

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 26, 2021

To: Hamilton County Drainage Board

Re: Thistlethwaite Drain, Aaron Rawlings Arm - Maple Run Sec. 3B Arm.

Attached is a petition filed by Arbor Homes along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for Maple Run Section 3B located in Adams 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. As per the plans by Stoeppelwerth & Associates Engineering, Project No. 51510ARB-S3, the drain will consist of the following:

48" RCP	140 ft.
60" RCP	337 ft.
Open Drain	175 ft

The total length of the drain will be 652 feet.

The sections of drain that is to become part of the regulated drain system is the storm line from proposed Lake 4 through Lake 3 and into the Thistlethwaite Drain as shown on the development plan on sheets C200 and C201. The drain begins at Structure #B04, 60-inch RCP, and continues to Structure #B03 and then to Structure #B01. The open drain begins near the south end of Lake 3 from Structure #B01 and continues in a northerly direction to Structure #A02, then continues as 48-inch RCP to Structure #A01 where it discharges into the Thistlethwaite open drain. This RCP is shown on Sheet 600 of the above-mentioned plans. The open ditch is measured as a straight line through Lake 3.

The Maple Run Section 3B Arm as described above will be part of the Thistlethwaite Drain, Aaron Rawlins Arm. Lake 3 (pond) is not to be considered part of the regulated drain. The maintenance of the pond shall include the inlets, outlets (Structure #A01, STR. # A02, Structure #B01, Structure #B04) as part of the regulated drain. The maintenance of the pond such as sediment removal, and erosion control along the banks, mowing and aquatic vegetation control will be the responsibility of the Homeowners Association. The Board will also retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained, allowing no fill or easement encroachments. The Maple Run Section 3B Arm as described above will be part of the Thistlethwaite Drain, Aaron Rawlings Arm.

The Maple Run Section 3B Arm as described above will be part of the Thistlethwaite Drain. Maintenance of the remaining drainage facilities within Maple Run Section 3B Subdivision shall be under the Town of Sheridan and/or the Maple Run Homeowners Association. Maintenance of the BMPs within Maple Run Section 3B Subdivision shall also be under the Town of Sheridan and/or the Maple Run Homeowners Association.

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. The maintenance assessment rates have been adopted by the Board at its meeting on September 24, 2018, (see Drainage Board Minute Book 17, Pages 249-250). When Maple Run Section 3B is platted it will be assessed at the Un-Regulated Subdivision rate of \$5.00 per acre, \$35.00 per lot and minimum.

The petitioner has submitted surety for the proposed drain at this time. The amount of the bond is \$138,115.20 which represents 120% of the Engineer's Estimate of \$115,096.00. The surety which is in the form of a Performance Bond is as follows:

Agent: National Indemnity Company
Date: May 6, 2021
Bond Number: 70NGP185032
For: Storm Sewers
Amount: \$138,115.20
HCDB-2021-00015

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Maple Run of Sheridan Section 3B as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for July 26, 2021.



Kenton C. Ward, CFM
Hamilton County Surveyor

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED

AUG 22 2019

OFFICE OF HAMILTON COUNTY SURVEYOR

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

In the matter of Maple Run Subdivision, Section
3B 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 Maple Run, Section 3B, 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

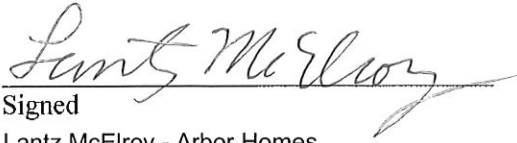
Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

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

Lantz McElroy - Arbor Homes

Printed Name

August 21, 2019

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FINDINGS AND ORDER


CONCERNING THE MAINTENANCE OF THE

**Thistlewaite Drain, Aaron Rawlings Arm
Maple Run Section 3B Arm**

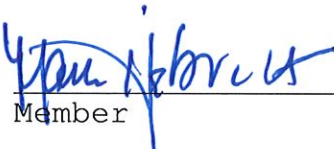
On this **26th day of July, 2021**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Thistlewaite Drain, Aaron Rawlings Arm, Maple Run Section 3B Arm.**

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

ENG. EST SECT 3B

Item No.	Item	Unit	Unit Cost	Quantities	Cost	Performance Bond	Maintenance Bond
1	Streets (Asphalt base/ binder, less the surface) 5" #2 Stone + 4" #53 Stone + 3" Asphalt Binder	SY			\$0.00		
	Total				\$0.00	\$0.00	\$0.00
2	Streets (Asphalt surface) 1.5" Asphalt Surface	SY			\$0.00		
	Total				\$0.00	\$0.00	\$0.00
3	Curb Rollcurb	LF			\$0.00		
	Total				\$0.00	\$0.00	\$0.00
4	Legal Drain Storm Sewers						
	Beehive Inlet	EA			\$0.00		
	Single Curb Inlet	EA			\$0.00		
	Outlet Control Structure	EA	\$7,800.00	1	\$7,800.00		
	96" Manhole	EA	\$7,950.00	1	\$7,950.00		
	15" RCP	LF			\$0.00		
	18" RCP	LF			\$0.00		
	21" RCP	LF			\$0.00		
	24" RCP	LF			\$0.00		
	27" RCP	LF			\$0.00		
	48" RCP	LF	\$153.00	140	\$21,420.00		
	60" RCP	LF	\$245.00	186	\$45,570.00		
	48" RCP End Section w/ Trash Guards	EA	\$6,200.00	1	\$6,200.00		
	60" RCP End Section w/ Trash Guards	EA	\$9,600.00	2	\$19,200.00		
	6" SSD Single Wall Swales w/ Fabric	LF			\$0.00		
	6" SSD Single Wall Street	LF			\$0.00		
	6" Riser	EA			\$0.00		
	Bedding # 8 Stone	TONS	\$23.50	213	\$5,005.50		
	Granular Fill # 53 Stone	TONS			\$0.00		
	Video & Jet RCP	LF			\$0.00		
Rip Rap	TONS	\$65.00	30	\$1,950.00			
Total					\$115,096.00	\$138,115.20	\$11,509.60
5	Monuments & Markers Monuments & Markers	LS			\$0.00		
	Total				\$0.00	\$0.00	\$0.00
6	Street Signs Street Signs	LS			\$0.00		
	Total				\$0.00	\$0.00	\$0.00
7	Sanitary Sewer						
	Sanitary Manholes 8'-10'	EA			\$0.00		
	Sanitary Manholes 10'-12'	EA			\$0.00		
	Sanitary Manholes 16'-18'	EA			\$0.00		
	Sanitary Manholes 18'-20'	EA			\$0.00		
	Drop Manhole	EA			\$0.00		
	6" SDR 26 PVC 8'-10'	LF			\$0.00		
	6" SDR 26 PVC 10'-12'	LF			\$0.00		
	6" SDR 26 PVC 12'-14'	LF			\$0.00		
	6" SDR 26 PVC 16'-18'	LF			\$0.00		
	6" SDR 26 PVC 18'-20'	LF			\$0.00		
	8" SDR 26 PVC 8'-10'	LF			\$0.00		
	8" SDR 26 PVC 10'-12'	LF			\$0.00		
	8" SDR 26 PVC 12'-14'	LF			\$0.00		
8" SDR 26 PVC 16'-18'	LF			\$0.00			

	8" SDR 26 PVC 18'-20'	LF			\$0.00		
	8" x 6" Wyes	EA			\$0.00		
	Stone Bedding	TONS			\$0.00		
	Granular Fill B - Borrow	TONS			\$0.00		
	Concrete Cradle	EA			\$0.00		
	Connect to Existing	EA			\$0.00		
	Air, Mandrel & Video Testing	LF			\$0.00		
	Total				\$0.00	\$0.00	\$0.00
8	Water Mains						
	8" DR 14	LF			\$0.00		
	12" DR 14	LF			\$0.00		
	Fire Hydrant w/ Storz	EA			\$0.00		
	12" Valve	EA			\$0.00		
	6" Valve	EA			\$0.00		
	8" Valve	EA			\$0.00		
	8" Bends	EA			\$0.00		
	8" Tees	EA			\$0.00		
	12" Bends	EA			\$0.00		
	12" Tees	EA			\$0.00		
	Valve Boxes	EA			\$0.00		
	Steel Casing	LF			\$0.00		
	Tie - In Main	EA			\$0.00		
	Sand for Crossing	TONS			\$0.00		
	#8 Stone	TONS			\$0.00		
	Sand for Bedding	TONS			\$0.00		
	Misc. Fittings	EA			\$0.00		
	Flushing & Testing	LF			\$0.00		
	Total				\$0.00	\$0.00	\$0.00

Bond No. 70NGP185032

Performance Bond

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

HCDB-2021-00015

CONTRACTOR:
Clayton Properties Group, Inc. dba
Arbor Homes
9225 Harrison Park Court
Indianapolis, IN 46216

SURETY:
National Indemnity Company
1314 Douglas Street, Suite 1400
Omaha, NE 68102-1944

OWNER:
Hamilton County Board of Commissioners
One Hamilton County Square
Noblesville IN. 46060

CONSTRUCTION CONTRACT

Date: September 19, 2019

Amount: \$115,096.00

Description (Name and Location):

Legal Drain -Stormwater Drain and Storm Sewer System, Maple Run Section 3, Sheridan, IN

BOND

Date: May 6, 2021

Amount: **\$138,115.20**

Modifications to this Bond:

D None See Page 3

CONTRACTOR AS PRINCIPAL

SURETY

Company: Clayton Properties Group, Inc. dba
Arbor Homes

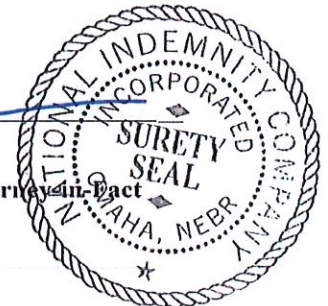
Company: National Indemnity Company

Signature: *[Signature]*

Signature: *[Signature]*

Name and Title: *John Hillenbury*
VICE PRESIDENT Land Development

Name and Title: *Matthew G. Grantham, Attorney-in-Fact*



(Any additional signatures appear on page 3)

(FOR INFORMATION ONLY- Name, Address and Telephone)
AGENT or BROKER:

OWNER'S REPRESENTATIVE (Architect, Engineer
or other party):

FILED

MAY 06 2021

The Contractor and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except to participate in conferences as provided in Subparagraph 3.1.

3 If there is no Owner Default, the Surety's obligation under this Bond shall arise after:

3.1 The Owner has notified the Contractor and the Surety at its address described in Paragraph 10 below that the Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with the Contractor and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Construction Contract. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default; and

3.2 The Owner has declared a Contractor Default and formally terminated the Contractor's right to complete the contract. Such Contractor Default shall not be declared earlier than twenty days after the Contractor and the Surety have received notice as provided in Subparagraph 3.1; and

3.3 The Owner has agreed to pay the Balance of the Contract Price to the Surety in accordance with the terms of the Construction Contract or to a contractor selected to perform the Construction Contract in accordance with the terms of the contract with the Owner.

4 When the Owner has satisfied the conditions of Paragraph 3, Surety shall promptly and at the Surety's expense take one of the following actions:

4.1 Arrange for the Contractor, with consent of the Owner, to perform and complete the Construction Contract; or

4.2 Undertake to perform and complete the Construction Contract itself, through its agents or through independent contractors; or

4.3 Obtain bids or negotiated proposals for qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and the contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Paragraph 6 in excess of the Balance of the Contract Price incurred by the Owner resulting from the Contractor's default; or

4.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances

.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, tender payment therefore to the Owner; or

.2 Deny liability in whole or in part and notify the Owner citing reasons therefore.

5 If the Surety does not proceed as provided in Paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond fifteen days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce and remedy available to the Owner. If the Surety proceeds as provided in Subparagraph 4.4, and the Owner refuses the payment tendered or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

6 After the Owner has terminated the Contractor's right to complete the Construction Contract, and if the Surety elects to act under Subparagraph 4.1, 4.2, or 4.3 above, then the responsibility of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. To the limit of the amount of this Bond, but subject to commitment by the Owner of the Balance of the Contract Price to mitigation of costs and damages on the Construction Contract, the Surety is obligated without duplication for:

6.1 The responsibilities of the Contractor for correction of defective work and completion of the Construction Contract.

6.2 Additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions of failure to act of the Surety under Paragraph 4; and

6.3 Liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

7 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner of its heirs, executors, administrators or successors.

8 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related sub-contractors purchase orders and other obligations

9 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after Contractor Default or within two years after the Contractor ceased working or within two years

after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. IF the provisions of this Paragraph are void or prohibited by law, the minimum period of limitations available to sureties as a defense in the jurisdiction shall be applicable.

10 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown of the signature page.

11 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted here from and provisions conforming to such statutory or other legal requirements shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

12 DEFINITIONS

12.1 Balance of the Contract Price: The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

12.2 Construction Contract: The agreement between the Owner and the Contractor identified of the signature page, including all Contract Documents and changes thereto.

12.3 Contractor Default: Failure of the Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Construction Contract.

12.4 Owner Default: Failure of the Owner, which has neither been remedied nor waived, to pay the Contractor as required by the Construction Contract or to perform and complete or comply with the other terms thereof.

MODIFICATIONS TO THIS BOND ARE AS FOLLOWS:

This Bond will remain in full force and effect until all outstanding requirements of the Owner are resolved and the Owner releases the Bond. The requirement for release included storm sewer inspections, and engineer's Certificate of Completion and Compliance being filed, as-built or record drawings being submitted and accepted, and any other requirements of Surety release as outlined in the Hamilton County Stormwater Management Technical Standards Manual.

{Space is provided below for additional signature of added parties, other than those appearing on the cover page.}

CONTRACTOR AS PRINCIPAL:
Company: Clayton Properties Group, Inc.
dba Arbor Homes

SURETY:
Company:
National Indemnity Company

Signature: _____

Signature: _____

Name and Title: Address: 9225 Harrison

Name and Title: Matthew G. Grantham, Attorney-in-Fact

Park Court, Indianapolis, IN 46216

Address: 1314 Douglas Street, Suite 1400, Omaha, NE

68104-1944



POWER-OF-ATTORNEY

70NGP185032

NATIONAL INDEMNITY COMPANY

1314 DOUGLAS STREET, SUITE 1400, OMAHA, NEBRASKA 68102-1944
(402) 916-3000

KNOW ALL MEN BY THESE PRESENTS: This Power-of-Attorney is not valid unless attached to the duly-executed bond that it authorizes. This Power-of-Attorney specifies THE AUTHORITY OF THE ATTORNEY-IN-FACT and THE LIABILITY OF NATIONAL INDEMNITY COMPANY, WHICH SHALL NOT EXCEED:

**ONE HUNDRED THIRTY-EIGHT THOUSAND, ONE HUNDRED FIFTEEN AND 20/100 DOLLARS
(\$ 138,115.20)**

NATIONAL INDEMNITY COMPANY, a Nebraska corporation, having its principal office in the City of Omaha, State of Nebraska, does hereby make, constitute and appoint Matthew G. Grantham in the City of Omaha, County of Douglas, State of Nebraska, its true and lawful attorney-in-fact, at Omaha, in the State of Nebraska, to make, execute, seal and deliver for and on its behalf, and as its act and deed, any and all bonds and undertakings, provided that the liability of the Company as surety on any such bond executed under this authority shall not in any event exceed the sum shown above.

THIS POWER VOID IF ALTERED OR ERASED

The acknowledgement and execution of any such document by the said Attorney-In-Fact shall be as binding upon the Company as if such bond had been executed and acknowledged by the regularly-elected officers of this Company.

This Power of Attorney is granted, and is signed and sealed by original signature, under and by the authority of the following Resolution adopted by the Executive Committee, as duly authorized by the Board of Directors of NATIONAL INDEMNITY COMPANY, at a meeting duly called and held on the 15th day of March, 2017:

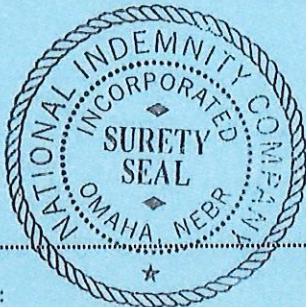
RESOLVED, That the President, any Vice President or the Secretary shall have the power and authority to (1) appoint Attorneys-in-fact and to authorize them to execute on behalf of this Company bonds and other undertakings and (2) remove at any time any such Attorney-in-fact and revoke the authority given.

FURTHER RESOLVED, That any Surety Administrator or Surety Underwriter shall have the power and authority to appoint Attorneys-in-fact and to authorize them to execute on behalf of this Company any license bond with a limit of \$10,000 or less.

FURTHER RESOLVED, That any Surety Administrator shall have the power and authority to appoint Attorneys-in-fact and to authorize them to execute on behalf of this Company (1) any bond, except an appeal bond, with a limit of \$10,000 or less and (2) any license bond with a limit of \$50,000 or less.

In Witness Whereof NATIONAL INDEMNITY COMPANY has caused its official seal to be hereunder affixed, and these presents to be signed by its Senior Vice President this 5th day of May, 2021.

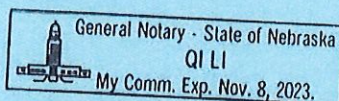
NATIONAL INDEMNITY COMPANY



BY Philip M. Wolf
(Name) Philip M. Wolf
(Title) Senior Vice President

STATE OF NEBRASKA }
COUNTY OF DOUGLAS } ss.:

On this 5th day of May, 2021, before me, a Notary Public, personally appeared Philip M. Wolf, who being by me duly sworn, acknowledged that he signed the above Power of Attorney as Senior Vice President of said NATIONAL INDEMNITY COMPANY and acknowledged said instrument to be the voluntary act and deed of said corporation.



Qi Li
Notary Public, Nebraska

1. THIS POWER DOES NOT AUTHORIZE EXECUTION OF BONDS OF NE EXEAT OR ANY GUARANTEE FOR FAILURE TO PROVIDE PAYMENTS OF ALIMONY SUPPORT OR WAGE LAW CLAIMS, OR BONDS FOR CRIMINAL APPEARANCE.
2. THIS POWER DOES NOT AUTHORIZE THE EXECUTION OF BONDS FOR LOAN GUARANTEES.

NI-1180bb (08/18)

This Power Can Only Be Used in The State of: INDIANA
This Power Can Only Be Used For The Following Oblige(s): HAMILTON COUNTY BOARD OF COMMISSIONERS
Bond Title or Description: PERFORMANCE : LEGAL DRAIN-STORMWATER DRAIN & STORM SEWER SYSTEM, MAPLE RUN SEC. 3, SHERIDAN, IN
Principal or case reference: CLAYTON PROPERTIES GROUP, INC. DBA ARBOR HOMES

Bond No. 70NGP185032

Performance Bond

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

HCDB-2021-00015

CONTRACTOR:
Clayton Properties Group, Inc. dba
Arbor Homes
9225 Harrison Park Court
Indianapolis, IN 46216

SURETY:
National Indemnity Company
1314 Douglas Street, Suite 1400
Omaha, NE 68102-1944

OWNER:
Hamilton County Board of Commissioners
One Hamilton County Square
Noblesville IN. 46060

CONSTRUCTION CONTRACT

Date: September 19, 2019

Amount: \$115,096.00

Description (Name and Location):

Legal Drain -Stormwater Drain and Storm Sewer System, Maple Run Section 3, Sheridan, IN

BOND

Date: May 6, 2021

Amount: \$138,115.20

Modifications to this Bond:

None See Page 3

CONTRACTOR AS PRINCIPAL

SURETY

Company: Clayton Properties Group, Inc. dba
Arbor Homes

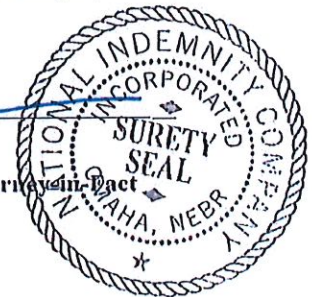
Company: National Indemnity Company

Signature: *[Handwritten Signature]*

Signature: *[Handwritten Signature]*

Name and Title: *John Hillenbury*
VICE PRESIDENT Land Development

Name and Title: *Matthew G. Grantham, Attorney-in-Fact*



(Any additional signatures appear on page 3)

(FOR INFORMATION ONLY- Name, Address and Telephone)
AGENT or BROKER:

OWNER'S REPRESENTATIVE (Architect, Engineer
or other party):

FILED

MAY 06 2021

The Contractor and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except to participate in conferences as provided in Subparagraph 3.1.

3 If there is no Owner Default, the Surety's obligation under this Bond shall arise after:

3.1 The Owner has notified the Contractor and the Surety at its address described in Paragraph 10 below that the Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with the Contractor and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Construction Contract. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default; and

3.2 The Owner has declared a Contractor Default and formally terminated the Contractor's right to complete the contract. Such Contractor Default shall not be declared earlier than twenty days after the Contractor and the Surety have received notice as provided in Subparagraph 3.1; and

3.3 The Owner has agreed to pay the Balance of the Contract Price to the Surety in accordance with the terms of the Construction Contract or to a contractor selected to perform the Construction Contract in accordance with the terms of the contract with the Owner.

4 When the Owner has satisfied the conditions of Paragraph 3, Surety shall promptly and at the Surety's expense take one of the following actions:

4.1 Arrange for the Contractor, with consent of the Owner, to perform and complete the Construction Contract; or

4.2 Undertake to perform and complete the Construction Contract itself, through its agents or through independent contractors; or

4.3 Obtain bids or negotiated proposals for qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and the contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Paragraph 6 in excess of the Balance of the Contract Price incurred by the Owner resulting from the Contractor's default; or

4.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances

.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, tender payment therefore to the Owner; or

.2 Deny liability in whole or in part and notify the Owner citing reasons therefore.

5 If the Surety does not proceed as provided in Paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond fifteen days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce and remedy available to the Owner. If the Surety proceeds as provided in Subparagraph 4.4, and the Owner refuses the payment tendered or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

6 After the Owner has terminated the Contractor's right to complete the Construction Contract, and if the Surety elects to act under Subparagraph 4.1, 4.2, or 4.3 above, then the responsibility of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. To the limit of the amount of this Bond, but subject to commitment by the Owner of the Balance of the Contract Price to mitigation of costs and damages on the Construction Contract, the Surety is obligated without duplication for:

6.1 The responsibilities of the Contractor for correction of defective work and completion of the Construction Contract.

6.2 Additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions of failure to act of the Surety under Paragraph 4; and

6.3 Liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

7 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators or successors.

8 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related sub-contractors purchase orders and other obligations

9 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after Contractor Default or within two years after the Contractor ceased working or within two years

after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. IF the provisions of this Paragraph are void or prohibited by law, the minimum period of limitations available to sureties as a defense in the jurisdiction shall be applicable.

10 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown of the signature page.

11 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted here from and provisions conforming to such statutory or other legal requirements shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

12 DEFINITIONS

12.1 Balance of the Contract Price: The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

12.2 Construction Contract: The agreement between the Owner and the Contractor identified of the signature page, including all Contract Documents and changes thereto.

12.3 Contractor Default: Failure of the Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Construction Contract.

12.4 Owner Default: Failure of the Owner, which has neither been remedied nor waived, to pay the Contractor as required by the Construction Contract or to perform and complete or comply with the other terms thereof.

MODIFICATIONS TO THIS BOND ARE AS FOLLOWS:

This Bond will remain in full force and effect until all outstanding requirements of the Owner are resolved and the Owner releases the Bond. The requirement for release included storm sewer inspections, and engineer's Certificate of Completion and Compliance being filed, as-built or record drawings being submitted and accepted, and any other requirements of Surety release as outlined in the Hamilton County Stormwater Management Technical Standards Manual.

{Space is provided below for additional signature of added parties, other than those appearing on the cover page.}

CONTRACTOR AS PRINCIPAL:
Company: Clayton Properties Group, Inc.
dba Arbor Homes

Signature: _____

Name and Title: Address: 9225 Harrison
Park Court, Indianapolis, IN 46216

SURETY:
Company:
National Indemnity Company

Signature: _____

Name and Title: Matthew G. Grantland, Attorney-in-Chief
Address: 1314 Douglas Street, Suite 1400, Omaha, NE
68104-1944



POWER-OF-ATTORNEY

70NGP185032

NATIONAL INDEMNITY COMPANY
1314 DOUGLAS STREET, SUITE 1400, OMAHA, NEBRASKA 68102-1944
(402) 916-3000

KNOW ALL MEN BY THESE PRESENTS: This Power-of-Attorney is not valid unless attached to the duly-executed bond that it authorizes. This Power-of-Attorney specifies THE AUTHORITY OF THE ATTORNEY-IN-FACT and THE LIABILITY OF NATIONAL INDEMNITY COMPANY, WHICH SHALL NOT EXCEED:

**ONE HUNDRED THIRTY-EIGHT THOUSAND, ONE HUNDRED FIFTEEN AND 20/100 DOLLARS
(\$ 138,115.20)**

NATIONAL INDEMNITY COMPANY, a Nebraska corporation, having its principal office in the City of Omaha, State of Nebraska, does hereby make, constitute and appoint Matthew G. Grantham in the City of Omaha, County of Douglas, State of Nebraska, its true and lawful attorney-in-fact, at Omaha, in the State of Nebraska, to make, execute, seal and deliver for and on its behalf, and as its act and deed, any and all bonds and undertakings, provided that the liability of the Company as surety on any such bond executed under this authority shall not in any event exceed the sum shown above.

THIS POWER VOID IF ALTERED OR ERASED

The acknowledgement and execution of any such document by the said Attorney-In-Fact shall be as binding upon the Company as if such bond had been executed and acknowledged by the regularly-elected officers of this Company.

This Power of Attorney is granted, and is signed and sealed by original signature, under and by the authority of the following Resolution adopted by the Executive Committee, as duly authorized by the Board of Directors of NATIONAL INDEMNITY COMPANY, at a meeting duly called and held on the 15th day of March, 2017:

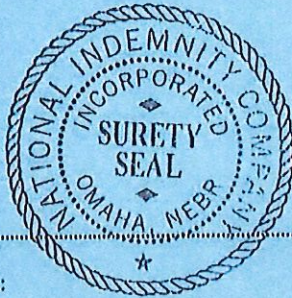
RESOLVED, That the President, any Vice President or the Secretary shall have the power and authority to (1) appoint Attorneys-in-fact and to authorize them to execute on behalf of this Company bonds and other undertakings and (2) remove at any time any such Attorney-in-fact and revoke the authority given.

FURTHER RESOLVED, That any Surety Administrator or Surety Underwriter shall have the power and authority to appoint Attorneys-in-fact and to authorize them to execute on behalf of this Company any license bond with a limit of \$10,000 or less.

FURTHER RESOLVED, That any Surety Administrator shall have the power and authority to appoint Attorneys-in-fact and to authorize them to execute on behalf of this Company (1) any bond, except an appeal bond, with a limit of \$10,000 or less and (2) any license bond with a limit of \$50,000 or less.

