

# 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*

October 18, 2018

To: Hamilton County Drainage Board

Re: Vermillion Drain, The Enclave at Vermillion, Sec. 3 Arm

Attached is a petition filed by North Connecticut Development Corporation (Republic Development), along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Vermillion Drain, The Enclave at Vermillion, Sec. 3 Arm to be located in Fall Creek 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 Weihe Engineers, Project No. W150302-3, the drain will consist of the following:

12" RCP	558 ft.	21" RCP	172 ft.
15" RCP	472 ft.	24" RCP	160 ft.
18" RCP	246 ft.	6" SSD	3,032 ft.
		Open	68 ft.

The total length of the drain will be 4,708 feet.

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

The open drain noted above is a temporary swale/dry basin located between Strs. 935 and 936. When the adjacent section to the south is constructed, this swale/dry basin will be enlarged into a detention pond to serve that future section.

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$65.00 per platted lot, \$10.00 per acre for common areas, with a \$65.00 minimum, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain for Section 3 will be \$2,062.40.

The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of Letters of Credit from the developer are as follows:

Agent: Standard Financial Corporation  
Date: October 15, 2018  
Number: 1341ENC3  
For: Storm Sewers  
Amount: \$169,172.40  
HCDB-2018-00032


Agent: Standard Financial Corporation  
Date: October 15, 2018  
Number: 1342ENC3  
For: Erosion Control  
Amount: \$30,708.17  
HCDB-2018-00033

Agent: Standard Financial Corporation  
Date: October 15, 2018  
Number: 1343ENC3  
For: Monumentation  
Amount: \$7,141.68  
HCDB-2018-00034

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 plats for The Enclave at Vermillion, Sec. 3 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 26, 2018.



Kenton C. Ward, CFM  
Hamilton County Surveyor  
KCW/stc

STATE OF INDIANA )  
 )  
COUNTY OF HAMILTON )

**FILED**

**SEP 01 2017**

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

OFFICE OF HAMILTON COUNTY SURVEYOR

In the matter of                     The Enclave @ Vermillion                     Subdivision, Section  
                    Three                     Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in           The Enclave @ Vermillion - Section 3          , a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

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

The Petitioner also agrees to the following:

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**

*NORTH CONNECTICUT DEV. CORP.*

*Douglas B Wagner*  
Signed

*DOUGLAS B. WAGNER, SR. V.P.*  
Printed Name

*AUGUST 28, 2017*  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Vermillion Drain, The Enclave at Vermillion Section 3 Arm

On this 26<sup>th</sup> day of November, 2018, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Vermillion Drain, The Enclave at Vermillion Section 3 Arm*.

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

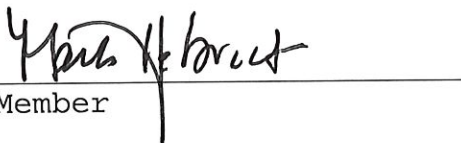
HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_

President

  
\_\_\_\_\_

Member

  
\_\_\_\_\_

Member

Attest:   
Executive Secretary



ENGINEER'S ESTIMATE OF PROBABLE COST

OFFICE OF HAMILTON COUNTY SURVEYOR

Project: The Enclave at Vermillion - Section Three  
W150253

Date: 9/27/2018

STORM SEWERS

	Quantity	Unit Price	Gross Price
Structures			
Large Manhole	3	\$ 2,300.00	\$ 6,900.00
Large Curb Inlet	7	\$ 2,300.00	\$ 16,100.00
Large Beehive	4	\$ 2,000.00	\$ 8,000.00
Large Double Curb Inlet	2	\$ 4,200.00	\$ 8,400.00
Small Beehive	1	\$ 1,500.00	\$ 1,500.00
Tons of stone Bedding (#8)	350	\$ 20.75	\$ 7,262.50
Tons of stone Backfill (#53)	280	\$ 14.25	\$ 3,990.00
Tons of Rip Rap	40	\$ 45.00	\$ 1,800.00
Lot connections (4" underdrain)	31	\$ 125.00	\$ 3,875.00
Street SSD	3,025	\$ 9.50	\$ 28,737.50

Qty	Measurement	Size	Material	Unit Price	Gross Price
Pipe					
575	Linear feet of	12"	RCP	\$ 24.00	\$ 13,800.00
470	Linear feet of	15"	RCP	\$ 28.00	\$ 13,160.00
246	Linear feet of	18"	RCP	\$ 30.00	\$ 7,380.00
172	Linear feet of	21"	RCP	\$ 36.00	\$ 6,192.00
170	Linear feet of	24"	RCP	\$ 44.00	\$ 7,480.00
2	12" End Section W/ Animal Guard	12"	RCP	\$ 1,500.00	\$ 3,000.00
2	15" End Section W/ Animal Guard	15"	RCP	\$ 1,700.00	\$ 3,400.00
0	Cap and Seal (Each)			\$ 450.00	\$ -

STORM SEWER TOTAL: \$ 140,977.00

EROSION CONTROL

	Quantity	Unit Price	Gross Price
Silt Fence Behind Curbs	3,700	\$ 1.00	\$ 3,700.00
Concrete Washout	1	\$ 500.00	\$ 500.00
Curb Inlet Protection	13	\$ 168.00	\$ 2,184.00
Drop Inlet Protection	9	\$ 90.00	\$ 810.00
Square yards of permanent seeding	9,894	\$ 0.42	\$ 4,155.48
Square yards of Straw Blanket	3,254	\$ 1.05	\$ 3,416.70
Square yards of Roadside Seeding	9,894	\$ 0.34	\$ 3,363.96
Acres of temp. seeding	3.60	\$ 325.00	\$ 1,170.00
Acres of Mulch Temp Seeding	3.60	\$ 775.00	\$ 2,790.00
Construction Entrance	1	\$ 3,500.00	\$ 3,500.00

EROSION CONTROL TOTAL \$ 25,590.14

MONUMENTATION

	Quantity	Unit Price	Gross Price
Monuments	9	\$ 98.10	\$ 882.90
Property Corners Per Lot	31	\$ 163.50	\$ 5,068.50

MONUMENTATION TOTAL \$ 5,951.40

SUMMARY

	Total	Performance Guarantee	Maintenance Guarantee
	A	B = A X 120%	C = B X 20%
Storm Sewers	\$ 140,977.00	\$ 169,172.40	\$ 33,834.48
Erosion Control	\$ 25,590.14	\$ 30,708.17	\$ 6,141.63
Monumentation	\$ 5,951.40	\$ 7,141.68	\$ 1,428.34
	\$ 172,518.54	\$ 207,022.25	\$ 41,404.45

COMMENTS:

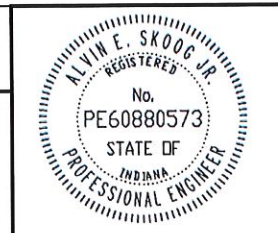
Bond Estimate Prepared by:

Signature: *Alvin E. Skoog, Jr.*

Printed Name: Alvin E. (Rusty) Skoog, Jr.

Title: Sr. Project Manager

Date: 27-Sep-18





# Standard Financial CORPORATION

H C D B - 2018-00032

OCT 04 2018

October 15, 2018

**Irrevocable Letter of Credit No.: 1341ENC3**

TO: Hamilton County Commissioners  
1 Hamilton County Square, Suite 157  
Noblesville, IN 46060

To Whom It May Concern:

We hereby authorize you to value on us for the account of:

Developer Name: North Connecticut Development Corporation  
Developer Address: 3150 Republic Blvd. N, #3  
Toledo, OH 43615

For a sum or sums in United States of America Dollars not to exceed the aggregate total of **One Hundred Sixty-Nine Thousand One Hundred Seventy-Two and 40/100 Dollars (\$169,172.40)** by your draft(s) at sight.

The purpose of this Letter of Credit is for the performance of the installation of storm sewers in Enclave at Vermillion, Section 3.

The condition for payment of any drafts drawn against the Letter of Credit requires that the draft be accompanied by beneficiary's signed statement on Hamilton County letterhead stating that North Connecticut Development Corporation has not performed or complied with the terms of the construction plan requirements of said project. The statement must also outline the specific deficiencies in construction.

All drafts must be marked, "Drawn under Standard Financial Corporation Letter of Credit No. 1341ENC3".

This credit is subject, so far as applicable, to "The Uniform Customs and Practice for Documentary Credits (2007 Revision), International Chamber of Commerce Publication No. 600."

This Letter of Credit is effective as of October 15, 2018 and shall expire on October 15, 2019, but such expiration date shall be automatically extended for a period of one year on October 15, 2019, and on each successive expiration date, unless a release is received from the Hamilton County Commissioners or we notify both the Hamilton County Commissioners and North Connecticut Development Corporation by certified mail, at least ninety (90) days before the current expiration date, that we have decided not to extend this Letter of Credit beyond the



current expiration date. In the event of such notification by us, the credit established by this Letter shall be available to the Hamilton County Commissioners upon its sight draft or demand for payment for ninety (90) days after receipt of such notice by the Hamilton County Commissioners as shown on the signed return receipt.

We hereby agree with you that all drafts drawn under and in compliance with the terms of this credit shall be duly honored on due presentation to the main office of Standard Financial Corporation, 13578 E. 131<sup>st</sup> Street, Suite 200, Fishers, IN 46037.

Sincerely,

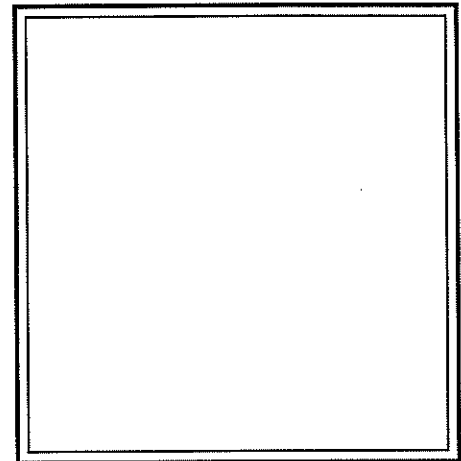
**STANDARD FINANCIAL CORPORATION**

A handwritten signature in cursive script, appearing to read 'Eric Roof', is written over a horizontal line.

Authorized Signature

Eric Roof, Treasurer

Name and Title



*This Letter of Credit is not valid unless the seal of Standard Financial Corporation is affixed hereto.*





# Standard Financial CORPORATION

HCDB-2018-00033

OCT 04 2018

October 15, 2018

**Irrevocable Letter of Credit No.: 1342ENC3**

TO: Hamilton County Commissioners  
1 Hamilton County Square, Suite 157  
Noblesville, IN 46060

To Whom It May Concern:

We hereby authorize you to value on us for the account of:

Developer Name: North Connecticut Development Corporation  
Developer Address: 3150 Republic Blvd. N, #3  
Toledo, OH 43615

For a sum or sums in United States of America Dollars not to exceed the aggregate total of **Thirty Thousand Seven Hundred Eight and 17/100 Dollars (\$30,708.17)** by your draft(s) at sight.

The purpose of this Letter of Credit is for the performance of the installation of erosion control in Enclave at Vermillion, Section 3.

The condition for payment of any drafts drawn against the Letter of Credit requires that the draft be accompanied by beneficiary's signed statement on Hamilton County letterhead stating that North Connecticut Development Corporation has not performed or complied with the terms of the construction plan requirements of said project. The statement must also outline the specific deficiencies in construction.

All drafts must be marked, "Drawn under Standard Financial Corporation Letter of Credit No. 1342ENC3".

This credit is subject, so far as applicable, to "The Uniform Customs and Practice for Documentary Credits (2007 Revision), International Chamber of Commerce Publication No. 600."

This Letter of Credit is effective as of October 15, 2018 and shall expire on October 15, 2019, but such expiration date shall be automatically extended for a period of one year on October 15, 2019, and on each successive expiration date, unless a release is received from the Hamilton County Commissioners or we notify both the Hamilton County Commissioners and North Connecticut Development Corporation by certified mail, at least ninety (90) days before the current expiration date, that we have decided not to extend this Letter of Credit beyond the

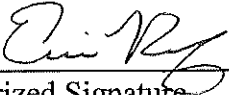


current expiration date. In the event of such notification by us, the credit established by this Letter shall be available to the Hamilton County Commissioners upon its sight draft or demand for payment for ninety (90) days after receipt of such notice by the Hamilton County Commissioners as shown on the signed return receipt.

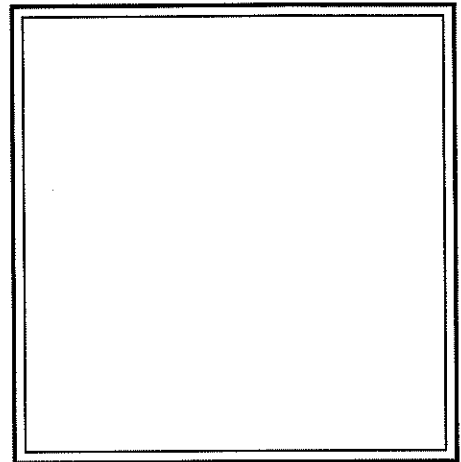
We hereby agree with you that all drafts drawn under and in compliance with the terms of this credit shall be duly honored on due presentation to the main office of Standard Financial Corporation, 13578 E. 131<sup>st</sup> Street, Suite 200, Fishers, IN 46037.

Sincerely,

**STANDARD FINANCIAL CORPORATION**

  
\_\_\_\_\_  
Authorized Signature

Eric Roof, Treasurer  
\_\_\_\_\_  
Name and Title



*This Letter of Credit is not valid unless the seal of Standard Financial Corporation is affixed hereto.*



**Standard Financial**  
CORPORATION

HCDB-2018-00034

October 15, 2018

**Irrevocable Letter of Credit No.: 1343ENC3**

TO: Hamilton County Commissioners  
1 Hamilton County Square, Suite 157  
Noblesville, IN 46060

To Whom It May Concern:

We hereby authorize you to value on us for the account of:

Developer Name: North Connecticut Development Corporation  
Developer Address: 3150 Republic Blvd. N, #3  
Toledo, OH 43615

For a sum or sums in United States of America Dollars not to exceed the aggregate total of **Seven Thousand One Hundred Forty-One and 68/100 Dollars (\$7,141.68)** by your draft(s) at sight.

The purpose of this Letter of Credit is for the performance of the installation of monumentation in Enclave at Vermillion, Section 3.

