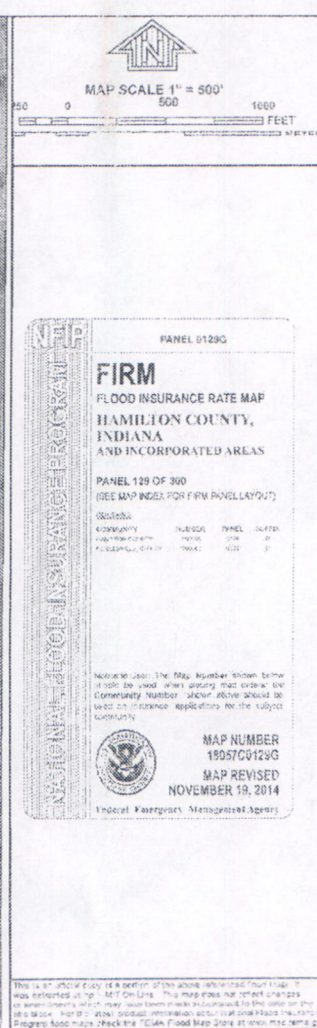
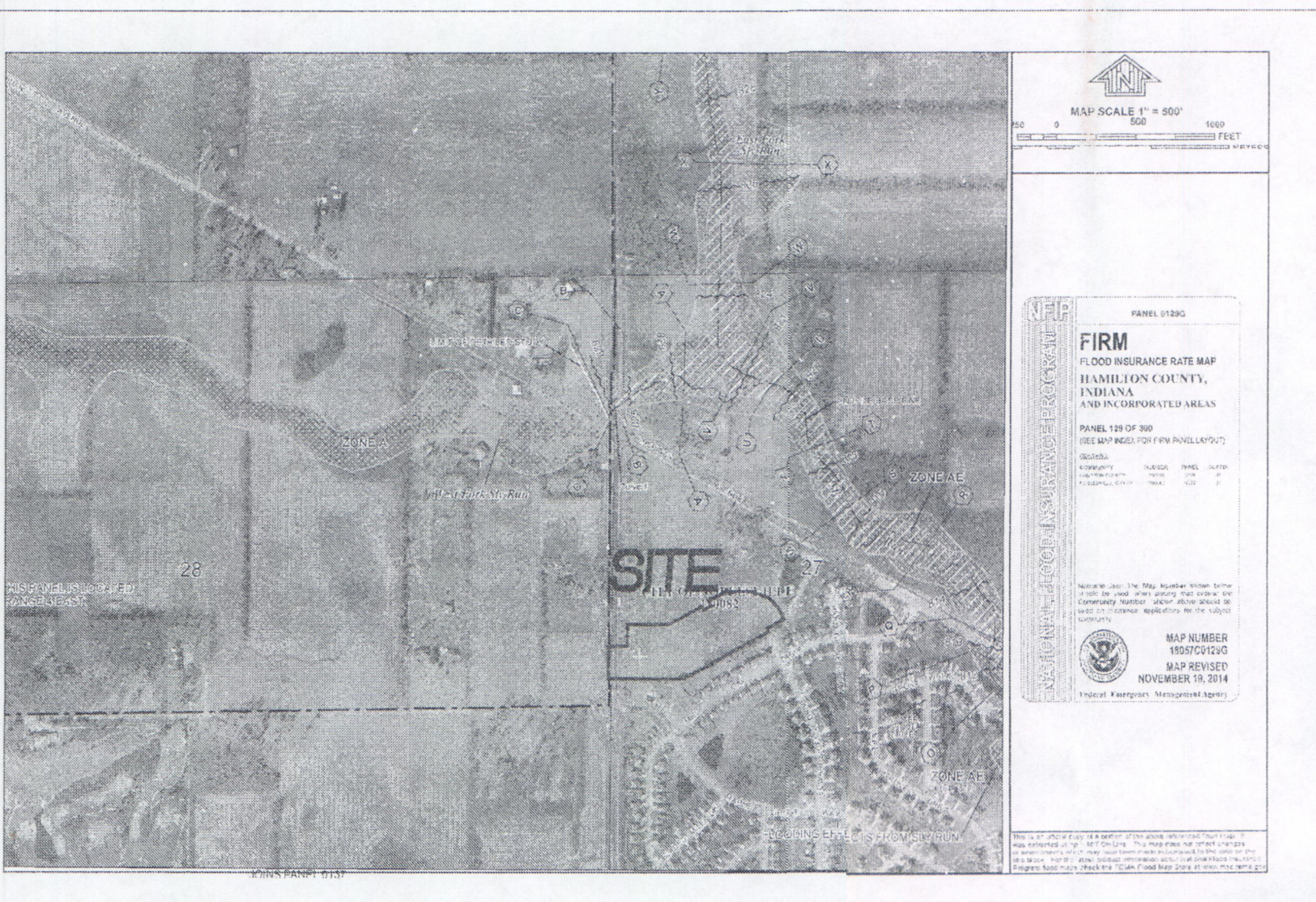
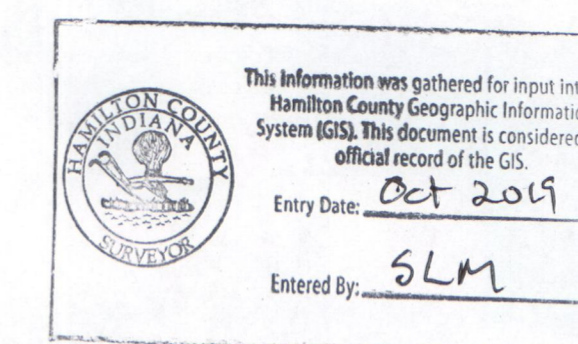
CrA - Crosby silt loam, 0 to 2 percent slopes
 This is a somewhat poorly drained soil and has a seasonal high water table at 0.5 to 2.0 ft. and is on rises on uplands. Slopes are 0 to 2 percent. The native vegetation is hardwoods. The surface layer is silt loam and has moderately low to moderate organic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

Map Unit: MmB2 - Miami silt loam, 2 to 6 percent slopes, eroded

MmB2 - Miami silt loam, 2 to 6 percent slopes, eroded
 This moderately well drained soil has a seasonal high water table at 2.0 to 3.5 ft. and is on sideslopes and rises on uplands. Slopes are 2 to 6 percent. The native vegetation is hardwoods. The surface layer is silt loam and has moderately low organic matter content (1.0 to 2.0 percent). Permeability is very slow (<0.06 in/hr) in the most restrictive layer above 60 inches. Available water capacity is low (5.9 inches in the upper 60 inches). The pH of the surface layer in non-limed areas is 5.1 to 6.0. Droughtiness and water erosion are management concerns for crop production.

Map Unit: Br - Brookston Silty Clay Loam

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



FLOOD STATEMENT
 THIS SITE DOES NOT LIE WITHIN A ZONE "A"
 PER FIRM 18057C0129G
 DATED NOV. 19, 2014

BASED ON THE FEMA BASE FLOOD ELEVATION
 FOR THIS AREA, THERE WILL BE NO POTENTIAL
 FLOODING OF THIS PROPERTY VIA OUTFALL OR
 STORM PIPING SYSTEMS.



INDEX	
SHT.	DESCRIPTION
C001	COVER SHEET
C100	TOPOGRAPHICAL SURVEY
C200-C201	SITE DEVELOPMENT/EMERGENCY OVERFLOW ROUTE PLAN
C300-C308	INITIAL STORM WATER POLLUTION & PREVENTION PLAN TEMPORARY STORM WATER POLLUTION & PREVENTION PLAN PERMANENT SEDIMENT & EROSION CONTROL PLAN STORM WATER POLLUTION & PREVENTION SPECIFICATIONS STORM WATER POLLUTION & PREVENTION DETAILS
C400-C405	STREET PLAN & PROFILES ENTRANCE AND INTERSECTION DETAILS TRAFFIC CONTROL PLAN MAILBOX PLAN AND DETAILS
C500	SANITARY SEWER PLAN & PROFILE
C600-C601	STORM SEWER PLAN & PROFILES SUBSURFACE DRAIN PLAN
C700-C702	WATER PLAN WATER DETAILS
C800	CONSTRUCTION DETAIL
C900-C905, C910	LANDSCAPE PLAN

NOBLESVILLE DETAILS INDEX	
SHT.	DESCRIPTION
1	DIRECTIONS FOR USE, & GENERAL NOTES
2	RIGHT-OF-WAY & UTILITY ESMT. GUIDELINES
3	PAVEMENT, CURB & SIDEWALK DETAILS AND NOTES
4	STORM SEWER BEDDING DETAILS AND NOTES
5	STORM SEWER MANHOLES, INLETS, & GENERAL NOTES
6	SANITARY SEWER BEDDING DETAILS AND NOTES
7	SANITARY SEWER DETAILS AND NOTES
8	MISCELLANEOUS DETAIL AND NOTES I
9	SIGN, DRIVEWAY, AND DECORATIVE SIDEWALK DETAILS
10	MISCELLANEOUS DETAILS AND NOTES III
11	STREET CUT DETAILS
12	STREET LIGHTING & TRAFFIC SIGNAL STANDARDS, DETAILS AND NOTES
13	LANDSCAPE PLANTING AND SEEDING DETAILS AND GENERAL NOTES

REVISIONS	
SHT.	DESCRIPTION
ALL	REVISED PER TAC COMMENTS 8/10/18 JAW
ALL	REVISED PER CITIZENS & BUILDER COMMENTS 9/10/18 KJM
C200, C302, C305, C600, & C800	REVISED PER CITY COMMENTS 10/15/18 ADG
ALL	REVISED PER CITY COMMENTS 11/20/18 KJM
C300's	REVISED PER MS4 COMMENTS 12/18/18

STREET INVENTORY (by segments)		
STREET	SEGMENT	CL. LENGTH
EDWARDS GROVE WAY	0+00.00 - 5+24.94, 0+00.00 - 3+50.73	875.67 L.F.
CHESTNUT GROVE LANE	0+00.00 - 1+34.50	134.50 L.F.
TOTAL		1,010.17 L.F.

SIDEWALK INVENTORY	
SIZE	LENGTH
FULLY DEVELOPED	2,158 L.F.

SANITARY SEWER STRUCTURE		
MANHOLE	DEPTH	NUMBER
TYPE "A"	8' - 10'	1
TYPE "A"	10' - 12'	1
TOTAL		2

STORM SEWER STRUCTURE		
INLET	DEPTH	NUMBER
TYPE "E"	2' - 4'	1
TYPE "E"	4' - 6'	1
TYPE "E"	2' - 4'	3
TOTAL		5

CURB	
TYPE	LENGTH
Roll Curb	2,076 L.F.

SANITARY SEWER PIPE		
PIPE	DEPTH	LENGTH
6" PVC SDR 35	8' - 10'	286 L.F.
8" PVC SDR 26	10' - 12'	318 L.F.
TOTAL		604 L.F.

STORM SEWER PIPE		
PIPE	DEPTH	LENGTH
12" RCP Type 3	2' - 4'	367 L.F.
12" RCP Type 3	4' - 6'	48 L.F.
15" RCP Type 3	2' - 4'	32 L.F.
18" RCP Type 3	2' - 4'	142 L.F.
21" RCP Type 3	2' - 4'	70 L.F.
TOTAL		659 L.F.

REGULARITY SIGNS	
TYPE	NUMBER
STOP SIGN	1
STREET SIGN	1
SPEED LIMIT SIGN	1
TOTAL	3

STORM SEWER PIPE		
PIPE	DEPTH	LENGTH
12" RCP Type 3	2' - 4'	367 L.F.
12" RCP Type 3	4' - 6'	48 L.F.
15" RCP Type 3	2' - 4'	32 L.F.
18" RCP Type 3	2' - 4'	142 L.F.
21" RCP Type 3	2' - 4'	70 L.F.
TOTAL		659 L.F.

STREET LIGHTING	
TYPE	NUMBER
City Std. Decorative	3

SUB-SURFACE DRAIN		
PIPE	DEPTH	LENGTH
6" HDPE Type SSD	2' - 4'	1,563 L.F.
TOTAL		1,563 L.F.

DESIGN DATA
 29 LOTS
 7,676 AC.