In Witness Whereof NATIONAL INDEMNITY COMPANY has caused its official seal to be hereunder affixed, and these presents to be signed by its Senior Vice President this 5th day of May, 2021.

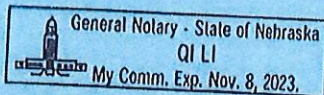
NATIONAL INDEMNITY COMPANY



BY Philip M. Wolf
(Name) Philip M. Wolf
(Title) Senior Vice President

STATE OF NEBRASKA }
COUNTY OF DOUGLAS } ss.:

On this 5th day of May, 2021, before me, a Notary Public, personally appeared Philip M. Wolf, who being by me duly sworn, acknowledged that he signed the above Power of Attorney as Senior Vice President of said NATIONAL INDEMNITY COMPANY and acknowledged said instrument to be the voluntary act and deed of said corporation.



Qi Li
Notary Public, Nebraska

1. THIS POWER DOES NOT AUTHORIZE EXECUTION OF BONDS OF NE EXEAT OR ANY GUARANTEE FOR FAILURE TO PROVIDE PAYMENTS OF ALIMONY SUPPORT OR WAGE LAW CLAIMS, OR BONDS FOR CRIMINAL APPEARANCE.
2. THIS POWER DOES NOT AUTHORIZE THE EXECUTION OF BONDS FOR LOAN GUARANTEES.

This Power Can Only Be Used in The State of: INDIANA
This Power Can Only Be Used For The Following Oblige(s): HAMILTON COUNTY BOARD OF COMMISSIONERS
Bond Title or Description: PERFORMANCE: LEGAL DRAIN-STORMWATER DRAIN & STORM SEWER SYSTEM, MAPLE RUN SEC. 3, SHERIDAN, IN
Principal or case reference: CIANTON PROPERTIES GROUP, INC. DBA ARBOR HOMES

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

***Thistlethwaite Drain, Aaron Rawlings Arm
Maple Run Section 3B Arm***

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Thistlethwaite Drain, Aaron Rawlings Arm, Maple Run Section 3B Arm** on **July 26, 2021** at **9:15 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

**Thistlethwaite Drain, Aaron Rawlings Arm,
Maple Run Section 3B Arm**

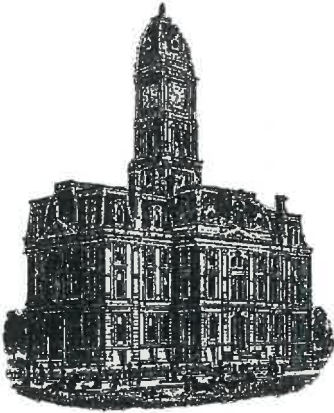
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **July 26, 2021** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

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

To: Hamilton County Drainage Board

June 9, 2022

Re: Thistlewaite Drain: Aaron Rawlings: Maple Run Section 3B

Attached are as-built, certificate of completion & compliance, and other information for Maple Run Sec. 3B Arm. 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 26, 2021. The report was approved by the Board at the hearing held July 26, 2021. (See Drainage Board Minutes Book 20, Pages 100-102) The changes are as follows: the 48" RCP was shortened from 140 feet to 132 feet. The open ditch was lengthened from 175 feet to 185 feet. The length of the drain due to the changes described above is now **654 feet**.

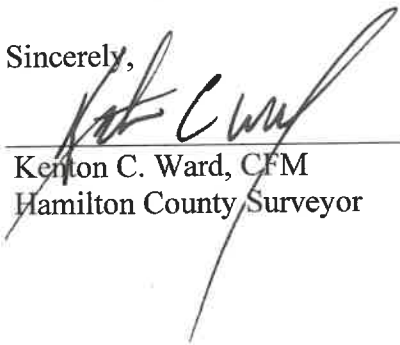
The non-enforcement was approved by the Board at its meeting on July 26th, 2021 and recorded under instrument #2021054946.

The following sureties were guaranteed by National Indemnity Company and released by the Board on its June 13, 2022, meeting.

Bond-LC No:70NGP185032
Amount: \$215,120.04
For: Storm Sewers
Issue Date: May 6, 2021

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

Sincerely,

A handwritten signature in black ink, appearing to read "Kerton C. Ward", is written over a horizontal line. The signature is fluid and cursive, with a long, sweeping tail that extends downwards and to the right.

Kerton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Maple Run, Section 3

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.

Signature:  Date: 7/24/2020

Type or Print Name: Dennis D. Olmstead

Business Address: Stoepelwerth & Associates, Inc.
7965 East 106th Street, Fishers, Indiana 46038

Telephone Number: (317) 849-5935

SEAL

INDIANA REGISTRATION NUMBER

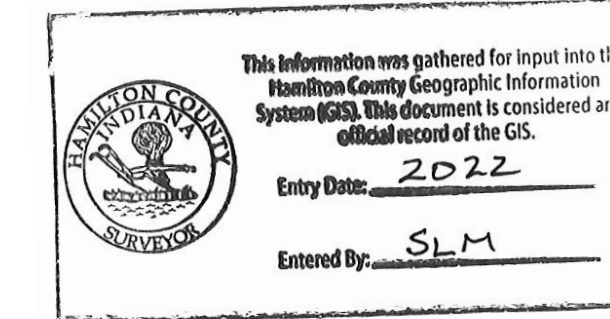
900012



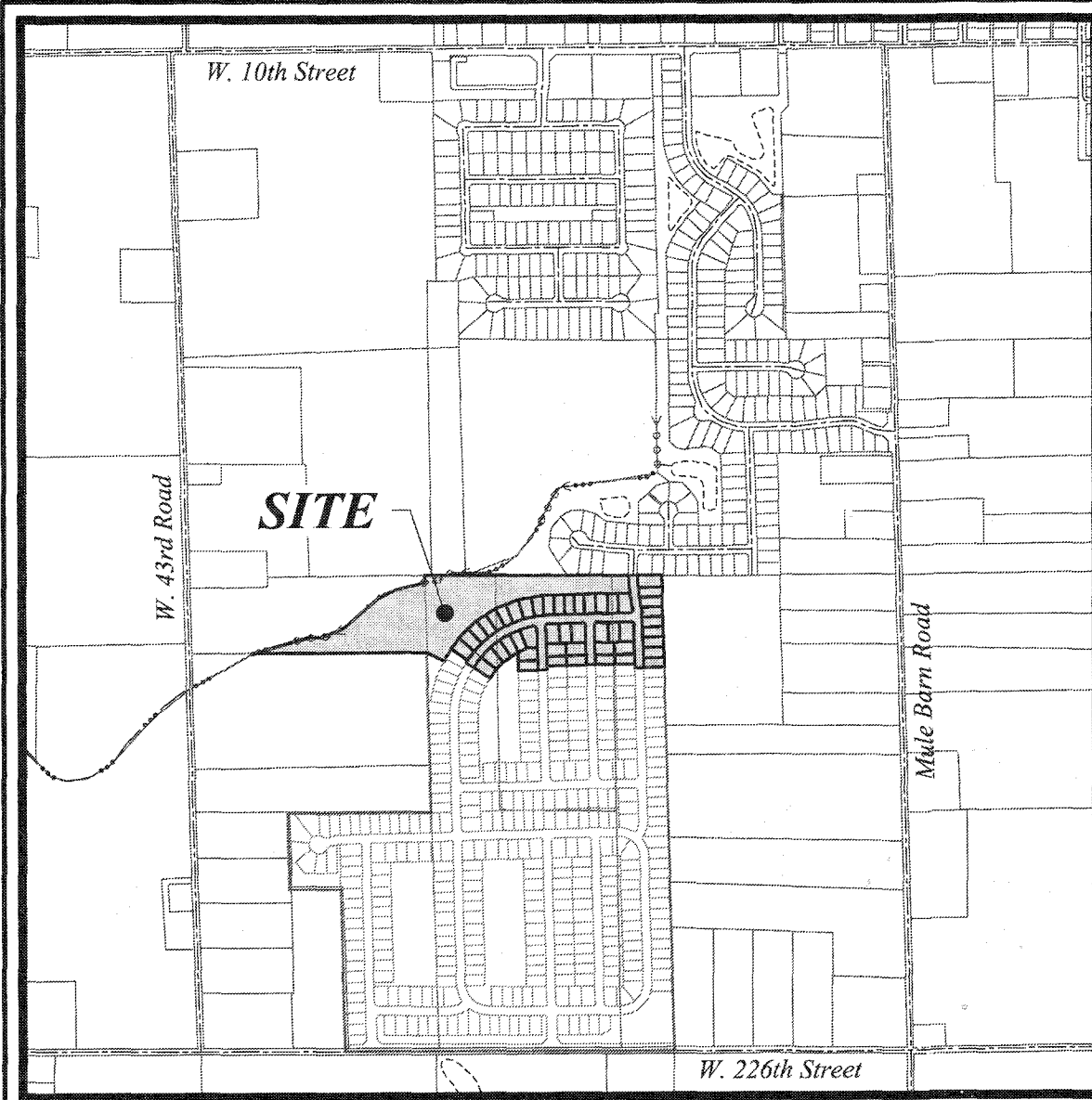
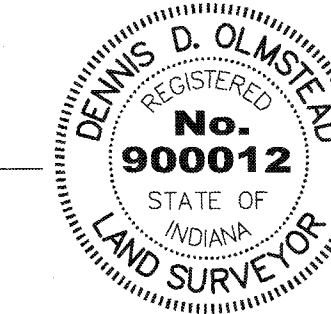
MAPLE RUN Section 3

Developed by:
Arbor Homes
 9225 Harrison Park Court
 Indianapolis, Indiana 46216
 Contact: **Lantz McElroy**
 Phone: **(317) 842-1875**

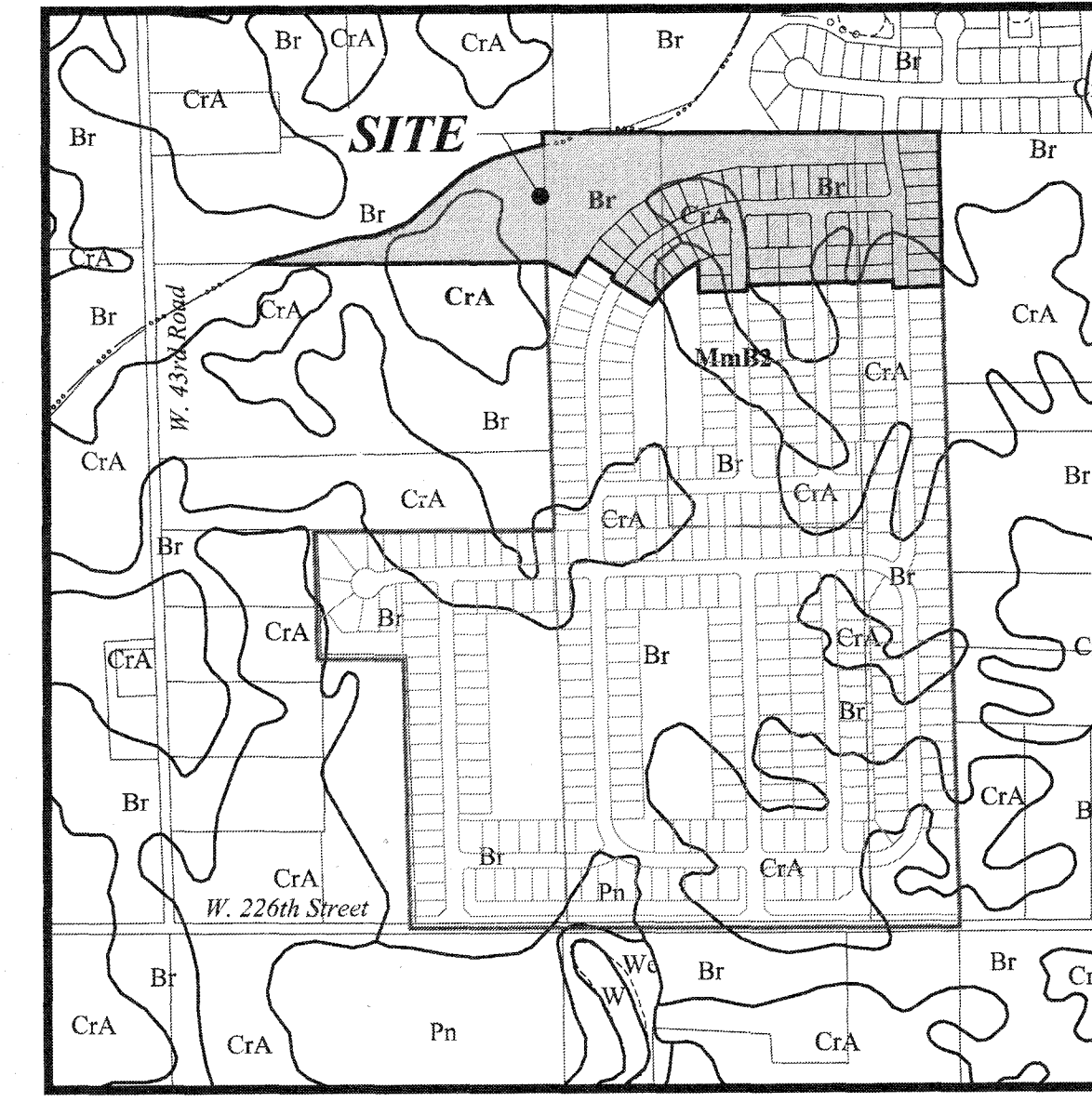
RECORD DRAWING



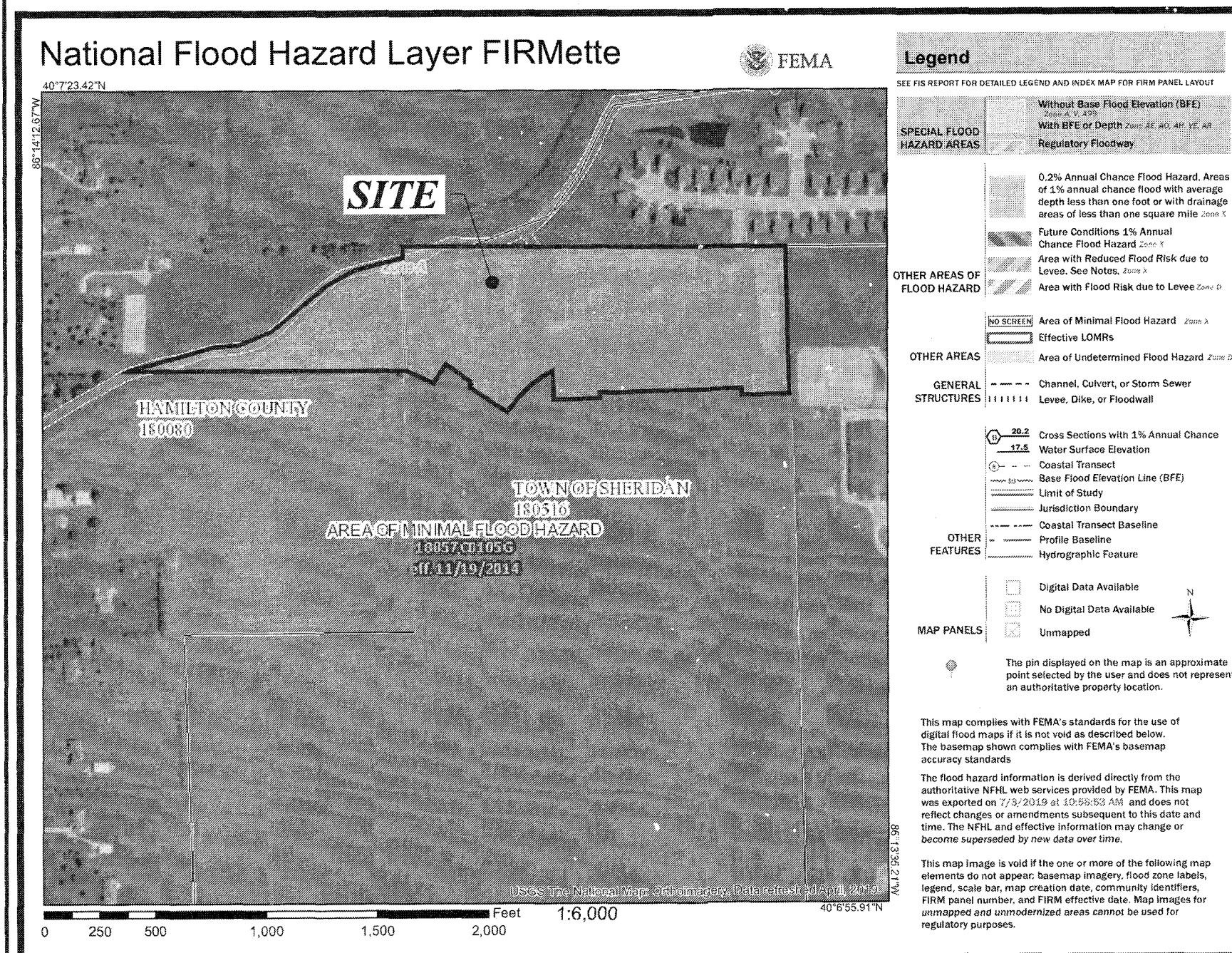
D. D. Olmstead
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012



LOCATION MAP
SCALE: 1" = 1,000'



SOILS MAP
SCALE: 1" = 600'



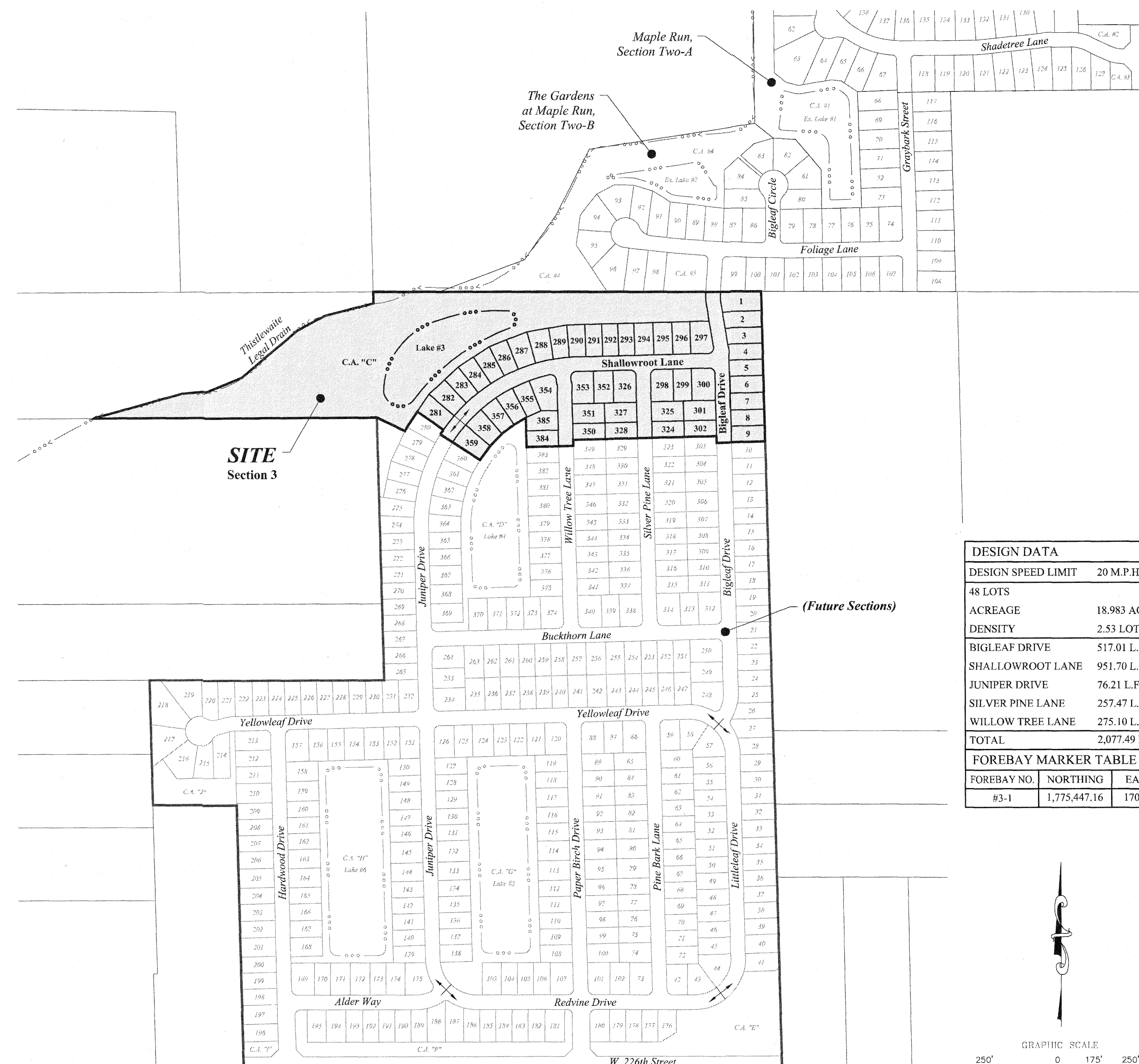
FLOOD MAP
NOT TO SCALE

Panel 18057C0105G
 Effective November 19, 2014

FLOOD STATEMENT
 THIS IS TO CERTIFY THAT NO GRADED PORTION OF THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD ZONE "A" AS SAID TRACT PLOTS BY SCALE ON COMMUNITY PANEL 18057C0105G OF THE FLOOD INSURANCE RATE MAPS DATED NOVEMBER 19, 2014.

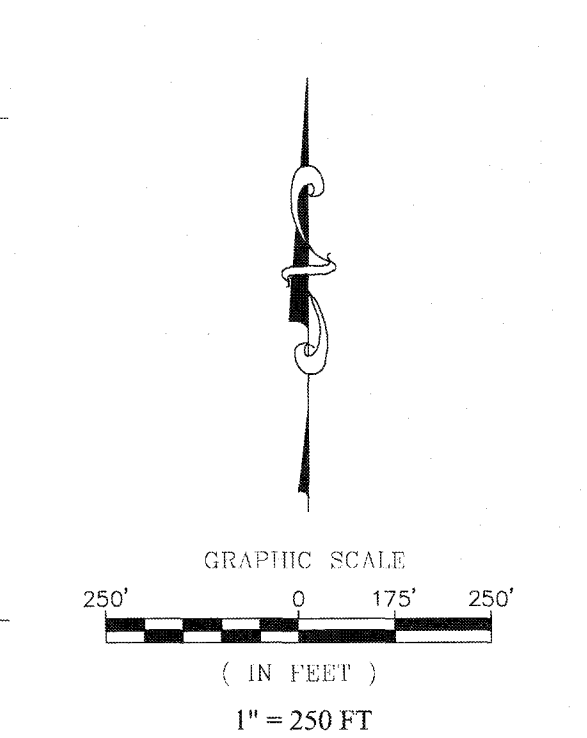
SHT. NO.	DESCRIPTION
C001	COVER SHEET
C100 - C101	TOPOGRAPHICAL SURVEY/DEMO PLAN
C200 - C204	SITE DEVELOPMENT PLAN OFFSITE GRADING PLAN EMERGENCY FLOOD ROUTE PLAN
C300 - C309	CONSTRUCTION ENTRANCE LOCATION & ROUTE INITIAL STORM WATER POLLUTION & PREVENTION PLAN TEMPORARY STORM WATER POLLUTION & PREVENTION PLAN PERMANENT STORM WATER POLLUTION & PREVENTION PLAN STORM WATER POLLUTION & PREVENTION SPECIFICATIONS STORM WATER POLLUTION & PREVENTION DETAILS
C400 - C405	STREET PLAN & PROFILES INTERSECTION DETAIL STREET SIGN PLAN
C500 - C501	SANITARY PLAN & PROFILES
C600 - C603	STORM PLAN & PROFILES SUB-SURFACE DRAIN / SUMP CONNECTION PLAN
C700 - C703	WATER PLAN WATER PLAN & PROFILES
C800 - C803	CONSTRUCTION SPECIFICATIONS & DETAILS

UTILITY CONTACTS
AT & T - Engineering 240 North Meridian Street 2nd Floor, Room 280 Indianapolis, Indiana 46204 Contact: Ryan McManus Ph: (317) 610-5437
Boone REMC 1207 Indianapolis Avenue Lebanon, Indiana 46052 Contact: Jerry Lasley Ph: (765) 483-2495 (765) 894-1084
Comcast Cable 5330 East 65th Street Indianapolis, Indiana 46220 Contact: Matt Stringer Ph: (317) 774-3384
Vectren Energy 16000 Allisonville Road Noblesville, Indiana 46060 Contact: Chad R. Miller Ph: (317) 776-5590
Water Indiana American Water 1700 East Superior Street Kokomo, Indiana 46901 Contact: Ryan Smith Ph: (765) 454-6985
Sanitary Sewer Indiana American Water 153 North Emerson Avenue Greenwood, Indiana 46143 Contact: Tracy White Ph: (317) 885-2426



PROJECT SITE MAP
SCALE: 1" = 300'

DESIGN DATA		
DESIGN SPEED LIMIT	20 M.P.H.	
48 LOTS		
ACREAGE	18.983 AC. ±	
DENSITY	2.53 LOTS/ACRE	
BIGLEAF DRIVE	517.01 L.F.	
SHALLOWROOT LANE	951.70 L.F.	
JUNIPER DRIVE	76.21 L.F.	
SILVER PINE LANE	257.47 L.F.	
WILLOW TREE LANE	275.10 L.F.	
TOTAL	2,077.49 L.F.	
FOREBAY MARKER TABLE		
FOREBAY NO.	NORTHING	EASTING
#3-1	1,775,447.16	170,334.44



MAPLE RUN, SECTION 3

A subdivision of a part of the Southeast Quarter and a part of the Southwest Quarter, both of Section 6, Township 19 North, Range 03 East, Adams Township, Hamilton County, Indiana more particularly described as follows:

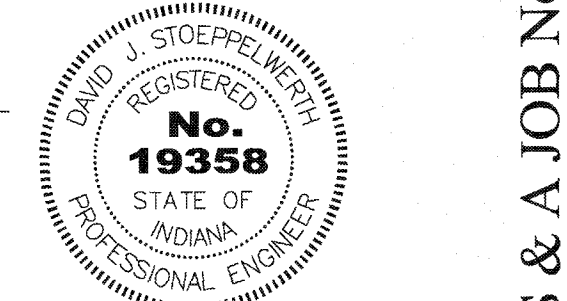
Beginning at the Northeast corner of the West Half of the Southeast Quarter of said Section 6; thence South 01 degree 23 minutes 46 seconds East along the East line of said Half-Quarter Section a distance of 511.07 feet; thence South 88 degrees 36 minutes 14 seconds West a distance of 165.00 feet; thence North 01 degree 23 minutes 46 seconds West a distance of 23.39 feet; thence South 88 degrees 36 minutes 14 seconds West a distance of 490.00 feet; thence South 01 degree 23 minutes 46 seconds East a distance of 20.00 feet; thence North 01 degree 23 minutes 46 seconds West a distance of 99.87 feet; thence South 59 degrees 37 minutes 57 seconds West a distance of 46.41 feet; thence South 52 degrees 32 minutes 02 seconds West a distance of 51.38 feet; thence South 44 degrees 56 minutes 44 seconds West a distance of 58.47 feet; thence South 36 degrees 52 minutes 01 second West a distance of 58.47 feet; thence North 57 degrees 10 minutes 20 seconds West a distance of 160.00 feet to a point on a non-tangent curve concave southeasterly, the radius point of which bears South 57 degrees 10 minutes 20 seconds East a distance of 575.00 feet from said point; thence northeasterly along said curve an arc length of 18.77 feet to a point on said curve, said point being North 55 degrees 18 minutes 06 seconds West a distance of 575.00 feet from the radius point of said curve; thence North 55 degrees 18 minutes 06 seconds West a distance of 108.98 feet; thence South 34 degrees 13 minutes 05 seconds West a distance of 63.33 feet; thence South 25 degrees 31 minutes 06 seconds West a distance of 14.79 feet; thence North 64 degrees 28 minutes 54 seconds West a distance of 106.71 feet to the Northeast corner of the land described in Instrument Number 86-019066 in the Office of the Recorder of Hamilton County, Indiana; thence South 89 degrees 47 minutes 04 seconds West along the North line of said land a distance of 967.48 feet to the East line of the land described in Instrument Number 2011-064222 in the Office of said Recorder; thence along the easterly lines of said land the following 8 courses and distances: 1) North 55 degrees 40 minutes 26 seconds East a distance of 4.68 feet; 2) thence North 75 degrees 18 minutes 43 seconds East a distance of 85.45 feet; 3) thence North 74 degrees 26 minutes 58 seconds East a distance of 222.95 feet; 4) thence North 85 degrees 18 minutes 16 seconds East a distance of 85.54 feet; 5) thence North 67 degrees 48 minutes 21 seconds East a distance of 128.37 feet; 6) thence North 49 degrees 53 minutes 58 seconds East a distance of 249.20 feet; 7) thence North 61 degrees 43 minutes 27 seconds East a distance of 106.60 feet; 8) thence North 75 degrees 40 minutes 36 seconds East a distance of 172.85 feet to the West line of the aforementioned Southeast Quarter of said Section 6; thence North 01 degree 28 minutes 54 seconds West along said West line a distance of 39.17 feet to the Northwest corner thereof; thence South 89 degrees 52 minutes 01 second East along the North line of said Quarter Section a distance of 1,325.02 feet to the Point of Beginning, containing 18.983 acres, more or less, subject to all legal highways, rights-of-ways, easements, and restrictions of record.