The condition for payment of any drafts drawn against the Letter of Credit requires that the draft be accompanied by beneficiary's signed statement on Hamilton County letterhead stating that North Connecticut Development Corporation has not performed or complied with the terms of the construction plan requirements of said project. The statement must also outline the specific deficiencies in construction.

All drafts must be marked, "Drawn under Standard Financial Corporation Letter of Credit No. 1343ENC3".

This credit is subject, so far as applicable, to "The Uniform Customs and Practice for Documentary Credits (2007 Revision), International Chamber of Commerce Publication No. 600."

This Letter of Credit is effective as of October 15, 2018 and shall expire on October 15, 2019, but such expiration date shall be automatically extended for a period of one year on October 15, 2019, and on each successive expiration date, unless a release is received from the Hamilton County Commissioners or we notify both the Hamilton County Commissioners and North Connecticut Development Corporation by certified mail, at least ninety (90) days before the current expiration date, that we have decided not to extend this Letter of Credit beyond the




current expiration date. In the event of such notification by us, the credit established by this Letter shall be available to the Hamilton County Commissioners upon its sight draft or demand for payment for ninety (90) days after receipt of such notice by the Hamilton County Commissioners as shown on the signed return receipt.

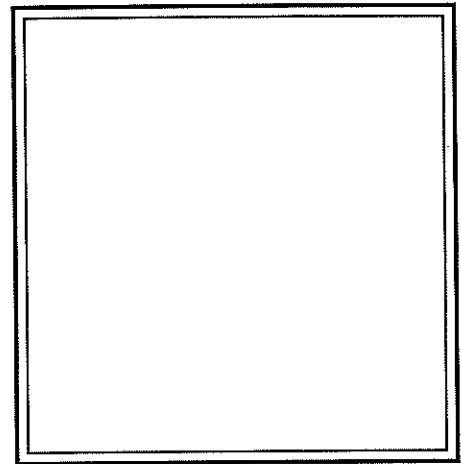
We hereby agree with you that all drafts drawn under and in compliance with the terms of this credit shall be duly honored on due presentation to the main office of Standard Financial Corporation, 13578 E. 131<sup>st</sup> Street, Suite 200, Fishers, IN 46037.

Sincerely,

**STANDARD FINANCIAL CORPORATION**

  
\_\_\_\_\_  
Authorized Signature

Eric Roof, Treasurer  
\_\_\_\_\_  
Name and Title



*This Letter of Credit is not valid unless the seal of Standard Financial Corporation is affixed hereto.*

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD  
IN THE MATTER OF

*Vermillion Drain, The Enclave at Vermillion Section 3 Arm*

NOTICE

To Whom It May Concern and: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Vermillion Drain, The Enclave at Vermillion Section 3 Arm** on **November 26, 2018** at **9:00 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

Vermillion Drain, The Enclave at Vermillion Section 3 Arm

NOTICE

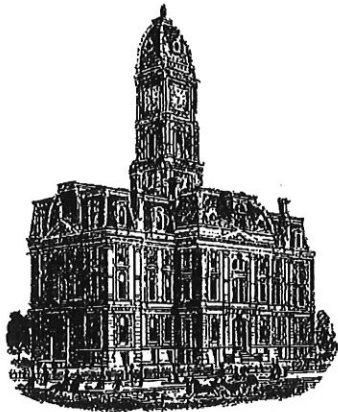
Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **November 26, 2018** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If 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

KCW



*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**

**August 11, 2020**

**Re: Vermillion Drain: Enclave at Vermillion Section 3**

Attached are as-built, certificate of completion & compliance, and other information for Enclave at Vermillion section 3. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated October 18, 2018. The report was approved by the Board at the hearing held November 26, 2018. (See Drainage Board Minutes Book 18, Pages 302-303) The changes are as follows: the 12" RCP was lengthened from 558 feet to 560 feet. The 15" RCP was shortened from 472 feet to 468 feet. The 18" RCP was lengthened from 246 feet to 247 feet. The 24" RCP was lengthened from 160 feet to 171 feet. The 6" SSD was shortened from 3,032 feet to 2,989 feet. The open ditch was shortened from 68 feet to 65 feet. The length of the drain due to the changes described above is now **4,672 feet**.

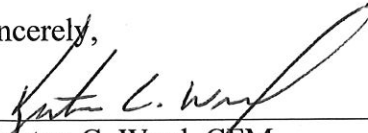
The non-enforcement was approved by the Board at its meeting on November 26, 2018 and recorded under instrument #2020000403.

The following sureties were guaranteed by Standard Financial Corporation and released by the Board on its August 10, 2020 meeting.

Bond-LC No: 1341ENC3  
Amount: \$169,172.40  
For: Storm Sewers & SSD  
Issue Date: October 15, 2018

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

Sincerely,



---

Kenton C. Ward, CFM  
Hamilton County Surveyor



CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: **THE ENCLAVE AT VERMILLION SECTION THREE**

I hereby certify that:

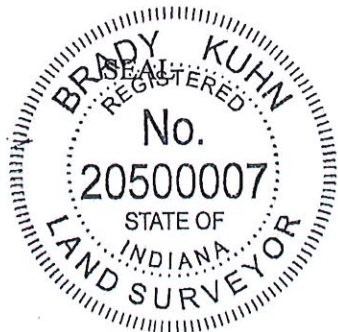
1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.
5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Signature:  Date: 7-14-2020

Type or Print Name: BRADY KUHN

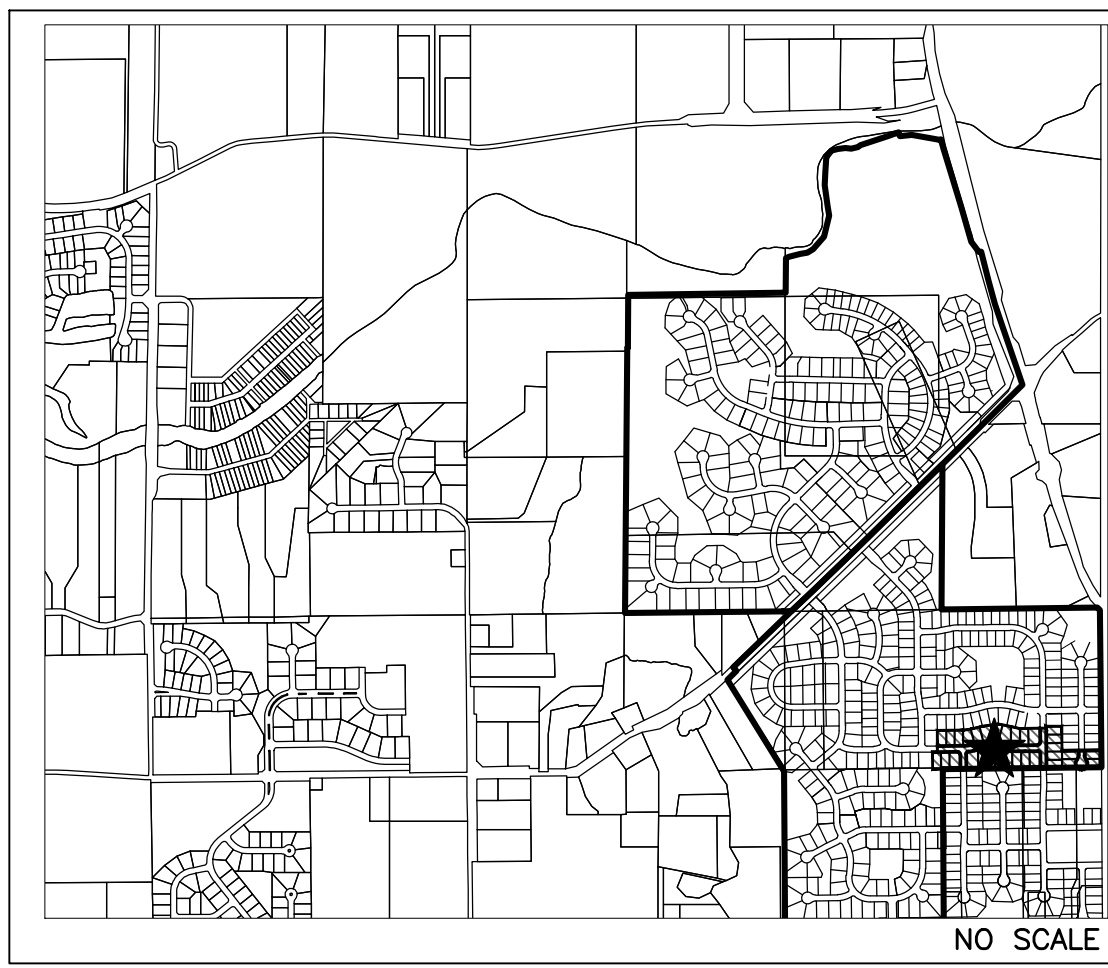
Business Address: 10505 NORTH COLLEGE AVE  
INDIANAPOLIS, IN 46280

Telephone Number: 317-846-6611



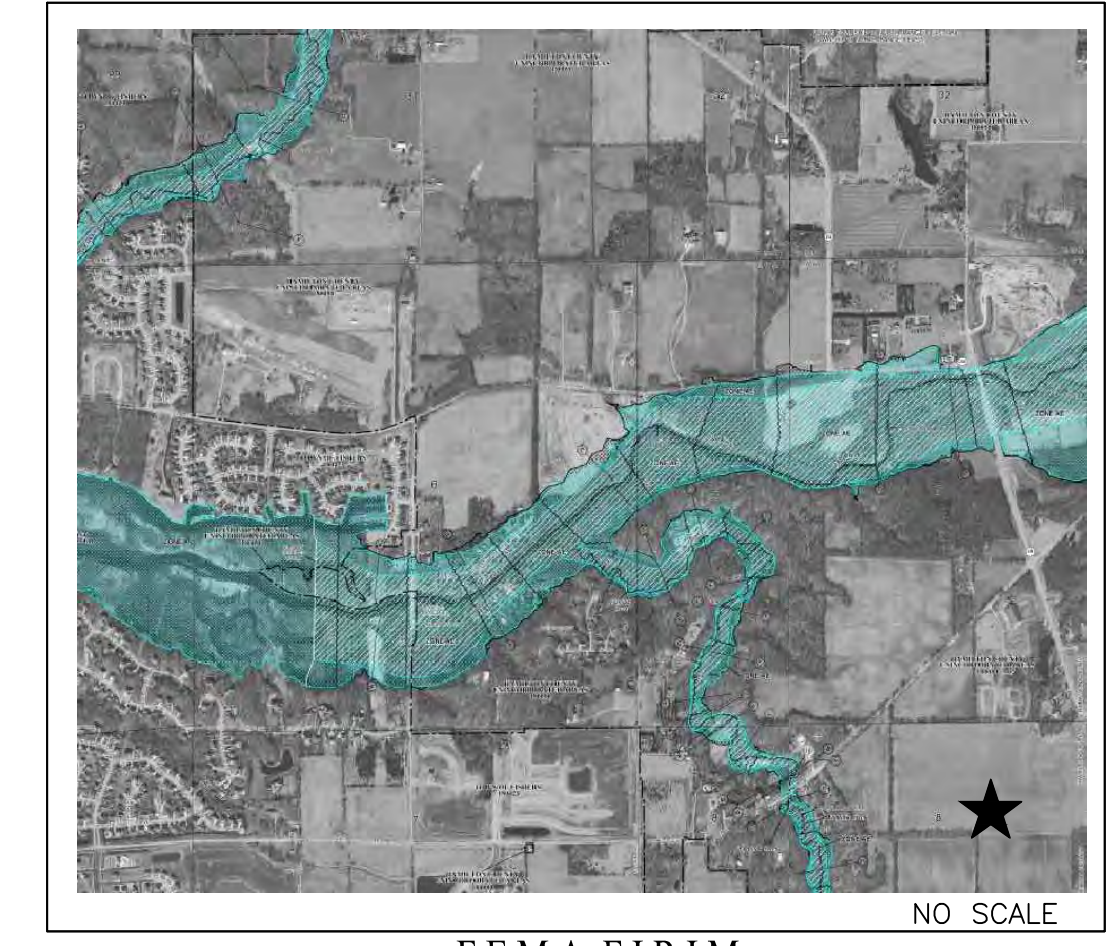
INDIANA REGISTRATION NUMBER

LS 20500007



AREA LOCATION MAP  
NO SCALE

# RECORD DRAWING CONSTRUCTION DRAWINGS **THE ENCLAVE AT VERMILLION** **SECTION THREE** FALL CREEK TOWNSHIP, FORTVILLE, IN 46040



F.E.M.A. F.I.R.I.M.  
NO SCALE

**GENERAL NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- ALL QUANTITIES GIVEN ON THESE PRINTS ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
- THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT.
- ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
- THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE MAP #18057C0259G AND 18057C0278G, NOVEMBER 19, 2014.
- BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
- THIS SITE DOES CONTAIN WETLANDS AS SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE, FORTVILLE, INDIANA, NATIONAL WETLANDS INVENTORY MAP. NO WETLANDS ARE IMPACTED BY THIS DEVELOPMENT.
- DESIGN PROFESSIONAL CERTIFYING PLANS FOR THE PROJECT ACKNOWLEDGES THEIR PROFESSIONAL RESPONSIBILITY FOR ENSURING THAT ALL WORK IS CORRECT, ACCURATE AND COMPLIES WITH ALL APPROPRIATE LAWS, STANDARDS, REGULATIONS AND ORDINANCES. IF AN ERROR OR OMISSION IS FOUND, THE DESIGN PROFESSIONAL ACCEPTS FULL RESPONSIBILITY AND SHALL DETERMINE A SOLUTION THAT COMPLIES WITH ALL APPROPRIATE LAWS, STANDARDS, REGULATIONS AND ORDINANCES. IF SUCH AN ERROR OR OMISSION IS FOUND, THE DEVELOPER IS NOT RELIEVED OF COMPLYING WITH ALL APPROPRIATE LAWS, STANDARDS, REGULATIONS AND ORDINANCES.
- ALL WATER MAIN, HYDRANTS, AND WATER VALVES SHALL BE INSPECTED AND SHALL COMPLY WITH BACKFILL, BEDDING, AND THRUST BLOCK REQUIREMENTS PER TOWN OF FORTVILLE UTILITY STREET STANDARDS.
- THE DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL ADA REQUIREMENTS. SHALL BE PROWAG COMPLIANT AND MEET ALL CURRENT INDOT STANDARD SPECIFICATIONS.
- A ROAD CUT WILL NOT BE PERMITTED FOR ANY UTILITY AFTER A PROOF ROLL HAS BEEN COMPLETED. PRIOR TO A PROOF ROLL, ANY UTILITY PLACED WITHIN THE LIMITS OF THE ROADWAY SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