DESIGN SPEED LIMIT: 25 M.P.H

UTILITY CONTACTS

Cable:
 Comcast Cable
 5330 East 65th Street
 Indianapolis, Indiana 46220
 Ph: (317) 275-6493
 Attn: Matthew Stringer

Fiber Optic:
 McLeod USA
 6400 C Street SW
 P.O. Box 3177
 Cedar Rapids, IA 52406
 Ph: (317) 697-2863
 Attn: Steve

Electric:
 Duke Energy Indiana
 100 South Mill Creek Road
 Noblesville, Indiana 46062
 Ph: (317) 776-5565
 Attn: Jessica Herrington

Gas:
 Vectren Energy Delivery
 16000 Allisonville Road
 Noblesville, Indiana 46060
 Ph: (317) 776-5537
 Attn: Cathy Missen

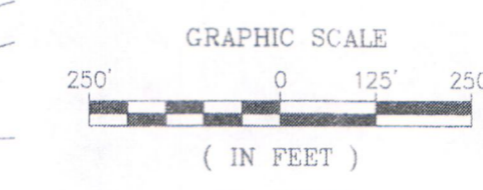
Sanitary Sewer:
 City of Noblesville
 Wastewater Department
 197 West Washington Street
 Noblesville, Indiana 46060
 Ph: (317) 776-6353

Storm Sewer:
 City of Noblesville
 Department of Engineering
 16 South 10th Street, Suite 155
 Noblesville, Indiana 46060
 Ph: (317) 776-6330

Streets:
 City of Noblesville
 Department of Engineering
 16 South 10th Street, Suite 155
 Noblesville, Indiana 46060
 Ph: (317) 776-6330

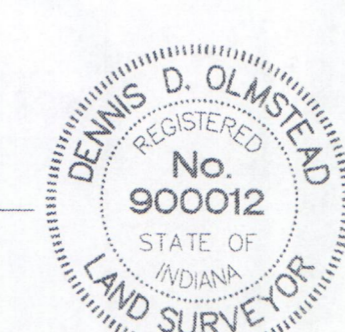
Telephone:
 AT&T
 5658 North College Avenue
 Indianapolis, Indiana 46220
 Ph: (317) 252-4267
 Attn: Brian Petrus

Water:
 Citizens Energy Group/CWA Authority
 2150 Dr. Martin Luther King Jr. Street
 Indianapolis, IN 46202
 Ph: (317) 927-4351
 Attn: Brad Homelster



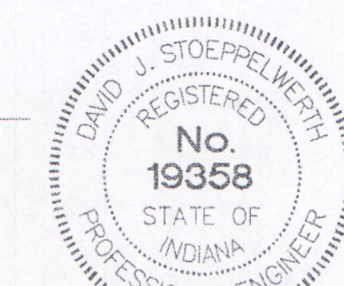
RECORD DRAWING

Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 8/2/2019



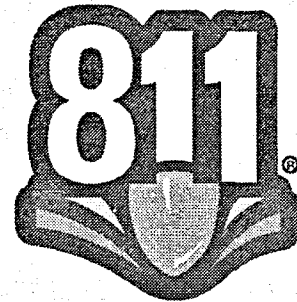
PLANS PREPARED BY:
STOEPPELWERTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS & LAND SURVEYORS
 7965 EAST 106TH STREET
 FISHERS, INDIANA 46038
 PHONE: (317)-849-5935
 FAX: (317)-849-5942
 CONTACT PERSON: BRETT A. HUFF
 EMAIL: bhuff@stoepfelwerth.com

PLANS CERTIFIED BY:
 David J. Stoepfelwerth 06/29/18
 DAVID J. STOEPPELWERTH DATE
 PROFESSIONAL ENGINEER
 NO. 19358



S:\31083PLA-S2\DWG\C001 Cover Sheet.dwg - C001
 July 31, 2019 4:47:46 PM / alexander
 August 2, 2019 1:09:20 PM / Leroy Alexander

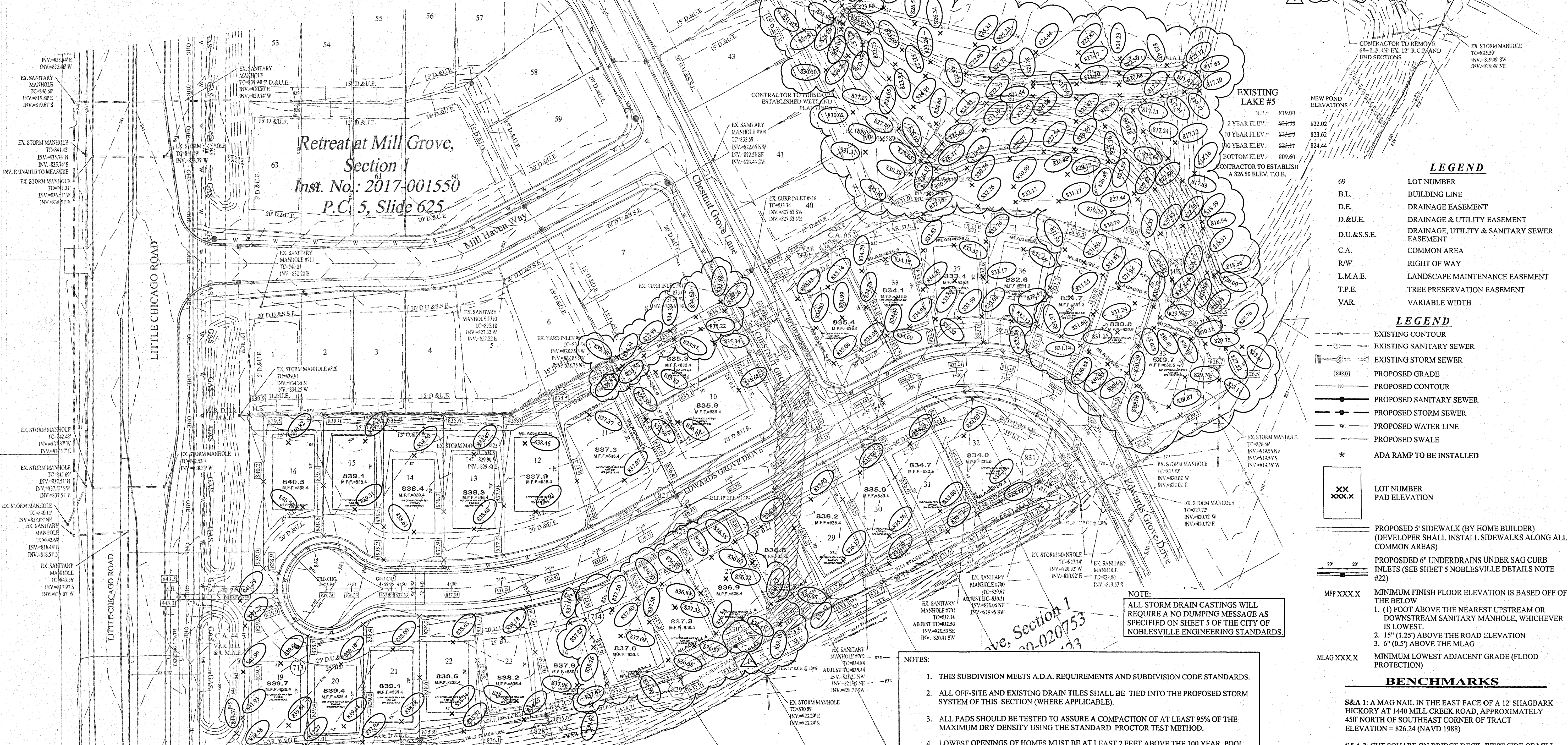
S & A JOB No. 31083PLA-S2



Know what's below. Call before you dig.



S:\31033PLA-S2\DWG\C200 Site Development Plan.dwg - C200
September 19, 2019 10:45:17 AM / Alexander
September 19, 2019 11:00:03 AM / Lacey Alexander
Modified By:
Plotted By:



Retreat at Mill Grove,
Section 1
Inst. No.: 2017-001550
P.C. 5, Slide 625

LEGEND

69	LOT NUMBER
B.L.	BUILDING LINE
D.E.	DRAINAGE EASEMENT
D.&U.E.	DRAINAGE & UTILITY EASEMENT
D.U.&S.S.E.	DRAINAGE, UTILITY & SANITARY SEWER EASEMENT
C.A.	COMMON AREA
R/W	RIGHT OF WAY
L.M.A.E.	LANDSCAPE MAINTENANCE EASEMENT
T.P.E.	TREE PRESERVATION EASEMENT
VAR.	VARIABLE WIDTH

LEGEND

	EXISTING CONTOUR
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	PROPOSED GRADE
	PROPOSED CONTOUR
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED WATER LINE
	PROPOSED SWALE
*	ADA RAMP TO BE INSTALLED

LEGEND

	LOT NUMBER PAD ELEVATION
	PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
	PROPOSED 6" UNDERDRAINS UNDER SAG CURB INLETS (SEE SHEET 5 NOBLESVILLE DETAILS NOTE #22)
MFF XXX.X	MINIMUM FINISH FLOOR ELEVATION IS BASED OFF OF THE BELOW 1. (1) FOOT ABOVE THE NEAREST UPSTREAM OR DOWNSTREAM SANITARY MANHOLE, WHICHEVER IS LOWEST. 2. 15" (1.25') ABOVE THE ROAD ELEVATION 3. 6" (0.5') ABOVE THE MLAG
MLAG XXX.X	MINIMUM LOWEST ADJACENT GRADE (FLOOD PROTECTION)

BENCHMARKS

S&A 1: A MAG NAIL IN THE EAST FACE OF A 12" SHAGBARK HICKORY AT 1440 MILL CREEK ROAD, APPROXIMATELY 450' NORTH OF SOUTHEAST CORNER OF TRACT ELEVATION = 826.24 (NAVD 1988)

S&A 2: CUT SQUARE ON BRIDGE DECK, WEST SIDE OF MILL CREEK ROAD, 100' SOUTH OF STATE ROAD 38, 4' SOUTH OF NORTH WING WALL ELEVATION = 811.87 (NAVD 1988)

S&A 3: BOAT SPIKE IN POWER POLE 600'- WEST OF MILL CREEK ROAD, POWER POLE HAS NO NUMBER, SPIKE IN NORTH FACE 12" UP ELEVATION = 831.69 (NAVD 1988)

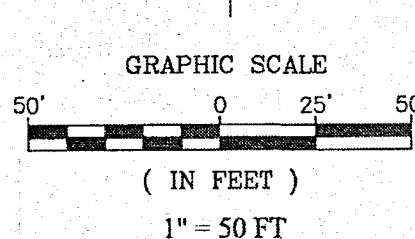
S&A 4: A P.K. NAIL SET IN THE SOUTH FACE OF POWER POLE #88-14 ON EAST SIDE OF LITTLE CHICAGO ROAD, ACROSS FROM ADDRESS 19263 ELEVATION = 843.14 (NAVD 1988)

S&A 5: A P.K. NAIL SET IN THE EAST FACE OF POWER POLE, 550' NORTH OF SOUTHWEST CORNER OF TRACT ELEVATION = 836.29 (NAVD 1988)

- EARTHWORK:**
- EXCAVATION
 - 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.
 - 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.
 - REMOVAL OF TREES
 - 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.
 - PROTECTION OF TREES
 - 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. 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.
 - REMOVAL OF TOPSOIL
 - 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.

- UTILITIES
 - Rules and regulation governing the respective utility shall be observed in executing all work under this section.
 - 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.
- SITE GRADING
 - Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
 - 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.
 - 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.

- NOTES:**
- THIS SUBDIVISION MEETS A.D.A. REQUIREMENTS AND SUBDIVISION CODE STANDARDS.
 - ALL OFF-SITE AND EXISTING DRAIN TILES SHALL BE TIED INTO THE PROPOSED STORM SYSTEM OF THIS SECTION (WHERE APPLICABLE).
 - ALL PADS SHOULD BE TESTED TO ASSURE A COMPACTION OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST METHOD.
 - LOWEST OPENINGS OF HOMES MUST BE AT LEAST 2 FEET ABOVE THE 100 YEAR POOL ELEVATION OF THE NEAREST POND
 - 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.
 - IF EXISTING FIELD TILES ARE ENCOUNTERED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERPETUATE THESE FIELD TILES INTO THE PROPOSED STORM SEWER SYSTEM. CONTRACTOR SHALL COORDINATE THESE CONNECTIONS WITH THE HAMILTON COUNTY'S SURVEYOR'S OFFICE AT 317-776-8495.
 - CONTRACTOR SHALL STAMP THE LETTER "S" IN THE CURB OF THE ROAD PERPENDICULAR TO THE LATERAL MARKER.
 - IT IS RECOMMENDED THAT ANY BASEMENT FLOOR IS AT LEAST A FOOT ABOVE THE NORMAL POOL ELEVATION TO AVOID THE OVERUSE OF SUMP PUMPS AND POTENTIAL FREQUENT FLOODING OF BASEMENTS.
 - SEE NOBLESVILLE STANDARD DETAILS (SHEET 5) FOR SWALE SPECIFICATIONS.
 - SEE NOBLESVILLE STANDARD DETAILS (SHEET 10) FOR LATERAL TO THE REAR YARD SWALE SPECIFICATIONS.
 - THE BUILDINGS LOWEST ENTRY ELEVATION THAT IS ADJACENT TO AND FACING A ROAD SHALL BE A MINIMUM OF 15" ABOVE THE ROAD ELEVATION.
 - SEE SHEETS C601 FOR SUB SURFACE DRAIN INFORMATION.
 - ALL STORM DRAIN CASTINGS WILL REQUIRE A NO DUMPING MESSAGE AS SPECIFIED ON SHEET 5 OF THE CITY OF NOBLESVILLE ENGINEERING STANDARDS.