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.

PLANS PREPARED BY:
STOEPPELWERTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS & LAND SURVEYORS
 7965 E. 106th STREET, FISHERS, INDIANA 46038
 PHONE: (317) 849-5935
 FAX: (317) 849-5942
 CONTACT: BRIAN K. ROBINSON
 EMAIL: brobinson@stoepfelwerth.com

PLANS CERTIFIED BY:

David J. Stoepfelwerth 07/19/19
 DAVID J. STOEPPELWERTH
 PROFESSIONAL ENGINEER



S & A JOB No. 51510ARB-S3



LEGEND

- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- EXISTING CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED CONTOUR
- PROPOSED WATER LINE
- PROPOSED SVALE
- PROPOSED LAKE NORMAL POOL ELEVATION
- PROPOSED GRADE ELEVATION
- PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
- PROPOSED CURB w/ 6" UNDERDRAIN
- PROPOSED 6" SUB-SURFACE DRAIN (WHERE SHOWN ON PLANS)

10
940.2
MFF=940.2
MFG=940.4

MFF=940.0

LOT NUMBER
PAD GRADE
MINIMUM FINISH FLOOR ELEVATION
MINIMUM FLOOD PROTECTION GRADE

MINIMUM FINISH FLOOR ELEVATION IS BASED OFF OF THE FOLLOWING CRITERIA:
1. 12" (1.0') ABOVE THE NEAREST UPSTREAM OR DOWNSTREAM SANITARY MANHOLE, WHICHEVER IS LOWEST.
2. 6" (0.5') ABOVE THE MFG

MINIMUM FLOOD PROTECTION GRADE (LAKE / FLOOD PROTECTION)

B.L. BUILDING SETBACK LINE
M.E. MATCH EXISTING
H.P. HIGH POINT
L.P. LOW POINT
P.C.C. POINT OF COMPOUND CURVATURE
P.V.I. POINT OF VERTICAL INTERSECTION
GRD. CHG. GRADE CHANGE

APPROXIMATE LIMITS OF FLOODWAY FRINGE AS SCALED FROM FIRM MAP PANEL No. 1857C0105 DATED: NOVEMBER 19, 2014

100-YR. FLOOD ELEVATION ALONG THISTLEWAITE LEGAL DRAIN (PER INDR HEC-RAS MODEL DATED 1/23/2007)

- NOTES**
- SEE LAKE #3 & FOREBAY #3-1 CROSS SECTION ("A-A") AND SPILLWAY DETAIL ON SHEET C201.
 - SEE SHEET C202 FOR OFFSITE GRADING PLAN.
 - ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SYSTEM (WHERE APPLICABLE) WITH A POSITIVE OUTFLOW.

UTILITY CROSSINGS

CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ON-SITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NO CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

BENCHMARK DATA

ORIGINATING BENCHMARK
BENCHMARK ELEVATIONS FOR THIS PROJECT WERE DERIVED USING THE NATIONAL GEODETIC SURVEY ONLINE POSITIONING USER SERVICE (O.P.U.S.) AND ARE REFERENCED TO THE NAVD '88 DATUM.

SITE TMS

A HARRISON MONUMENT IN THE APPROXIMATE CENTERLINE OF 226TH STREET APPROXIMATELY 518 FEET EAST OF THE SOUTHWEST CORNER OF THE SURVEYED SITE (MONUMENT MARKS THIS SOUTH 1/4 CORNER OF SECTION 6-T19N-R3E).

ELEVATION = 943.83 (NAVD 88)

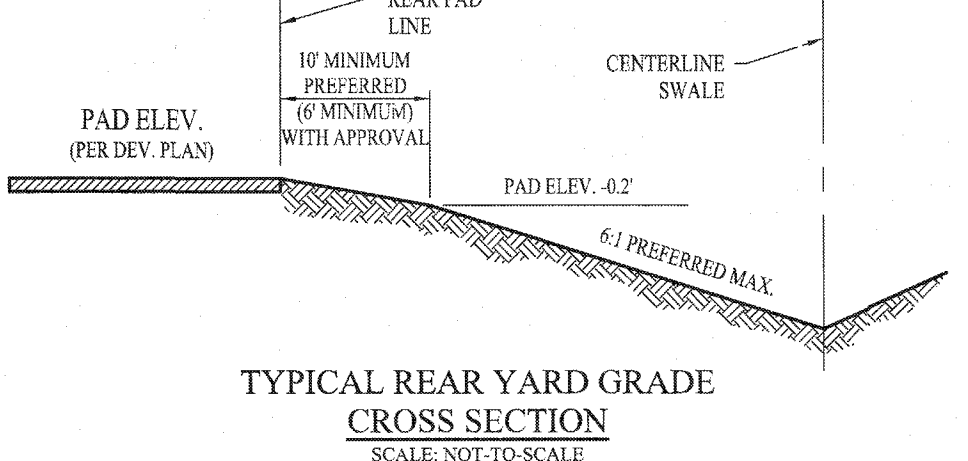
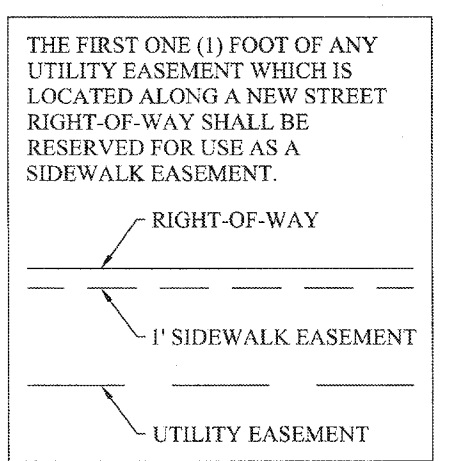
A ROAD NAIL AT THE APPROXIMATE CENTERLINE INTERSECTION OF FOLIAGE LANE AND BIGLEAF DRIVE.

ELEVATION = 944.20 (NAVD 88)

EARTHWORK NOTES

- 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 feet 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 811.
- SITE GRADING**
 - The Contractor shall 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 equipment from the site until the Engineer has verified that the job meets the above tolerance.

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 July 15, 2020 3:09:56 PM / mevens
 Modified / By:
 Plotted / By:



RECORD DRAWING

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

7/24/2020
 DENNIS D. OLMSTEAD
 REGISTERED
 No. 900012
 STATE OF INDIANA
 LAND SURVEYOR

STOEPPELWERTH
 ALWAYS ON
 795 East Ninth Street, Fishers, IN 46038-2505
 phone: 317.849.5925 fax: 317.849.5942

SITE DEVELOPMENT PLAN
MAPLE RUN
SECTION 3

SHERIDAN, ADAMS TOWNSHIP
 HAMILTON COUNTY, INDIANA

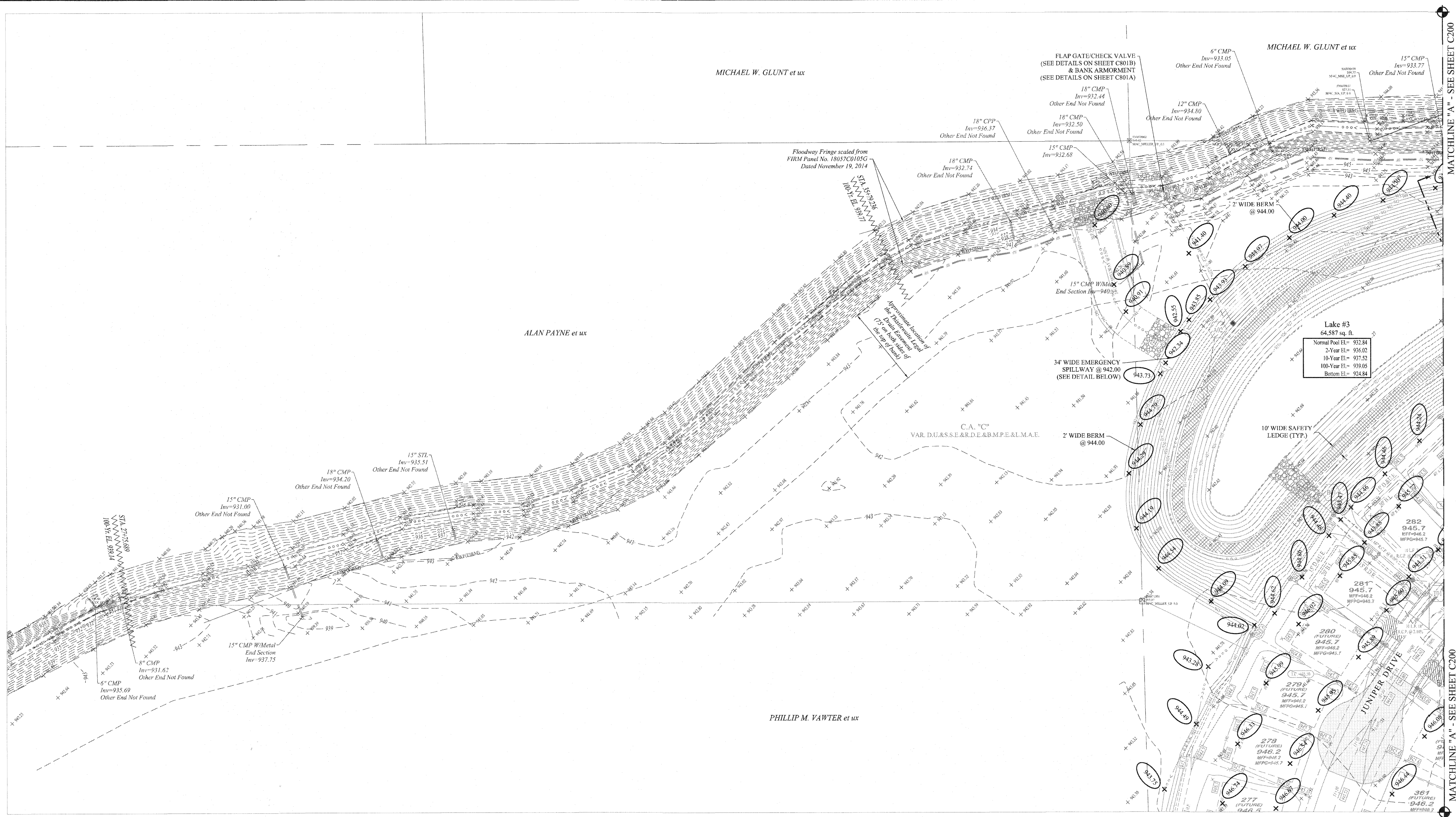
DRAWN BY: PDR
 CHECKED BY: BKR
 SHEET NO: C200
 S & A JOB NO: 51510ARB-S3

DAVID J. STOEPPELWERTH
 REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 CERTIFIED: 07/23/19
 David J. Stoeppelewh

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

REVISIONS

NO.	DATE	REVISIONS
AS BUILT	07/23/20	REVISED PER TAC COMMENTS
PDR	07/23/20	MARK
BY		



LEGEND

- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- EXISTING CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- PROPOSED SWALE
- PROPOSED LAKE NORMAL POOL ELEVATION
- PROPOSED GRADE ELEVATION
- PROPOSED 5' SIDEWALK (BY HOME BUILDER)
- PROPOSED CURB w/ 6" UNDERDRAIN
- PROPOSED 5" SUB-SURFACE DRAIN
- LOT NUMBER
- PAD GRADE
- MINIMUM FINISH FLOOR ELEVATION
- MINIMUM FLOOD PROTECTION GRADE

MFF=940.0

MINIMUM FINISH FLOOR ELEVATION IS BASED OFF OF THE FOLLOWING CRITERIA:
 1. 12" (1.0') ABOVE THE NEAREST UPSTREAM OR DOWNSTREAM SANITARY MANHOLE, WHICHEVER IS LOWEST
 2. 6" (0.5') ABOVE THE MFFG

MINIMUM FLOOD PROTECTION GRADE (LAKE / FLOOD PROTECTION)

B.L. BUILDING SETBACK LINE
 M.E. MATCH EXISTING
 H.P. HIGH POINT
 L.P. LOW POINT
 P.C.C. POINT OF COMPOUND CURVATURE
 P.V.I. POINT OF VERTICAL INTERSECTION
 GRD. CHG. GRADE CHANGE

APPROXIMATE LIMITS OF FLOODWAY FRINGE AS SCALED FROM FIRM MAP PANEL No. 18057C0105G DATED: NOVEMBER 19, 2014

100-YR. FLOOD ELEVATION ALONG THISTLEWAITE LEGAL DRAIN (PER IDNR HEC-RAS MODEL DATED 1/23/2007)

NOTES

- SEE LAKE #3 & FOREBAY #3-1 CROSS SECTION ("A-A") AND SPILLWAY DETAIL ON SHEET C201.
- SEE SHEET C202 FOR OFFSITE GRADING PLAN.
- ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SYSTEM (WHERE APPLICABLE) WITH A POSITIVE OUTFLOW.

UTILITY CROSSINGS

CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ON-SITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NO ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

BENCHMARK DATA

ORIGINATING BENCHMARK
 BENCHMARK ELEVATIONS FOR THIS PROJECT WERE DERIVED USING THE NATIONAL GEODETIC SURVEY ONLINE POSITIONING USER SERVICE (O.P.U.S.) AND ARE REFERENCED TO THE NAVD '88 DATUM.

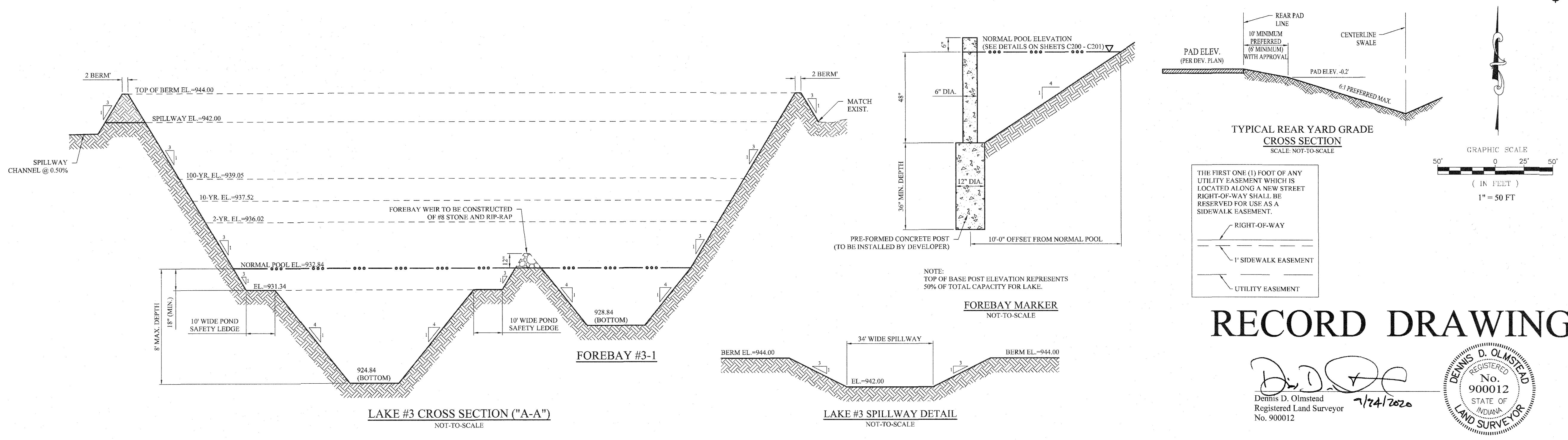
SITE TBMs

A HARRISON MONUMENT IN THE APPROXIMATE CENTERLINE OF 220TH STREET APPROXIMATELY 518 FEET EAST OF THE SOUTHWEST CORNER OF THE SURVEYED SITE (MONUMENT MARKS THE SOUTH 1/4 CORNER OF SECTION 6-T19N-R3E).
 ELEVATION = 943.83 (NAVD 88)

A ROAD NAIL AT THE APPROXIMATE CENTERLINE INTERSECTION OF FOLIAGE LANE AND BIGLEAF DRIVE.
 ELEVATION = 944.20 (NAVD 88)

EARTHWORK NOTES

- 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 feet 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 811.
- SITE GRADING
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RECORD DRAWING

Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 7/24/2020

STOEPPELWERTH
 ALWAYS ON
 7965 East 10th Street, Fishers, IN 46038-2505
 phone: 317.849.5945 fax: 317.849.5942

REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA

REGISTERED LAND SURVEYOR
 No. 900012
 STATE OF INDIANA

SITE DEVELOPMENT PLAN
 MAPLE RUN
 SECTION 3

REVISIONS

NO.	DATE	BY	REVISIONS

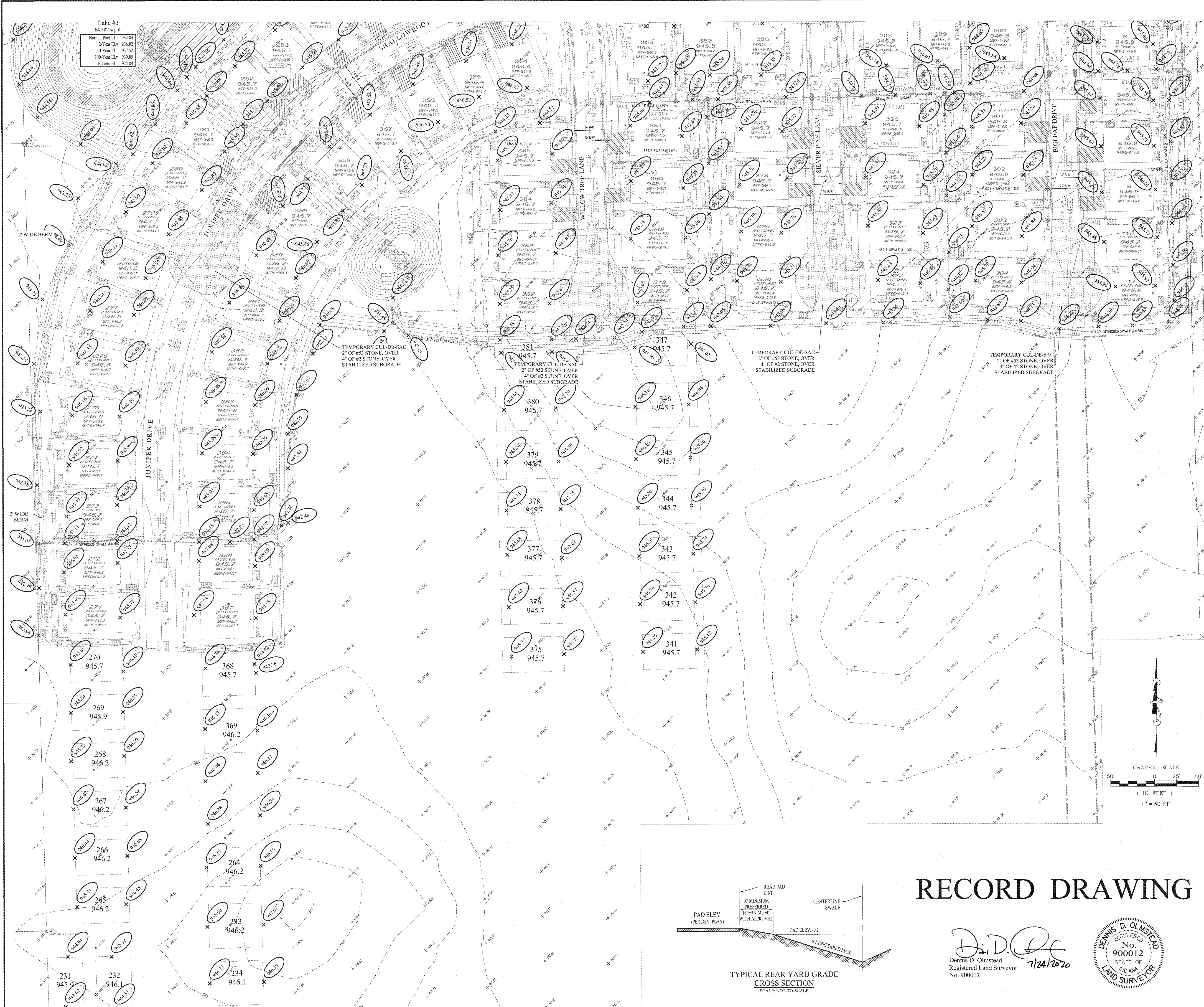
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DRIVEN BY: PDR
 CHECKED BY: BKR

C201
 S & A JOB NO.
 51510ARB-S3

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 Plotted / By:



LEGEND

- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- EXISTING CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED CONTOUR
- PROPOSED WATER LINE
- PROPOSED SWALE
- PROPOSED LAKE NORMAL POOL ELEVATION
- PROPOSED GRADE ELEVATION
- PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
- PROPOSED CURB w/ 6" UNDERDRAIN
- PROPOSED 6" SUB-SURFACE DRAIN (WHERE SHOWN ON PLANS)

10
940.2
MFF-940.2
MFF-940.4

MFF-940.0

LOT NUMBER
 PAD GRADE
 MINIMUM FINISH FLOOR ELEVATION
 MINIMUM FLOOD PROTECTION GRADE

MINIMUM FINISH FLOOR ELEVATION IS BASED OFF OF THE FOLLOWING CRITERIA:
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 MINIMUM FLOOD PROTECTION GRADE (LAKE / FLOOD PROTECTION)

MPFG
 B.L. BUILDING SETBACK LINE
 M.E. MATCH EXISTING
 H.P. HIGH POINT
 L.P. LOW POINT
 P.C.C. POINT OF COMPOUND CURVATURE
 P.V.I. POINT OF VERTICAL INTERSECTION
 GRD. CHG. GRADE CHANGE
 APPROXIMATE LIMITS OF FLOODWAY FRINGE AS SCALED FROM FIRM MAP PANEL No. 18070010G DATED: NOVEMBER 19, 2014

NOTES

1. ALL EXISTING OFF-SITE DRAIN TILES THAT ARE ENCOUNTERED SHALL BE TIED INTO THE PROPOSED STORM SYSTEM (WHERE APPLICABLE) WITH A POSITIVE OUTFLOW.

UTILITY CROSSINGS

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SITE TBMS

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A ROAD NAIL AT THE APPROXIMATE CENTERLINE INTERSECTION OF FOLIAGE LANE AND BIGLEAF DRIVE.

ELEVATION = 944.20 (NAVD 88)

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1. EXCAVATION

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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.

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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.