**BENCHMARK INFORMATION**

**SOURCE BENCHMARK**  
HSE 38  
A BRONZE DISK STAMPED "HAMILTON COUNTY GEODETIC CONTROL" SET IN THE NORTH END OF THE EAST CONCRETE HANDRAIL ON THE BRIDGE OVER FALL CREEK ON SOUTHEASTERN PARKWAY SOUTH OF 113TH STREET.  
N=1714311.26  
E=271886.09  
EL=809.14 (NAVD 88)

**TBM 2**  
RAILROAD SPIKE SET IN THE WEST SIDE OF A UTILITY POLE LOCATED APPROXIMATELY 78' SOUTH OF THE NORTHEAST CORNER OF THE NORTHEAST QUARTER OF SECTION 8-T17N-R6E.  
N=1709400  
E=273165  
EL=864.60 (NAVD 88)

**TBM - WOODS 1**  
MAG NAIL SET WITH WASHER IN THE CURB ON THE EAST SIDE OF VERMILLION DRIVE, APPROXIMATELY 12' +/- SOUTH OF THE STORM INLET AT THE SOUTHWEST CORNER OF LOT 252 IN THE WOODS AT VERMILLION - SECTION ONE  
N=1709211.04  
E=271032.69  
EL=861.40 (NAVD 88)

**TBM - RIDGE 1**  
MAG NAIL SET WITH WASHER IN THE WALK ON THE WEST SIDE OF PORTAGE WOODS DRIVE, APPROXIMATELY 5' +/- NORTH AND 19' +/- WEST OF THE CENTERLINE INTERSECTION OF PORTAGE WOODS DRIVE AND HUNTING MEADOW DRIVE IN THE RIDGE AT FLAT FORK - SECTION ONE  
N=1712098.06  
E=270413.43  
EL=855.66 (NAVD 88)

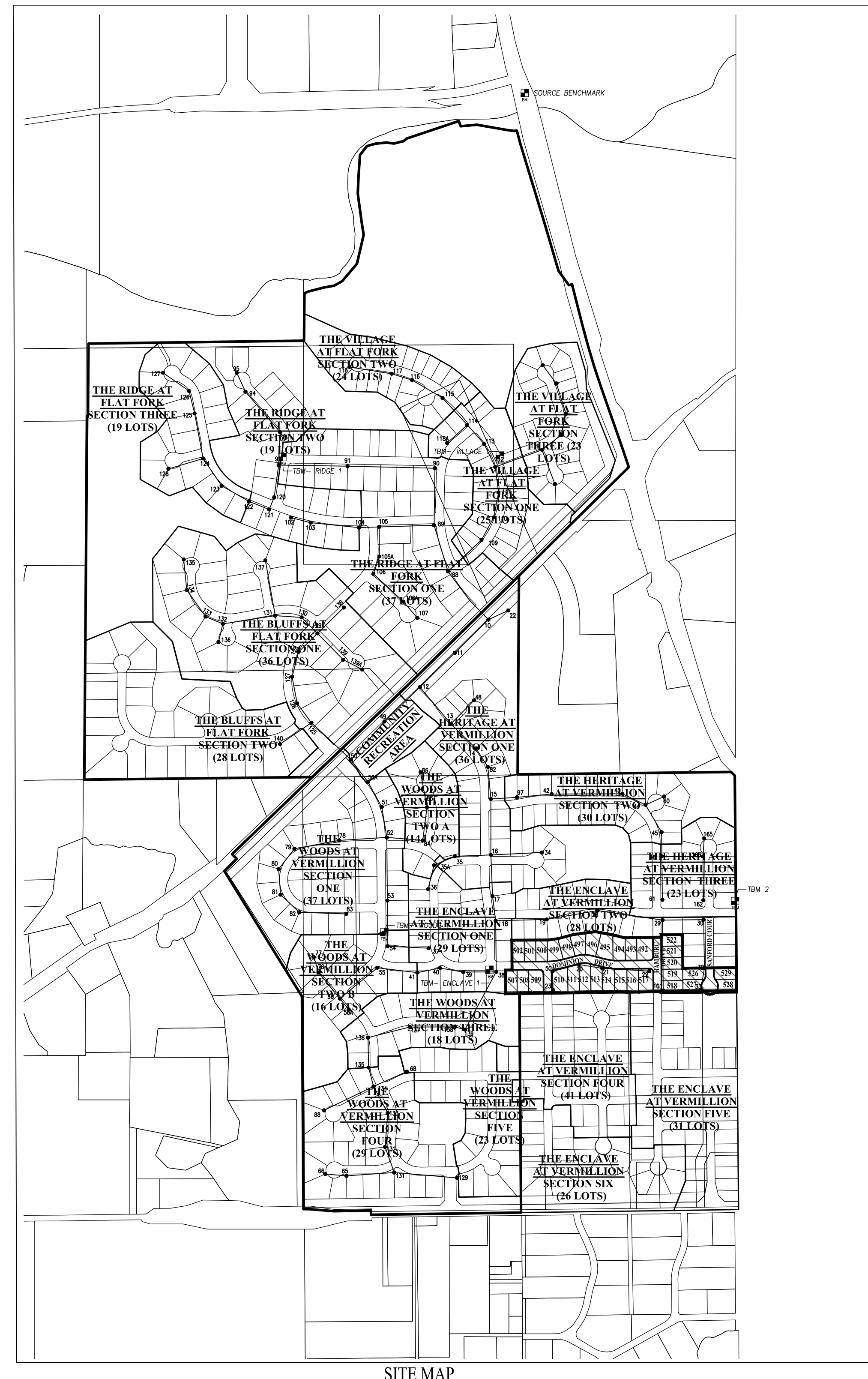
**TBM - ENCLAVE 1**  
MAG NAIL SET IN THE WALK AT THE SOUTH SIDE OF DOMINION DRIVE AND KENSINGTON LANE, APPROXIMATELY 23' +/- SOUTH OF THE CENTERLINE OF DOMINION DRIVE AND 6' +/- WEST OF THE CENTERLINE OF KENSINGTON LANE IN THE ENCLAVE AT VERMILLION - SECTION ONE  
N=1708992.08  
E=271671.85  
EL=862.36 (NAVD 88)

**TBM - VILLAGE 1**  
MAG NAIL SET IN THE WALK AT THE NORTHEAST CORNER OF CLIFFSIDE DRIVE AND BUCK RIDGE LANE, APPROXIMATELY 24' +/- NORTH OF THE CENTERLINE OF BUCK RIDGE LANE AND 21' +/- EAST OF THE CENTERLINE OF CLIFFSIDE DRIVE IN THE VILLAGE AT FLAT FORK - SECTION ONE  
N=1712107.64  
E=271734.52  
EL=857.24 (NAVD 88)

NOTE:  
THE ABOVE BENCHMARKS ARE LABELED AND MARKED ON THE SITE MAP (RIGHT).

**OPERATING AUTHORITIES:**

FISHERS DEPARTMENT OF COMMUNITY DEVELOPMENT ONE MUNICIPAL DRIVE FISHERS, IN 46038 317-595-3126 ATTN: MEGAN SCHAEFER	FORTVILLE WATER 714 E. BROADWAY ST. FORTVILLE, IN 46040 317-485-4044 ATTN: JOE RENNER	HAMILTON COUNTY HIGHWAY DEPARTMENT 1700 S. 10TH STREET NOBLESVILLE, IN 46060 317-773-7770 ATTN: DAVID LUCAS
SAMCO/HSE UTILITIES 11901 LAKESIDE DRIVE FISHERS, IN 46038 317-577-1150 ATTN: THOMAS KALLIO	NINESTAR CONNECT (TELEPHONE) P.O. BOX 108 MAXWELL, IN 46154 317-323-2078 ATTN: GEORGE PLUSINKI	TRIAD ASSOCIATES 5835 LAWTON LOOP EAST DRIVE INDIANAPOLIS, IN 46216 317-377-5230 ATTN: DICK MOSIER
NINESTAR CONNECT (POWER) 2243 EAST MAIN STREET GREENFIELD, IN 46140 317-323-2087 ATTN: JOHN SPLATTER	EMBARQ/ CENTURY LINK 50 NORTH JACKSON STREET FRANKLIN, IN 46131 317-736-4863 ATTN: DAVID MEYERS	HAMILTON COUNTY SURVEYOR ONE HAMILTON COUNTY SQUARE, SUITE 188 NOBLESVILLE, INDIANA 46060 317-776-8495 ATTN: STEVE CASH
VECTREN 16000 ALLISONVILLE ROAD NOBLESVILLE, IN 46061 317-776-5532 ATTN: JOANIE CLARK	COMCAST 5330 E. 65TH STREET INDIANAPOLIS, IN 46220 317-774-3384 ATTN: MATT STRINGER	

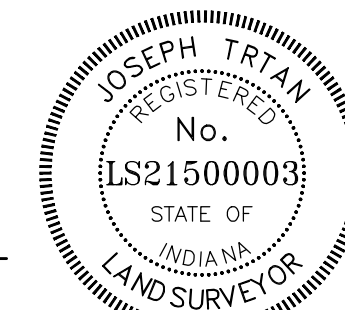


SITE MAP

SHEET INDEX	
SHEET NO.	DESCRIPTION
C001	TITLE SHEET
C100	EXISTING CONDITIONS / DEMOLITION PLAN
C200	STORMWATER POLLUTION PREVENTION PLAN PHASE 1
C201	STORMWATER POLLUTION PREVENTION PLAN PHASE 2
C202-C203	STORMWATER POLLUTION PREVENTION DETAILS & SPECS.
C300	DEVELOPMENT PLAN
C301	PONDING LIMITS/FLOOD ROUTING PLAN
C400-C402	STREET PLAN & PROFILE/INTERSECTION DETAIL
C403-406	STREET DETAILS & SPECIFICATIONS
C407	TRAFFIC CONTROL/SIGNAGE/STREET LIGHT/SUMP PLAN
C500-C502	SANITARY SEWER PLAN & PROFILE
C503-C505	SANITARY SEWER DETAILS & SPECIFICATIONS
C600-C601	STORM SEWER PLAN & PROFILE
C602-C603	STORM SEWER DETAILS
C700	WATER MAIN PLAN
C701-C703	WATER MAIN DETAILS/SPECIFICATIONS
L100	LANDSCAPE PLAN

RECORD DRAWING  
08/16/2019

JOSEPH TRTAN, LS21500003

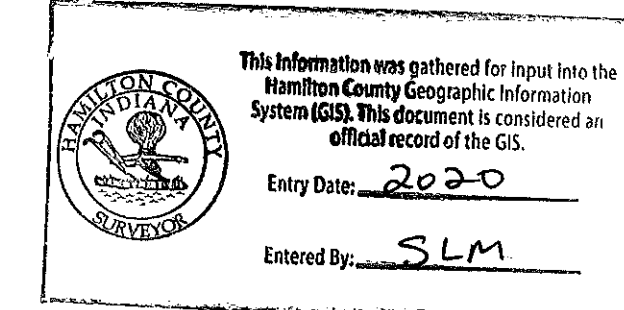


**STREET DATA**

STREET LENGTHS:	
HAMBURG DRIVE	331.11 L.F.±
DOMINION DRIVE	890.94 L.F.±
SANFORD COURT	110.14 L.F.±
GRIMSHAW DRIVE	167.84 L.F.±
TOTAL	1,500.03 L.F.±

NOTE: DESIGN SPEED FOR ALL INTERIOR ROADS SHALL BE 20 MPH.

SITE AREA:	
SITE	9.35 AC.±
LOTS	31



**PLANS PREPARED FOR**

**REPUBLIC DEVELOPMENT**  
NORTH CONNECTICUT DEVELOPMENT CORP.  
13578 EAST 131st STREET, SUITE 200  
FISHERS, IN 46037  
TELEPHONE: 317-770-1818  
CONTACT PERSON: DOUG WAGNER

**PLANS PREPARED BY**

**WEIHE ENGINEERS, INC.**  
10505 N. COLLEGE AVE.  
INDIANAPOLIS, IN 46280  
(317) 846-6611  
CONTACT PERSON: ALVIN (RUSTY) SKOOG



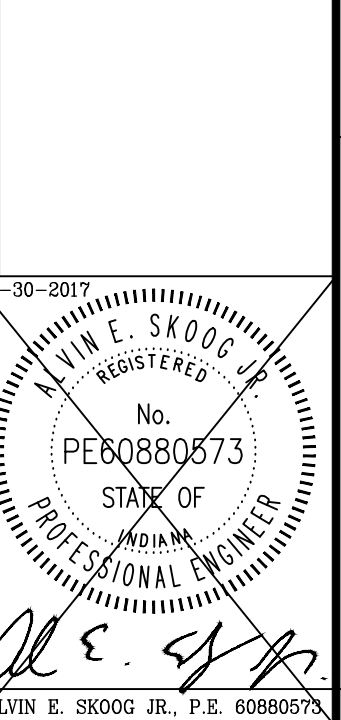
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811 or 800-382-5544  
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PER INDIANA STATE LAW IC 8-1-26,  
IT IS AGAINST THE LAW TO EXCAVATE  
WITHOUT NOTIFYING THE UNDERGROUND  
LOCATION SERVICE TWO (2) WORKING  
DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue  
Indianapolis, Indiana 46280  
weihe.net  
317 | 846 - 6611  
800 | 452 - 6408  
317 | 843 - 0546 fax

**WEIHE ENGINEERS**  
Land Surveying | Civil Engineering  
Landscape Architecture

PROJECT NO.: W150302-3  
DWG. NAME: 001 The Street.dwg  
DESIGNED BY: JET  
DRAWN BY: JET  
CHECKED BY: JET  
DATE: 08-16-2019