SPILLWAY
NOT-TO-SCALE

STOEPPELWERTH
ALWAYS ON
7945 East 106th Street, Fishers, IN 46038-2505
phone: 317.849.5925 fax: 317.849.5942

REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA
CERTIFIED: 06/29/18
David J. Stoepfelwirth

SITE DEVELOPMENT PLAN
RETREAT AT MILL GROVE
SECTION 2
HAMILTON COUNTY, INDIANA

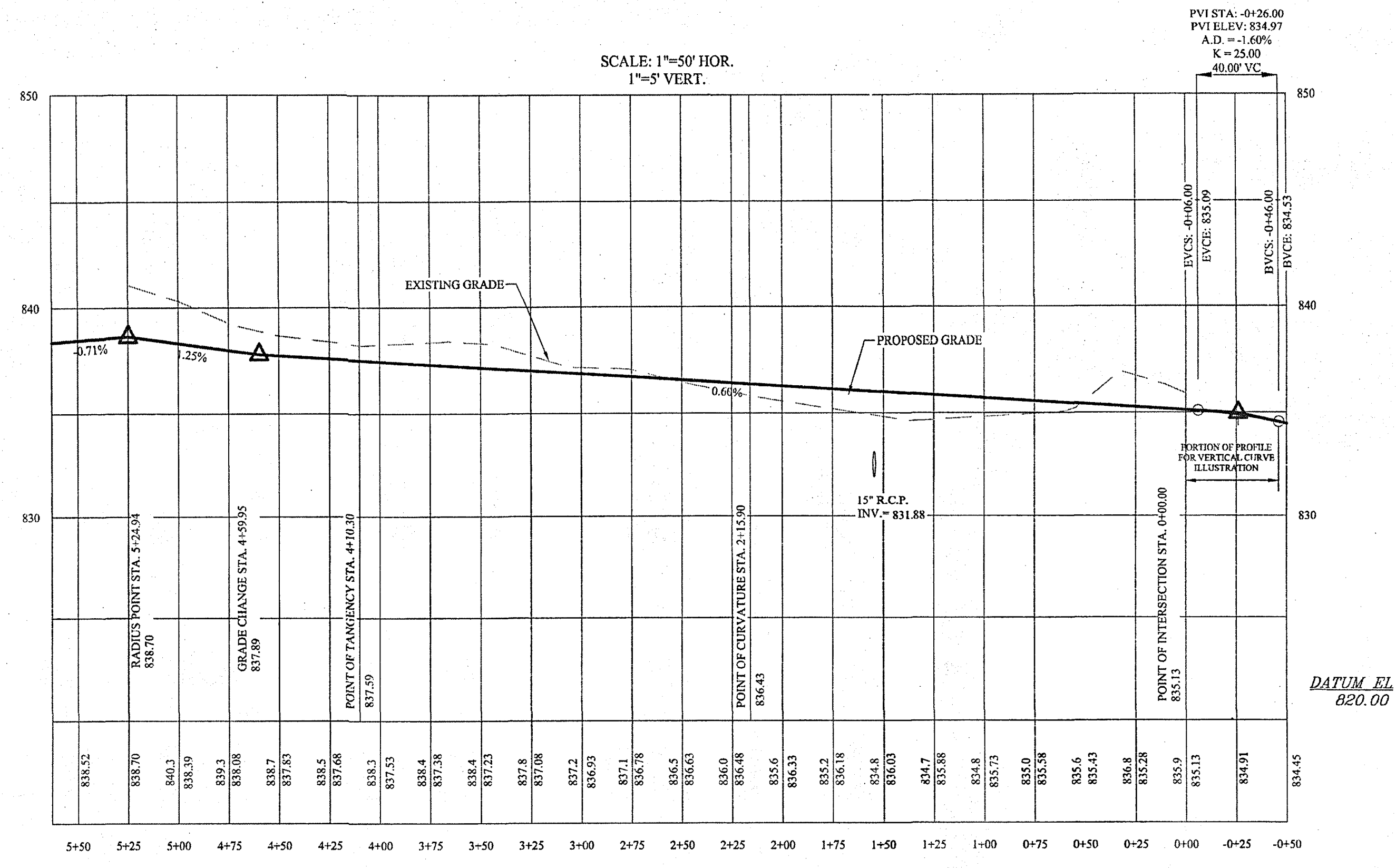
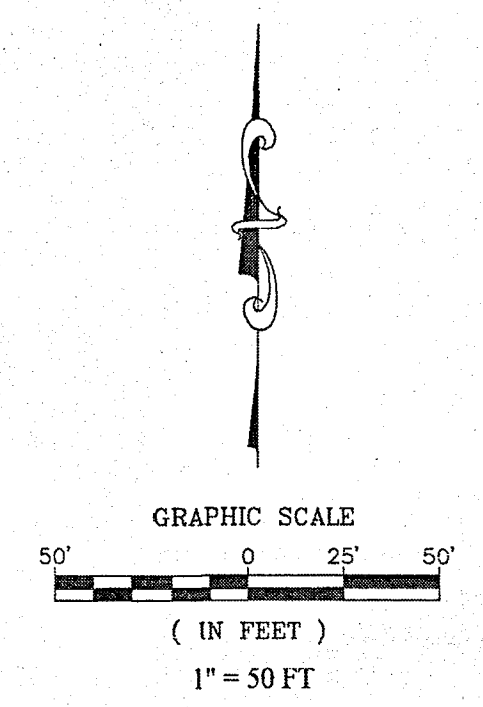
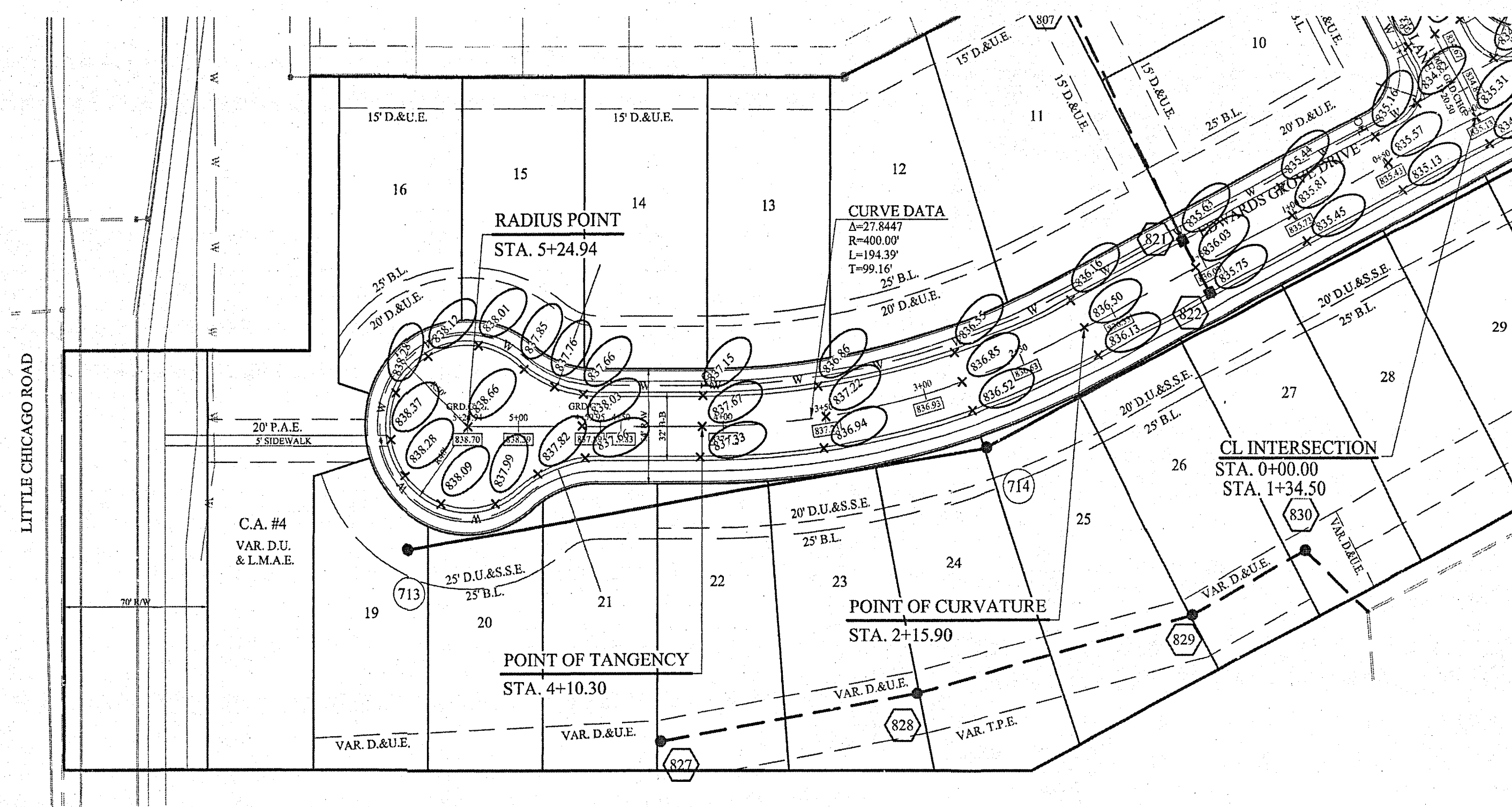
RECORD DRAWING

D.D.R.C.
Dennis D. Olmstead
Registered Land Surveyor
No. 900012
9/20/2019

REGISTERED LAND SURVEYOR
No. 900012
STATE OF INDIANA

DRAWN BY: JAW CHECKED BY: BAH
SHEET NO: C200
S & A JOB NO: 31083PLA-S2

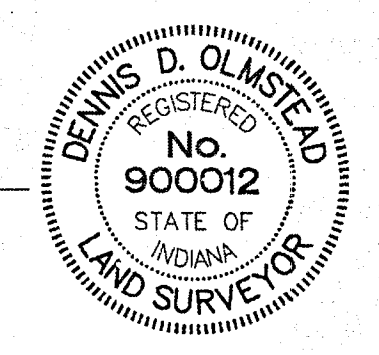
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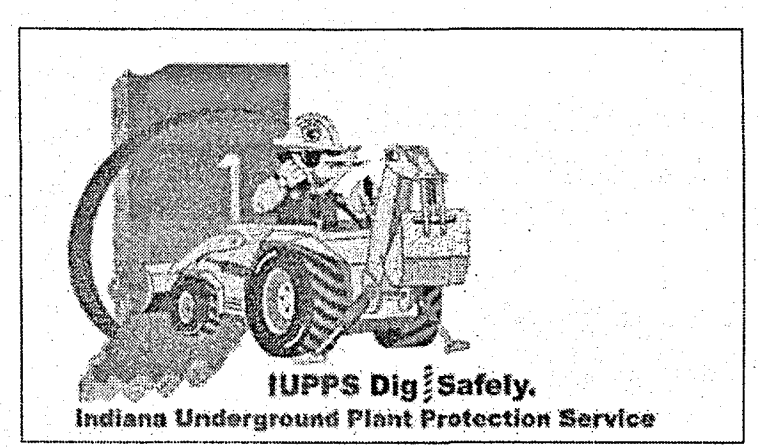
EDWARDS GROVE DRIVE - W

RECORD DRAWING

D.O.
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 8/2/2019



Know what's below.
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DATE	MARK	REVISIONS
08/02/19		REVISED PER CITY COMMENTS
08/02/19		AS NOTED
08/10/18		REVISED PER CITIZENS & BUILDER COMMENTS
08/10/18		REVISED PER TAC COMMENTS
		BY

THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACTION OR ORIGINAL BOUNDARY SURVEY. A ROUTE REPORT IS REQUIRED FOR A SURVEY LOCATION.

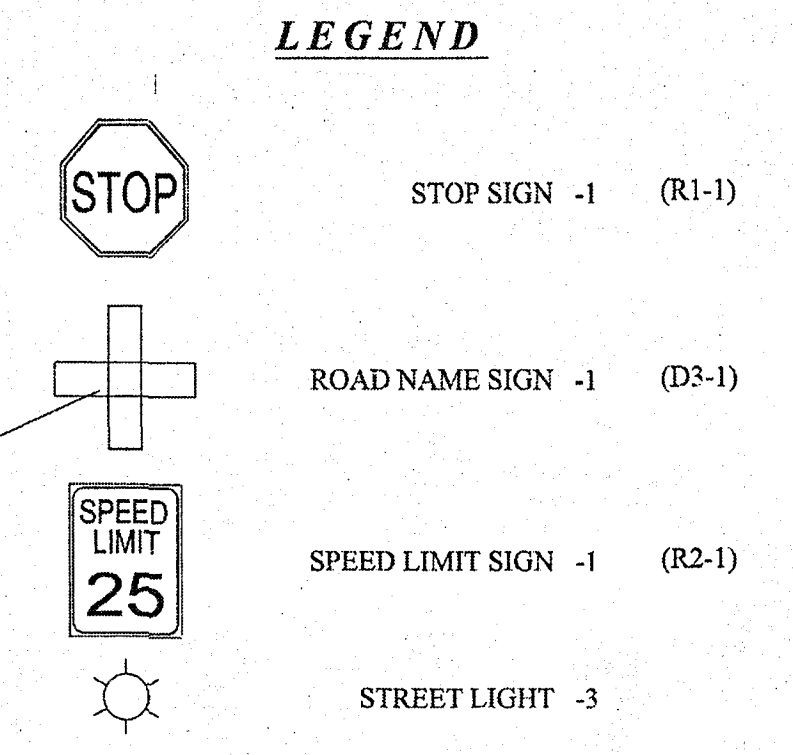
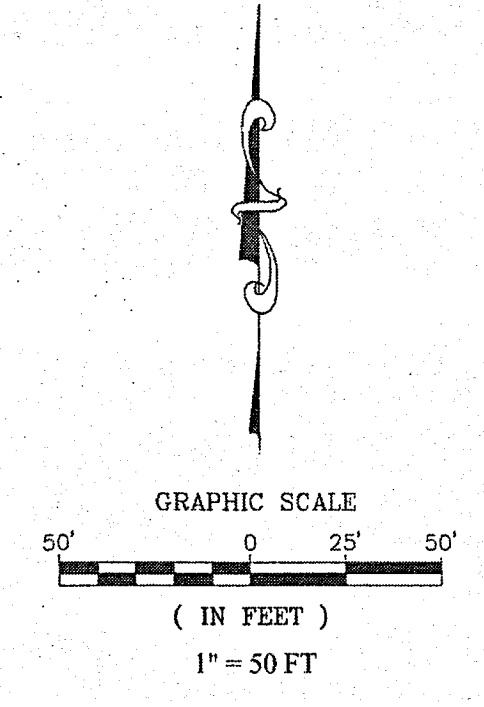
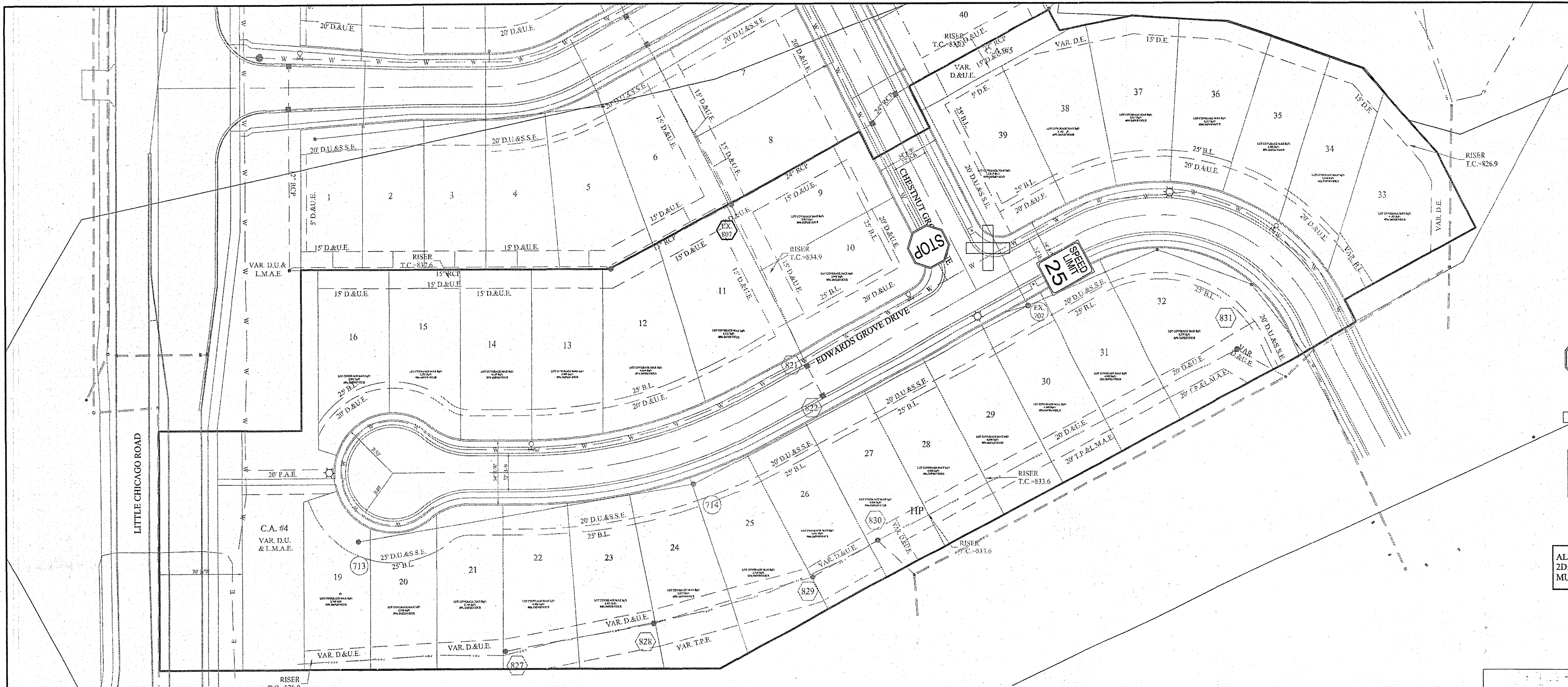
CERTIFIED: 06/29/18
Dennis D. Olmstead
 REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA