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GRAPHIC SCALE
 50' 0' 25' 0'
 (IN FEET)
 1" = 50 FT

TYPICAL REAR YARD GRADE CROSS SECTION
 SCALE: NOT-TO-SCALE

RECORD DRAWING

Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012

7/21/2020

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

STOEPPELWERTH
 REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA
 CERTIFIED: 07/23/19
 David J. Stoepelwerth

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

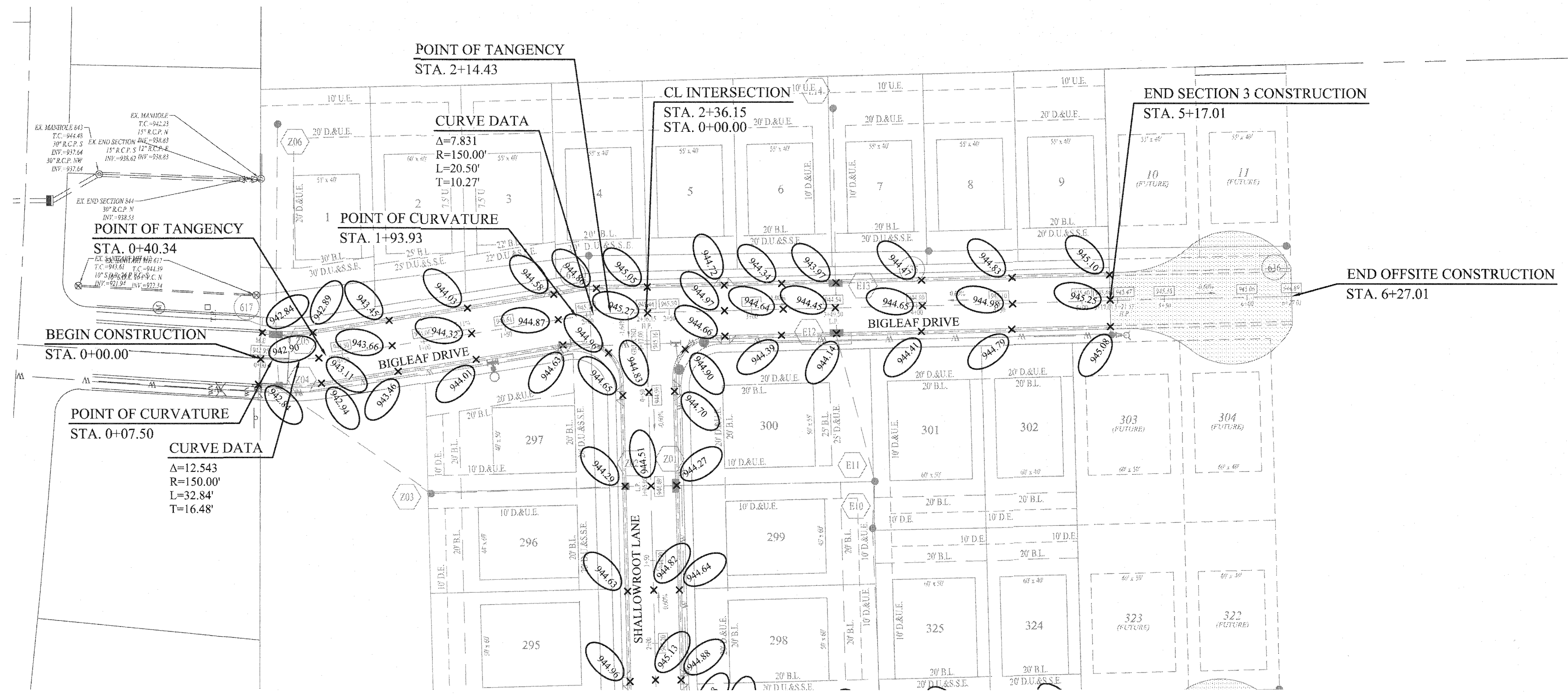
DATE: 07/23/20
 REVISIONS: BY: PDR
 MARK: PDR

OFFSITE GRADING PLAN
MAPLE RUN
SECTION 3
 SHERIDAN, ADAMS TOWNSHIP
 HAMILTON COUNTY, INDIANA

ALWAYS ON
 7965 East High Street, Fishers, IN 46038-2505
 phone: 317.899.5795 fax: 317.899.5942

DRAWN BY: PDR
 CHECKED BY: BKR
 SHEET NO. C202
 S & A FORM 51510ARB-S3

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 Plotted / By:

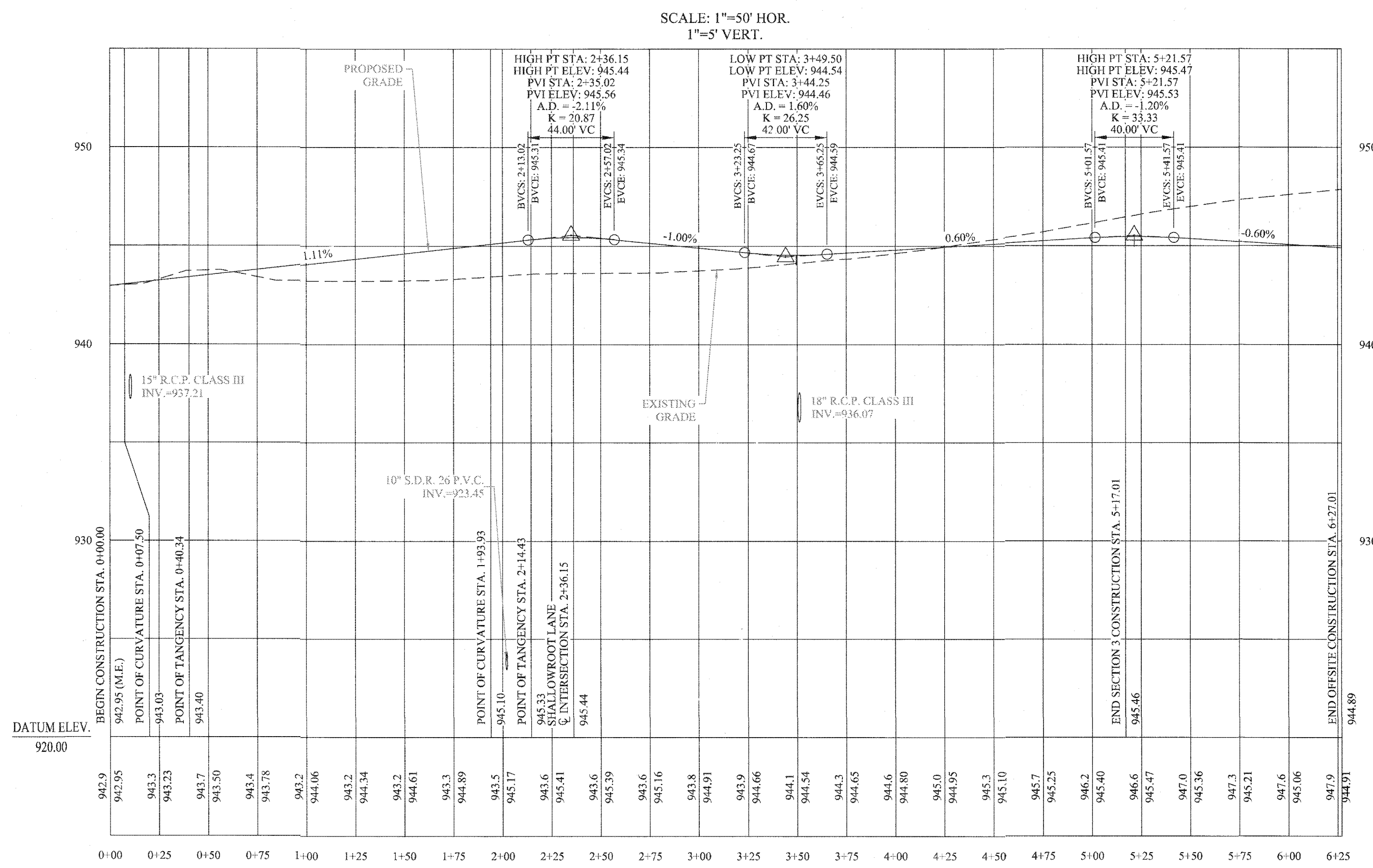
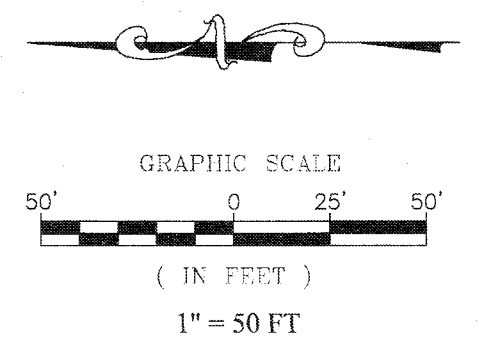


LEGEND

BVCS	BEGIN VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EVCE	END VERTICAL CURVE ELEVATION
AD	GRADE CHANGE
PVI	POINT OF VERTICAL INTERSECTION
VC	VERTICAL CURVE
PCC	POINT OF COMPOUND CURVE (HORIZONTAL)

UTILITY CROSSINGS

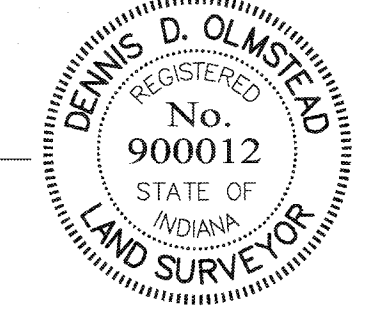
CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.



BIGLEAF DRIVE

RECORD DRAWING

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



AS BUILTS	07/23/20	DATE	MARK	BY
REVISIONS				
REVISED PER TAC COMMENTS				
PDR				
RSM				

THIS DRAWING IS NOT INTENDED TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE SURVEYOR OR A SURVEYOR LOCATION REPORT.

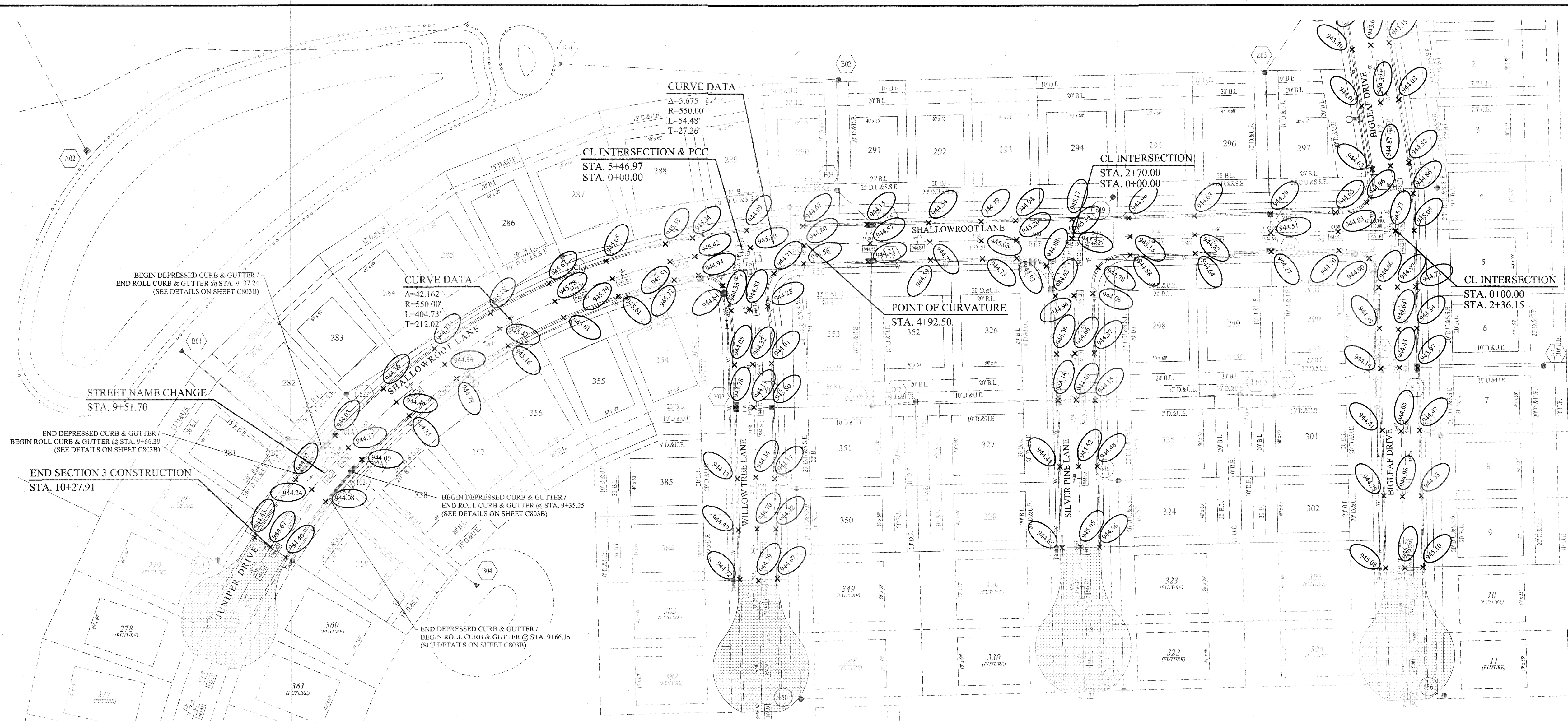
CERTIFIED: 07/23/19
David J. Stappeworth
 David J. Stappeworth
 REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA

STREET PLAN & PROFILES
 MAPLE RUN
 SECTION 3
 SHERIDAN, ADAMS TOWNSHIP
 HAMILTON COUNTY, INDIANA

STOEPPELWERTH
 ALWAYS ON
 7965 East 110th Street, Fishers, IN 46038-2956
 phone: 317.893.5955 fax: 317.893.5992

DRAWN BY: PDR
 CHECKED BY: BKR
 SHEET NO.: C400
 S.A. & R.S.M. NO.: 51510ARB-S3

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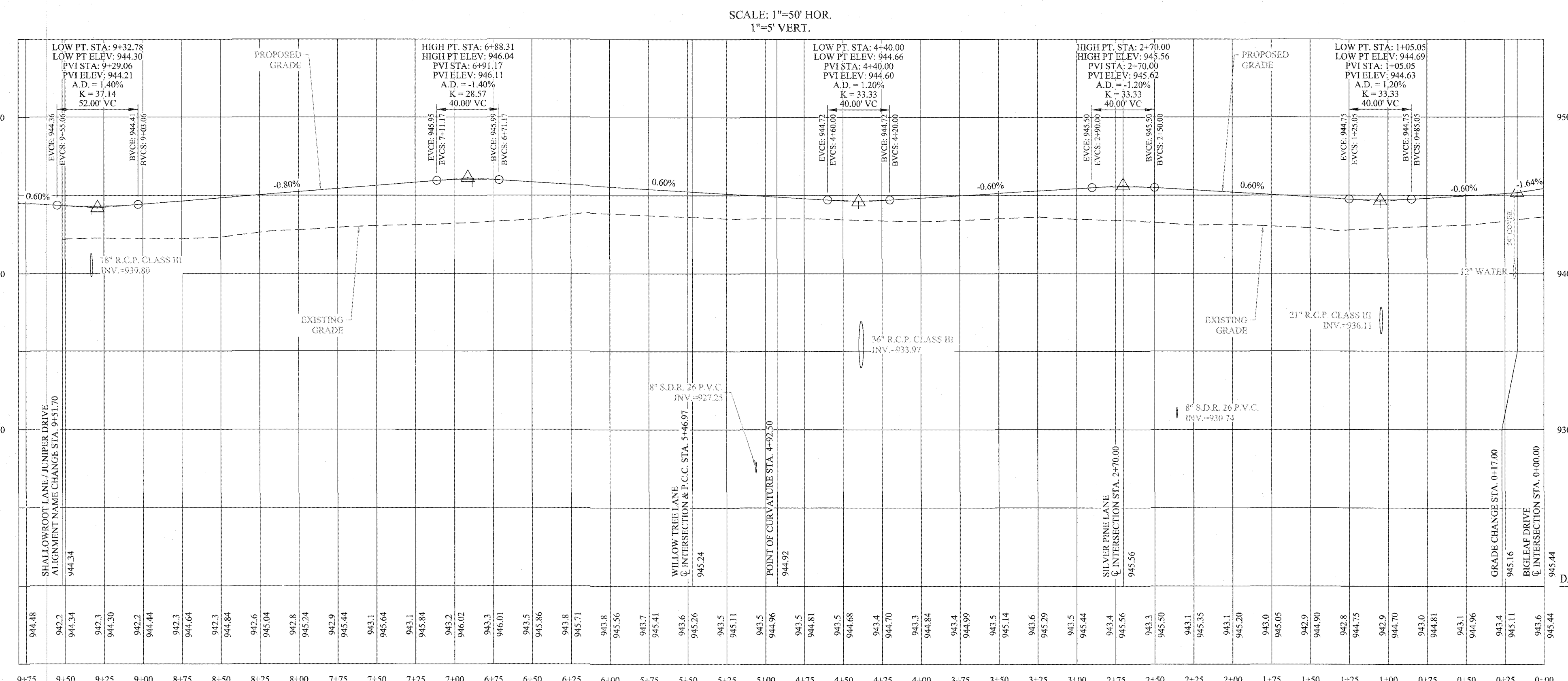
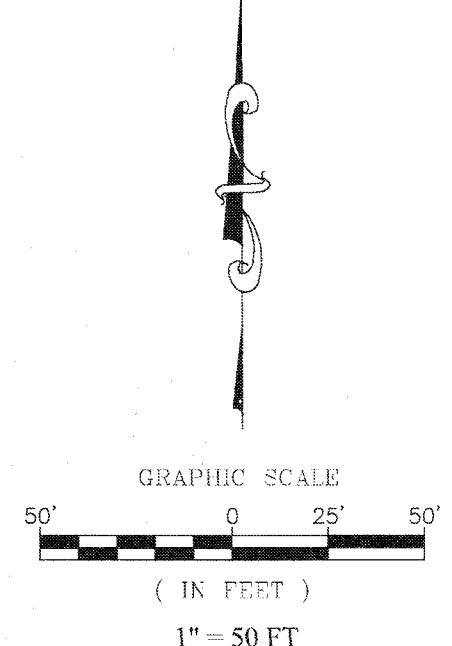


LEGEND

BVCS	BEGIN VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EVCE	END VERTICAL CURVE ELEVATION
AD	GRADE CHANGE
PVI	POINT OF VERTICAL INTERSECTION
VC	VERTICAL CURVE
PCC	POINT OF COMPOUND CURVE (HORIZONTAL)

UTILITY CROSSINGS

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SHALLOWROOT LANE

RECORD DRAWING

D. D. O.
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 7/31/2020



STREET PLAN & PROFILES
 MAPLE RUN
 SECTION 3

SHERIDAN, ADAMS TOWNSHIP
 HAMILTON COUNTY, INDIANA

STOEPPELWERTH
 ALWAYS ON
 7965 East High Street, Fishers, IN 46038-2505
 phone: 317.849.5955 fax: 317.849.5942

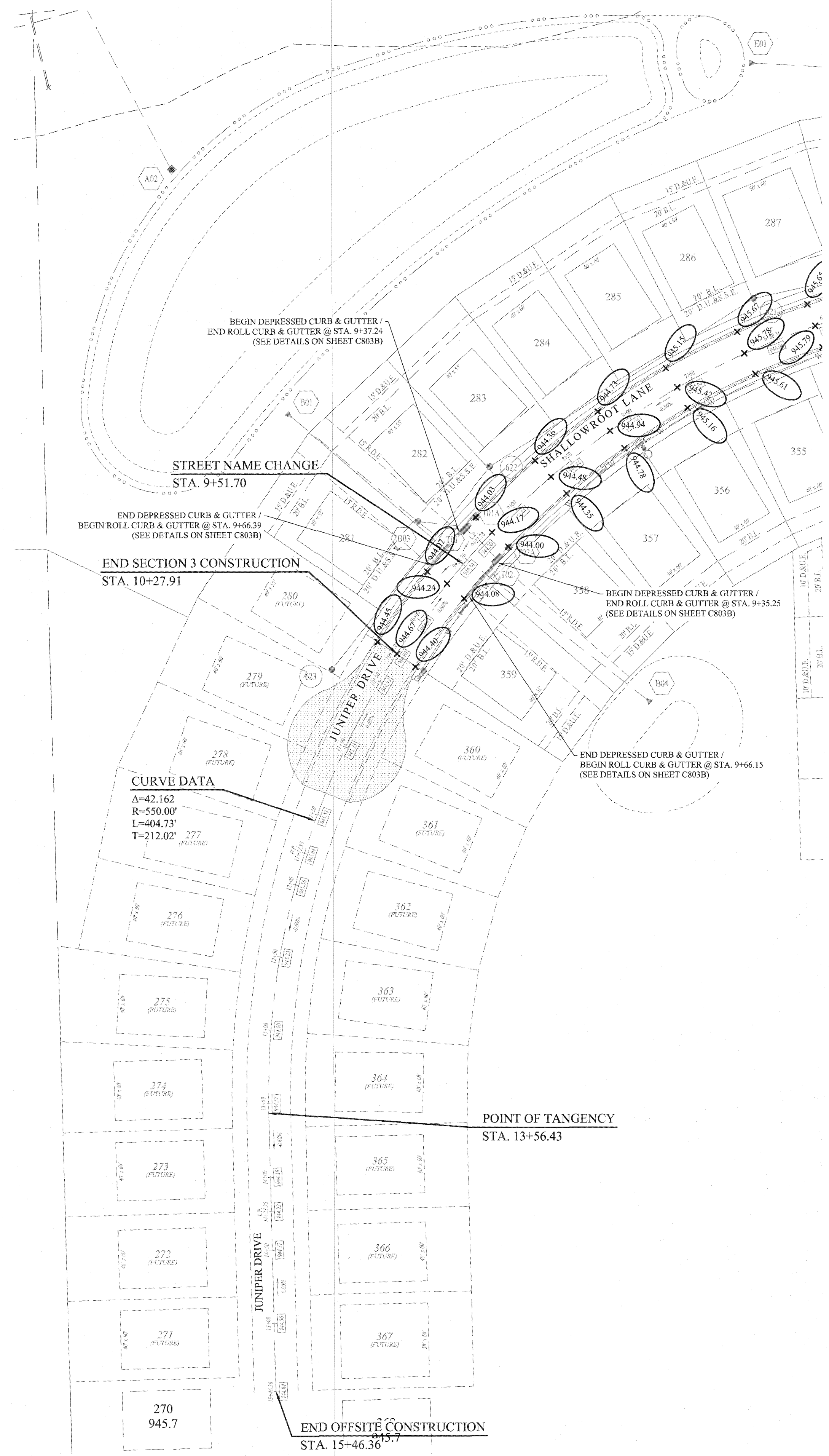
DAVID J. STOEPPELWERTH
 REGISTERED
 No. 19358
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

CERTIFIED: 07/23/19
David J. Stoepelwerth

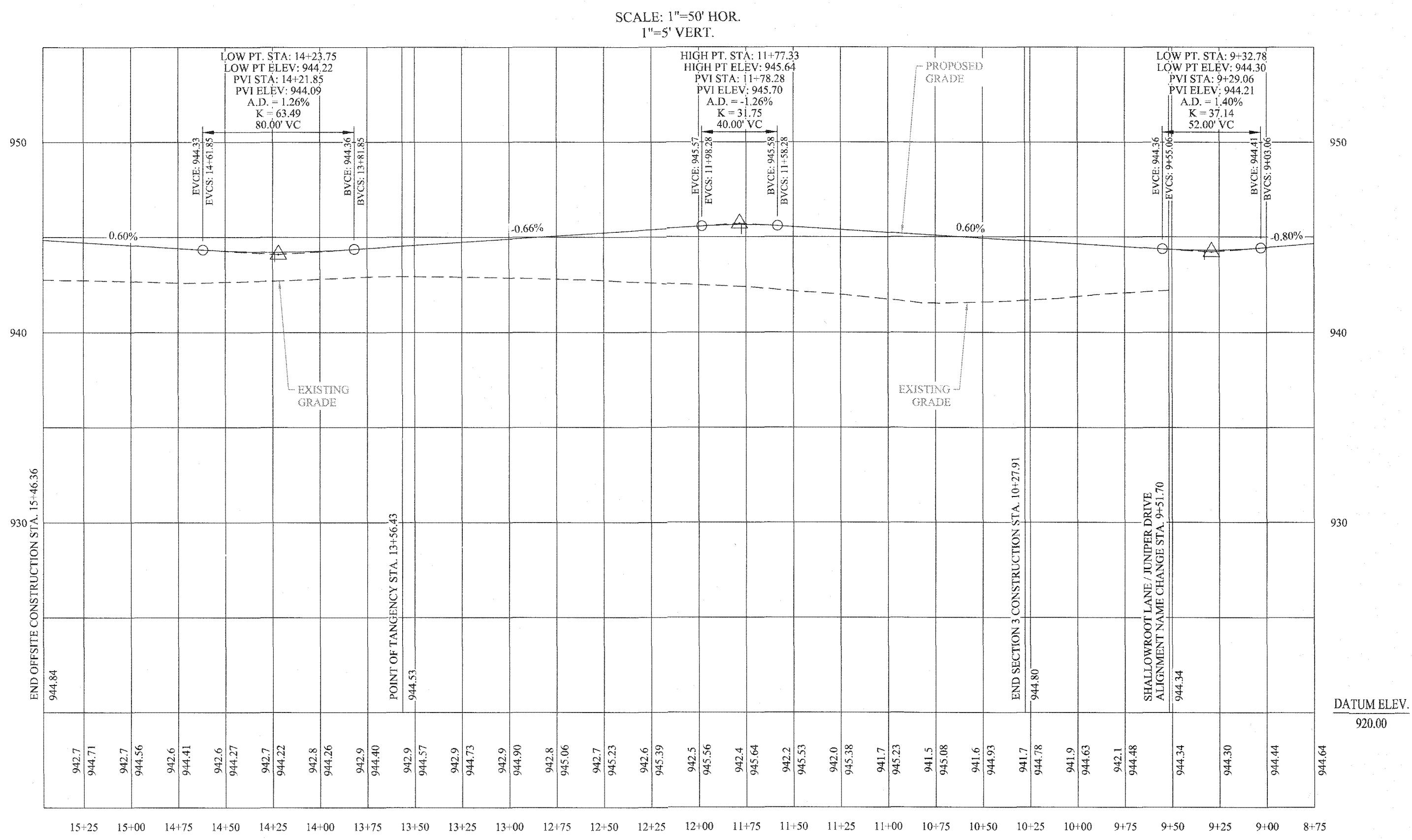
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DATE	07/23/20	AS BUILT	RUM
DATE	07/23/20	ADJUST FUTURE LOT NUMBERS PER CLIENT	RUM

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 CHECKED BY: BKR
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CURVE DATA
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 $L = 404.73'$
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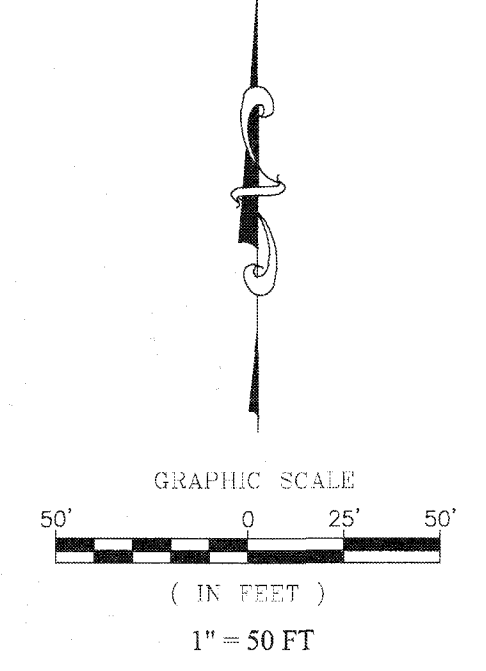
JUNIPER DRIVE

LEGEND

BVCS	BEGIN VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
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DATE	DATE	DATE	DATE
07/31/20	07/31/20	07/31/20	07/31/20
BY	BY	BY	BY

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

CERTIFIED: 07/23/19

David J. Stoepelwirth

David J. Stoepelwirth
 No. 19358
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