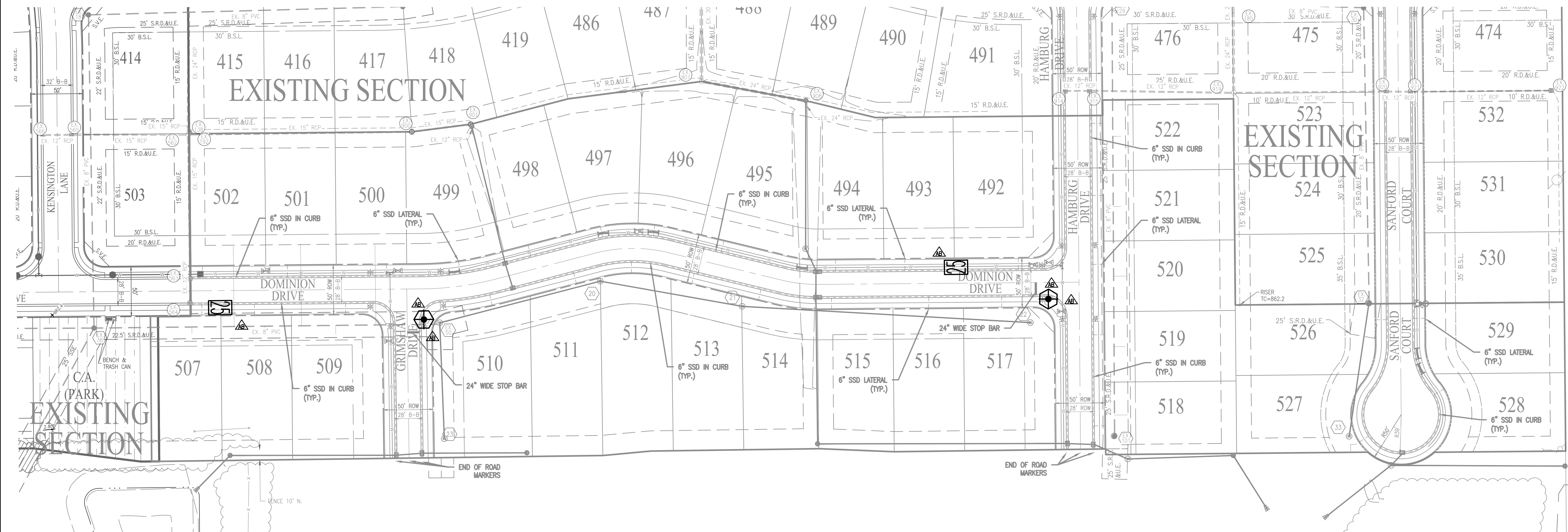


PREPARED FOR:  
**THE ENCLAVE AT VERMILLION  
SECTION THREE**  
NORTH CONNECTICUT DEVELOPMENT CORP.

TITLE SHEET  
Part of the SR 85 / 4 of Section 15, Township 17 North, Range 6 East, Paul Creek Township, Hamilton County, Indiana

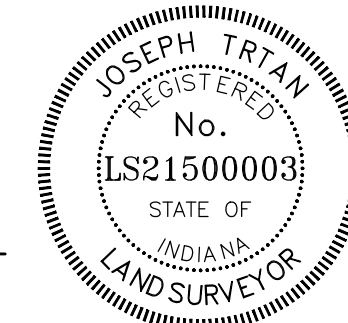
SHEET NO.  
**C001**  
PROJECT NO.  
W150302-3





**RECORD DRAWING**  
 TRAFFIC AS-BUILTS  
 TRAFFIC SIGNS ONLY  
 08/16/2019

*Joe Trtan*  
 JOSEPH TRTAN, LS21500003



- AS-BUILT INFORMATION
- BUILT AS PLANNED

DATE OF LAST FIELDWORK: 08/02/2019

**BENCHMARK INFORMATION**

- SOURCE BENCHMARK**  
 HSE 38  
 A BRONZE DISK STAMPED "HAMILTON COUNTY GEODETIC CONTROL" SET IN THE NORTH END OF THE EAST CONCRETE HANDRAIL ON THE BRIDGE OVER FALL CREEK ON SOUTHEASTERN PARKWAY SOUTH OF 113TH STREET.  
 N=1714311.26  
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 N=1712107.64  
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 EL=857.24 (NAVD 88)

**TRAFFIC LEGEND**

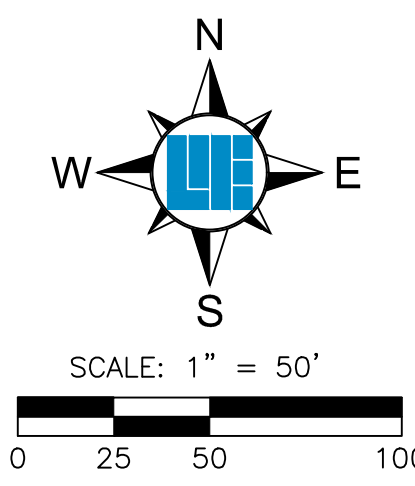
SYMBOL	TYPE	SPECIFICATION	QUANTITY
	SPEED LIMIT (25 MPH)	SEE DETAIL C402	2 ✓
	STREET SIGN	SEE DETAIL C402	2 ✓
	STOP SIGN	SEE DETAIL C402	2 ✓
	END OF ROAD MARKERS	SEE DETAIL C402	6
	STREET LIGHT	SEE DETAIL C403	3

**LEGEND**

- = RIGHT-OF-WAY LINE
- = PROPOSED STORM SEWER LINE
- = EXISTING STORM SEWER LINE
- = SWALE
- = SSD
- = PROPOSED SANITARY SEWER LINE
- = EXISTING SANITARY SEWER LINE
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER LATERAL
- = PROPOSED WATER LINE
- = FLOW DIRECTION
- = EXISTING CONTOURS
- = PROPOSED ELEVATION
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- = STORM INLET
- = TOP OF CASTING
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- = MANHOLE
- = STRUCTURE
- = DRAINAGE EASEMENT
- = DRAINAGE AND UTILITY EASEMENT
- = DRAINAGE UTILITY AND SANITARY SEWER EASEMENT
- = CONCRETE END SECTION
- = MATCH EXISTING
- = TYP.
- = PROP.
- = EX.
- = R.
- = V.W.
- = MLAG
- = ROW
- = B-B
- = PAD ELEV
- = EMERGENCY FLOOD ROUTE
- = B.S.L.
- = HP
- = ADA RAMP
- = FIRE HYDRANT
- = PROPOSED ASPHALT PATH

**NOTES:**

- REFER TO HAMILTON COUNTY HIGHWAY DEPARTMENT STANDARD PLANS FOR STREET SIGN DETAILS.
- THE LIGHT AND SIGN CONTRACTOR SHALL APPLY FOR AN ENCROACHMENT PERMIT THROUGH THE HAMILTON COUNTY HIGHWAY DEPARTMENT AND SHALL NOTIFY THE ENGINEERING DEPARTMENT FOR INSPECTIONS.
- STREET ID SIGNS TO BE PURCHASED AND INSTALLED AT THE DEVELOPER'S EXPENSE ACCORDING TO HAMILTON COUNTY STANDARD PLAN S-2. ALL REGULATORY SIGNS, IN ACCORDANCE WITH HAMILTON COUNTY STANDARD PLANS S-1 AND S-3, SHALL BE PURCHASED BY THE DEVELOPER AND DELIVERED TO THE HAMILTON COUNTY HIGHWAY DEPARTMENT FOR INSTALLATION AFTER ACCEPTANCE OF THE STREETS.
- DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, FENCES OR OTHER SUCH AMENITIES AND PERMANENT STRUCTURES ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY.
- A ROAD CUT WILL NOT BE PERMITTED FOR ANY UTILITY AFTER A PROOF ROLL HAS BEEN COMPLETED. PRIOR TO A PROOF ROLL, ANY UTILITY PLACED WITHIN THE LIMITS OF THE ROADWAY SHALL BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
- LIGHTING, SIGNS, IRRIGATION LINES, ETC. MUST BE CONSTRUCTED TO MAINTAIN A HORIZONTAL SEPARATION OF TEN (10) FEET FROM THE CENTER OF THE SANITARY SEWER FACILITIES.
- STOP BAR AND CROSSWALKS SHALL BE PERFORMED TAPE (3M 270ES). AND SHALL BE PLACED AT LEAST 4 FEET FROM A CROSS WALK.



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 24 Hours a Day, 7 Days a Week.  
 PER INDIANA STATE LAW IC 8-1-26,  
 IT IS AGAINST THE LAW TO EXCAVATE  
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 LOCATION SERVICE TWO (2) WORKING  
 DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue  
 Indianapolis, Indiana 46280  
 weihe.net  
 317 | 846 - 6611  
 800 | 452 - 6408  
 317 | 843 - 0546 fax  
 ALLAN H. WEIHE, P.E., L.S. - FOUNDER

**WEIHE ENGINEERS**  
 Land Surveying | Civil Engineering  
 Landscape Architecture

PROJECT NO.: W150302-3  
 DWG. NAME: AS-BUILT TRAFFIC CONTROL  
 DESIGNED BY: JET  
 DRAWN BY: JET  
 CHECKED BY: JET  
 DATE: 08-30-2019

REVISIONS AND ISSUES

NO.	DATE	DESCRIPTION
1	08-30-2019	ISSUED FOR PERMIT

JOSEPH E. SKOOG JR., P.E. 60880973  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF INDIANA