STOEPPELWERTH
 ALWAYS ON
 785 East 10th Street, Fishers, IN 46038-2505
 phone: 317.849.2953 fax: 317.849.2942

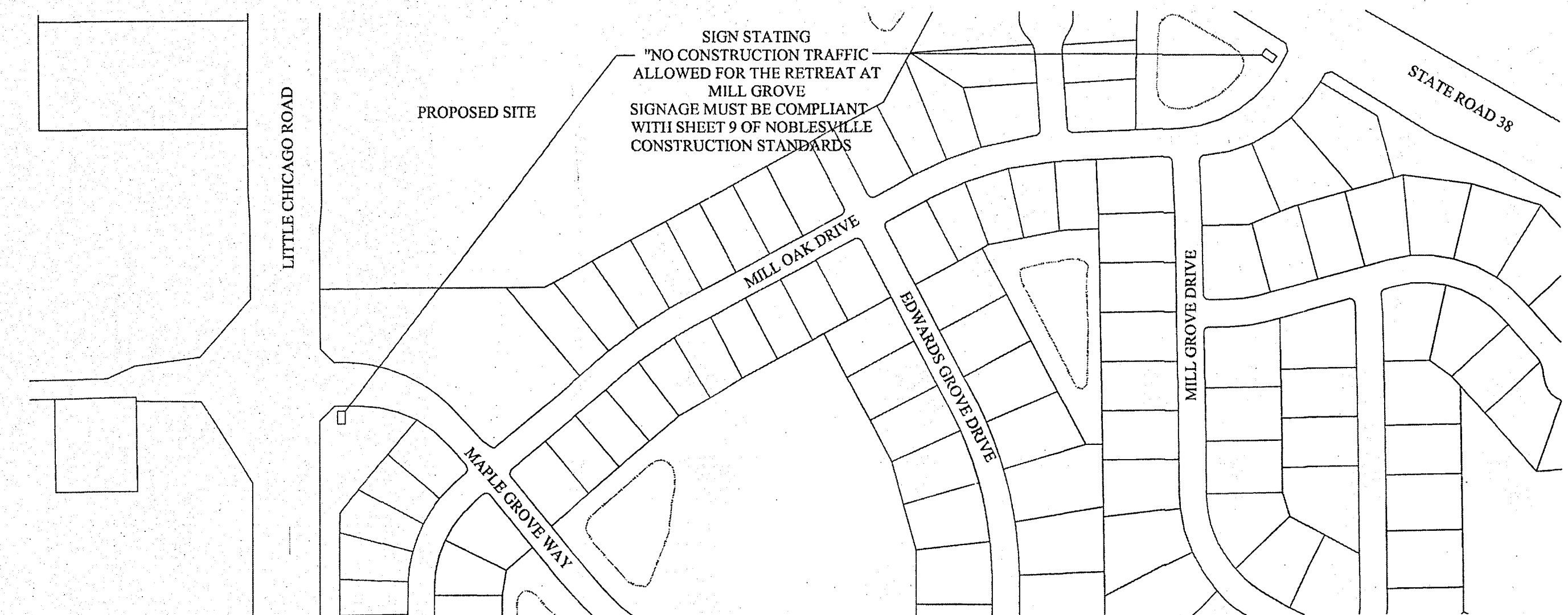
STREET PLAN & PROFILES
 RETREAT AT MILL GROVE
 SECTION 2
 NOBLESVILLE, NOBLESVILLE TOWNSHIP, HAMILTON COUNTY, INDIANA

DRAWN BY: JAW
 CHECKED BY: BAH

SHEET NO.
C400
 S & A JOB NO.
 31083PLA-S2



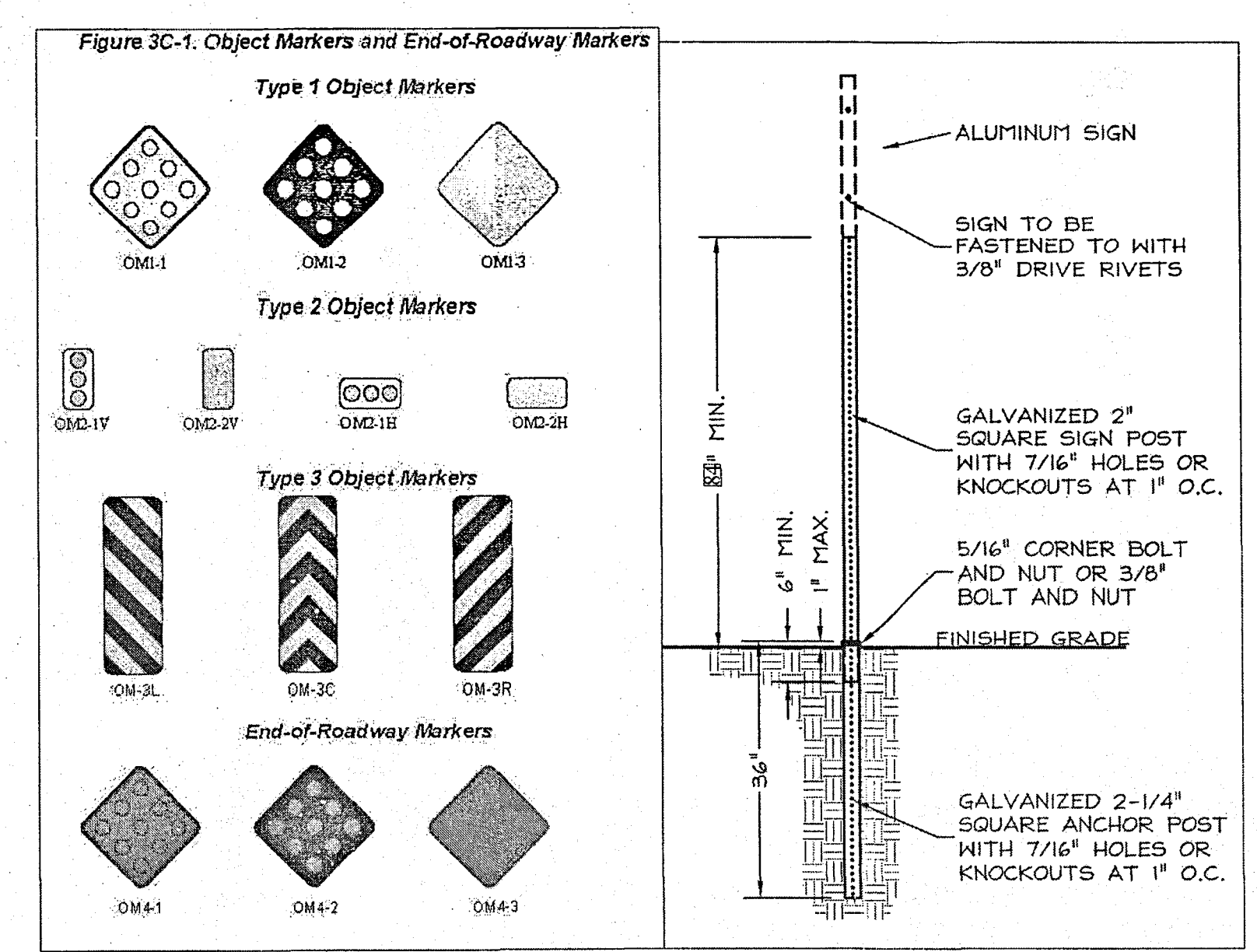
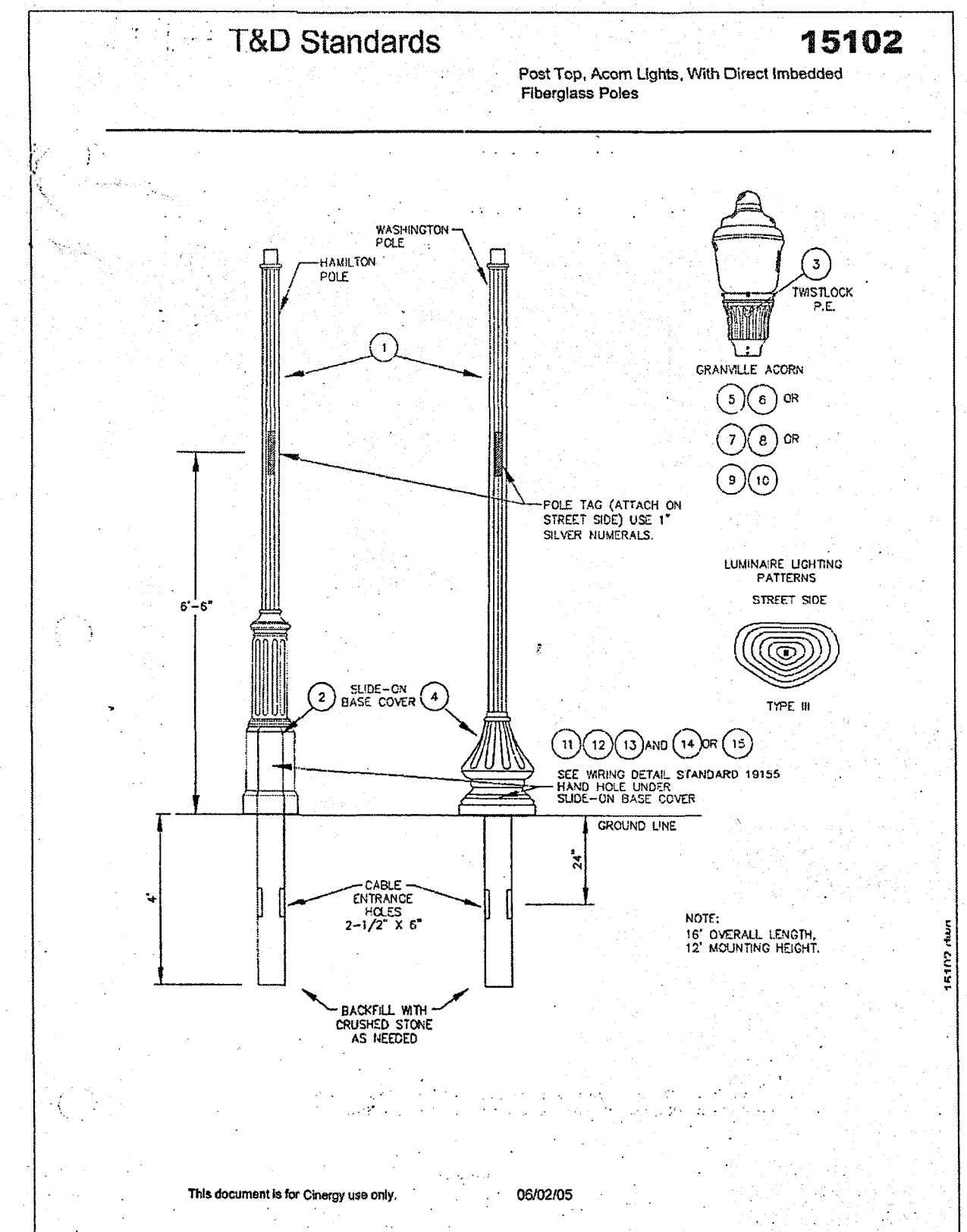
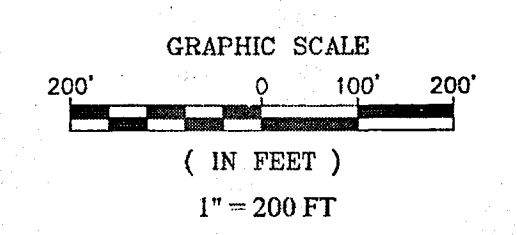
ALL TRAFFIC CONTROL SIGNS SHALL MEET CHAPTER 2D: GUIDE SIGNS-CONVENTIONAL ROADS OF THE MUTCD MANUAL 2009 EDITION.