STOEPPELWERTH

A. L. WATSON

796 East 16th Street, Fishers, IN 46038-2935
 phone: 317.849.9999 fax: 317.849.9942

STREET PLAN & PROFILES

MAPLE RUN SECTION 3

SHERIDAN, ADAMS TOWNSHIP HAMILTON COUNTY, INDIANA

RECORD DRAWING

DRAWN BY: PDR
 CHECKED BY: BKR

7/31/2020

Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012

7/31/2020

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

SHEET NO. **C402**

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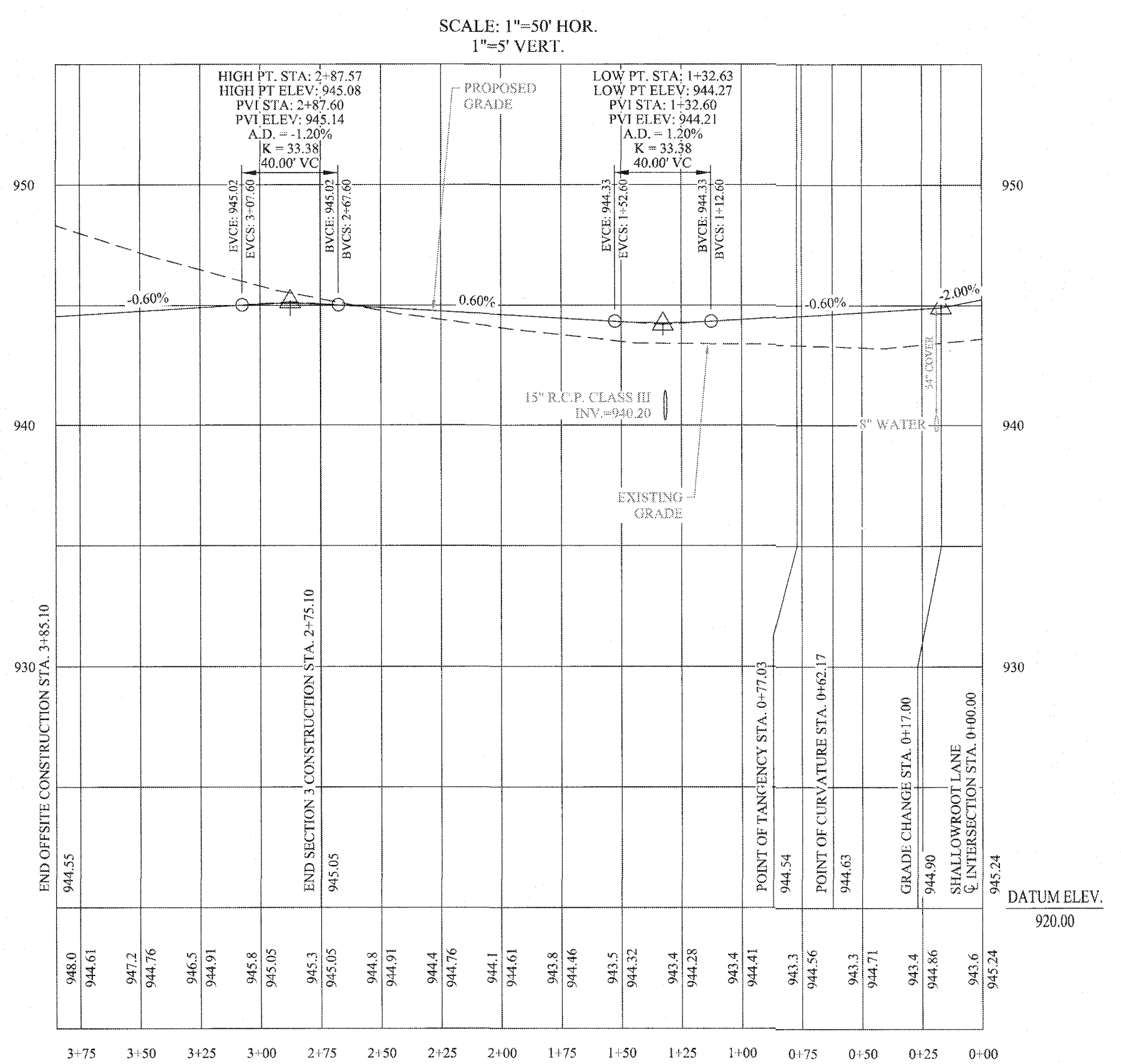
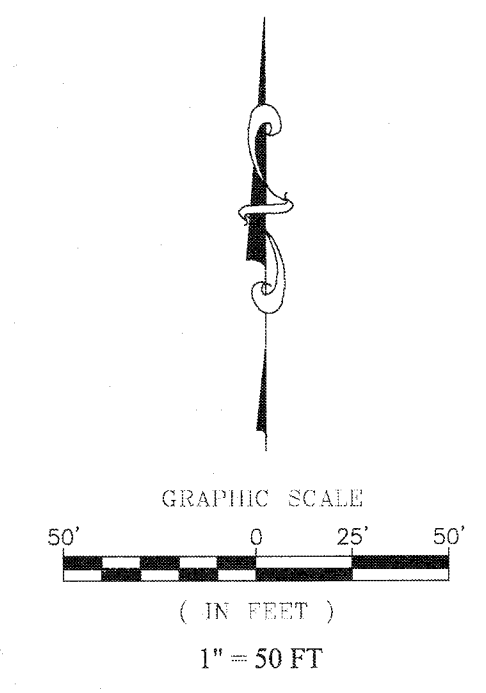


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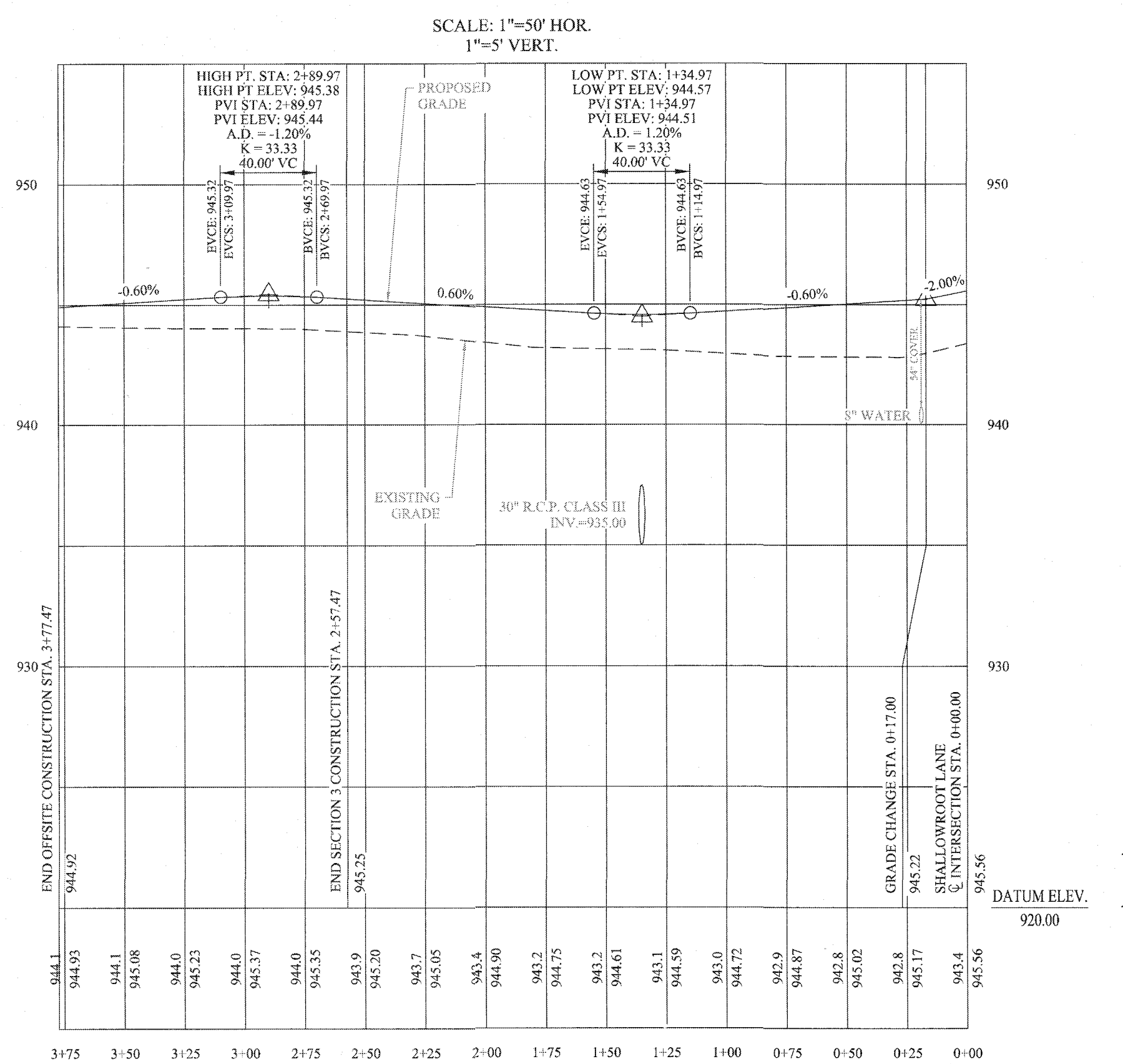
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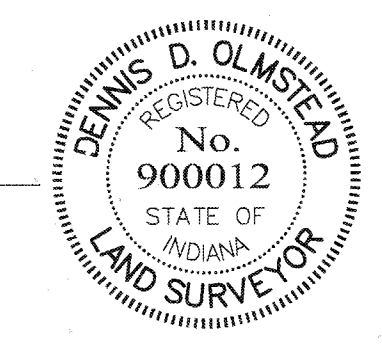
WILLOW TREE LANE



SILVER PINE LANE

RECORD DRAWING

[Signature]
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 7/24/2020



STREET PLAN & PROFILES
MAPLE RUN
SECTION 3

SHERIDAN, ADAMS TOWNSHIP
 HAMILTON COUNTY, INDIANA

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 phone: 317.899.5985 fax: 317.899.5942

REGISTERED PROFESSIONAL ENGINEER
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 STATE OF INDIANA
David J. Stoepfelwirth
 CERTIFIED: 07/23/19

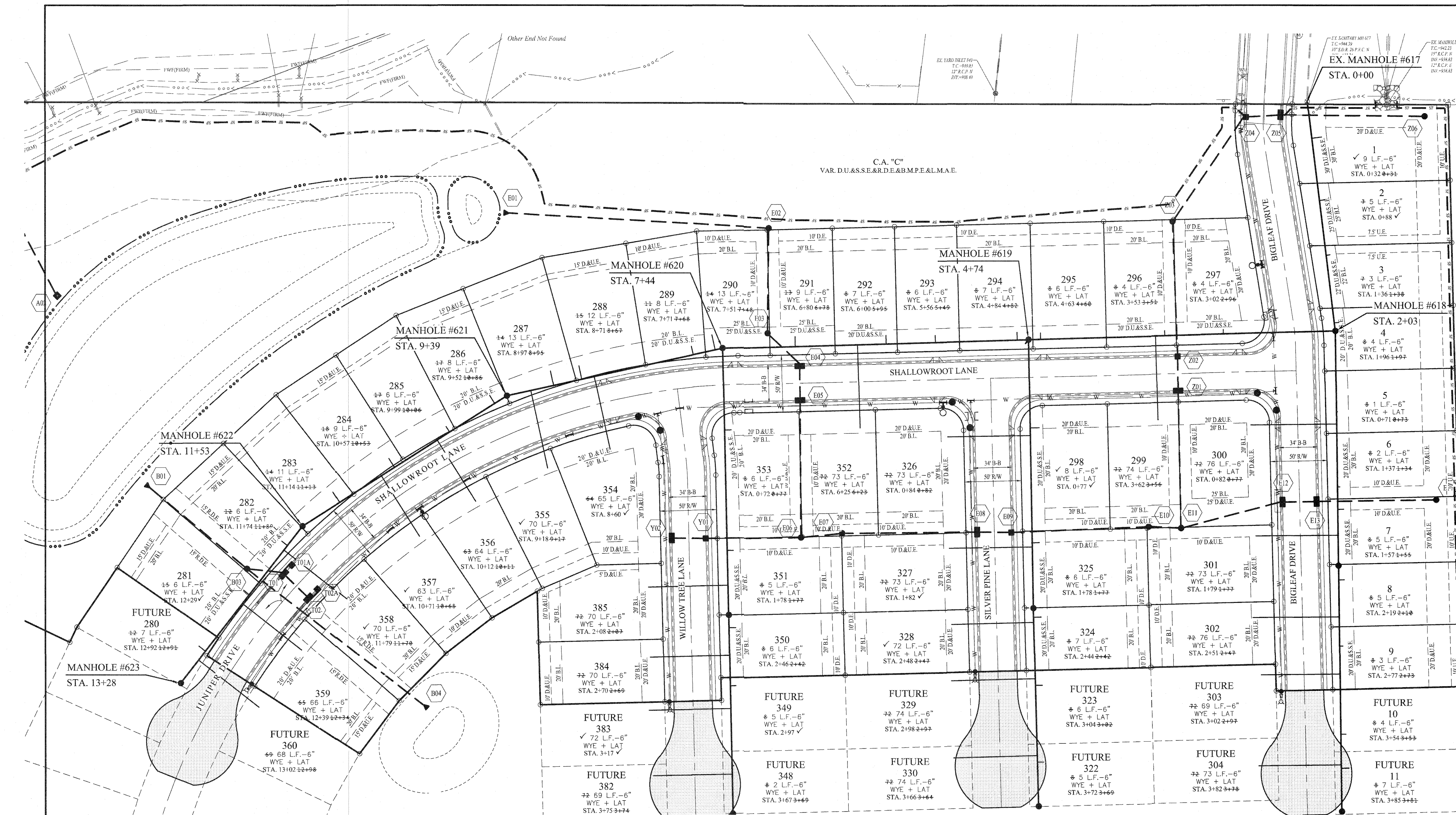
THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY OR A SURVEYOR LOCATION REPORT.

AS BUILT PDR
 07/23/19
 08/21/19
 DATE MARK

REVISIONS

BY

DRAWN BY: PDR
 CHECKED BY: BKR
 SHEET NO. **C403**
 S & A JOB NO. 51510ARB-S3



- LEGEND**
- EXISTING SANITARY SEWER (w/ LATERALS)
 - EXISTING STORM SEWER
 - EXISTING WATER LINE
 - PROPOSED SANITARY SEWER (w/ LATERALS)
 - PROPOSED STORM SEWER
 - PROPOSED WATER LINE
 - DENOTES FULL DEPTH GRANULAR BACKFILL
- NOTES**
- MIN. SLOPES PER THE TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.
 - ALL WATER MAINS SHALL MAINTAIN 18 INCHES VERTICAL CLEARANCE AND 10 FEET HORIZONTAL CLEARANCE.
 - CONTRACTOR SHALL INSTALL SERVICE LATERALS TO FUTURE LOTS NOTED ON PLANS.
 - INSTALLATION OF PVC SANITARY SEWERS SHALL MEET REQUIREMENTS OF ASTM D2321.
- UTILITY CROSSINGS**
- 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.

GRAPHIC SCALE
 50' 0 25' 50'
 (IN FEET)
 1" = 50 FT

RECORD DRAWING

D.D.O.
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 7/31/2020

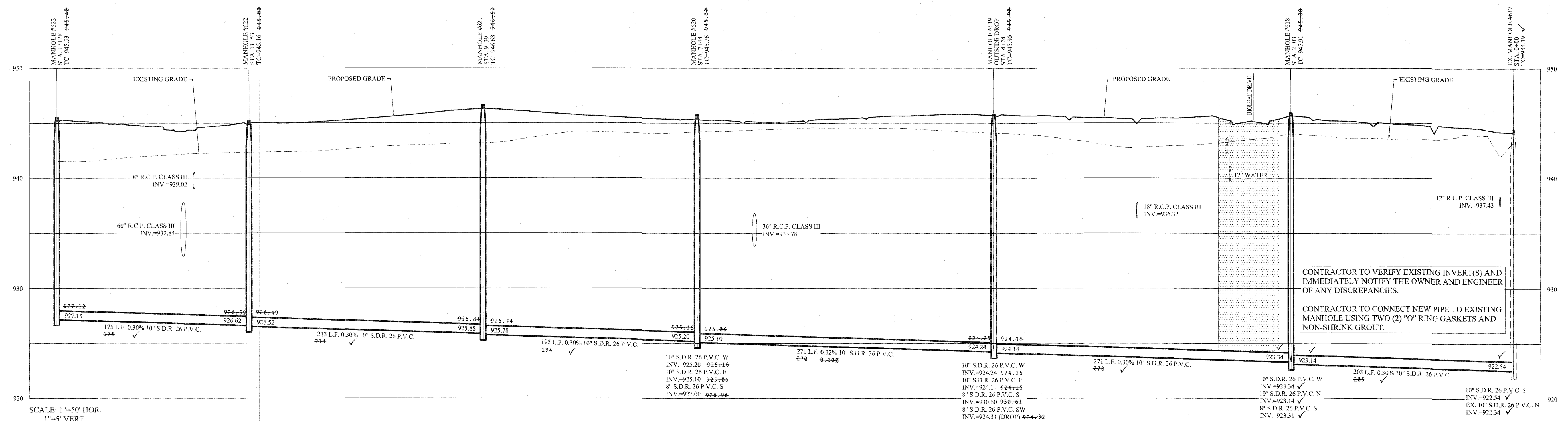


DATE	MARK	REVISIONS
07/23/20		AS BUILTS
08/19/19		REVISED PER IAC COMMENTS
08/19/19		REVISED PER IAC COMMENTS
		REVISIONS

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

CERTIFIED: 07/23/19
David J. Stoppelwerth
 David J. Stoppelwerth
 REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA

STOEPPELWERTH
 ALWAYS ON
 795 East 10th Street, Fishers, IN 46038-2956
 phone: 317.849.5905 fax: 317.849.5942

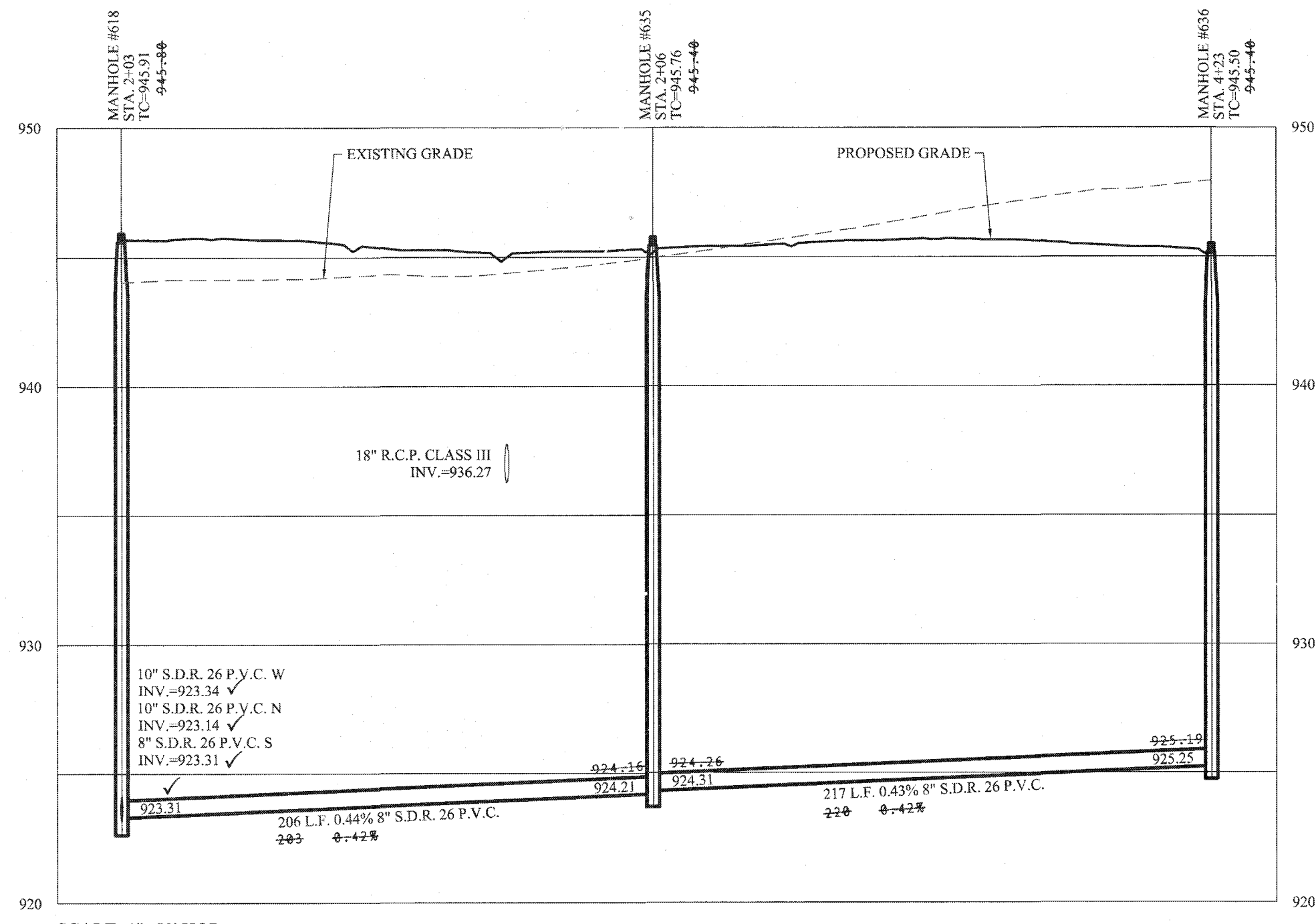


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 Plotted / By: July 31, 2020 8:53:20 AM / Raven Morris

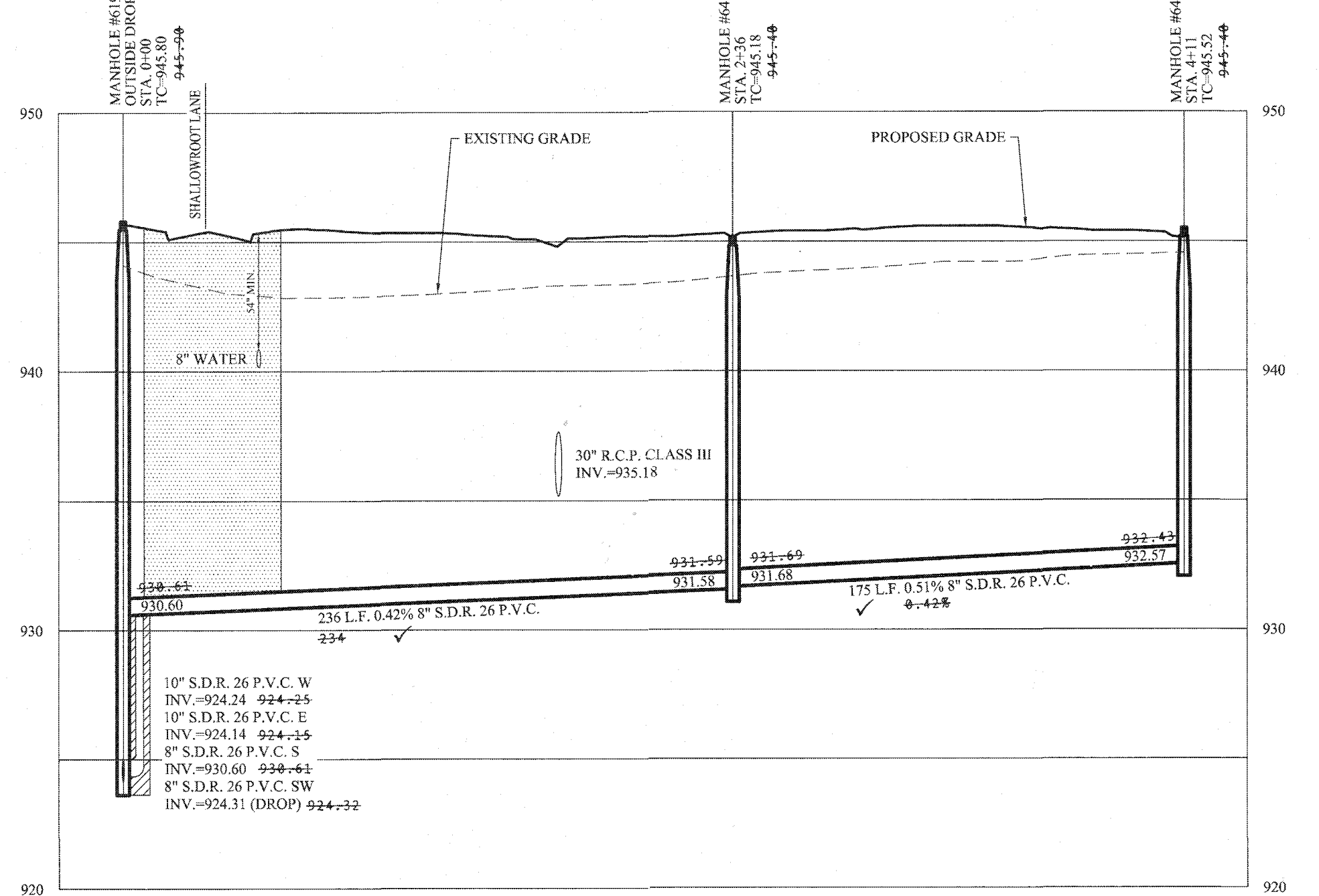
SANITARY SEWER PLAN & PROFILE
 MAPLE RUN SECTION 3
 SHERIDAN, ADAMS TOWNSHIP
 HAMILTON COUNTY, INDIANA