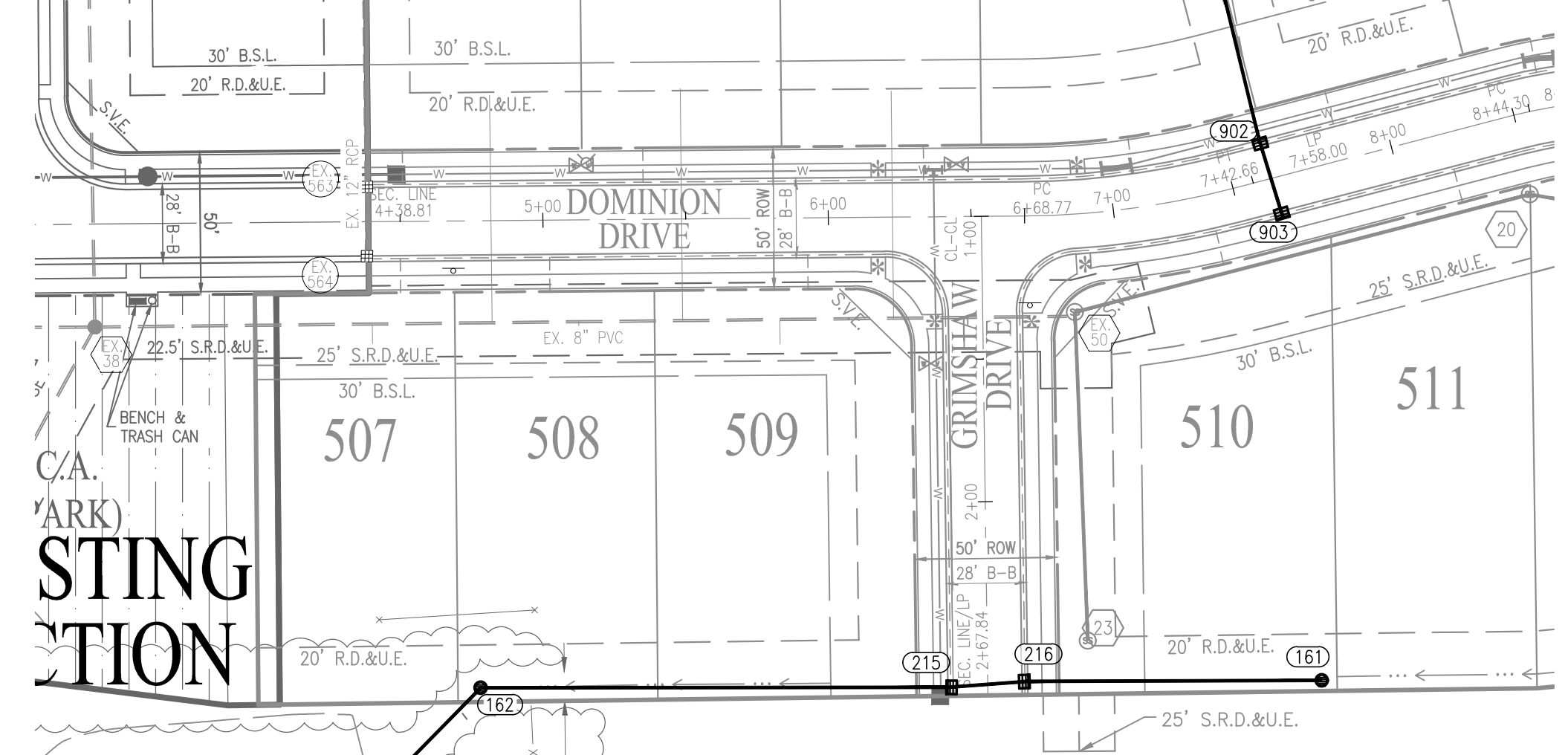
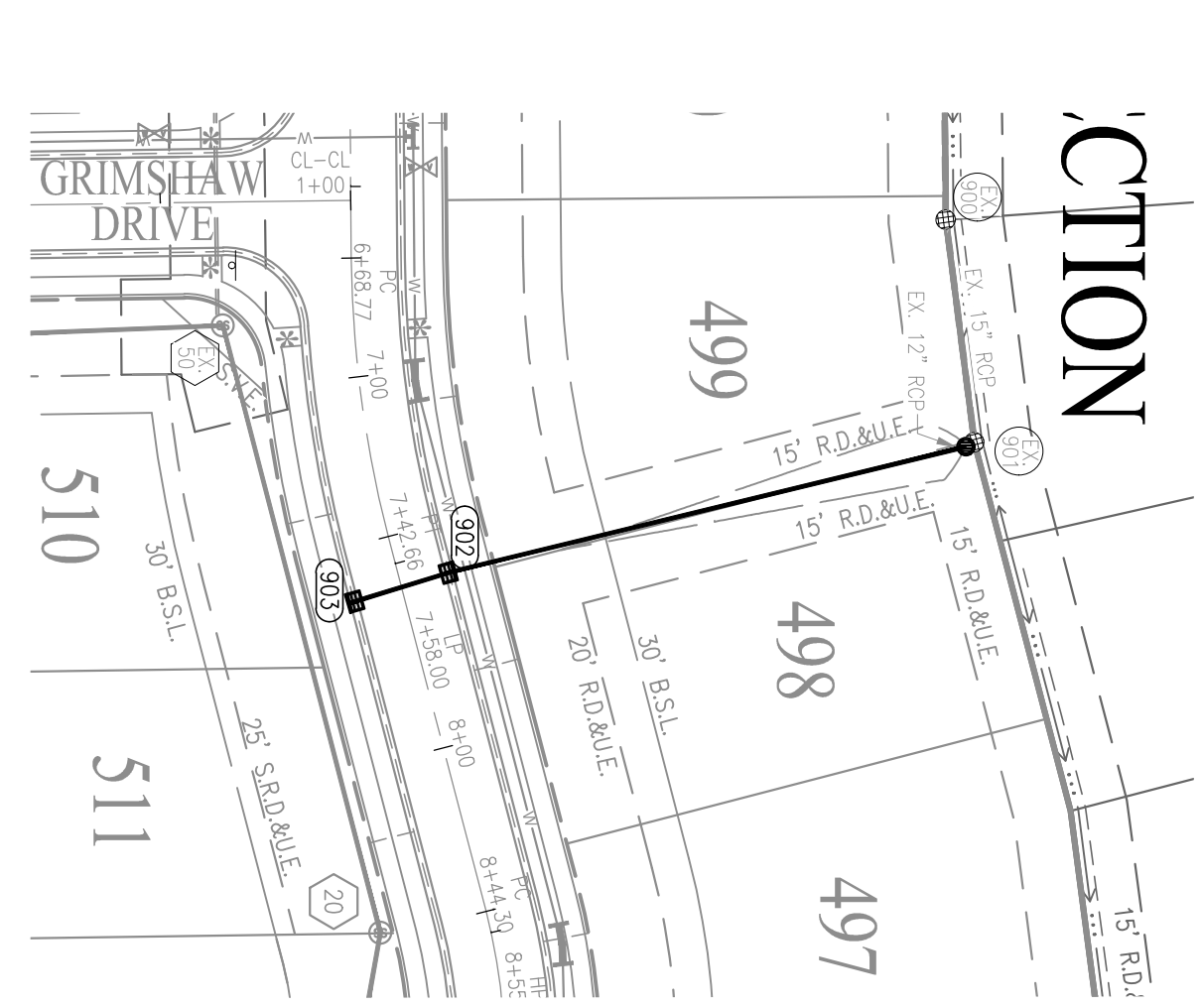
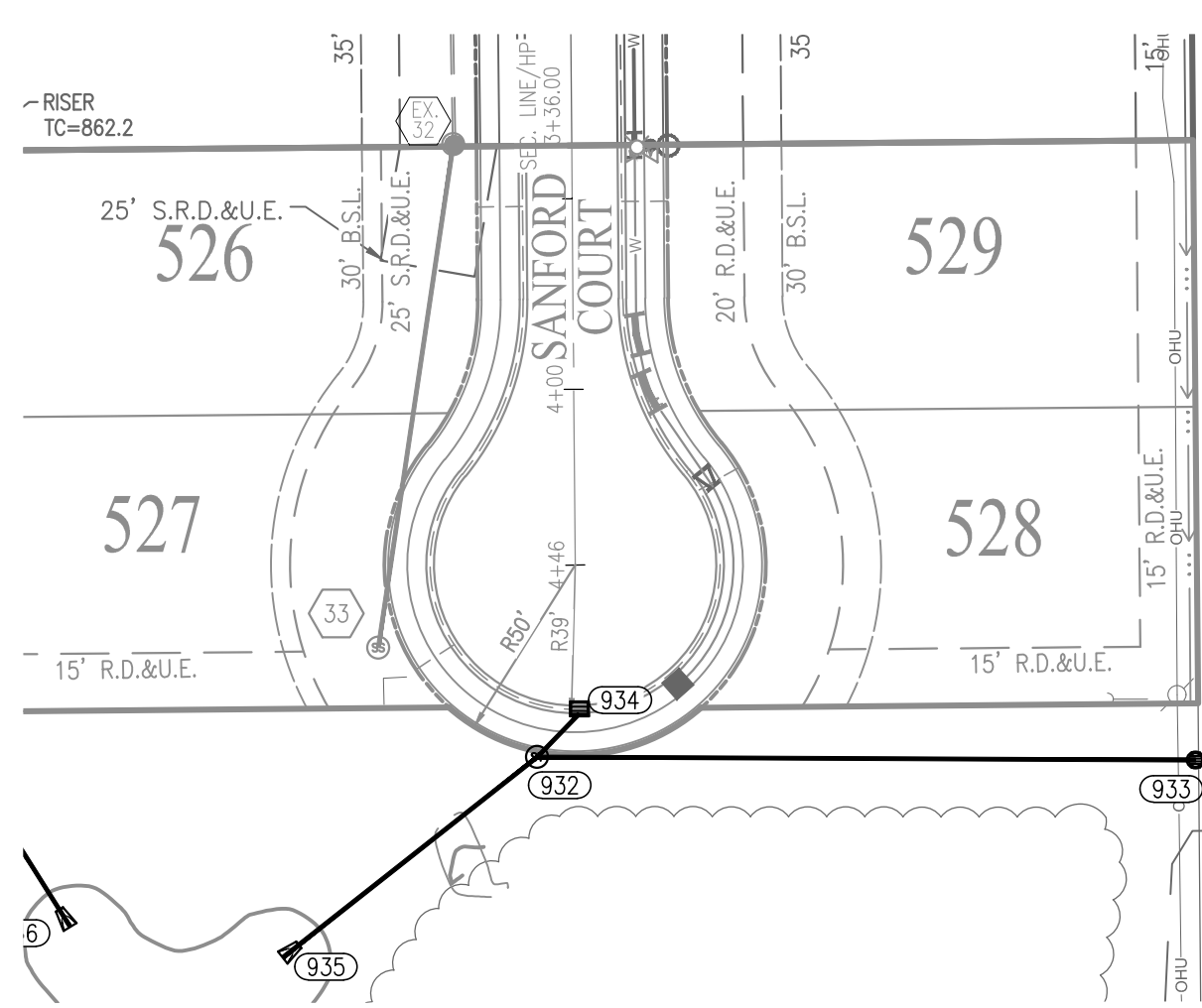
PREPARED FOR:  
**THE ENCLAVE AT VERMILLION SECTION THREE**  
 NORTH CONNECTICUT DEVELOPMENT CORP.  
 TRAFFIC CONTROL/SIGNAGE/STREET LIGHT/SUMP PLAN  
 Part of the SR 85 1/4 of Section 15, Township 17 North, Range 6 East, Paul Creek Township, Hamilton County, Indiana

SHEET NO. **C407**  
 PROJECT NO. **W150302-3**

LOCATION: H:\2019\W150302\Section 3\Engineering\Design\submittals\AS-Built\AS-Built Traffic Control.dwg  
 DATE/TIME: August 16, 2019 4:40pm  
 PLOTTED BY: weiver

**STORM SEWER NOTES**

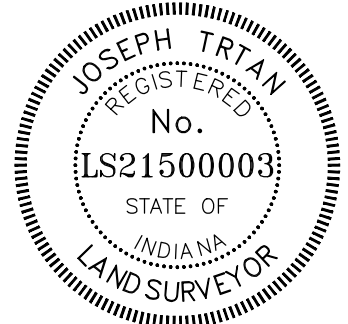
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND STORMWATER POLLUTION PREVENTION PLAN.
- REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
- THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
- ANY PART OF STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
- CLEARANCE BETWEEN STORM / SANITARY SEWER SYSTEMS AND DOMESTIC/FIRE LINE SERVICE, SHALL MAINTAIN 18" HORIZONTAL AND 18" VERTICAL.
- CONTRACTOR TO INSTALL CONCRETE CRADLES AT PIPE CROSSING WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
- SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO ITS CONDITION PRIOR TO CONSTRUCTION.
- WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
- COMPACTED "B" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
- ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- COORDINATE LOCATIONS AND CONNECTIONS OF BUILDING STORM LINES WITH PLUMBING DRAWINGS.
- FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO STORM SEWER INSTALLATION.
- ALL EXISTING MANHOLE AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
- EXISTING PIPES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- ALL STORM PIPE CONNECTIONS AT STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS RATED FOR H20 LOADING.
- ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR CHANNEL FROM INVERT IN TO INVERT OUT.
- NEW PIPES AND STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS PRIOR TO FINAL TURNOVER TO THE OWNER.
- IF HDPE PIPE IS SPECIFIED USE DUAL WALLED, HANCOCK HQ, ADS N-12 PIPE OR APPROVED EQUAL.
- ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE HDPE MATERIAL, IF SPECIFIED, COMPARABLE WITH STORAGE PIPES.
- PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #6 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.



**RECORD DRAWING**

STORM SEWER AS-BUILTS  
STORM SEWER STRUCTURES ONLY  
08/16/2019

JOSEPH TRTAN, LS21500003



**LEGEND**

- RIGHT-OF-WAY LINE
- PROPOSED STORM SEWER LINE
- EXISTING STORM SEWER LINE
- SWALE
- SSD
- PROPOSED SANITARY SEWER LINE
- EXISTING SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- SANITARY SEWER LATERAL
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- STORM INLET
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- INVERT
- REINFORCED CONCRETE PIPE
- MANHOLE
- STRUCTURE
- DRAINAGE EASEMENT
- DRAINAGE AND UTILITY EASEMENT
- DRAINAGE, UTILITY AND SANITARY SEWER EASEMENT
- CONCRETE END SECTION
- MATCH EXISTING