SIGN STATING
"NO CONSTRUCTION TRAFFIC ALLOWED FOR THE RETREAT AT MILL GROVE SIGNAGE MUST BE COMPLIANT WITH SHEET 9 OF NOBLESVILLE CONSTRUCTION STANDARDS"

RECORD DRAWING

Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 8/2/2019



- NOTES:**
- 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.
 - SEE CITY OF NOBLESVILLE CONSTRUCTION DETAIL SHEET 9 OF 13 FOR DETAILS & SPECIFICATIONS FOR REGULATORY SIGNS.
 - SEE CITY OF NOBLESVILLE CONSTRUCTION DETAIL SHEET 9 OF 13 FOR DETAILS & SPECIFICATIONS FOR STREET SIGNS.
 - SEE DETAILS THIS SHEET FOR ALTERNATIVE TO THE CITY STANDARDS FOR STREET LIGHTING.
 - ALL TRAFFIC CONTROL SIGNS SHALL MEET CHAPTER 2D: GUIDE SIGNS-CONVENTIONAL ROADS OF THE MUTCD MANUAL 2009 EDITION.
 - ENGINEERING INSPECTION STAFF MUST BE NOTIFIED 48 HOURS PRIOR TO COMMENCING WITH SIGN OR LIGHT INSTALLATION.

ENGINEERING INSPECTION STAFF MUST BE NOTIFIED 48 HOURS PRIOR TO COMMENCING WITH SIGN OR LIGHT INSTALLATION.

Section 3C.04 End-of-Roadway Markers

Support:
The end-of-roadway marker is used to warn and alert road users of the end of a roadway in other than construction or maintenance areas.

Standard:
The end-of-roadway marker (see Figure 3C-1) shall be one of the following: a marker consisting of nine red retroreflectors, each with a minimum diameter of 75 mm (3 in), mounted symmetrically on a red (OM4-1) or black (OM4-2) diamond panel 450 mm (18 in) or more on a side; or a retro-reflective red diamond panel (OM4-3) 450 mm (18 in) or more on a side.

Option:
The end-of-roadway marker may be used in instances where there are no alternate vehicular paths.

Where conditions warrant, more than one marker, or a larger marker with or without a Type III barricade (see Section 3E.01), may be used at the end of the roadway.

Standard:
The minimum mounting height to the bottom of an end-of-roadway marker shall be 1.2 m (4 ft) above the edge of the pavement.

Guidance:
Appropriate advance warning signs (see Chapter 2C) should be used.

811

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Indiana Underground Plant Protection Service

STOEPPELWERTH

ALWAYS ON

7945 East 100th Street, Fishers, IN 46038-2505
phone: 317.890.5935 fax: 317.890.5942

TRAFFIC CONTROL PLAN

RETREAT AT MILL GROVE

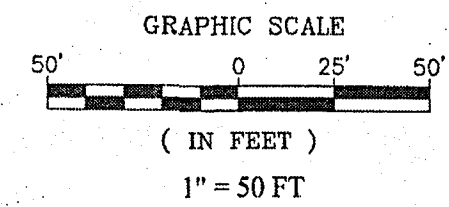
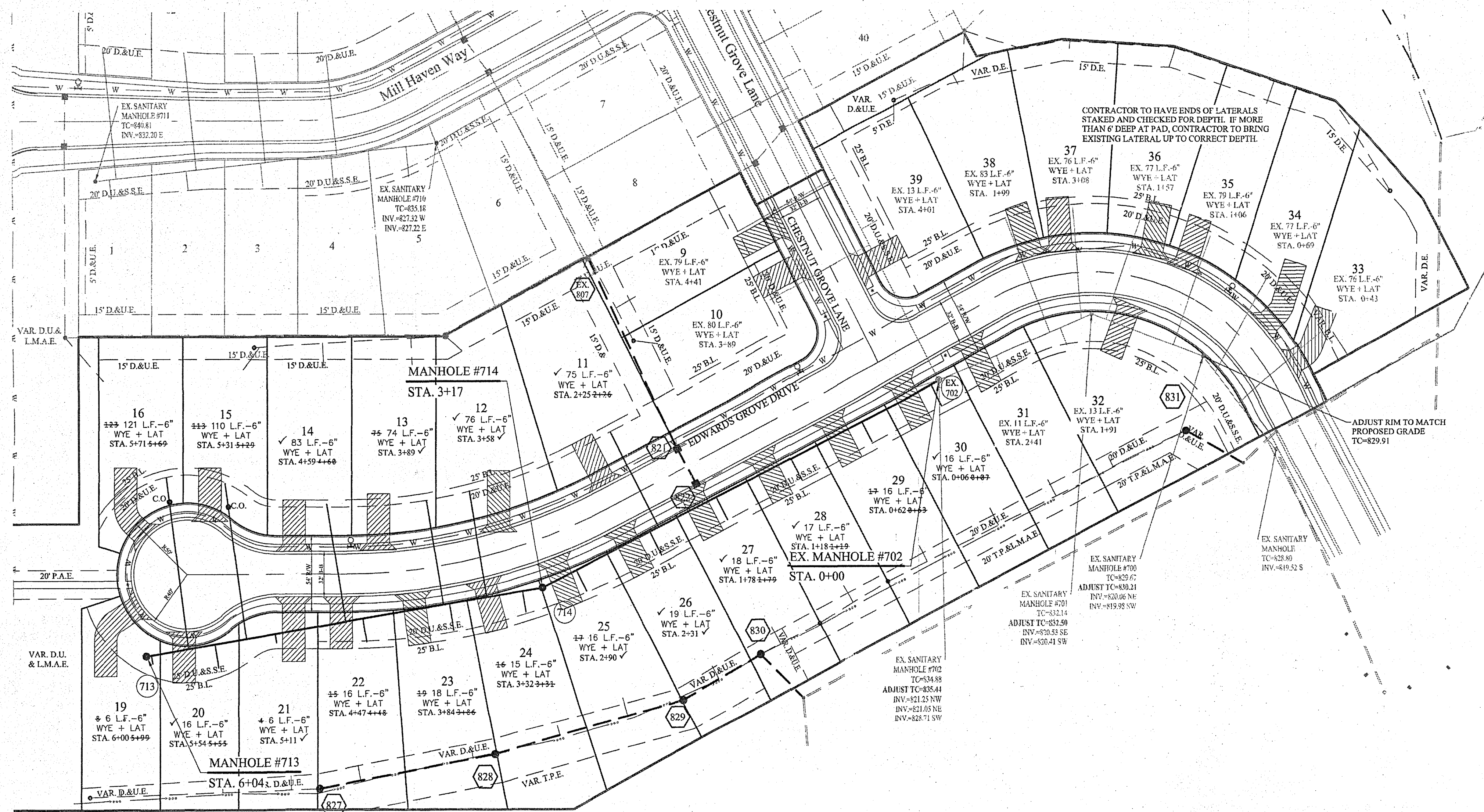
SECTION 2

NOBLESVILLE, NOBLESVILLE TOWNSHIP, HAMILTON COUNTY, INDIANA

DRAWN BY: JAW
 CHECKED BY: BAH
 SHEET NO. C403
 31083PLA-S2

REVISIONS PER CITY COMMENTS
 AS BUILT
 REVISED PER CITY COMMENTS
 REVISED PER CITY COMMENTS
 DATE: MARK:

THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY. A ROUTE REPORT OR A SURVEYOR LOCATION REPORT.
 CERTIFIED: 06/29/18
 David J. Stoepfelwerth



- LEGEND**
- EXISTING SANITARY SEWER
 - EXISTING STORM SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM SEWER
 - PROPOSED WATER LINE

NOTES

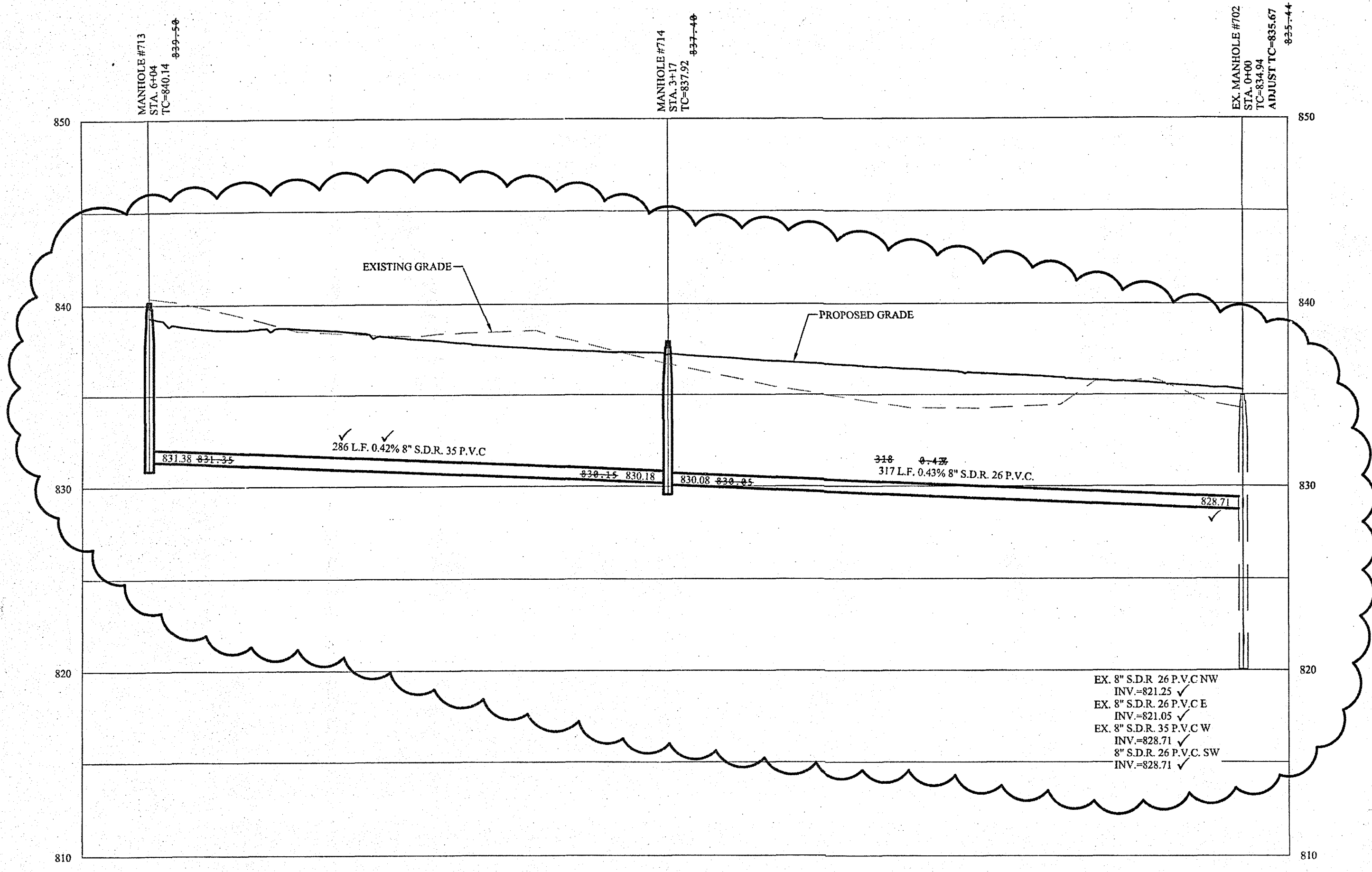
FULL DEPTH GRANULAR BACKFILL SHALL BE INSTALLED PER NOBLESVILLE STANDARDS. SEE SHEET 6 OF 16 OF THE CITY OF NOBLESVILLE DETAILS FOR SPECIFICATIONS.

MIN. SLOPES PER THE TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.

CONTRACTOR SHALL INSTALL LATERAL NO CLOSER THAN 5' FROM BUILDING LINE AND NO GREATER THAN 6' DEEP AT LATERAL END.

REFER TO THE NOBLESVILLE CONSTRUCTION STANDARDS FOR DETAILS OF LATERAL STUBS.

WHERE WATERMAIN AND SANITARY SEWERS CROSS, A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE MUST BE MAINTAINED. IF THE 18 INCH VERTICAL SEPERATION CANNOT BE MAINTAINED, THE SEWER MUST BE CONSTRUCTED OF WATERWORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS WITHIN 10 FEET OF THE WATERMAIN.