DRAWN BY: PDR
 CHECKED BY: BKR
 SHEET NO. C500
 S.A. JOB NO. 51510ARB-S3

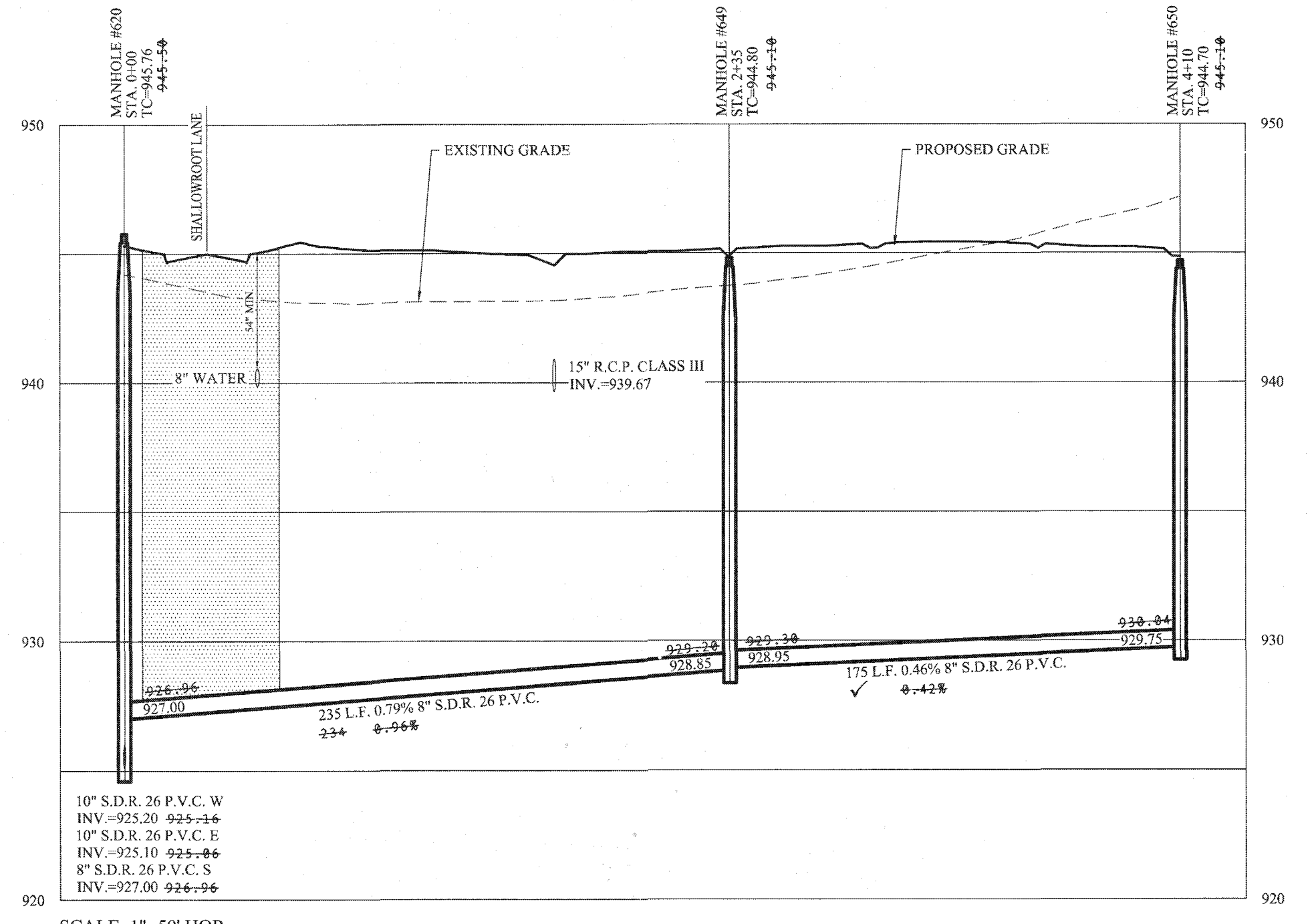
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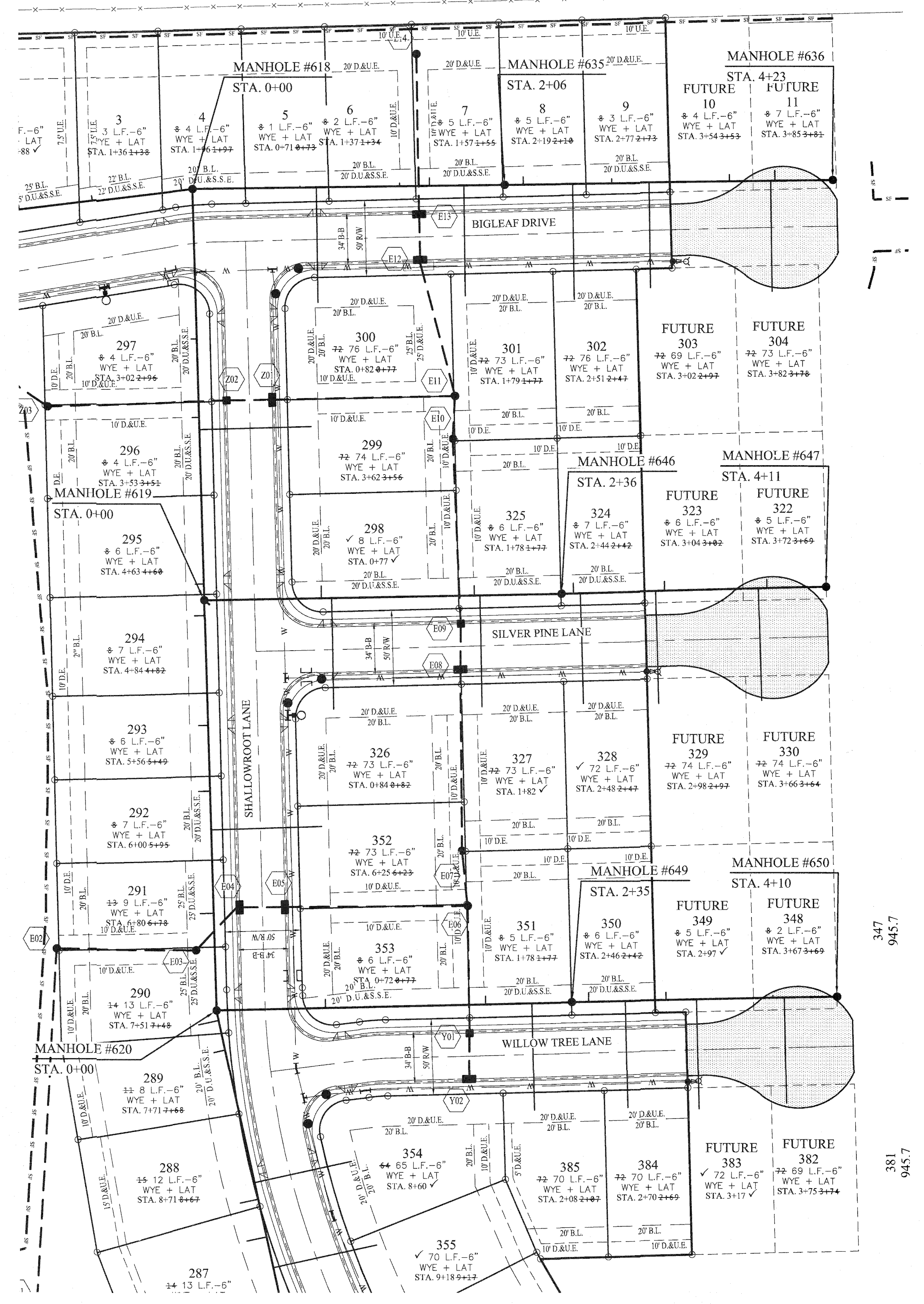
SCALE: 1"=50' HOR.
1"=5' VERT.



SCALE: 1"=50' HOR.
1"=5' VERT.

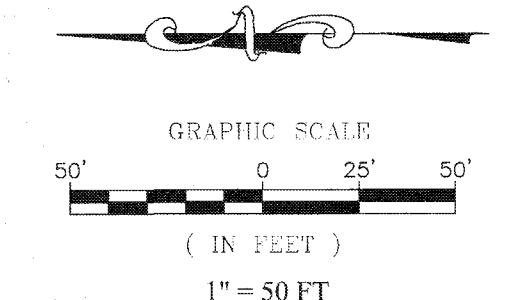


SCALE: 1"=50' HOR.
1"=5' VERT.



SANITARY STRUCTURE DATA TABLE													
STR.#	TYPE	T.C.	CASTING TYPE	DIA. IN	DIR. IN	INV. IN	DIA. OUT	DIR. OUT	INV. OUT	SLOPE	PIPE	LEN.	MATERIAL
618	4" MH	945.91	R-1712	10"	W	923.34	10"	N	923.14	0.30%	618-619	271'	S.D.R. 26 P.V.C.
619	4" MH	945.79	R-1712	10"	W	924.24	10"	E	924.14	0.30%	619-620	271'	S.D.R. 26 P.V.C.
620	4" MH	945.76	R-1712	10"	W	925.20	10"	E	925.10	0.32%	620-621	195'	S.D.R. 26 P.V.C.
621	4" MH	946.63	R-1712	10"	SW	925.88	10"	E	925.78	0.30%	621-622	213'	S.D.R. 26 P.V.C.
622	4" MH	945.16	R-1712	10"	SW	926.62	10"	NE	926.52	0.30%	622-623	175'	S.D.R. 26 P.V.C.
623	4" MH	945.53	R-1712	10"	S	924.31	8"	N	924.21	0.44%	623-624	217'	S.D.R. 26 P.V.C.
635	4" MH	945.76	R-1712	8"	S	924.31	8"	N	925.25	0.43%	635-636	217'	S.D.R. 26 P.V.C.
636	4" MH	945.50	R-1712	8"	S	931.68	8"	N	931.58	0.42%	636-647	175'	S.D.R. 26 P.V.C.
646	4" MH	945.52	R-1712	8"	S	932.57	8"	N	932.47	0.51%	646-647	175'	S.D.R. 26 P.V.C.
649	4" MH	944.80	R-1712	8"	S	928.95	8"	N	928.85	0.79%	649-650	175'	S.D.R. 26 P.V.C.
650	4" MH	944.70	R-1712	8"	S	929.75	8"	N	929.65	0.46%	649-650	175'	S.D.R. 26 P.V.C.

- LEGEND**
- EXISTING SANITARY SEWER (w/ LATERALS)
 - EXISTING STORM SEWER
 - EXISTING WATER LINE
 - PROPOSED SANITARY SEWER (w/ LATERALS)
 - PROPOSED STORM SEWER
 - PROPOSED WATER LINE
 - Denotes FULL DEPTH GRANULAR BACKFILL
- NOTES**
- MIN. SLOPES PER THE TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.
 - ALL WATER MAINS SHALL MAINTAIN 18 INCHES VERTICAL CLEARANCE AND 10 FEET HORIZONTAL CLEARANCE.
 - CONTRACTOR SHALL INSTALL SERVICE LATERALS TO FUTURE LOTS NOTED ON PLANS.
 - INSTALLATION OF PVC SANITARY SEWERS SHALL MEET REQUIREMENTS OF ASTM D2221.
- UTILITY CROSSINGS**
- 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.



DATE	REVISIONS	MARK	BY
08/21/19	REVISED PER IAC COMMENTS		BKM
09/19/19	REVISED PER IAC COMMENTS		DSM
07/23/20	REVISED PER IAC COMMENTS		PDR

THIS DRAWING IS NOT INTENDED TO BE ORIGINAL BOUNDARY SURVEY A SOURCE SURVEY OR A SURVEYOR LOCATION REPORT.

CERTIFIED: 07/23/19

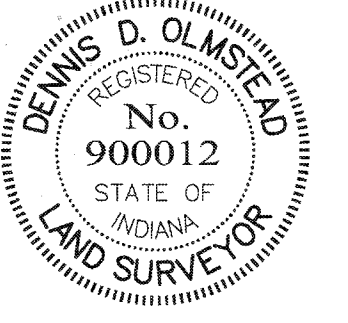
David J. Stoppelwirth
 REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA

STOEPPELWERTH
 ALWAYS ON
 7965 East High Street, Fishers, IN 46088-2505
 phone: 317-892-5955 fax: 317-892-5942

SANITARY SEWER PLAN & PROFILE
 MAPLE RUN
 SECTION 3
 SHERIDAN, ADAMS TOWNSHIP
 HAMILTON COUNTY, INDIANA

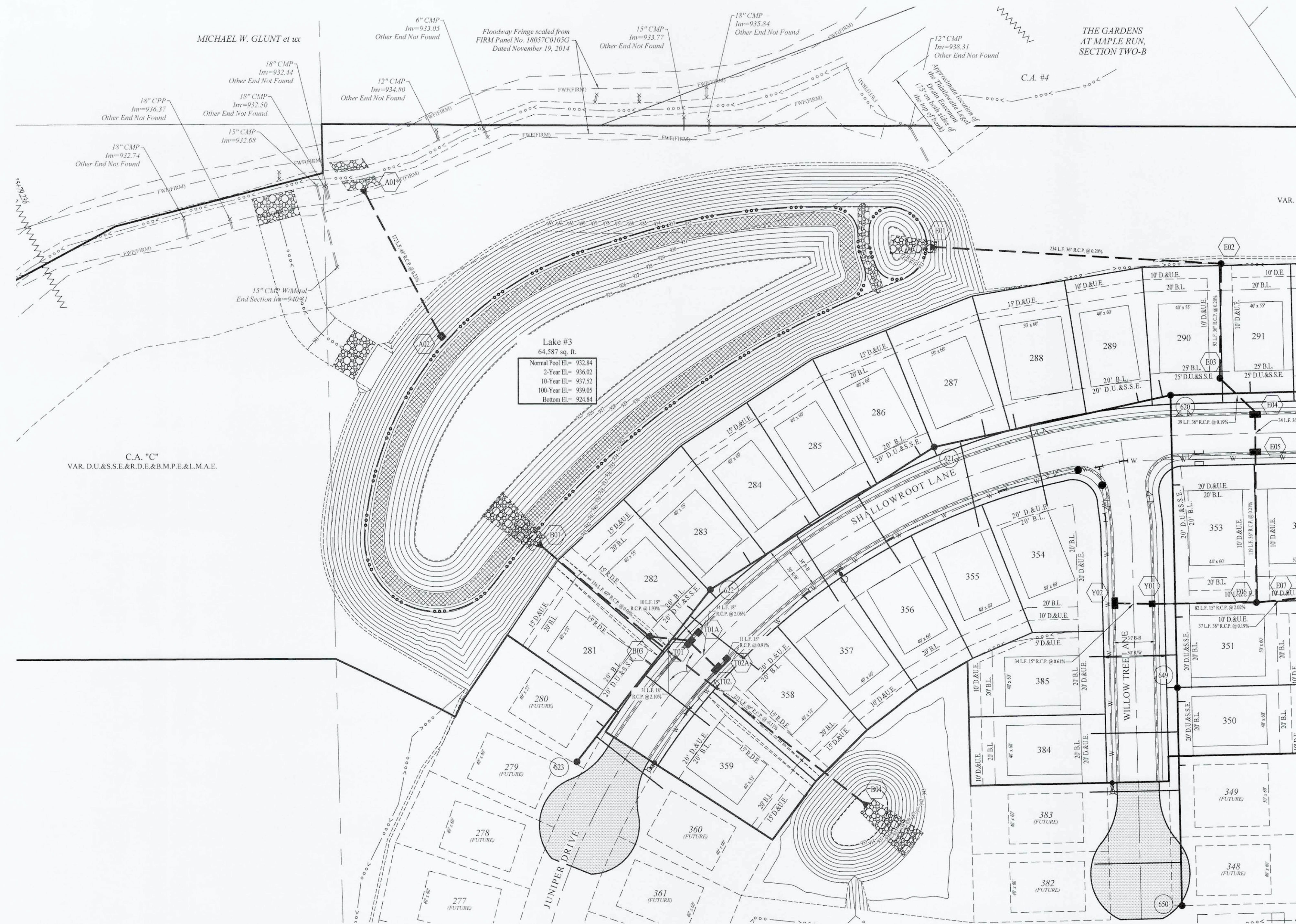
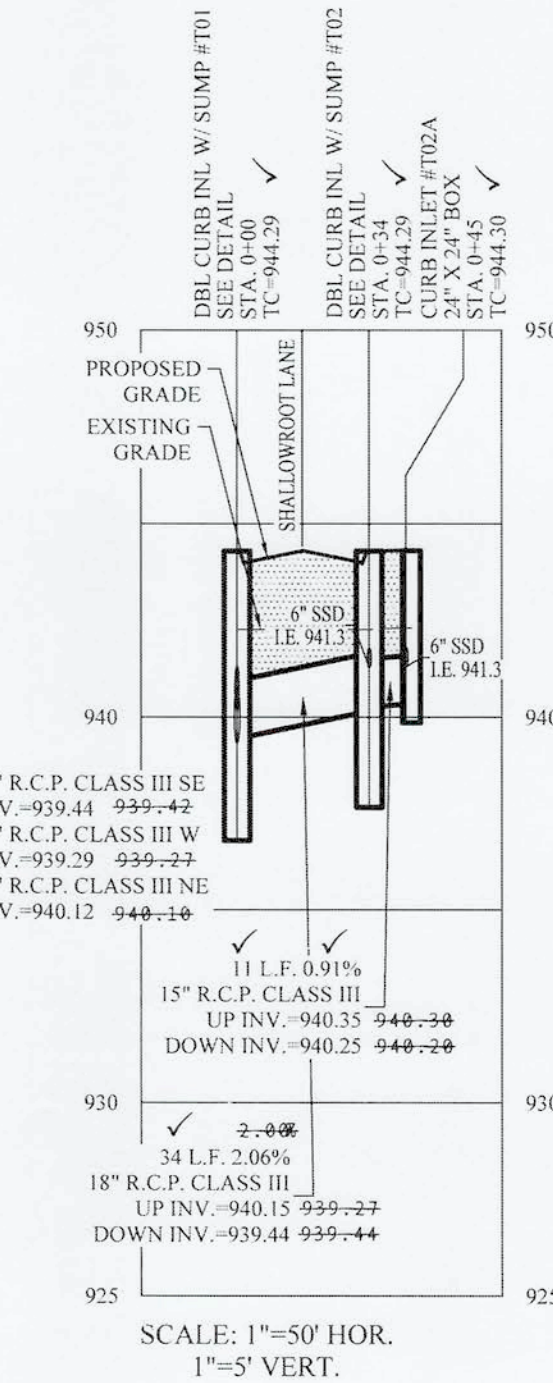
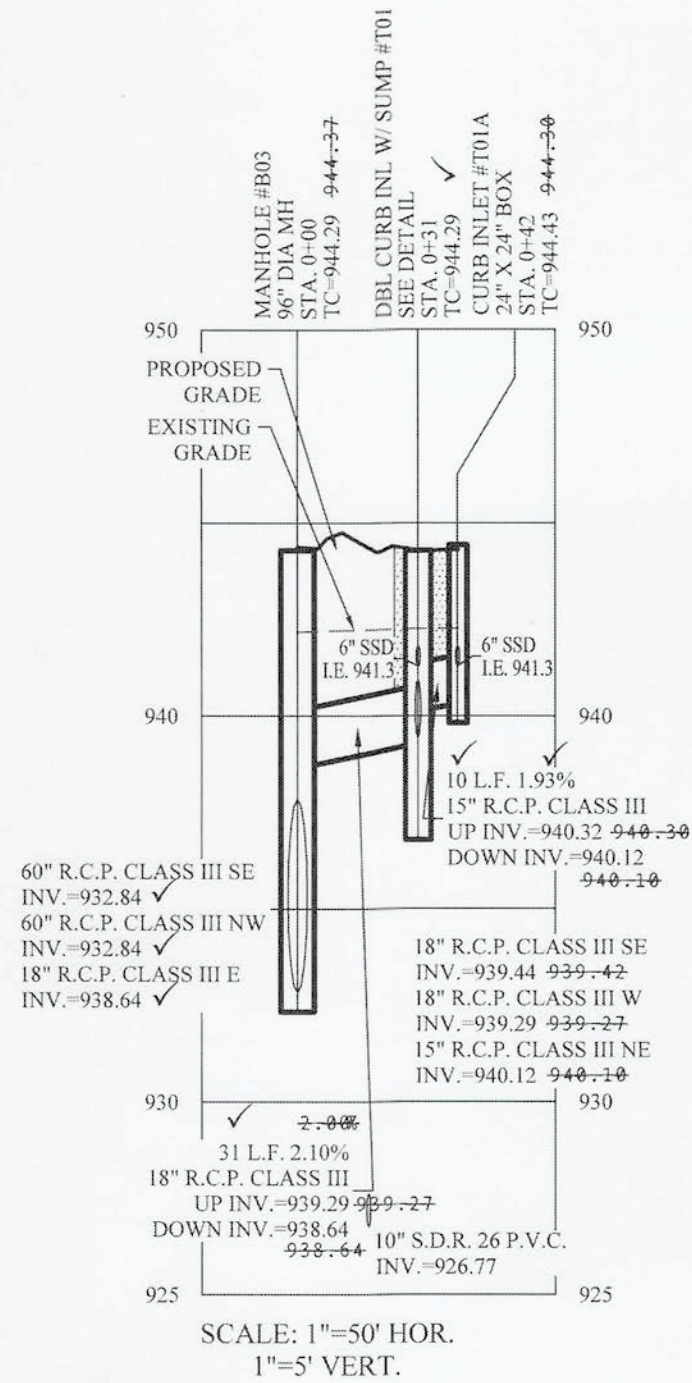
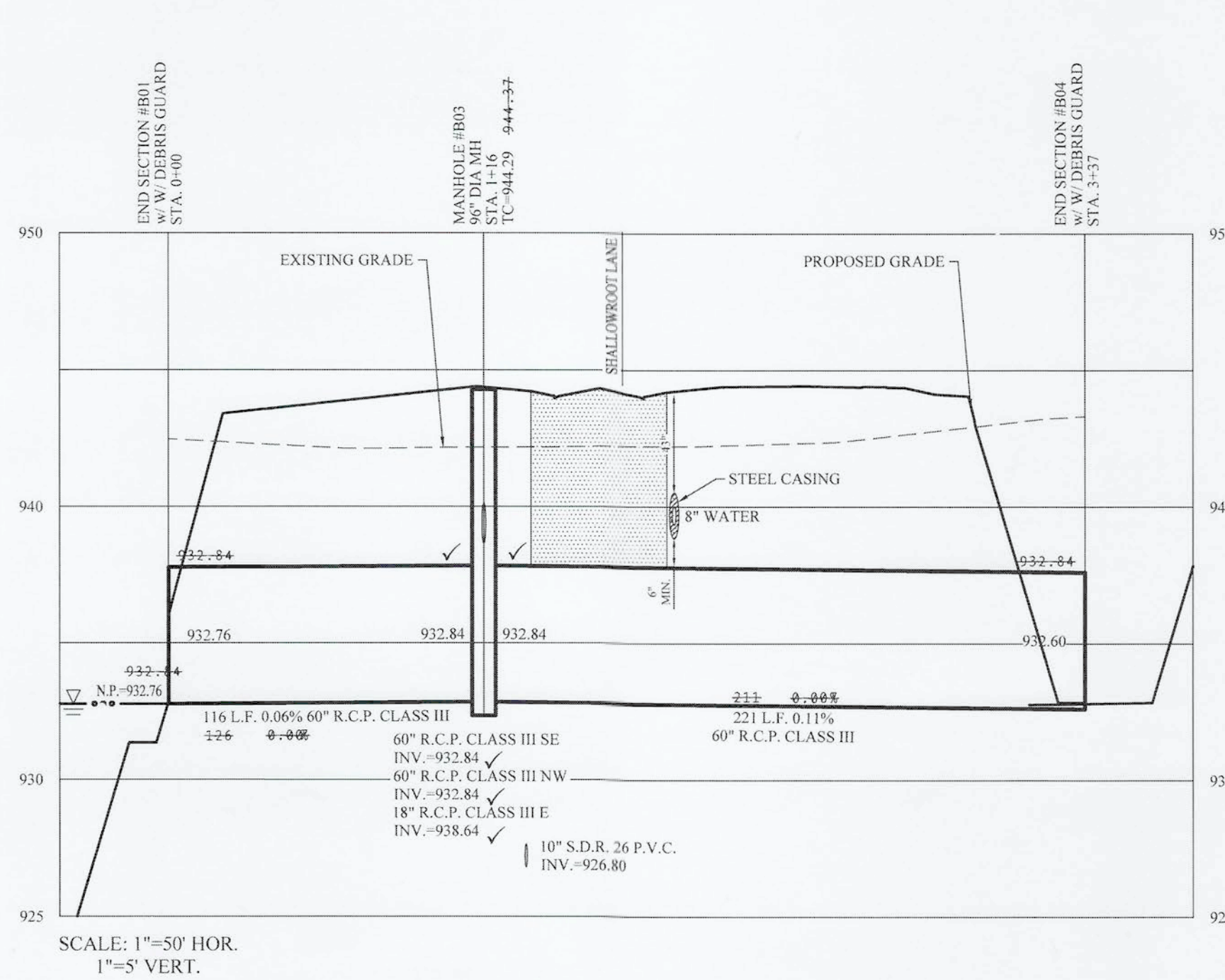
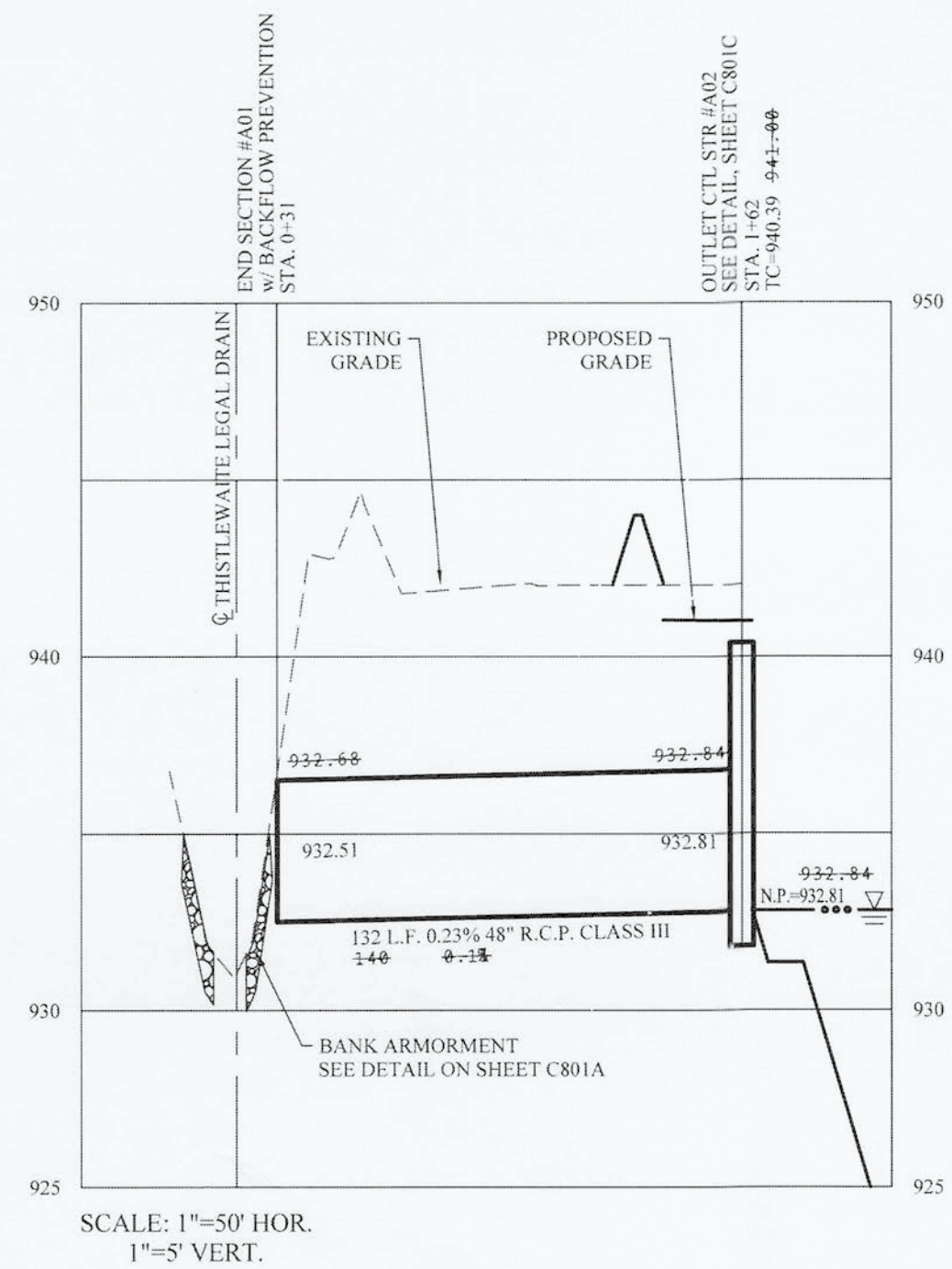
RECORD DRAWING

Drawn by: *D.J. Stoppelwirth*
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 7/24/2020



DRAWN BY: PDR
 CHECKED BY: BKR
 SHEET NO: **C501**
 S & A FOR NO: 51510ARB-S3

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 November 16, 2021 11:42:28 AM



LEGEND

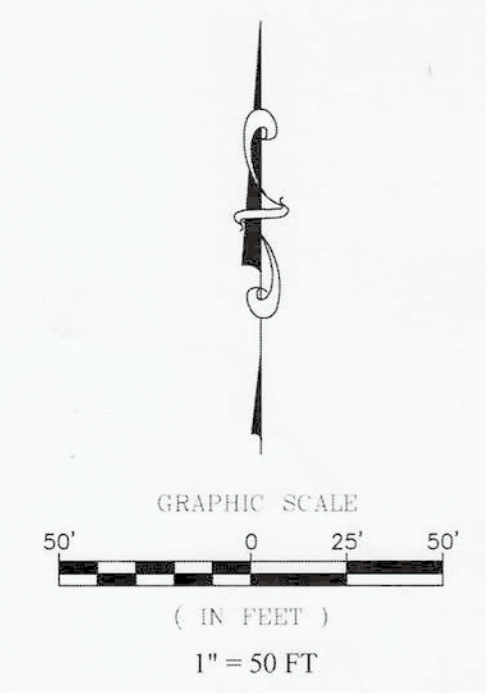
- EXISTING SANITARY SEWER (w/ LATERALS)
- EXISTING STORM SEWER
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER (w/ LATERALS)
- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- DENOTES FULL DEPTH GRANULAR BACKFILL

NOTES

- ALL WATER MAINS SHALL MAINTAIN 18 INCHES VERTICAL CLEARANCE AND 10 FEET HORIZONTAL CLEARANCE.
- SEE SHEETS C801A - C801C FOR STRUCTURE DETAILS.