**TYP**

- PROPOSED
- EXISTING
- RADIUS
- VARIABLE WIDTH
- MINIMUM LOWEST ADJACENT GRADE
- RIGHT-OF-WAY
- BACK OF CURB

**860.4** = PAD ELEV

**→** = EMERGENCY FLOOD ROUTE

**B.S.L.** = BUILDING SETBACK LINE

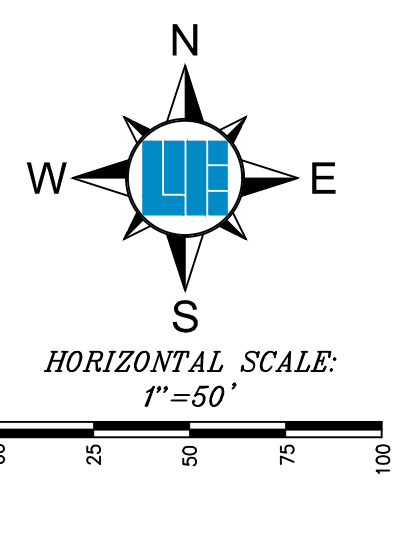
**HP** = HIGH POINT

**+** = ADA RAMP

**\*** = FIRE HYDRANT

**▨** = PROPOSED 8" ASPHALT PATH

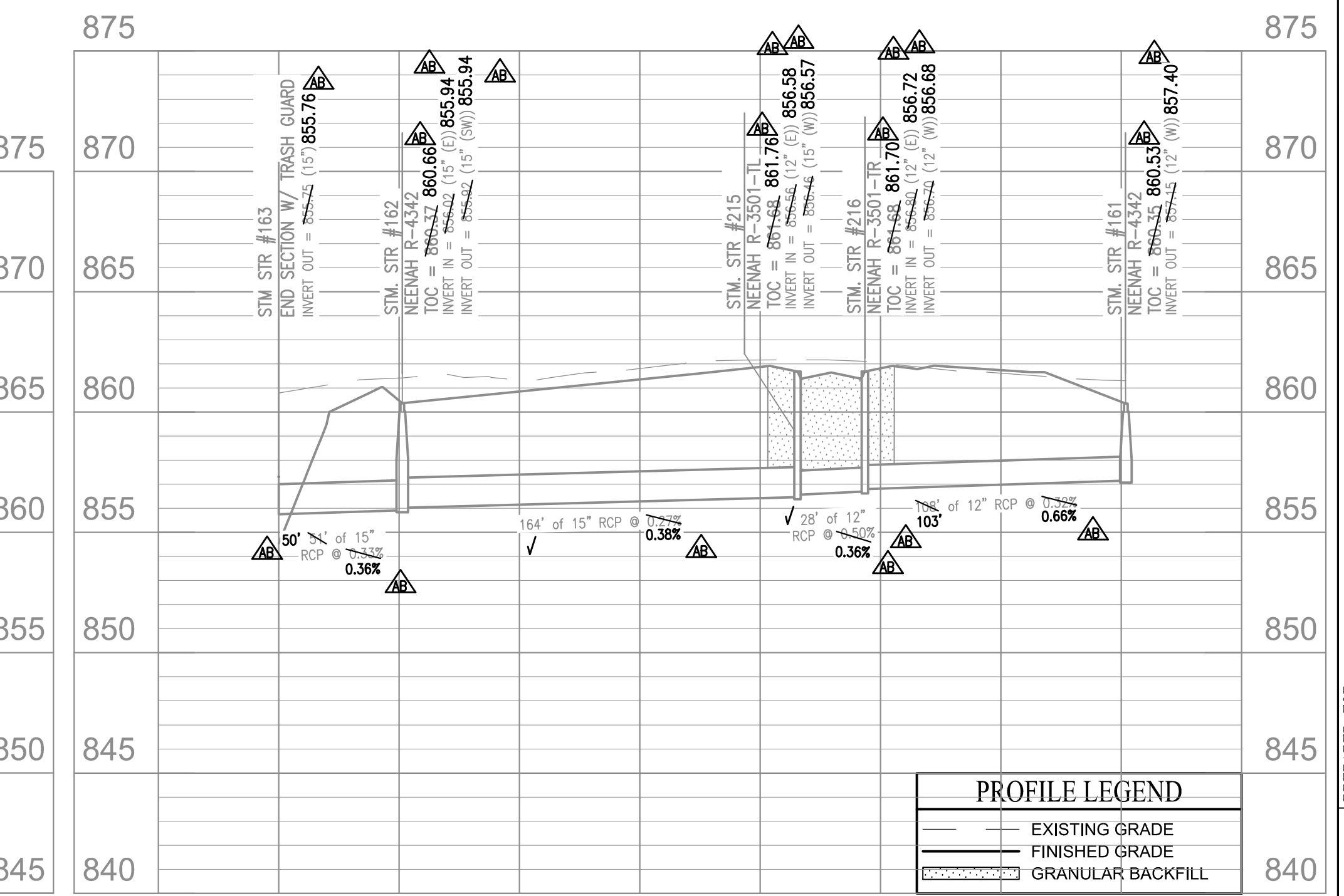
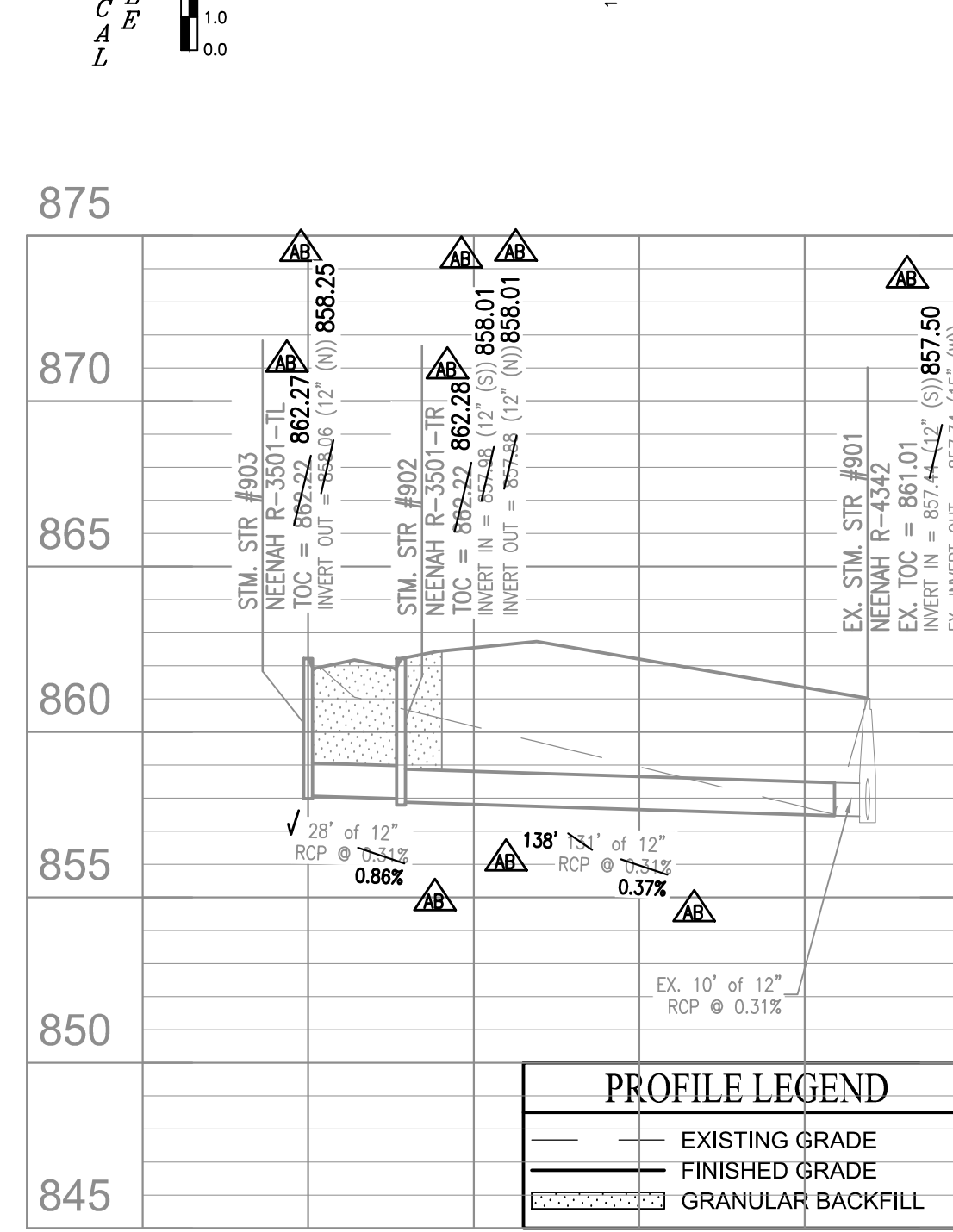
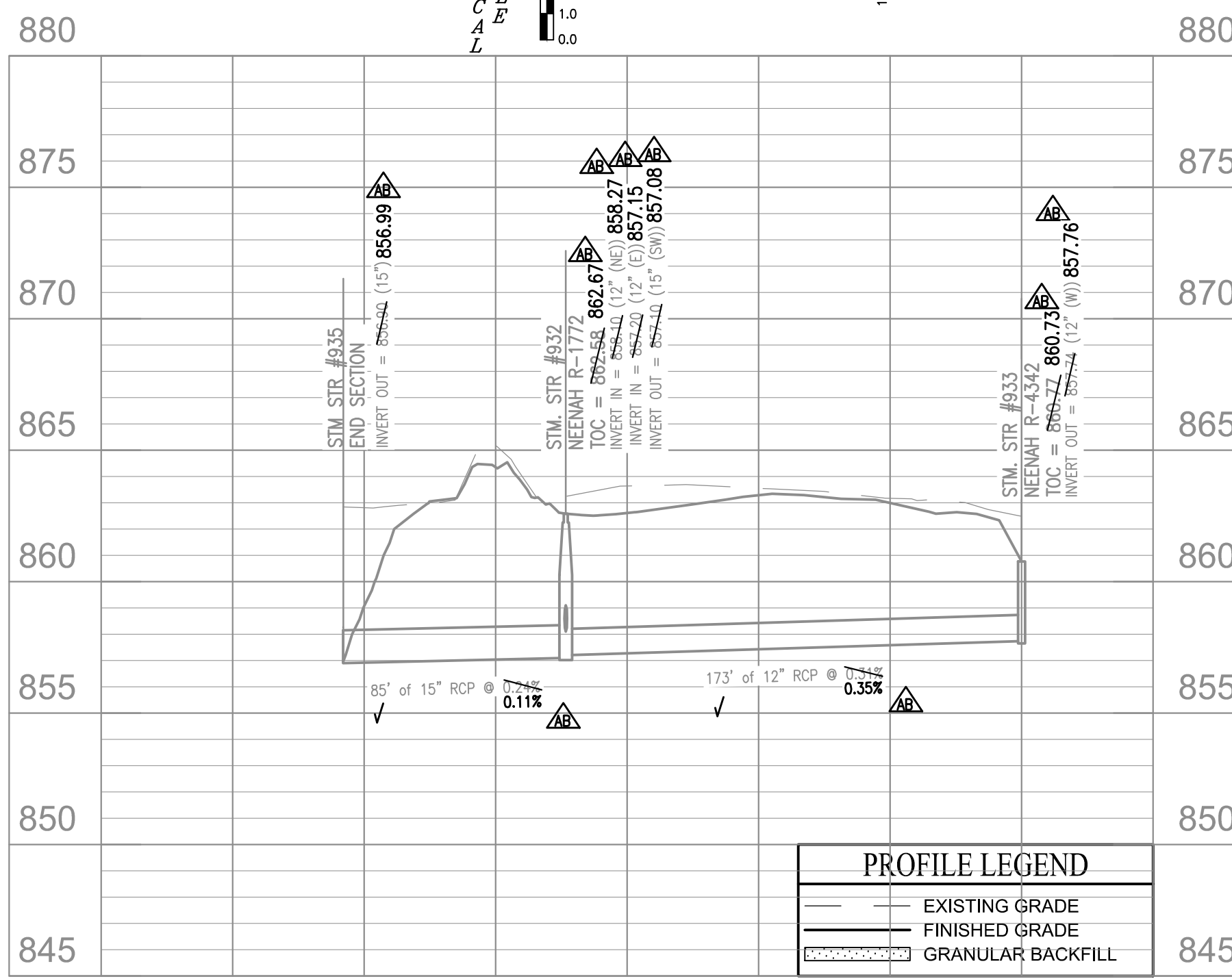
**NOTE:**  
EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS.



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24 Hours a Day, 7 Days a Week.  
PER INDIANA STATE LAW IC 8-1-26,  
IT IS AGAINST THE LAW TO EXCAVATE  
WITHOUT NOTIFYING THE UNDERGROUND  
LOCATION SERVICE TWO (2) WORKING  
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**BENCHMARK INFORMATION**

- SOURCE BENCHMARK**
- HSE 38  
A BRONZE DISK STAMPED "HAMILTON COUNTY GEODETIC CONTROL" SET IN THE NORTH END OF THE EAST CONCRETE HANDRAIL ON THE BRIDGE OVER FALL CREEK ON SOUTHEASTERN PARKWAY SOUTH OF 113TH STREET.  
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RAILROAD SPIKE SET IN THE WEST SIDE OF A UTILITY POLE LOCATED APPROXIMATELY 784' SOUTH OF THE NORTHEAST CORNER OF THE NORTHEAST QUARTER OF SECTION 8-T17N-R6E.  
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weihe.net  
317 | 846 - 6611  
800 | 452 - 6408  
317 | 843 - 0546 fax  
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

**WEIHE ENGINEERS**  
Land Surveying | Civil Engineering  
Landscape Architecture

PROJECT NO.: W150302-3  
DWG. NAME: J8 5000 Storm PIPING  
DESIGNED BY: JMS  
DRAWN BY: MEN  
CHECKED BY: AES  
DATE: 08-30-2017

REVISIONS AND ISSUES

30-2017

ALVIN E. SKOOG JR., REGISTERED PROFESSIONAL ENGINEER  
No. PE0880673  
STATE OF INDIANA  
ALVIN E. SKOOG JR., P.E. 60860973

PREPARED FOR:  
**THE ENCLAVE AT VERMILLION SECTION THREE**  
NORTH CONNECTICUT DEVELOPMENT CORP.  
STORM SEWER PLAN AND PROFILE  
Part of the SR 05 / 1/4 of Section 15, Township 17 North, Range 6 East, Paul Creek Township, Hamilton County, Indiana

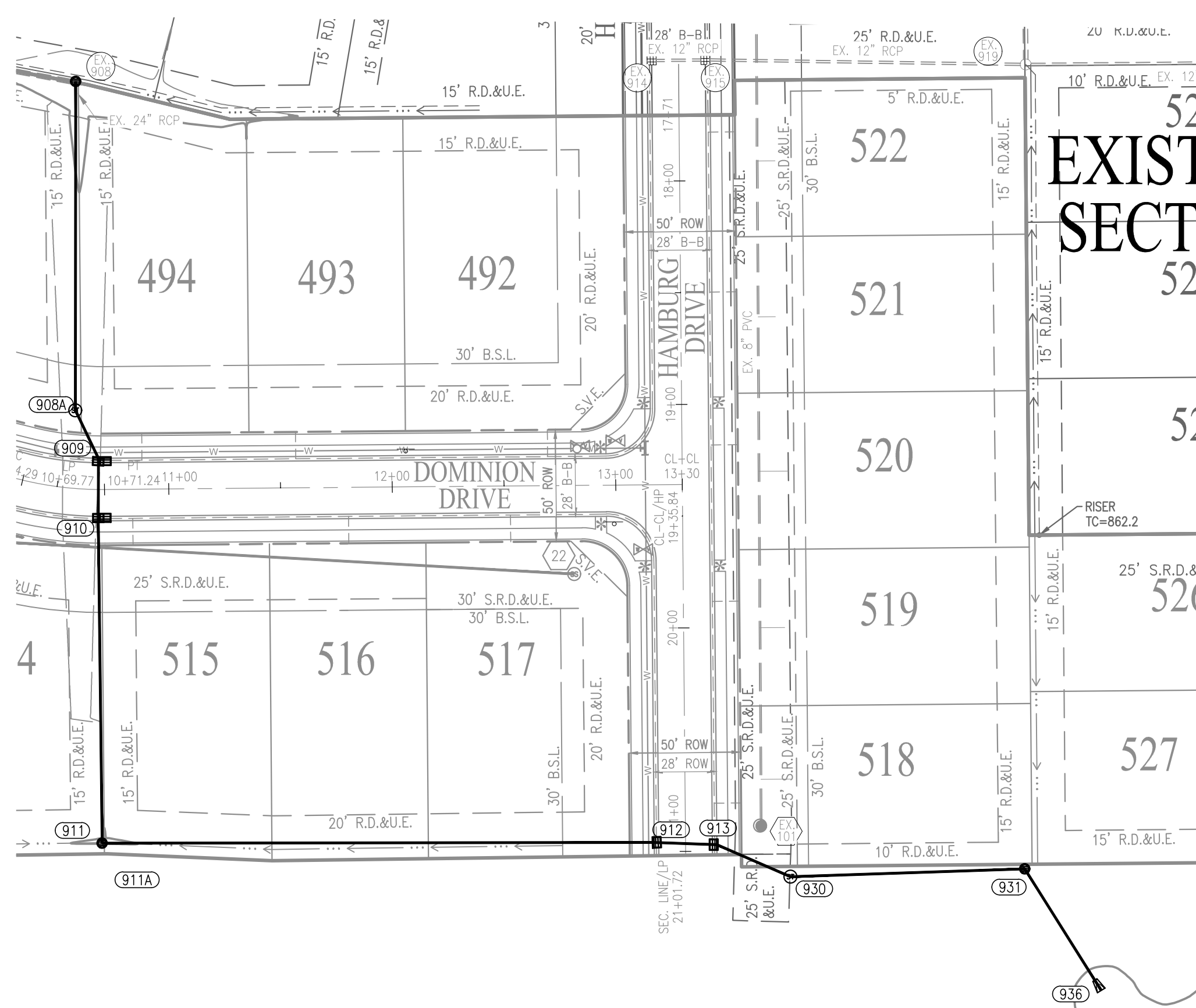
SHEET NO.  
**C600**  
PROJECT NO.  
W150302-3

**STORM SEWER NOTES**

- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND STORMWATER POLLUTION PREVENTION PLAN.
- REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
- THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES. PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR, THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
- ANY PART OF STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
- CLEARANCE BETWEEN STORM / SANITARY SEWER SYSTEMS AND DOMESTIC FIRE LINE SERVICE, SHALL MAINTAIN 10' HORIZONTAL AND 18" VERTICAL.
- CONTRACTOR TO INSTALL CONCRETE CRADLES AT PIPE CROSSING WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
- SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE 9090 WATER MAIN GRADE PVC.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO ITS CONDITION PRIOR TO CONSTRUCTION.
- WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DRAINAGES, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
- COMPACTED "B" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
- ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- COORDINATE LOCATIONS AND CONNECTIONS OF BUILDING STORM LINES WITH PLUMBING DRAWINGS.
- FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO STORM SEWER INSTALLATION.
- ALL EXISTING MANHOLE AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
- EXISTING PIPES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- ALL STORM PIPE CONNECTIONS AT STRUCTURES SHALL BE GROUDED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS RATED FOR H20 LOADING.
- ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR CHANNEL FROM INVERT IN TO INVERT OUT.
- NEW PIPES AND STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS PRIOR TO FINAL TURNOVER TO THE OWNER.
- IF HDPE PIPE IS SPECIFIED USE DUAL WALLED, HANCOH HD, ADS N-12 PIPE OR APPROVED EQUAL.
- ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, COVERS, ETC. SHALL BE HDPE MATERIAL; IF SPECIFIED, COMPATIBLE WITH STORAGE PIPES.
- PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.