**SANITARY SEWER
STRUCTURE & PIPE TABLE**

STR.#	TYPE	T.C.	CASTING TYPE	DIA. IN	DIR. IN	INV. IN	DIA. OUT	DIR. OUT	INV. OUT	SLOPE	PIPE	LENGTH	MATERIAL	
702	EX. MANHOLE	835.10	EXISTING	8"	SW	821.25	8"	E	821.05	0.44%	113	316'	S.D.R. 26 P.V.C	
						828.71						171	118'	S.D.R. 26 P.V.C
						828.71						1179	19'	S.D.R. 35 P.V.C
713	MANHOLE	840.30	R-1772				8"	E	831.38	0.42%	5	286'	S.D.R. 35 P.V.C	
714	MANHOLE	838.10	R-1772	8"	W	830.18	8"	NE	830.08	0.43%	5	317'	S.D.R. 35 P.V.C	

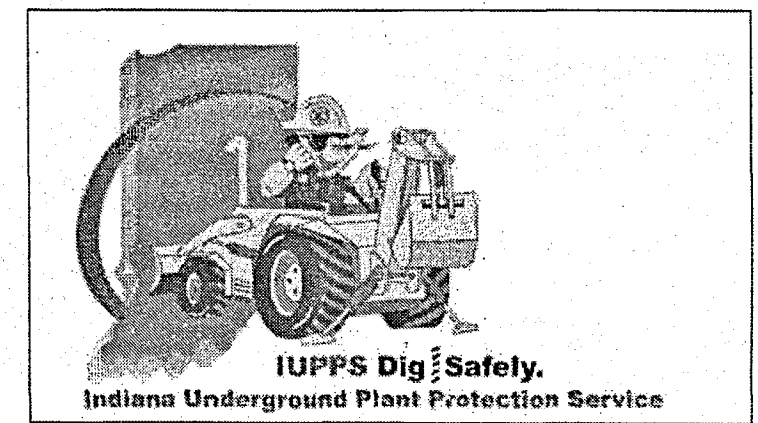
SEE PROFILE FOR TC ADJUST ON EX. MANHOLE 702

RECORD DRAWING

D.O.
Dennis D. Olmstead
Registered Land Surveyor
No. 900012

8/2/2019

REGISTERED
No. 900012
STATE OF INDIANA
LAND SURVEYOR



STOEPPELWERTH
ALWAYS ON
7905 East 106th Street, Fishers, IN 46038-2905
phone: 317.849.5925 fax: 317.849.5242

**SANITARY SEWER PLAN & PROFILES
RETREAT AT MILL GROVE
SECTION 2**

NOBLESVILLE, NOBLESVILLE TOWNSHIP, HAMILTON COUNTY, INDIANA

DATE	MARK	REVISIONS
07/20/19		SANITARY AS BUILT
04/04/19		REVISED PER AS BUILT
11/20/18		REVISED PER CITY COMMENTS
09/10/18		REVISED PER CITIZENS & BUILDER COMMENTS
08/10/18		REVISED PER TAC COMMENTS

DAVID J. STOEPPELWERTH
REGISTERED
No. 19358
STATE OF INDIANA
PROFESSIONAL ENGINEER

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

CERTIFIED: 06/29/18
David J. Stoepfelwerth

DRAWN BY: JAW
CHECKED BY: BAH

SHEET NO.
C500

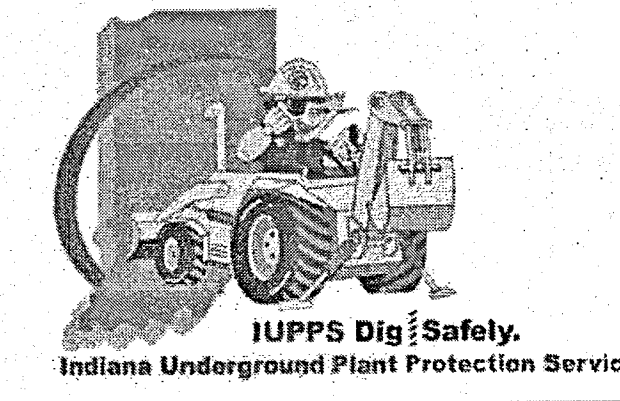
S & A 208 NO.
31083PLA-S2

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August 2, 2019 1:10:35 PM / Leroy Alexander

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 Modified / By: July 31, 2019 3:34:49 PM / Iskander
 Plotted / By: August 2, 2019 11:11:10 PM / Leroy Alexander

RECORD DRAWING

Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012

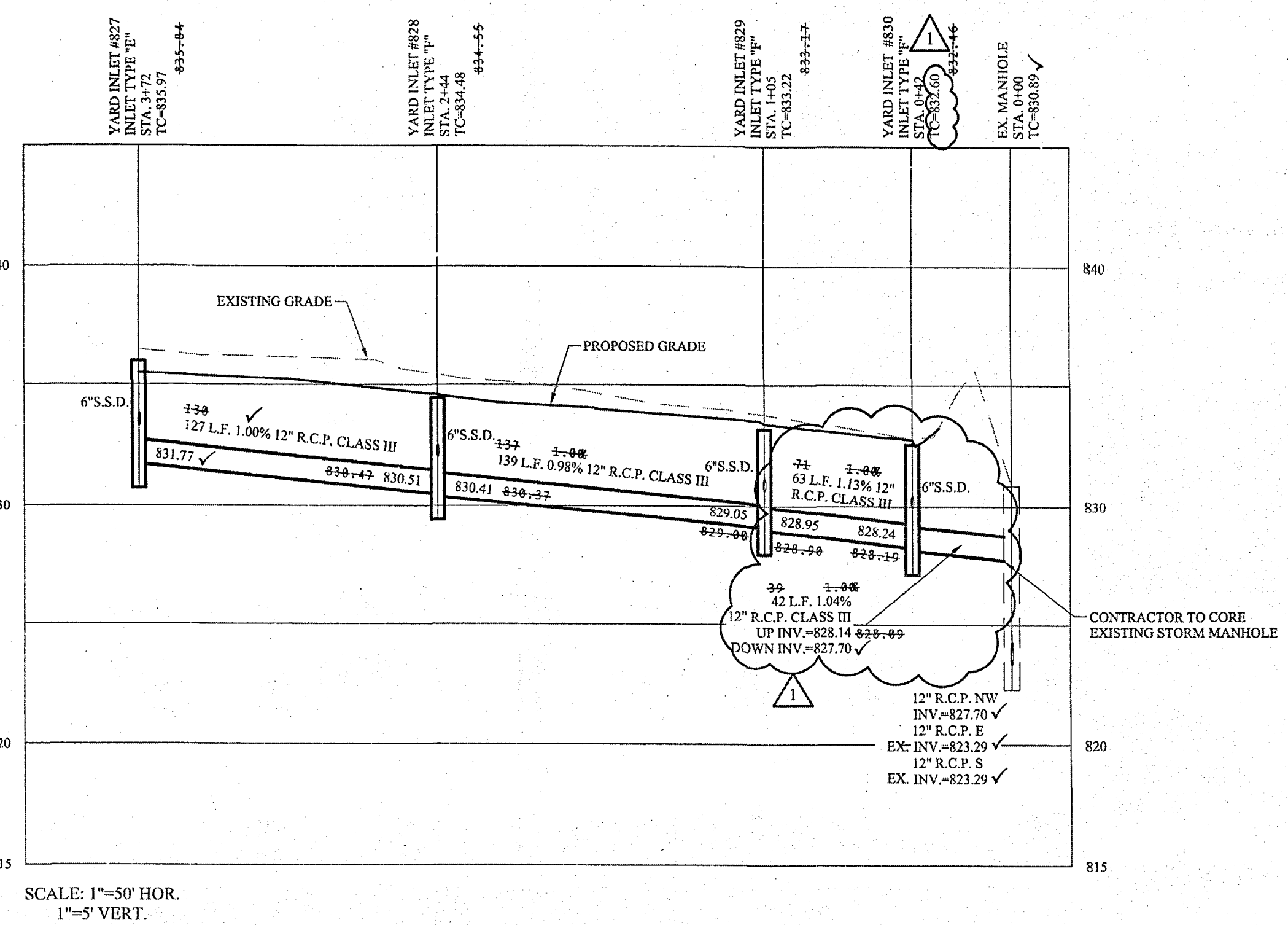
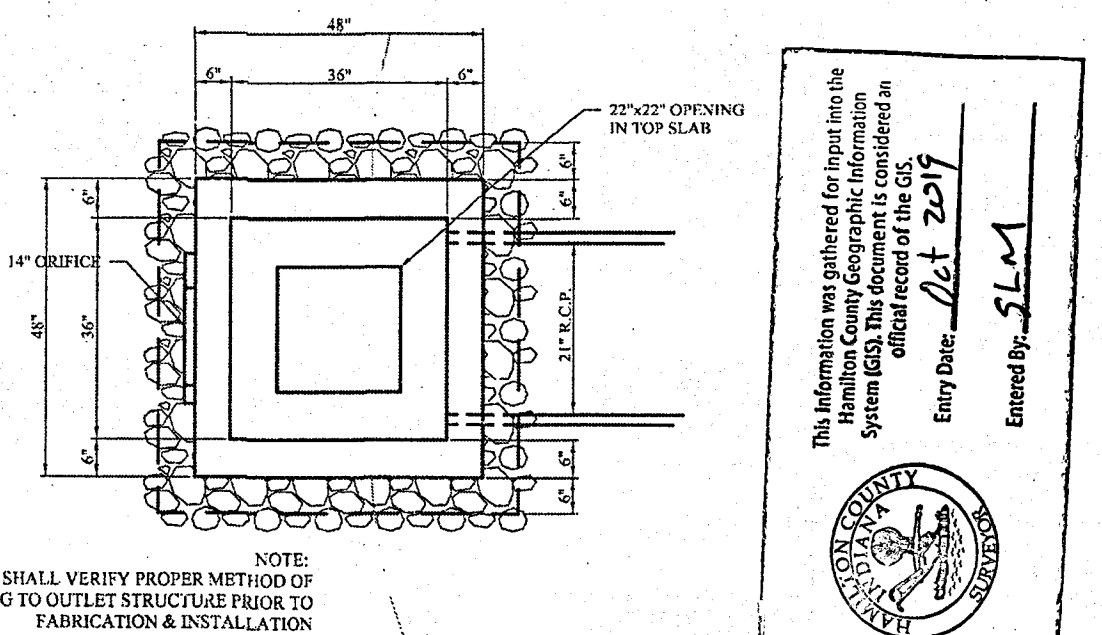
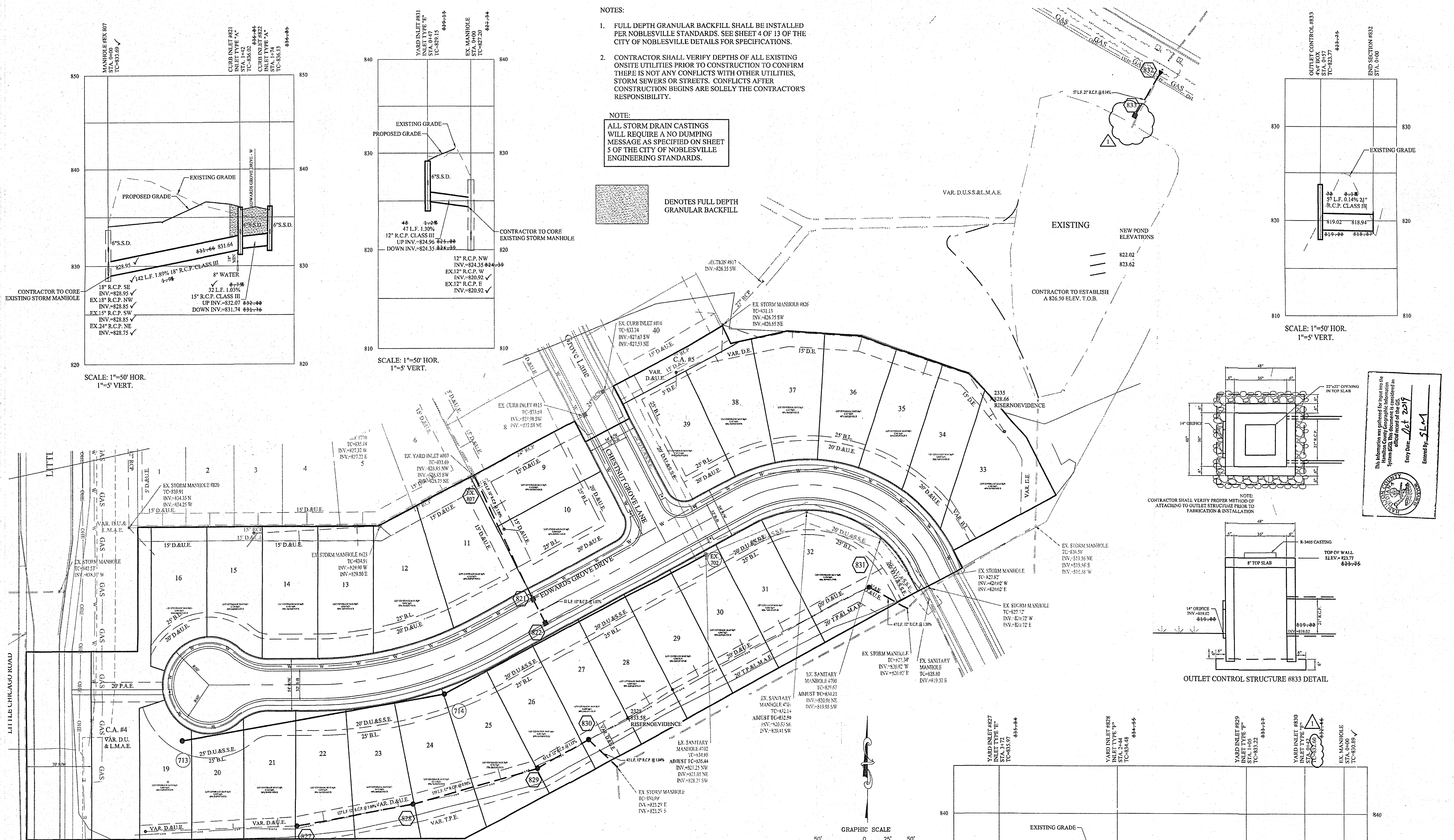