UTILITY CROSSINGS

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.



DATE	MARK	REVISIONS
08/21/19		PDR
07/23/20		RSM
11/16/21		MIE

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

CERTIFIED: 07/23/19

David J. Stoepelwirth

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

STOEPPELWIRTH
 ALWAYS ON

7905 East 10th Street, Fishers, IN 46038-5905
 phone: 317.849.5945 fax: 317.849.5942

STORM SEWER PLAN & PROFILES

MAPLE RUN SECTION 3

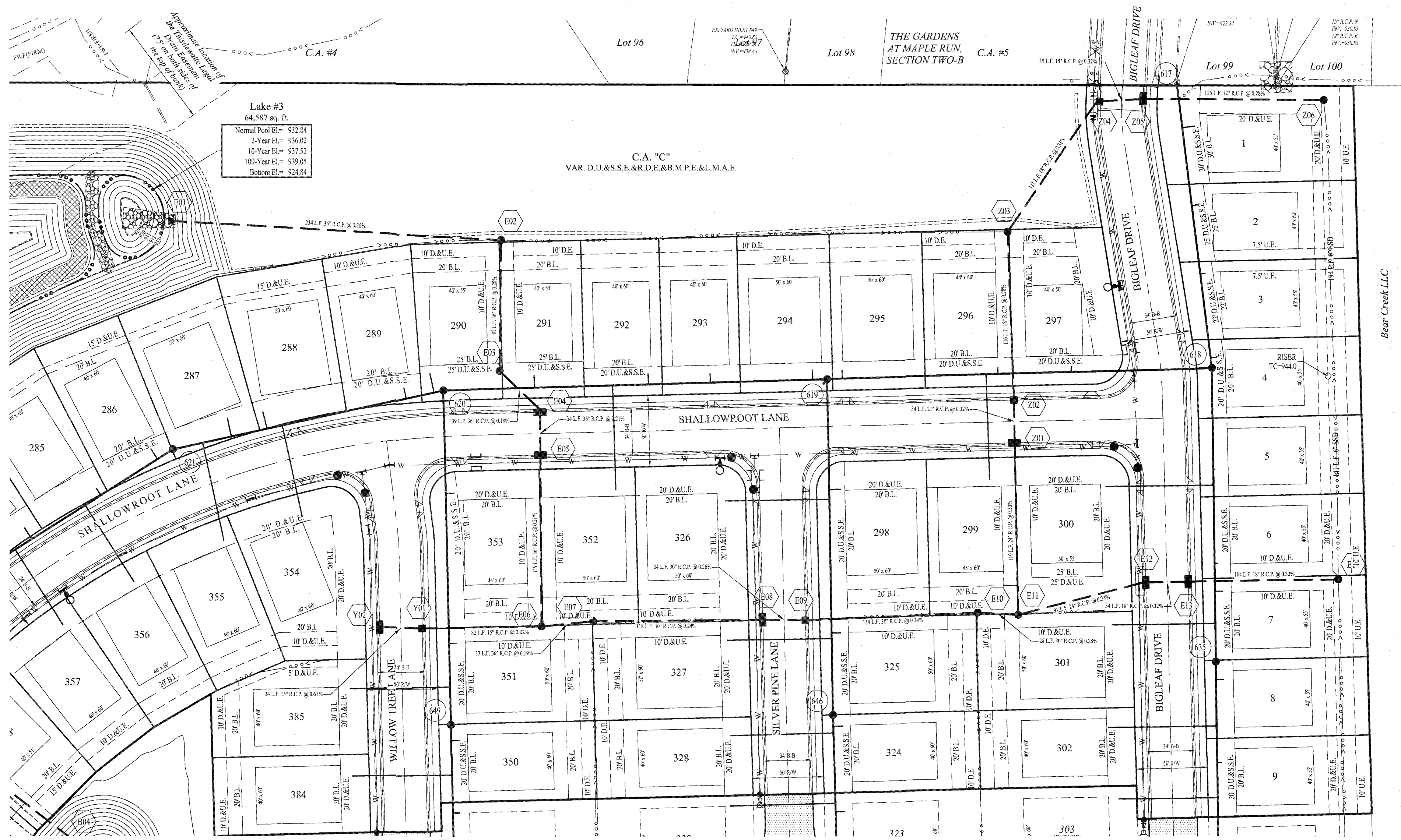
RECORD DRAWING

SHERIDAN, ADAMS TOWNSHIP HAMILTON COUNTY, INDIANA

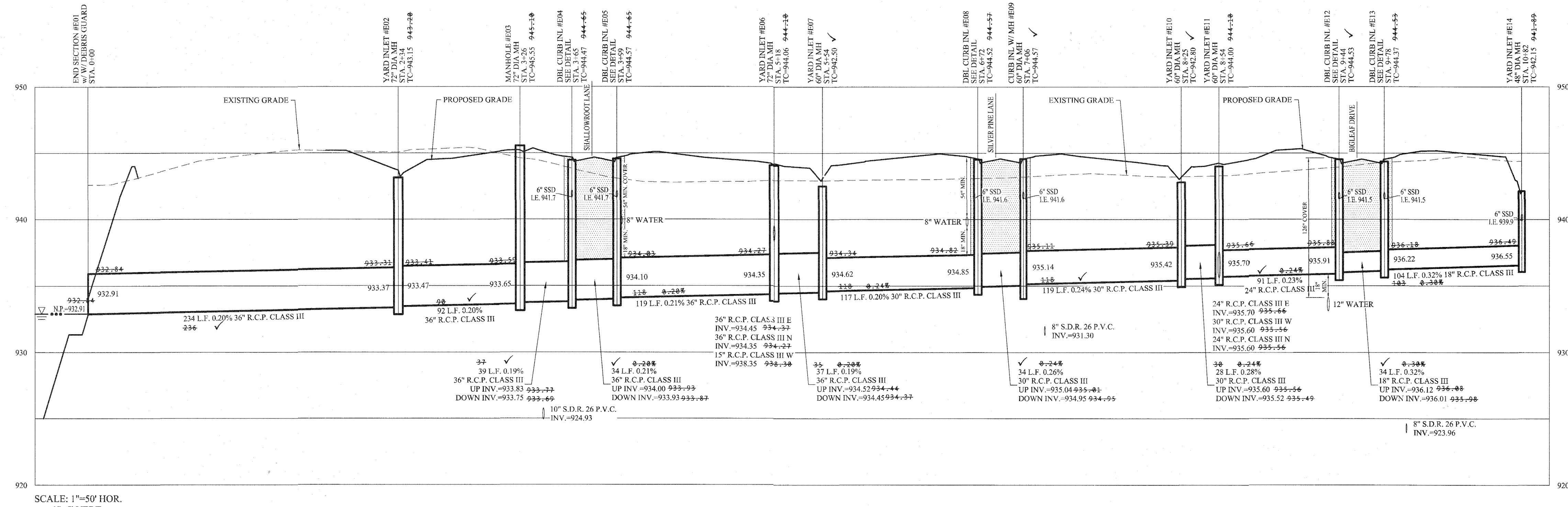
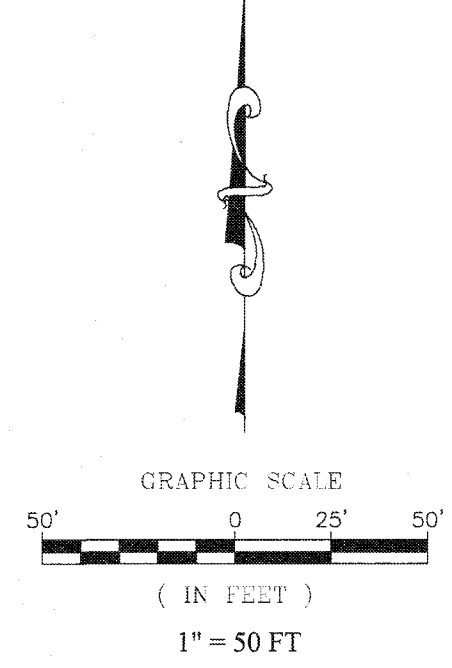
DRAWN BY: PDR CHECKED BY: BKR
 SHEET NO: C600
 S & A JOB NO: 51510ARB-S3

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

11/16/2021



- LEGEND**
- EXISTING SANITARY SEWER (w/ LATERALS)
 - EXISTING STORM SEWER
 - W—W— EXISTING WATER LINE
 - PROPOSED SANITARY SEWER (w/ LATERALS)
 - PROPOSED STORM SEWER
 - W—W— PROPOSED WATER LINE
 - ▨ DENOTES FULL DEPTH GRANULAR BACKFILL
- NOTES**
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 - SEE SHEETS C801A - C801C FOR STRUCTURE DETAILS.
- UTILITY CROSSINGS**
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RECORD DRAWING

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



DATE	MARK	BY
07/23/20		AS BUILTS
08/21/19		REVISED PER TAC COMMENTS

THIS DRAWING IS NOT INTENDED TO BE USED AS A BASIS FOR CONSTRUCTION OR AS A BASIS FOR A SURVEYOR LOCATION REPORT.

CERTIFIED: 07/23/19
David J. Stappeler
 David J. Stappeler, P.E.
 Registered Professional Engineer
 No. 19358
 STATE OF INDIANA

STOEPPELWERTH
 ALWAYS ON
 7965 East High Street, Fishers, IN 46038-2505
 phone: 317.949.5955 fax: 317.949.5992

STORM SEWER PLAN & PROFILES
MAPLE RUN
SECTION 3
 SHERIDAN, ADAMS TOWNSHIP
 HAMILTON COUNTY, INDIANA

DRAWN BY: PDR
 CHECKED BY: BKR
 SHEET NO: **C601**
 S.I.A. FORM NO. 51510ARB-S3

S:\51510ARB-S3\DWG\C600 - Storm Plan & Profile.dwg - C601
 July 16, 2020 10:49:21 AM / meavans
 July 23, 2020 11:46:36 AM / Raven Morris

LEGEND

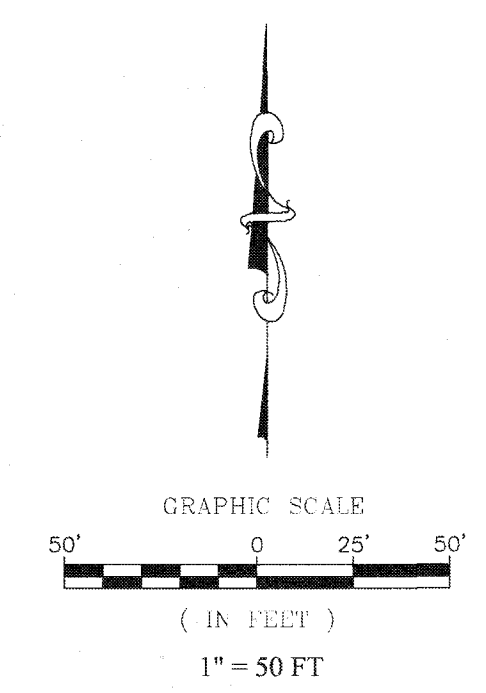
- EXISTING SANITARY SEWER (w/ LATERALS)
- EXISTING STORM SEWER
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER (w/ LATERALS)
- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- DENOTES FULL DEPTH GRANULAR BACKFILL

NOTES

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- SEE SHEETS C801-A - C801-C FOR STRUCTURE DETAILS.

UTILITY CROSSINGS

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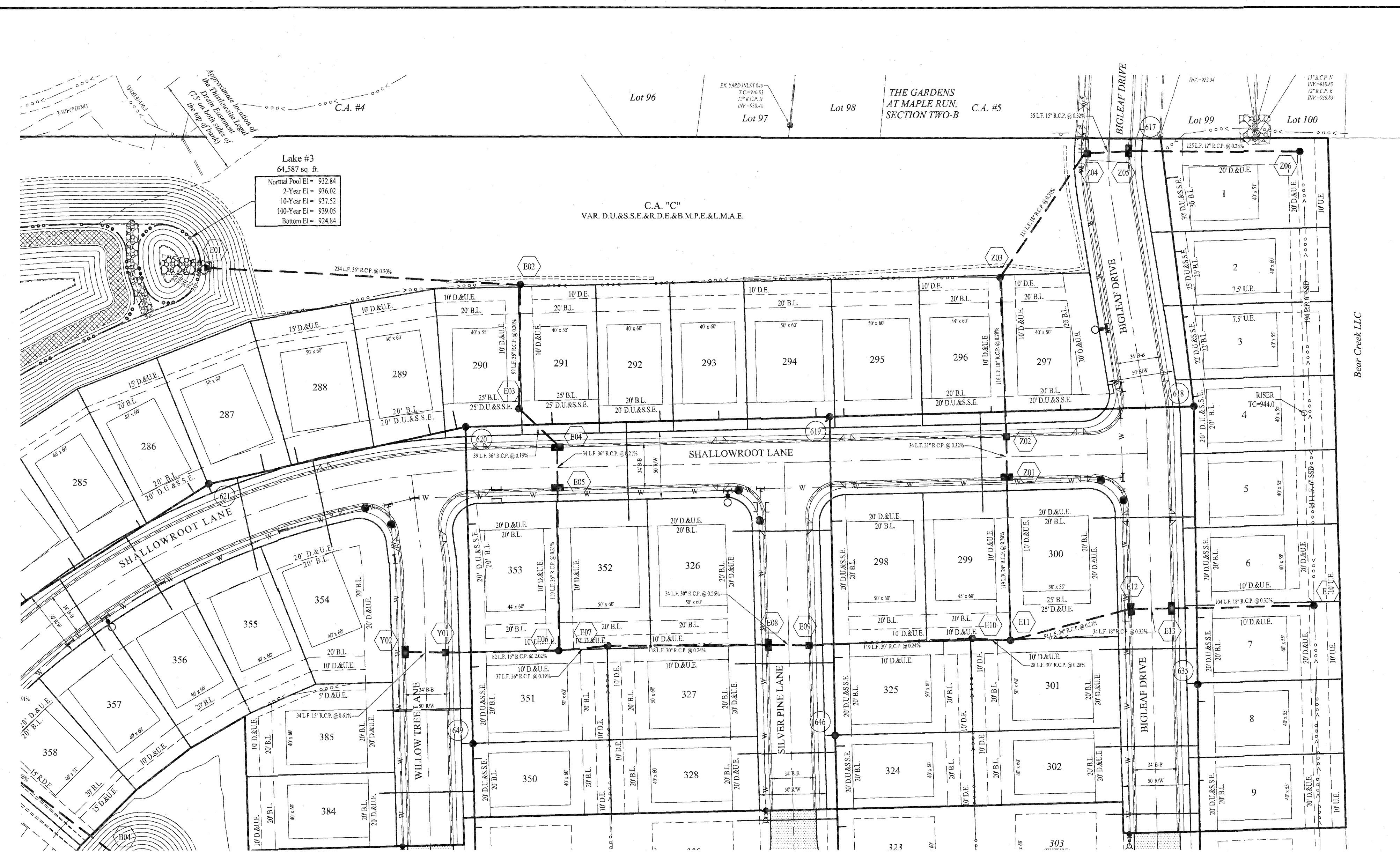


DATE	BY	REVISIONS
07/23/20	PDR	AS BUILTS
08/20/19	PDR	REVISED PER TAC COMMENTS
08/21/19	PDR	REVISED PER TAC COMMENTS

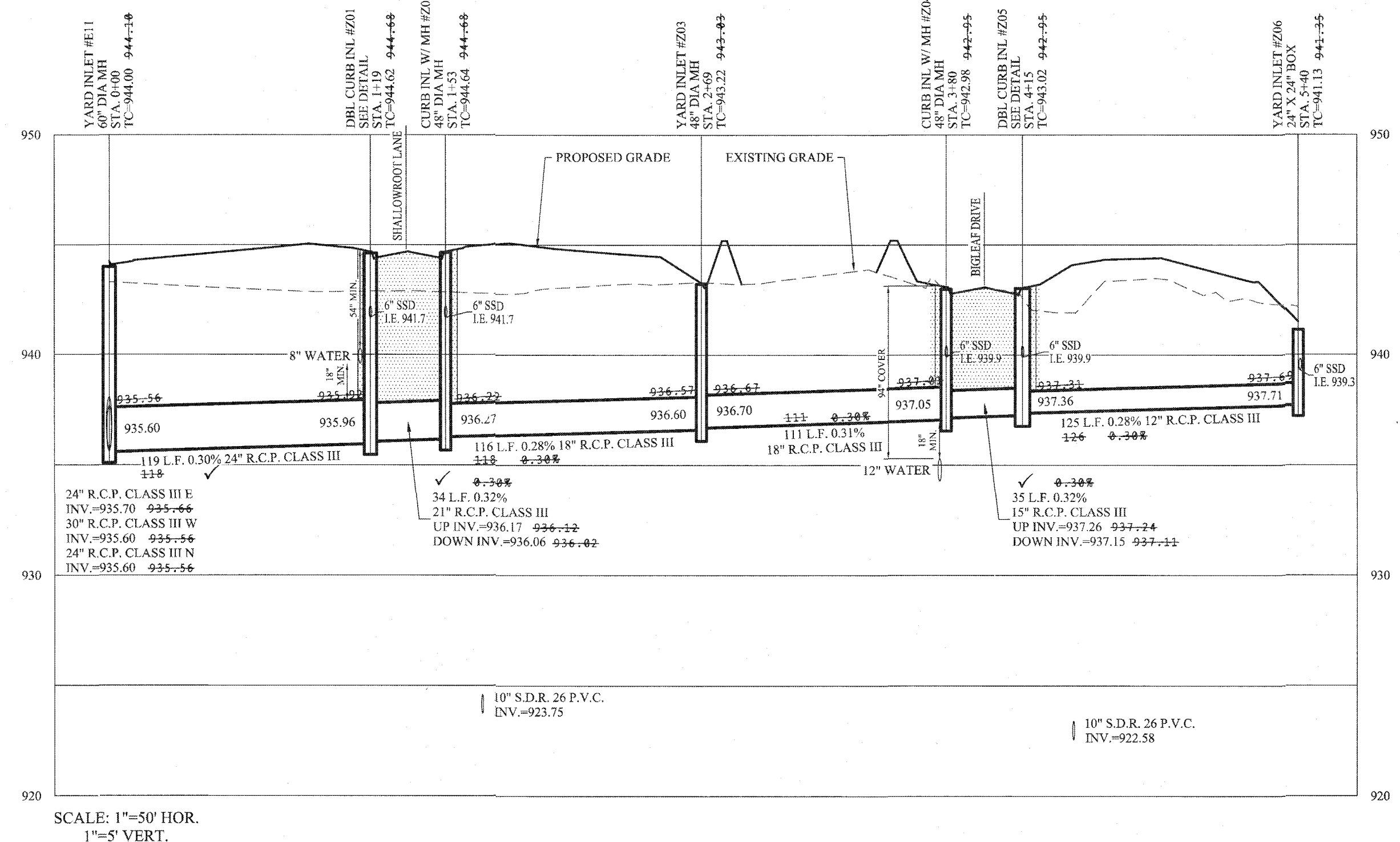
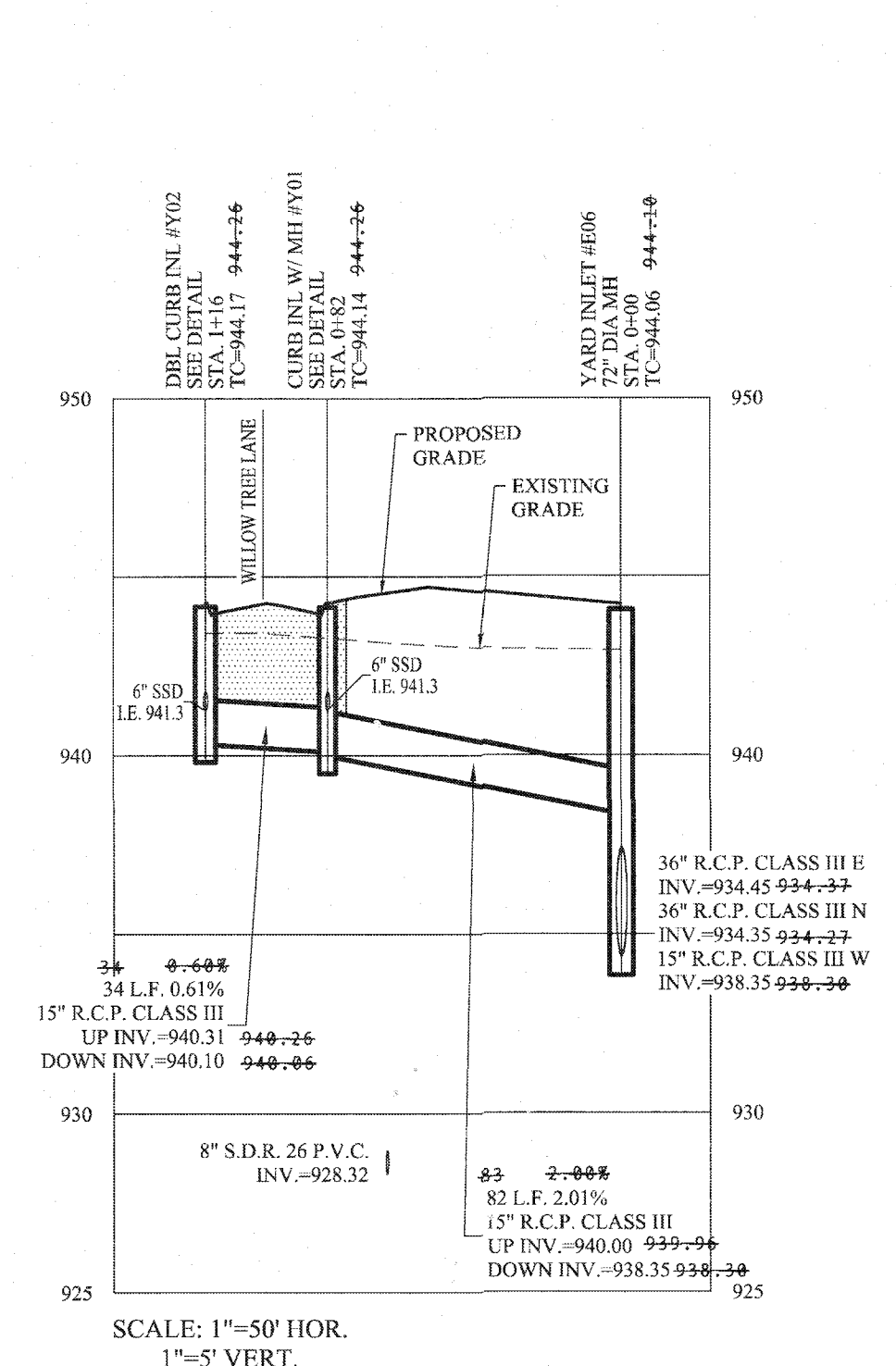
DAVID J. STOEPPELWERTH
 REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA
 CERTIFIED: 07/23/19
 David J. Stoeppelewerth

STOEPPELWERTH
 ALWAYS ON
 7965 East 10th Street, Fishers, IN 46038-2505
 phone: 317.849.5935 fax: 317.849.5942