STORM SEWER STRUCTURE DATA TABLE				
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
161	MANHOLE	860.35	NEENAH R-4342	INV OUT = 857.15(W)
162	MANHOLE	860.37	NEENAH R-4342	INV IN = 856.02(E) INV OUT = 855.92(SW)
163	END SECTION	858.29	N/A	INV IN = 855.75(NE)
215	INLET TYPE A	861.68	NEENAH R-3501-TL	INV IN = 856.56(E) INV OUT = 856.46(W)
216	INLET TYPE A	861.68	NEENAH R-3501-TR	INV IN = 856.80(E) INV OUT = 856.70(W)
902	INLET TYPE A	862.22	NEENAH R-3501-TR	INV IN = 857.98(S) INV OUT = 857.88(N)
903	INLET TYPE A	862.22	NEENAH R-3501-TL	INV OUT = 858.06(N)
908A	MANHOLE	861.73	NEENAH R-1772	INV IN = 855.37(SE) INV OUT = 855.37(N)
909	MANHOLE	861.34	NEENAH R-3501-TL	INV IN = 855.42(S) INV OUT = 855.42(NW)
910	MANHOLE	861.44	NEENAH R-3501-TR	INV IN = 855.51(S) INV OUT = 855.51(N)
911	MANHOLE	859.85	NEENAH R-4342	INV IN = 855.77(E) INV OUT = 855.77(S)
911A	END SECTION	858.25	N/A	INV IN = 856.00(N)
912	INLET TYPE A	862.38	NEENAH R-3501-TL	INV IN = 856.25(E) INV OUT = 856.25(W)
913	INLET TYPE A	862.38	NEENAH R-3501-TR	INV IN = 856.36(SE) INV OUT = 856.36(W)
930	MANHOLE	862.30	NEENAH R-1772	INV IN = 856.45(E) INV OUT = 856.45(NW)
931	MANHOLE	860.68	NEENAH R-4342	INV IN = 856.70(SE) INV OUT = 856.70(W)
932	MANHOLE	862.58	NEENAH R-1772	INV IN = 856.10(NE) INV OUT = 857.20(E)
933	INLET TYPE A	860.77	NEENAH R-4342	INV OUT = 857.74(W)
934	INLET TYPE A	862.27	NEENAH R-3501-TR	INV OUT = 858.27(SW)

STORM SEWER PIPE DATA TABLE					
DOWNSTREAM STRUCTURE	UPSTREAM STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
161	216	12"	RCP	108'	0.32%
162	163	15"	RCP	5'	0.33%
215	162	15"	RCP	164'	0.27%
216	215	12"	RCP	28'	0.50%
902	221	12"	RCP	131'	0.31%
903	902	12"	RCP	28'	0.31%
908A	219	24"	RCP	137'	0.20%
909	908A	24"	RCP	23'	0.22%
910	909	21"	RCP	28'	0.32%
911	911A	12"	RCP	19'	-1.19%
911	910	21"	RCP	144'	0.18%
912	911	18"	RCP	246'	0.20%
913	912	15"	RCP	36'	0.39%
930	913	15"	RCP	37'	0.24%
931	930	15"	RCP	107'	0.23%
933	932	12"	RCP	173'	0.31%
934	932	12"	RCP	16'	1.08%



**LEGEND**

- RIGHT-OF-WAY LINE
- PROPOSED STORM SEWER LINE
- EXISTING STORM SEWER LINE
- SWALE
- PROPOSED SANITARY SEWER LINE
- EXISTING SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- SANITARY SEWER LATERAL
- PROPOSED WATER LINE
- FLOW DIRECTION
- EXISTING CONTOURS
- PROPOSED ELEVATION
- STORM BEEHIVE INLET
- STORM INLET
- TOP OF CASTING
- INVERT
- REINFORCED CONCRETE PIPE
- MANHOLE STRUCTURE
- DRAINAGE EASEMENT
- DRAINAGE AND UTILITY EASEMENT
- DRAINAGE, UTILITY AND SANITARY SEWER EASEMENT
- CONCRETE END SECTION
- MATCH EXISTING

TYP. PROP. EX. R. V.W. M.L.G. ROW B-B = TYPICAL, PROPOSED, EXISTING, RADIUS, VARIABLE WIDTH, MINIMUM LOWEST ADJACENT GRADE, RIGHT-OF-WAY, BACK OF CURB

860.4 = PAD ELEV

EMERGENCY FLOOD ROUTE

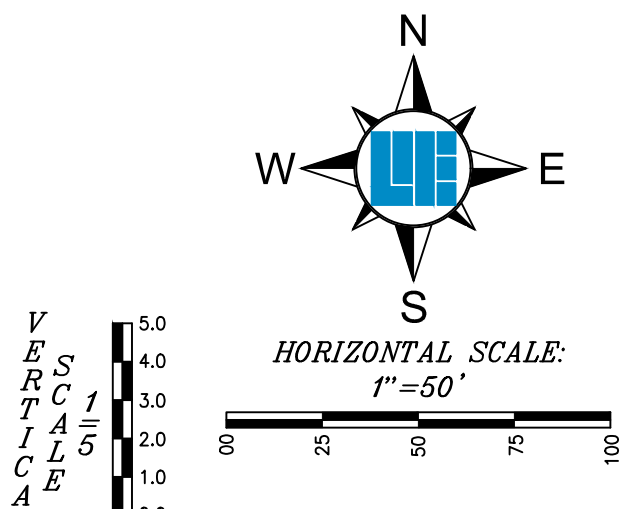
B.S.L. = BUILDING SETBACK LINE

HP = HIGH POINT

ADA RAMP

FIRE HYDRANT

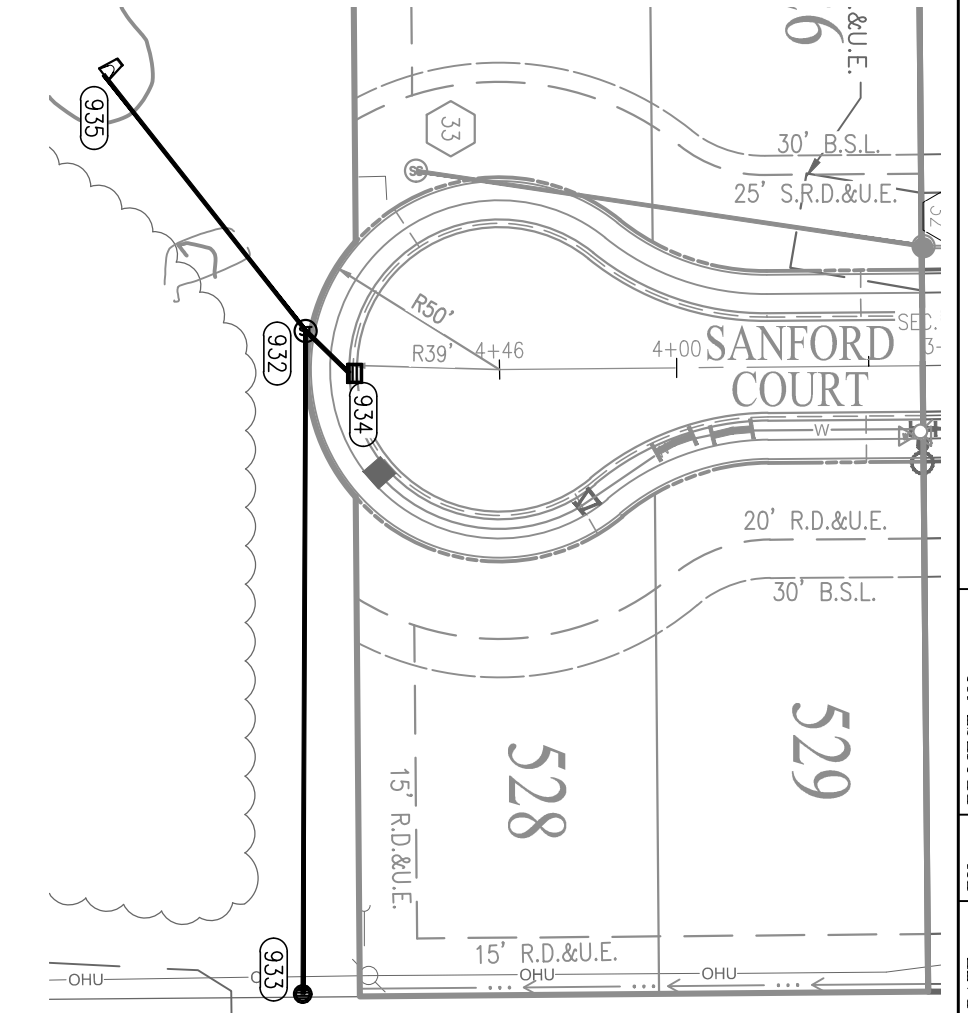
PROPOSED ASPHALT PATH



**NOTE:**  
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E=273165  
EL=864.60 (NAVD 88)
- TBM - WOODS 1**  
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**RECORD DRAWING**

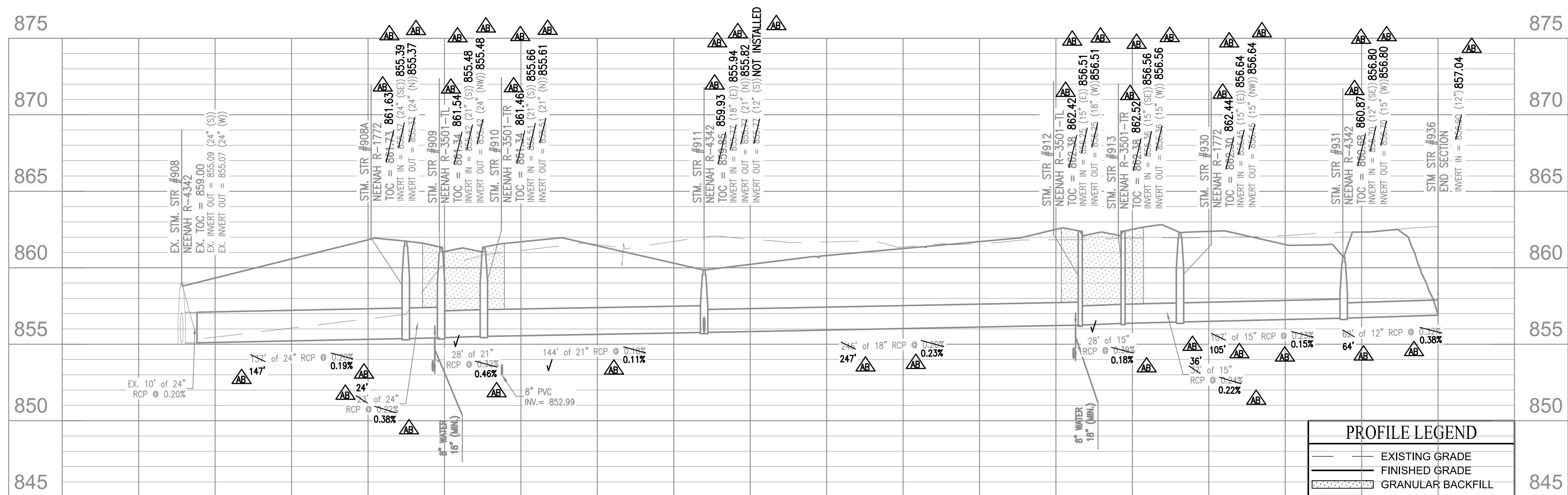
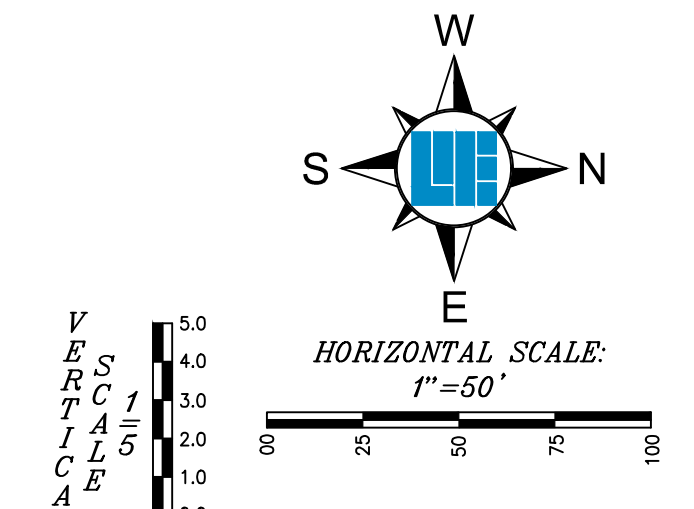
STORM SEWER AS-BUILTS  
STORM SEWER STRUCTURES ONLY  
08/16/2019