STR.#	CALLOUT	STR. TYPE	T.C.	CASTING TYPE	DIAMETER IN	DIR. IN	INV. IN	DIAMETER OUT	DIR. OUT	INV. OUT	SLOPE	NOTES
EX 3	MANHOLE	EXISTING	827.20	EXISTING	12	NW	827.20					
EX 2	MANHOLE	EXISTING	830.89	EXISTING	12	NW	827.70					
EX 807	YARD INLET	EXISTING	833.69	EXISTING	18	SE	828.95					
821	CURB INLET	INLET TYPE "A"	836.02	R-3501-TR/TL	15	SE	831.74	18	NW	831.64	1.89%	
822	CURB INLET	INLET TYPE "A"	836.13	R-3501-TR/TL	15	SE	831.74	18	NW	832.07	1.03%	
827	YARD INLET	INLET TYPE "E"	835.97	R-4215-C	12	E	831.77	12	E	831.77	1.00%	SEE DETAIL SHEET C800 FOR STR. SPECS.
828	YARD INLET	INLET TYPE "F"	834.48	R-4215-C	12	W	830.51	12	E	830.41	0.98%	SEE DETAIL SHEET C800 FOR STR. SPECS.
829	YARD INLET	INLET TYPE "F"	833.22	R-4215-C	12	W	829.05	12	NE	828.95	1.13%	SEE DETAIL SHEET C800 FOR STR. SPECS.
830	YARD INLET	INLET TYPE "F"	832.60	R-4215-C	12	SW	828.24	12	SE	828.14	1.64%	SEE DETAIL SHEET C800 FOR STR. SPECS.
831	YARD INLET	INLET TYPE "E"	829.15	R-4215-C	12	SE	829.36	12	SE	829.36	1.30%	SEE DETAIL SHEET C800 FOR STR. SPECS.
832	END SECTION		821.00		21	SW	818.94					
833	OUTLET CONTROL	4x4 BOX	823.77	R-3405	21	NE	819.02	21	NE	819.02	0.14%	

- NOTES:
- FULL DEPTH GRANULAR BACKFILL SHALL BE INSTALLED PER NOBLESVILLE STANDARDS. SEE SHEET 4 OF 13 OF THE CITY OF NOBLESVILLE DETAILS FOR SPECIFICATIONS.
 - CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ON-SITE 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.

NOTE:
 ALL STORM DRAIN CASTINGS WILL REQUIRE A NO DUMPING MESSAGE AS SPECIFIED ON SHEET 5 OF THE CITY OF NOBLESVILLE ENGINEERING STANDARDS.

DENOTES FULL DEPTH GRANULAR BACKFILL



STOEPPELWERTH
 ALWAYS ON
 7805 East 10th Street, Fishers, IN 46038-2505
 Phone: 317.849.5255 Fax: 317.849.5242

REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA
 Certified: 06/29/18
 Entered By: JLM

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

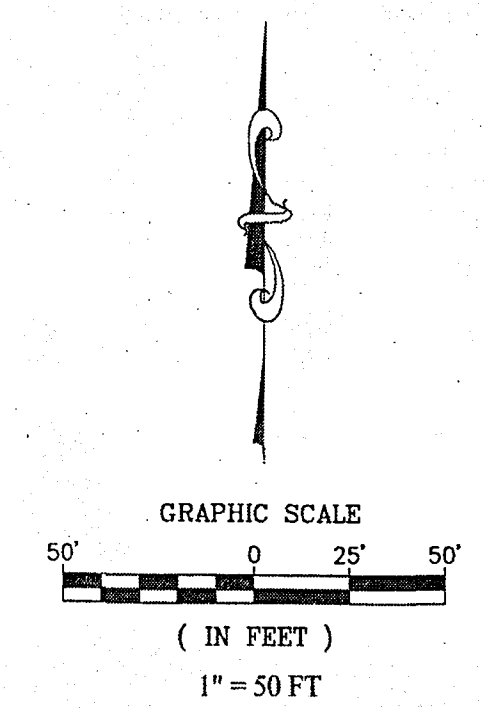
STORM SEWER PLAN & PROFILES
 RETREAT AT MILL GROVE
 SECTION 2
 NOBLESVILLE, INDIANA
 HAMILTON COUNTY, INDIANA

DRAWN BY: JAW CHECKED BY: BAH
 SHEET NO. C600
 S & A FOR NO. 31083PLA-S2

File Name: S:\31083PLA-S2\DWG\C601 Sub-Surface Drain Plan.dwg - C601
 July 31, 2019 2:48:01 PM / Alexey Alexandar
 August 12, 2019 11:12:27 PM / Leroy Alexander
 Modified By:
 Plotted By:



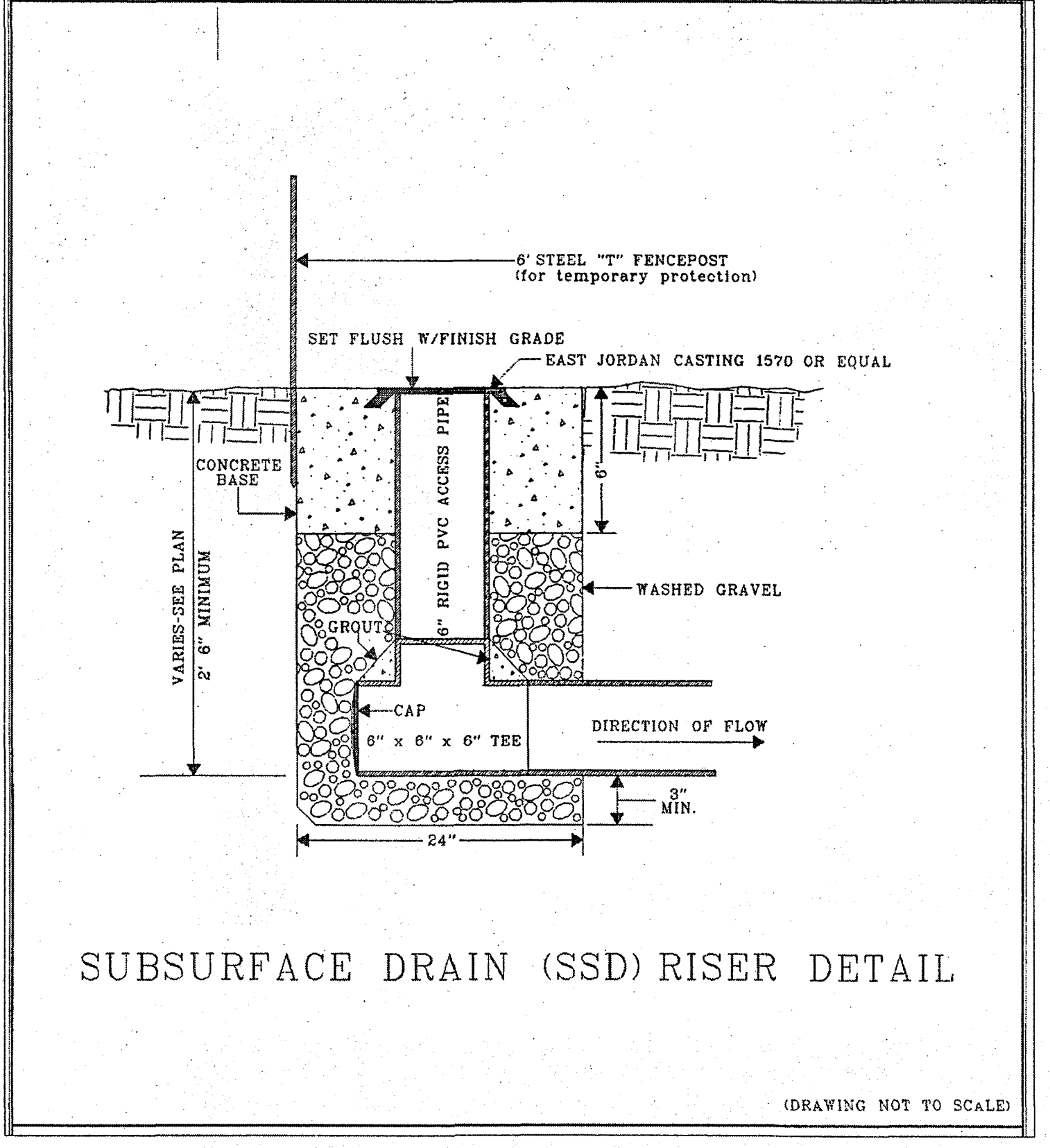
EXISTING LAKE #5
 N.P. = 819.00
 2 YEAR ELEV. = 825.77
 10 YEAR ELEV. = 832.54
 100 YEAR ELEV. = 839.31
 BOTTOM ELEV. = 809.60
 CONTRACTOR TO ESTABLISH A 826.50 ELEV. T.O.B.



- LEGEND**
- EXISTING SANITARY SEWER
 - EXISTING STORM SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM SEWER
 - w— PROPOSED WATER LINE
 - --- --- PROPOSED SWALE
 - — — — PROPOSED 6" SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)

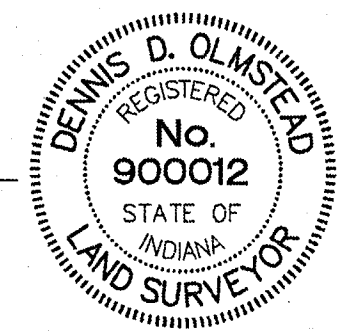
25
844.7
LOT NUMBER
PAD ELEVATION

- LEGEND**
- PROPOSED 6" UNDERDRAINS UNDER SAG CURB INLETS (SEE SHEET 5 NOBLESVILLE DETAILS NOTE #22)
 - HP DENOTES HIGH POINT IN SSD
 - 6" SSD
 - RISER TC

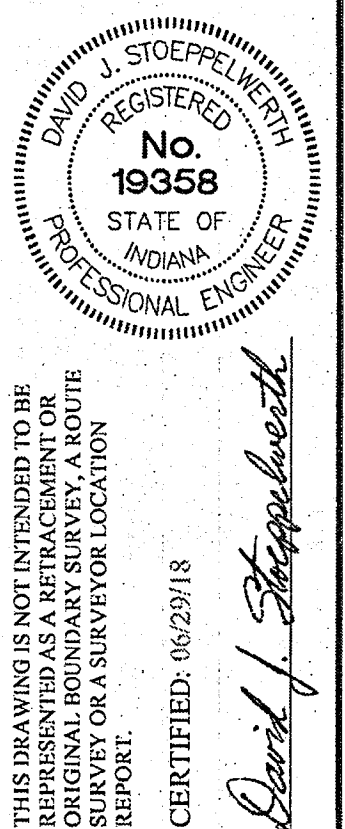


RECORD DRAWING

D.O.
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 8/2/2019



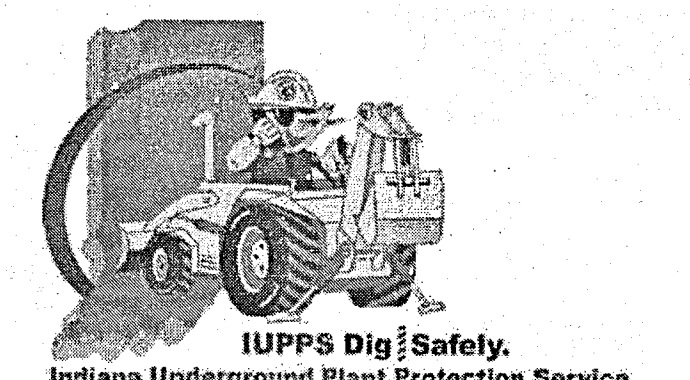
DATE	MARK	REVISIONS
07/31/19		AS BUILTS
04/27/19		REVISED PER CITY COMMENTS
11/20/18		REVISED PER CITY COMMENTS
09/10/18		REVISED PER UTILITIES & BUILDER COMMENTS
08/10/18		REVISED PER LAC COMMENTS