STORM SEWER PLAN & PROFILES
 MAPLE RUN
 SECTION 3
 SHERIDAN, ADAMS TOWNSHIP
 HAMILTON COUNTY, INDIANA



STR.#	STR. NAME	STR. TYPE	T.C.	CASTING	DIA. IN	DIR. IN	INV. IN	DIA. OUT	DIR. OUT	INV. OUT	SLOPE
A01	END SECTION			BACKFLOW PREVENTION	48"	SE	932.51				
A02	OUTLET CTL STR	SEE DETAIL, SHEET C801-C	940.39	SEE DETAIL				48"	NW	932.81	0.23%
B01	END SECTION			w/ DEBRIS GUARD	60"	SE	932.76				
B03	MANHOLE	96" DIA MH	944.29	R-1772	60"	SE	932.84	60"	NW	932.84	0.06%
B04	END SECTION			w/ DEBRIS GUARD	60"	SE	932.84				
E01	END SECTION			w/ DEBRIS GUARD	36"	E	932.91				
E02	YARD INLET	72" DIA MH	943.15	R-4342	36"	S	933.47	36"	W	933.37	0.20%
E03	MANHOLE	72" DIA MH	945.55	R-1772	36"	SE	933.75	36"	N	933.65	0.20%
E04	DBL CURB INL	SEE DETAIL	944.47	R-3501-TL & TR	36"	S	933.93	36"	NW	933.83	0.19%
E05	DBL CURB INL	SEE DETAIL	944.57	R-3501-TL & TR	36"	S	934.10	36"	N	934.00	0.21%
E06	YARD INLET	72" DIA MH	944.06	R-4342	36"	E	934.45	36"	N	934.35	0.21%
E07	YARD INLET	60" DIA MH	942.50	R-4342	30"	E	934.62	36"	W	934.52	0.19%
E08	DBL CURB INL	SEE DETAIL	944.52	R-3501-TL & TR	30"	E	934.95	30"	W	934.85	0.20%
E09	CURB INL w/ MH	60" DIA MH	944.57	R-3501-TR	30"	E	935.14	30"	W	935.04	0.26%
E10	YARD INLET	60" DIA MH	942.80	R-4342	30"	E	935.52	30"	W	935.42	0.24%
E11	YARD INLET	60" DIA MH	944.00	R-4342	24"	E	935.70	30"	W	935.60	0.28%
E12	DBL CURB INL	SEE DETAIL	944.53	R-3501-TL & TR	18"	E	936.01	24"	W	935.91	0.23%
E13	DBL CURB INL	SEE DETAIL	944.37	R-3501-TL & TR	18"	E	936.22	18"	W	936.12	0.32%
E14	YARD INLET	48" DIA MH	942.15	R-4342	18"	W	936.55	18"	W	936.55	0.32%
T01	DBL CURB INL w/ SUMP	SEE DETAIL	944.29	(2) R-3501-R	18"	SE	939.44	18"	W	939.29	2.10%
T01A	CURB INLET	24" x 24" BOX	944.43	R-3501-TL	15"	NE	940.12	15"	SW	940.32	1.93%
T02	DBL CURB INL w/ SUMP	SEE DETAIL	944.29	R-3501-TL & TR	15"	NE	940.25	18"	NW	940.15	2.06%
T02A	CURB INLET	24" x 24" BOX	944.30	R-3501-TR	15"	SW	940.35	15"	SW	940.35	0.91%
Y01	CURB INL w/ MH	SEE DETAIL	944.14	R-3501-TL	15"	W	940.10	15"	E	940.00	2.01%
Y02	DBL CURB INL	SEE DETAIL	944.17	R-3501-TL & TR	15"	N	940.31	15"	E	940.31	0.61%
Z01	DBL CURB INL	SEE DETAIL	944.62	R-3501-TL & TR	21"	N	936.06	24"	S	935.96	0.30%
Z02	CURB INL w/ MH	48" DIA MH	944.64	R-3501-TR	18"	N	936.27	21"	S	936.17	0.32%
Z03	YARD INLET	48" DIA MH	943.22	R-4342	18"	NE	936.70	18"	S	936.60	0.28%
Z04	CURB INL w/ MH	48" DIA MH	942.98	R-3501-TR	15"	E	937.15	18"	SW	937.05	0.31%
Z05	DBL CURB INL	SEE DETAIL	943.02	R-3501-TL & TR	12"	E	937.36	15"	W	937.26	0.32%
Z06	YARD INLET	24" x 24" BOX	941.13	R-4342	12"	W	937.71	12"	W	937.71	0.28%



RECORD DRAWING

Drawn by: *Dennis D. Olmstead*
 Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 7/24/2020

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

Drawn By: PDR
 Checked By: BKR
 SHEET NO.
C602
 S & A JOB NO.
 51510ARB-S3

File Name: S:\51510ARB-S3\DWG\C600 - Storm Plan & Profile.dwg - C602
 Modified / By: July 16, 2020 10:49:21 AM / meavans
 Plotted / By: July 23, 2020 11:45:56 AM / Raven Morris

File Name: S:\1510ARB-S3\DWG\C603 - Subsurface Drain Plan.dwg - C603
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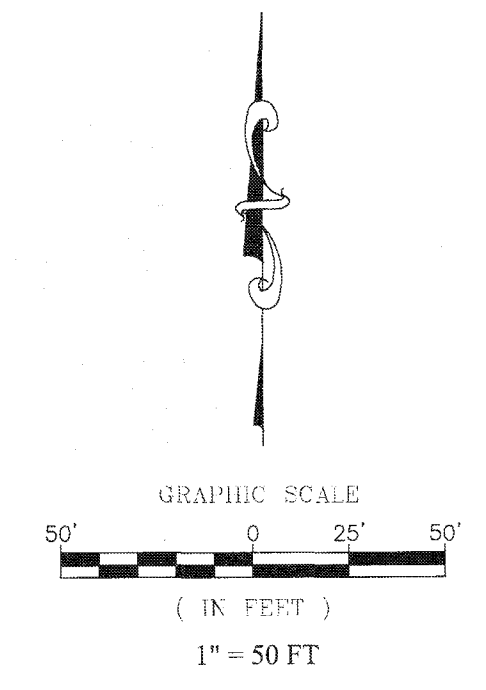


Lake #3
 64,587 sq. ft.
 Normal Pool El. = 932.84
 2 Year El. = 936.02
 10 Year El. = 931.52
 100 Year El. = 939.05
 Bottom El. = 924.84

C.A. "C"
 VAR. DUASSE & R.D.E. & B.M.P.E. & L.M.A.E.

- LEGEND**
- EXISTING SANITARY SEWER (w/ LATERALS)
 - EXISTING STORM SEWER
 - W— EXISTING WATER LINE
 - PROPOSED SANITARY SEWER (w/ LATERALS)
 - PROPOSED STORM SEWER
 - W— PROPOSED WATER LINE
 - PROPOSED CURB w/ 6" UNDERDRAIN
 - PROPOSED 6" SUB-SURFACE DRAIN (WHERE SHOWN ON PLAN)

- NOTES**
1. SEE SHEET C801B FOR SWALE SUB-SURFACE DRAIN DETAILS.
 2. SEE SHEET C803B FOR CURB UNDERDRAIN DETAIL.
- UTILITY CROSSINGS**
- CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NO ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.



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

CERTIFIED: 07/23/19

David J. Stoepelwerth

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SUB-SURFACE DRAIN / SUMP CONNECTION PLAN

MAPLE RUN SECTION 3

SHERIDAN, ADAMS TOWNSHIP HAMILTON COUNTY, INDIANA

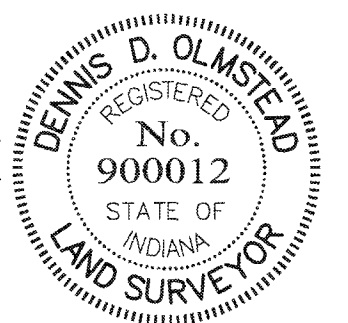
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SHEET NO. C603

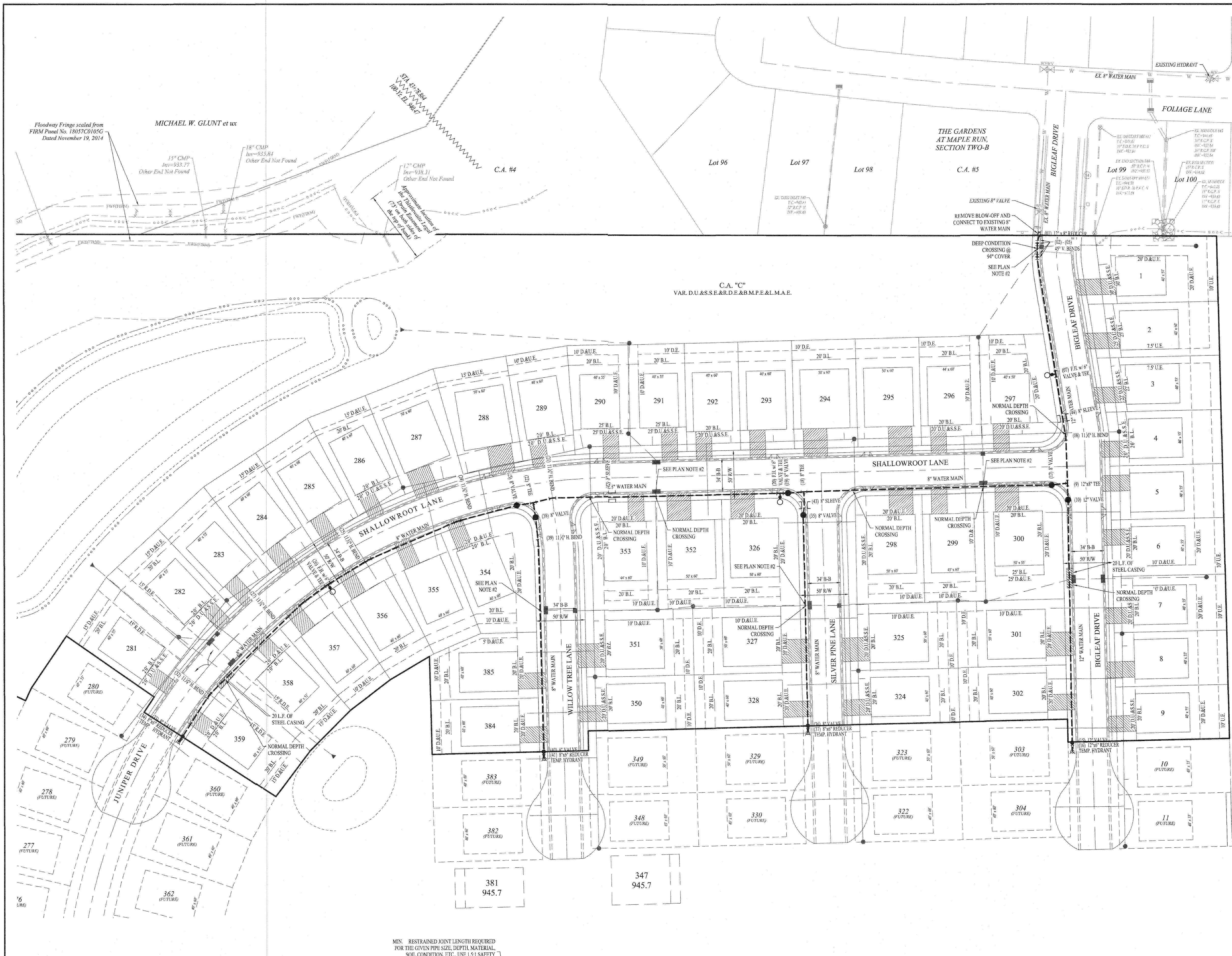
S & A JOB NO. 51510ARB-S3

RECORD DRAWING

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



File Name: S:\1510ARB-S3\DWG\C700 - Water Plan.dwg - C700
 July 23, 2020 10:55:29 AM / RMorris
 Modified / By:
 July 31, 2020 12:42:15 PM / RMorris
 Plotted / By:



LEGEND

- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- HYDRANT w/ 6" VALVE
- GATE VALVE
- REDUCER
- TEE

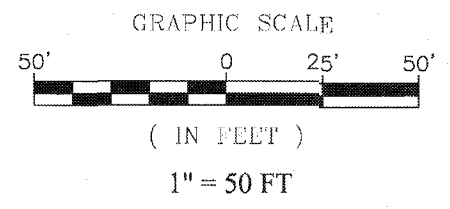
- WATER UTILITY INSTALLATION NOTES**
- INSTALLATION OF WATER MAINS, FITTINGS, VALVES, FIRE HYDRANTS, AND APPURTENANCES SHALL BE IN ACCORDANCE WITH INDIANA WATER STANDARDS AND SPECIFICATIONS, LATEST REVISION.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION, SIZE, AND MATERIAL OF THE EXISTING WATER MAIN PRIOR TO CONSTRUCTION.
 - FOR PVC C-900 PIPE INSTALLATION, DR-14 PIPE IS REQUIRED. DEFLECTION OF PIPE JOINTS AND BENDING OF PIPES ARE NOT PERMITTED. ALL ANGLES SHALL BE MADE WITH PROPER FITTINGS. WHEN RESTRAINT OF PIPE-TO-PIPE JOINTS ARE REQUIRED, ALL JOINTS SHALL BE RESTRAINED WITH EXTERNAL SPLIT SERATED RESTRAINT HARNESSSES. SELECT FILL MATERIAL REQUIRED FOR BEDDING AND EMBEDMENT REGARDLESS OF PIPES PROXIMITY TO PAVEMENT.
 - FOR DUCTILE IRON PIPE INSTALLATION, THICKNESS CLASS 52 FOR PIPES 12-INCH NOMINAL SIZE AND SMALLER. WHEN RESTRAINT OF PIPE-TO-PIPE JOINTS ARE REQUIRED, PUSH-ON RESTRAINING GASKETS WITH INTEGRAL STAINLESS STEEL LOCKING SEGMENTS ARE PERMITTED ON PIPE-TO-PIPE CONNECTIONS 12-INCH NOMINAL SIZE AND SMALLER ONLY. PIPE-TO-PIPE CONNECTIONS GREATER THAN 12-INCH NOMINAL SIZE SHALL BE RESTRAINED PER SPECIFICATION SECTION 15105.
 - ENCASE ALL DUCTILE IRON PIPING, DUCTILE IRON FITTINGS, VALVES, HYDRANTS, AND ALL OTHER METALLIC APPURTENANCES IN 12MIL POLYETHYLENE.
 - ALL FIRE HYDRANT LATERALS SHALL BE DUCTILE IRON PIPE.
 - ALL M7-BOLTS AND FLANGE BOLTS SHALL HAVE XYLAN OR FLUOROKOTE #1 CORROSION RESISTANT COATING.
 - ALL FITTINGS SHALL BE RESTRAINED USING MET RETAINER GLANDS OR PORTLAND CONCRETE THIRST BLOCKS.
 - COPPER-CLAD STEEL TRACER WIRE REQUIRED ON INSTALLATION OF ALL PIPE. TRACER WIRE SHALL BE TAPED TO PIPE OR POLYETHYLENE ENCASEMENT AT A MINIMUM SPACING OF 10 FEET. SPACES SHALL BE ENCASED IN WATERPROOF CONNECTORS. CONTINUITY SHALL BE TESTED AFTER COMPLETION OF BACKFILL.
 - SELECT FILL MATERIAL REQUIRED FOR FINAL BACKFILL WHEN WITHIN 5 FEET OF PAVEMENT PER SPECIFICATION SECTION 02210.
 - MAINTAIN THE REQUIRED 10 FEET OF HORIZONTAL SEPARATION AND 18 INCHES OF VERTICAL SEPARATION FROM SANITARY AND STORM SEWERS. MAINTAIN 8 FEET OF HORIZONTAL SEPARATION FROM SANITARY AND STORM STRUCTURES. SEE 327 IAC 8-2.2 OF THE INDIANA ADMINISTRATIVE CODE FOR MORE INFORMATION UNLESS OTHERWISE NOTED.
 - 12" & 8" WATER MAIN TO BE INSTALLED AT A MINIMUM DEPTH OF 4.5' (54"), UNLESS OTHERWISE SPECIFIED.

FOR SPECS ON ALL WATER-RELATED MATERIAL, STRUCTURE, ACCESSORY, INSTALLATION, HANDLING, ETC., CONTRACTOR TO REFER TO INDIANA AMERICAN WATER PIPELINE SPECIFICATIONS, LATEST REVISION.

WATER MAIN PIPE TABLE

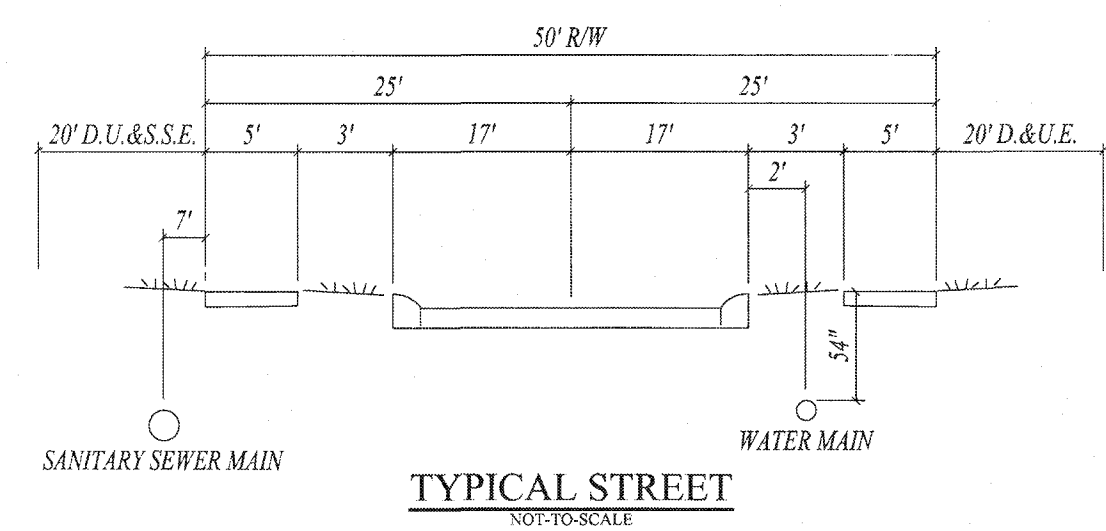
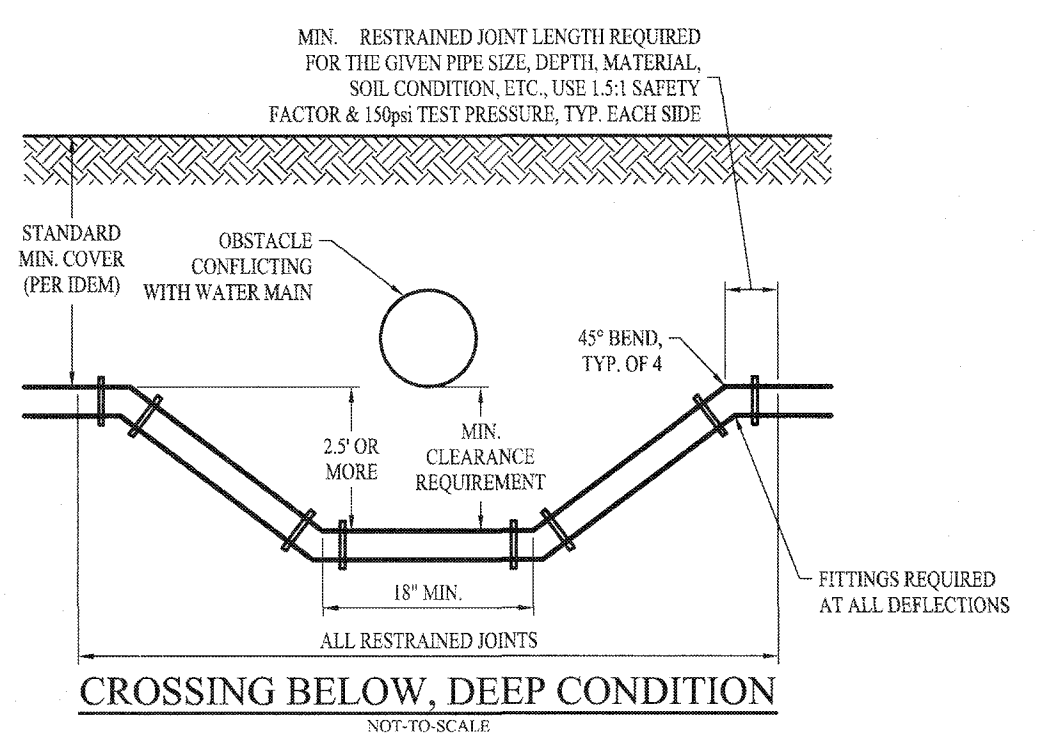
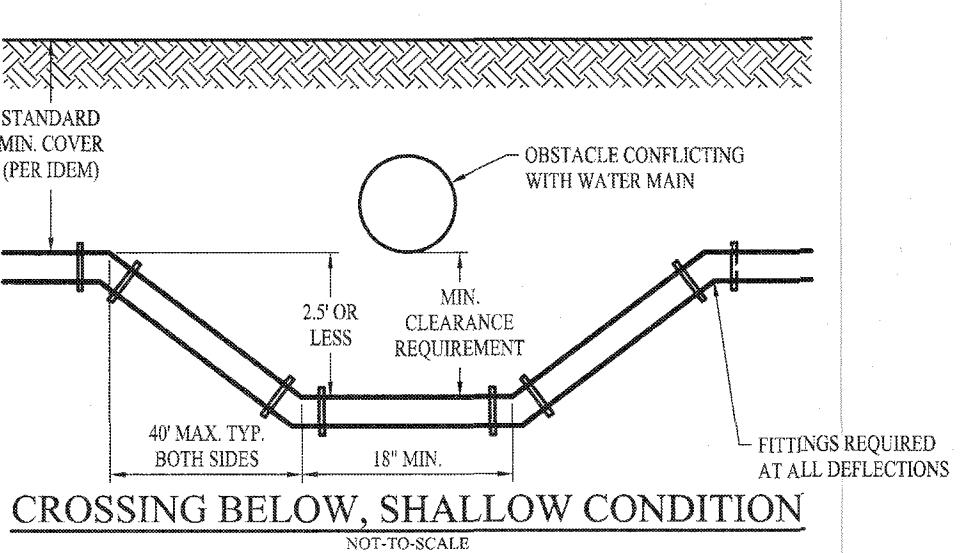
SIZE	MATERIAL	LENGTH
12"	PVC C-900 DR-14, HDPE DR-11, or D.I. THICKNESS CLASS 52	520 L.F.
8"	PVC C-900 DR-14, HDPE DR-11, or D.I. THICKNESS CLASS 52	1,250 L.F.
TOTAL LENGTH		1,750 L.F.

- PLAN NOTES:**
- WATER MAIN PIPE SHALL BE PVC C-900 DR-14, HDPE DR-11, OR D.I. THICKNESS CLASS 52. THE PIPE MATERIAL AND PRESSURE CLASS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION BASED ON COST OF EACH AT THAT TIME.
 - CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2' (24") OF HORIZONTAL SEPARATION FROM THE OUTSIDE OF THE STORM STRUCTURE AND CENTER A FULL LENGTH OF 20' OF PVC (OR DUCTILE IRON) PIPE ON SAID STORM STRUCTURE.



WATER MAIN FITTING RESTRAINT SCHEDULE

FITTING No.	FITTING TYPE	MATL.	SOIL TYPE	SAFETY FACTOR	TRENCH TYPE	PPH DEPTH	TEST PRESSURE	NOMINAL PIPE DIA.	BEND ANGLE	BRANCH / REDUCED RUN	LENGTH ALONG RUN	RESTRAINT LENGTH
01	REDUCER	PVC	ML	1.5-1	S	4.5'	200	12	45°	8		48
02	V. BEND	PVC	ML	1.5-1	S	4.5'	200	12	45°			37
03	V. BEND	PVC	ML	1.5-1	S	8.0'	200	12	45°			8
04	V. BEND	PVC	ML	1.5-1	S	8.0'	200	12	45°			8
05	V. BEND	PVC	ML	1.5-1	S	4.5'	200	12	45°			37
06	H. BEND	PVC	ML	1.5-1	S	4.5'	200	12	119°			13
07	TEE	PVC	ML	1.5-1	S	4.5'	200	12		6	10	13
08	H. BEND	PVC	ML	1.5-1	S	4.5'	200	12	119°			63
09	TEE	PVC	ML	1.5-1	S	4.5'	200	12		8	0	63
10	DEAD END	PVC	ML	1.5-1	S	4.5'	200	12				89
11	V. BEND	PVC	ML	1.5-1	S	4.5'	200	12	45°			37
12	V. BEND	PVC	ML	1.5-1	S	10.0'	200	12	45°			6
13	V. BEND	PVC	ML	1.5-1	S	10.0'	200	12	45°			4
14	V. BEND	PVC	ML	1.5-1	S	4.5'	200	12	45°			37
15	DEAD END	PVC	ML	1.5-1	S	4.5'	200	12				89
16	REDUCER	PVC	ML	1.5-1	S	4.5'	200	12		8		65
17	DEAD END	PVC	ML	1.5-1	S	4.5'	200	8				63
18	TEE	PVC	ML	1.5-1	S	4.5'	200	8		8	0	63
19	DEAD END	PVC	ML	1.5-1	S	4.5'	200	8				63
20	TEE	PVC	ML	1.5-1	S	4.5'	200	8		8	10	1
21	H. BEND	PVC	ML	1.5-1	S	4.5'	200	8	119°			9
22	TEE	PVC	ML	1.5-1	S	4.5'	200	8		8	0	63
23	DEAD END	PVC	ML	1.5-1	S	4.5'	200	8				63
24	H. BEND	PVC	ML	1.5-1	S	4.5'	200	8	119°			9
25	H. BEND	PVC	ML	1.5-1	S	4.5'	200	8	119°			9
26	TEE	PVC	ML	1.5-1	S	4.5'	200	8		6	10	1
27	H. BEND	PVC	ML	1.5-1	S	4.5'	200	8	119°			9
28	V. BEND	PVC	ML	1.5-1	S	4.5'	200	8	119°			7
29	V. BEND	PVC	ML	1.5-1	S	4.2'	200	8	119°			3
30	V. BEND	PVC	ML	1.5-1	S	4.2'	200	9	119°			7
31	V. BEND	PVC	ML	1.5-1	S	4.5'	200	8	119°			7
32	H. BEND	PVC	ML	1.5-1	S	4.5'	200	8	119°			3
33	DEAD END	PVC	ML	1.5-1	S	4.5'	200	8				63
34	REDUCER	PVC	ML	1.5-1	S	4.5'	200	8		4		27
35	DEAD END	PVC	ML	1.5-1	S	4.5'	200	8				63
36	DEAD END	PVC	ML	1.5-1	S	4.5'	200	8				63
37	REDUCER	PVC	ML	1.5-1	S	4.5'	200	8		6		27
38	DEAD END	PVC	ML	1.5-1	S	4.5'	200	8				63
39	H. BEND	PVC	ML	1.5-1	S	4.5'	200	8	119°			3
40	DEAD END	PVC	ML	1.5-1	S	4.5'	200	8				63
41	REDUCER	PVC	ML	1.5-1	S	4.5'	200	8		6		27



RECORD DRAWING

Dennis D. Olmstead
 Registered Land Surveyor
 No. 900012
 7/21/2020



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

CERTIFIED: 07/23/19
 David J. Stoepelwerth

WATER PLAN
MAPLE RUN
SECTION 3

DRAWN BY: PDR
 CHECKED BY: BKR
 SHEET NO. C700
 S & A NOB. NO. 51510ARB-S3

HAMILTON COUNTY, INDIANA
 SHERIDAN, ADAMS TOWNSHIP

REV	DATE	BY	REVISIONS
1	07/23/20	PDR	AS BUILTS
2	08/11/19	PDR	REVISED PER TAC COMMENTS