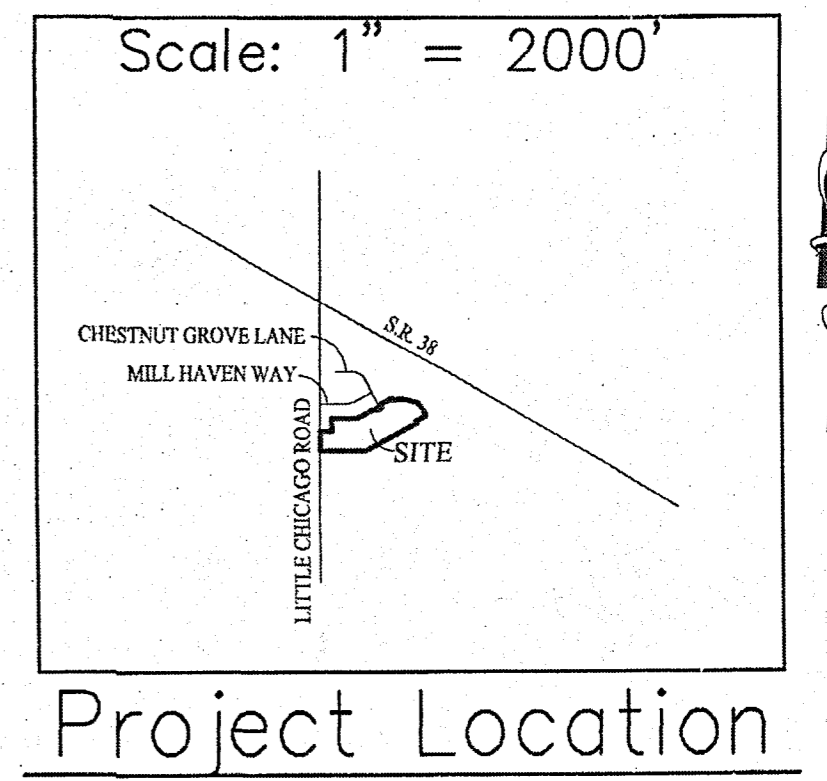
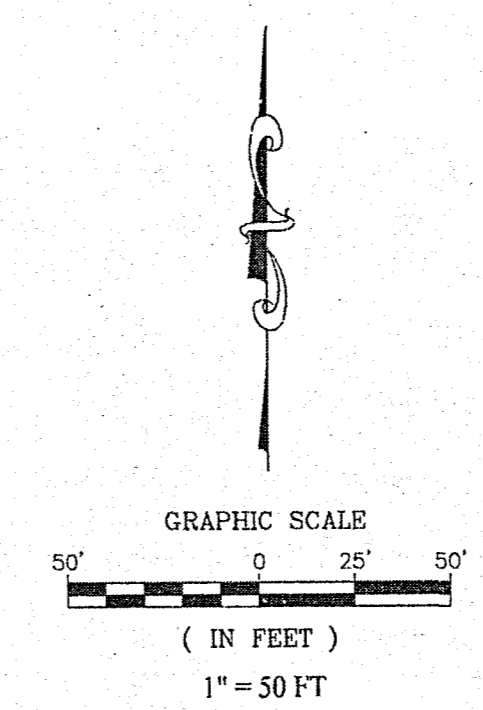
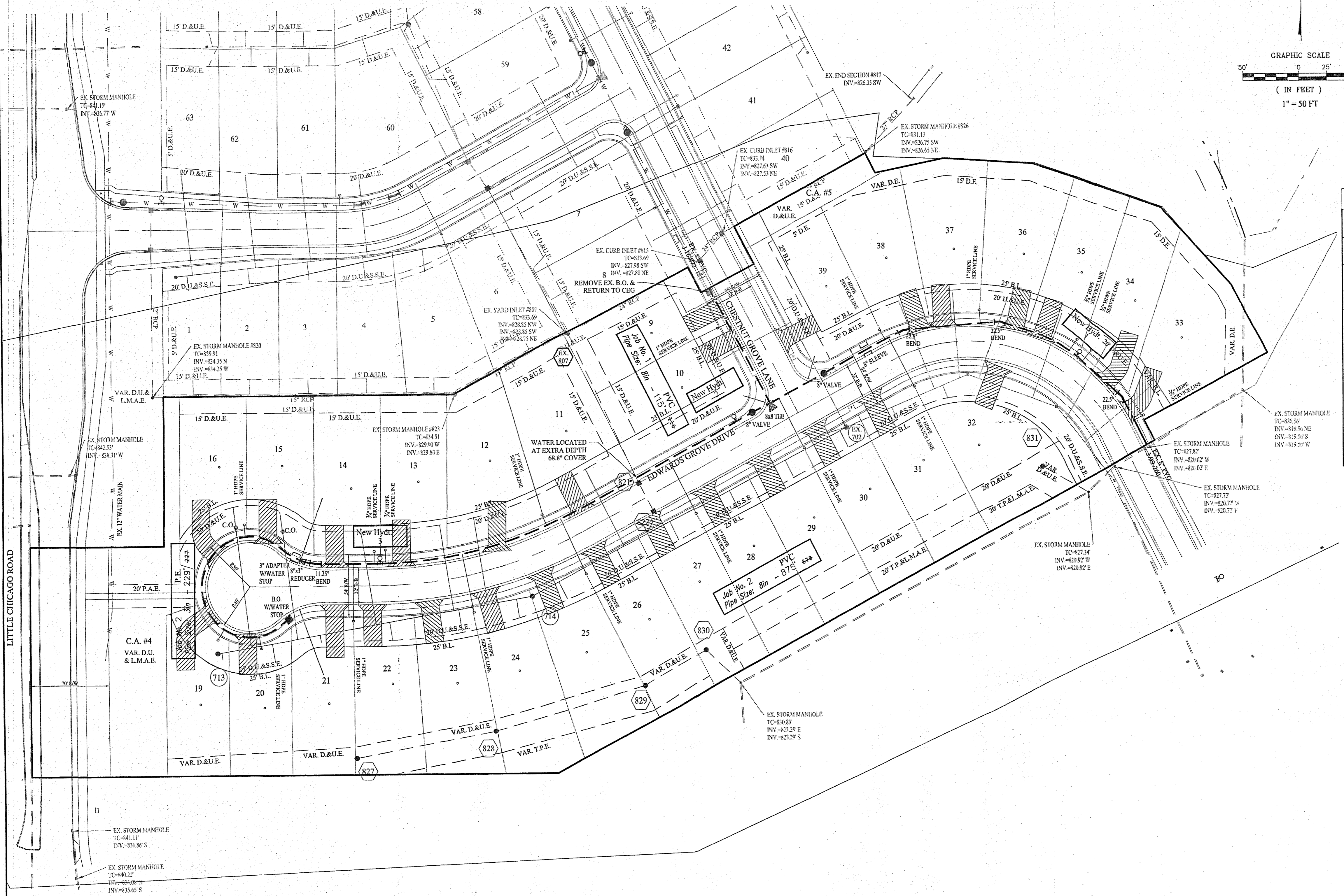
STOEPPELWERTH
 ALWAYS ON
 795 East 106th Street, Fishers, IN 46038-2505
 Phone: 317.295.9985 Fax: 317.849.9942

SUB-SURFACE DRAIN PLAN
 RETREAT AT MILL GROVE
 SECTION 2

DRAWN BY: JAW
 CHECKED BY: BAH
 SHEET NO.
C601
 S & A JOB NO.
 31083PLA-S2



File Name: S:\31083PLA-S2\DWG\C700 Water Plan.dwg - C700
 July 31, 2019 1:13:48 PM / alexander
 Modified / By:
 Plotted / By:



- NOTES:**
- SEE CITIZENS ENERGY GROUP WATER STANDARDS MANUAL LATEST VERSION.
 - MINIMUM COVER OVER TOP OF ALL WATER MAINS TO BE 54" FROM FINISH GRADE.
 - FIRE HYDRANTS SHALL HAVE A 5-INCH STORZ'S CONNECTION INSTALL.
 - VALVES TO BE PLACED IN GRASS AREAS.
 - THE WATER MAIN MUST MAINTAIN A MINIMUM OF 10 FEET OF HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION WITH THE SEWER MAIN AT ALL TIMES.
 - ENGINEERING INSPECTION STAFF MUST BE NOTIFIED 48 HOURS PRIOR TO COMMENCING WITH NEW WATER MAIN CONSTRUCTION WITH PRE-CONSTRUCTION MEETING.
 - HYDRANTS ARE TO BE YELLOW (SAFETY YELLOW) FROM HYDRANT SUPPLIER.
 - MAKE SURE TO FOLLOW STANDARD PRACTICE CONCERNING RESTRAINTS AND ANY QUESTIONS TALK WITH CEG INSPECTOR

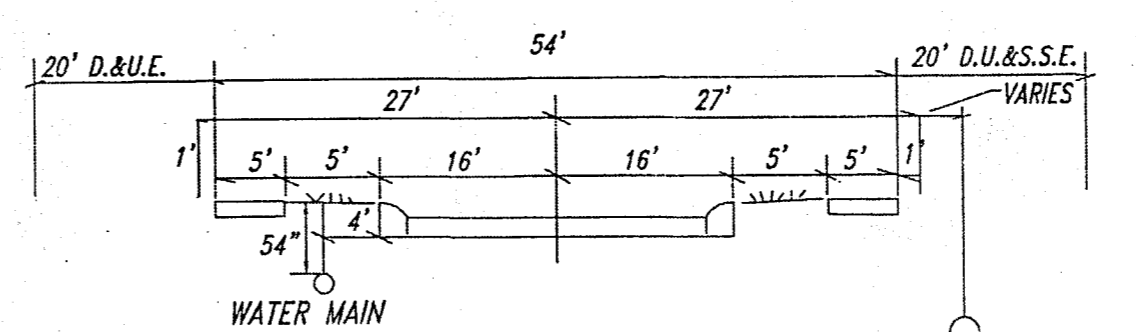
LEGEND

	Existing Water Main		Proposed Water Main
	Telephone Pole		Hydrant
	Gas Pole		Hydrant with Hydrant Valve
	Inlet		Butterfly Valve
	Tree		Valve
	Gas Valve		Blowoff Assembly
	Parcel Id		Air Relief Valve
	Adapter		Plug
	Bend		Reducer
	Kicker Block		T.J. Tee
	Casing Pipe		M.J. Tee
	GAS Gas Lines		Cross
	Telephone Lines		
	Electric Lines		
	METER PIT		
	WATER SERVICE LATERAL		

CITIZENS WATER PROJECT LEGEND

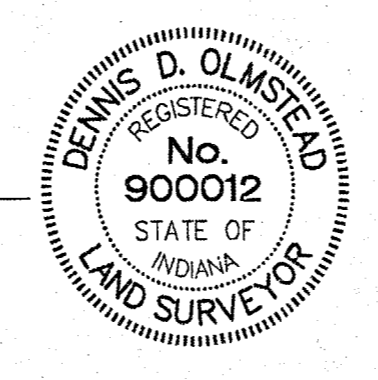
Project Name: RETREAT AT MILL GROVE, SECTION 2
 Project Number: J-18-076

JOB #	Street Name	Pipe Size	Pipe Type	Total Pipe
1	CHESTNUT GROVE LANE	8"	PVC	115' ±±±
2	EDWARDS GROVE DRIVE	8"	P.V.C.	875' ±±±
2	EDWARDS GROVE DRIVE	3"	P.E.	229' ±±±
# of Service Lines				TOTAL
7	SINGLE SERVICE LINE PIPE	3/4"	HDPE	77' ±±
11	DOUBLE SERVICE LINE PIPE	1"	HDPE	353' ±±±

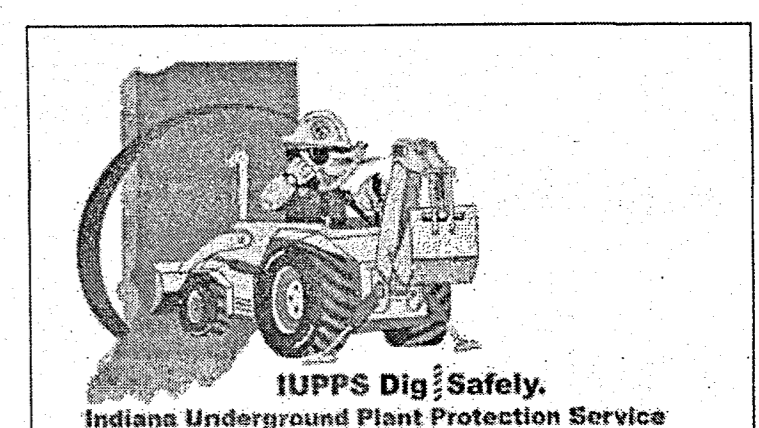


RECORD DRAWING

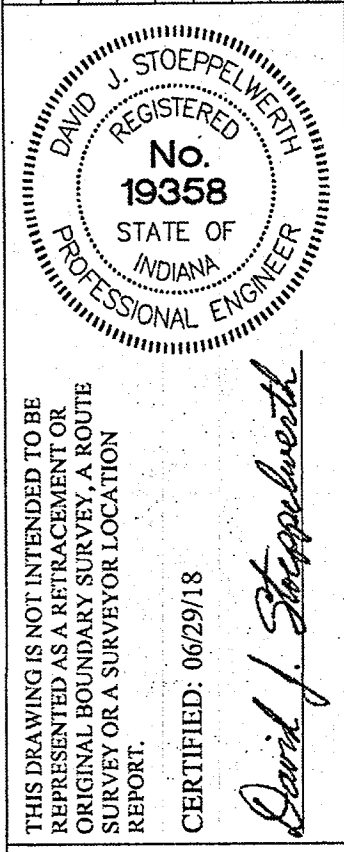
D.D.O.
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 8/2/2019



Know what's below.
 Call before you dig.



DATE	REVISIONS
07/20/19	WATER AS BUILT
11/20/18	REVISED PER CITY COMMENTS
10/15/18	REVISED PER CITIZENS COMMENTS
09/10/18	REVISED PER CITIZENS & BUILDER COMMENTS
08/10/18	REVISED PER TAC COMMENTS



THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS AN ATTACHMENT OR REFERENCE TO ANY SURVEY OR SURVEYOR LOCATION REPORT.

CERTIFIED: 06/29/18
David J. Stoepelwerth

STOEPPELWERTH
 ALWAYS ON
 7965 East 10th Street, Fishers, IN 46038-2905
 phone: 317.845.5905 fax: 317.849.5942

WATER PLAN
 RETREAT AT MILL GROVE SECTION 2
 HAMILTON COUNTY, INDIANA
 NOBLESVILLE, NOBLESVILLE TOWNSHIP

DRAWN BY: JAW	CHECKED BY: BAH
SHEET NO. C700	
S & A JOB NO. 31083PLA-S2	