JOSEPH TRIAN, LS21500003



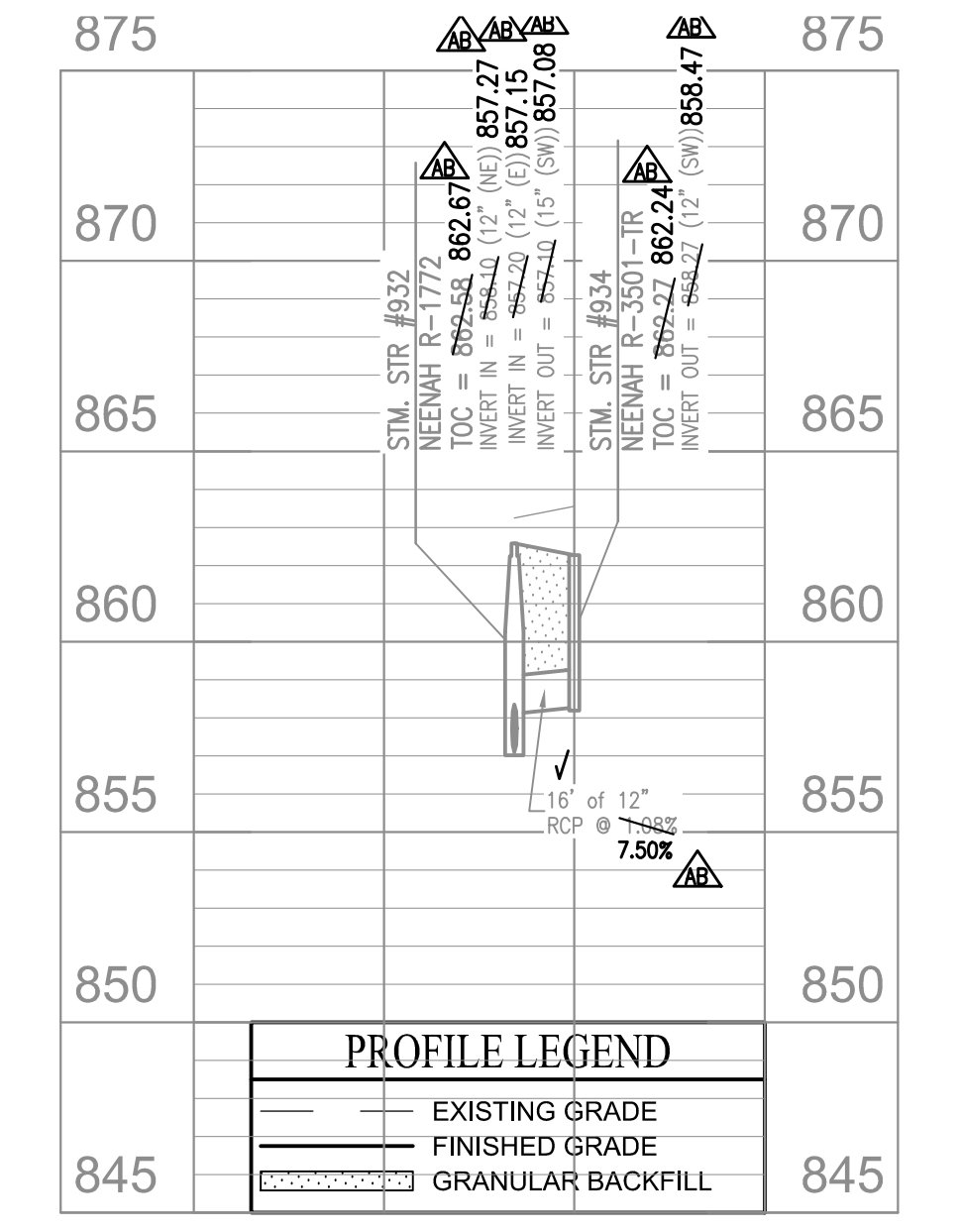
DATE OF LAST FIELDWORK: 08/02/2019

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**PROFILE LEGEND**

- EXISTING GRADE
- FINISHED GRADE
- GRANULAR BACKFILL



**PROFILE LEGEND**

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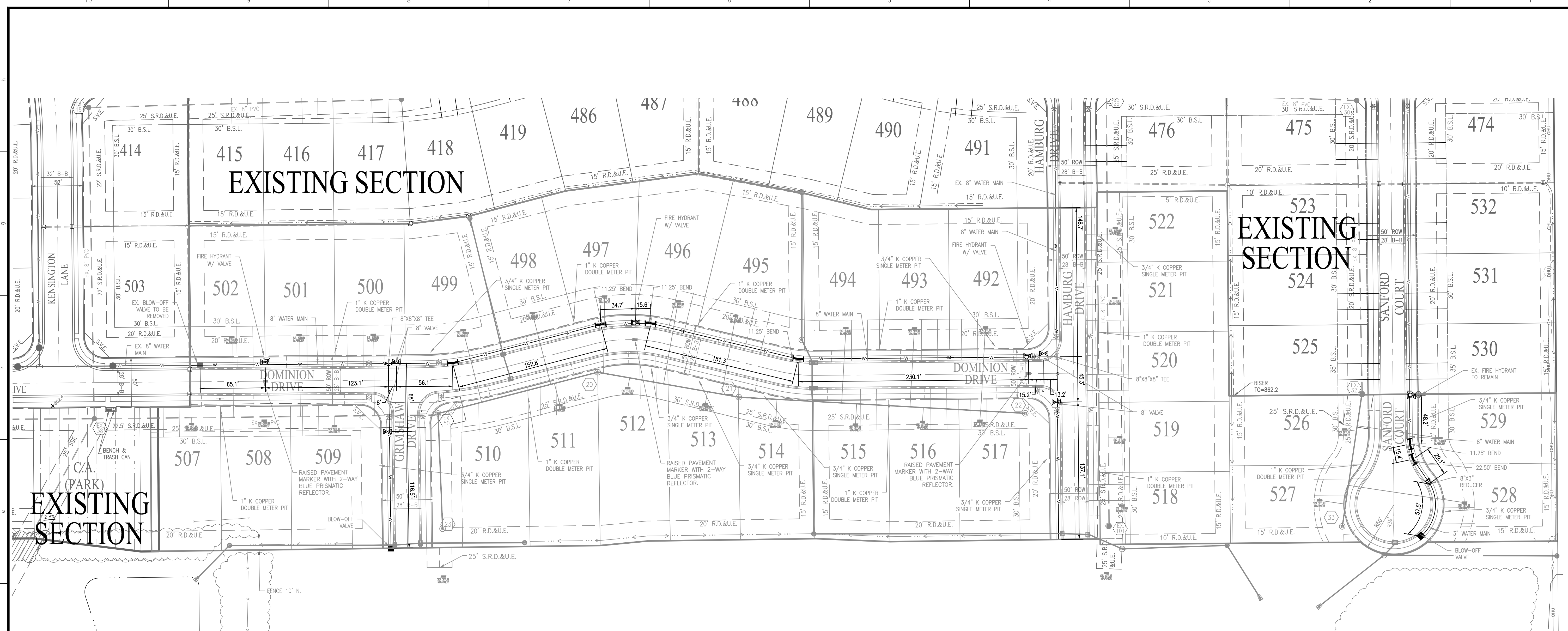
**WEIHE ENGINEERS**  
Land Surveying | Civil Engineering  
Landscape Architecture

PROJECT NO.	W150302-3
DWG. NAME	AS BUILT Storm Sewer
DESIGNED BY	J.T.
DRAWN BY	J.T.
CHECKED BY	J.T.
DATE	08-30-2019

PREPARED FOR:  
**THE ENCLAVE AT VERMILLION SECTION THREE**  
NORTH CONNECTICUT DEVELOPMENT CORP.  
STORM SEWER PLAN AND PROFILE  
Part of the SR 85 / 4 of Section 15, Township 17 North, Range 6 East, Paul Creek Township, Hamilton County, Indiana

SHEET NO. **C601**  
PROJECT NO. **W150302-3**

LOCATION: H:\2019\W150302\Section 3\Engineering\Utility\asb\asb\Storm Sewer.dwg  
DATE/TIME: August 16, 2019 - 4:09pm  
PLOTTED BY: weiever



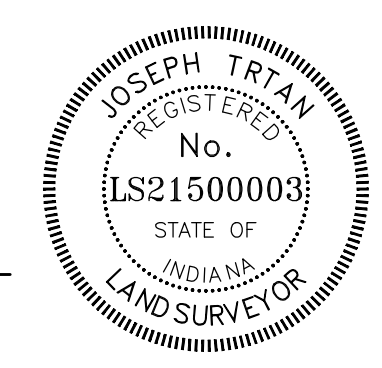
**EXISTING SECTION**

**EXISTING SECTION**

**EXISTING SECTION**

**RECORD DRAWING**  
WATER AS-BUILTS  
WATER STRUCTURES ONLY  
08/16/2019

JOSEPH TRTAN, LS21500003



- AS-BUILT INFORMATION
- BUILT AS PLANNED
- AS-BUILT WATER LATERAL STUB
- AS-BUILT TEE
- AS-BUILT 11.25° BEND
- AS-BUILT 22.5° BEND
- AS-BUILT 45° BEND
- AS-BUILT FIRE HYDRANT
- AS-BUILT WATER VALVE
- AS-BUILT SLEEVE
- AS-BUILT BLOW OFF
- AS-BUILT WATERTOP
- AS-BUILT REDUCER

DATE OF LAST FIELDWORK: 08/02/2019

NOTE: NO REDLINE MARKUPS WERE PROVIDED FROM CONTRACTOR. ALL WATER METER PITS WILL BE INSTALLED AT TIME OF HOUSE CONSTRUCTION.

**BENCHMARK INFORMATION**

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EL=861.40 (NAVD 88)

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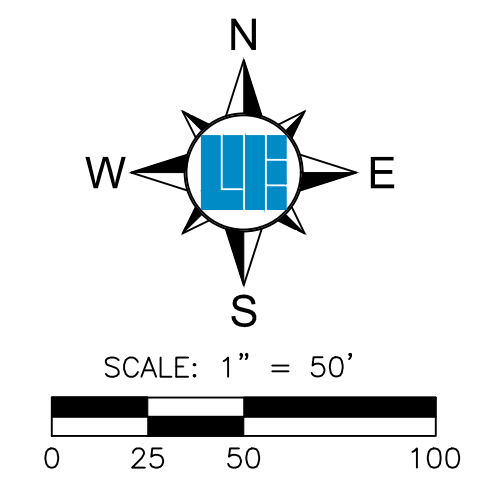
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E=271734.52  
EL=857.24 (NAVD 88)

**WATER MAIN NOTES:**

1. ALL FIRE HYDRANTS SHALL BE PAINTED PER FORTVILLE SPECIFICATIONS AND STANDARDS.
2. FIRE HYDRANTS SHALL HAVE 5 INCH STORZ'S CONNECTION (APPROVED BY FISHERS FIRE DEPARTMENT).
3. IF WATER MAIN IS 12 INCHES OR SMALLER, THEN C900 PIPE CAN BE USED.
4. MAIN SHALL BE BEDDED WITH SAND 6 INCHES UNDER AND 12 INCHES OVER THE PIPE WITH MARKING TAPE INSTALLED 2 FEET ABOVE THE WATER MAIN.
5. NUMBER TEN (#10) GAUGE LOCATING WIRE SHALL BE TAPED TO THE TOP OF THE MAIN AND PULLED THROUGH ALL VALVE BOXES (TO THE SURFACE) FOR LOCATING PURPOSES.
6. IF DUCTILE PIPE IS USED, THE MAIN MUST BE POLY WRAPPED.
7. CONTRACTOR MUST PROVIDE REDLINE "AS-BUILT" MARK-UPS TO ENGINEER OR ALL BENDS AND TEES MUST BE LOCATED WITH 2X4 BOARD PAINTED BLUE.
8. ALL PROPOSED ROAD CROSSINGS MUST BE FULLY BACKFILLED WITH A GRANULAR BACKFILL MATERIAL.
9. ALL TEMPORARY FIRE HYDRANTS TO BE INSTALLED WITH VALVES.
10. ALL VALVES MUST HAVE POSI-CAP INSTALLED AND HAVE STAINLESS STEEL STEMS.
11. WATER MAIN MUST MEET CURRENT FORTVILLE WATER DETAILS AND SPECIFICATIONS.
12. ALL WATER MAIN JOINTS TO BE RESTRAINED PER FORTVILLE WATER STANDARDS.
13. WATER SERVICE LATERALS AND WATER METER PITS ARE SHOWN FOR LOCATION ONLY. WATER SERVICE LATERALS AND WATER METER PITS WILL BE INSTALLED BY THE HOME BUILDERS AT THE TIME OF THE HOUSE CONSTRUCTION.
14. NO WATER VALVES ARE TO BE PLACED WITHIN THE LIMITS OF THE STREET.
15. CONTRACTOR TO SUPPLY SHOP DRAWINGS TO THE TOWN OF FORTVILLE PRIOR TO CONSTRUCTION.
16. INSTALLATION OF INDOT APPROVED SNOWPLOWABLE RAISED PAVEMENT MARKERS SHALL COMPLY WITH SECTIONS 800 & 900 OF THE MOST RECENT REVISION OF THE INDOT SPECIFICATIONS AND STANDARD DRAWINGS. UNDER NO CIRCUMSTANCE SHALL A REFLECTOR BE ATTACHED TO THE PAVEMENT SURFACE USING ONLY ADHESIVE.
17. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 10'-0" OF SEPARATION BETWEEN THE MAIN AND SEWER STRUCTURES AND A MINIMUM OF 10'-0" OF SEPARATION BETWEEN WATER, SANITARY AND STORM PIPES.
18. WATER TAP FEES WILL BE PAID AT THE TIME OF ACQUIRING THE BUILDING PERMIT.

**LEGEND**

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING HYDRANT WITH HYDRANT VALVE
- HYDRANT WITH HYDRANT VALVE
- VALVE
- TEE
- CROSS
- REDUCER
- DUCTILE IRON PIPE
- 1" TYPE K COPPER OR POLY W/ DOUBLE METER PIT
- 3/4" TYPE K COPPER OR POLY W/ SINGLE METER PIT
- WATER LATERAL AS-BUILT LOCATION



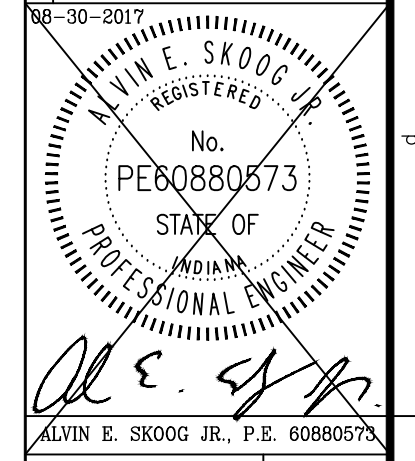
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Land Surveying | Civil Engineering  
Landscape Architecture

PROJECT NO.: W150302-3  
DWG. NAME: 08 C700 Water Main Plan  
DESIGNED BY: JET  
DRAWN BY: JET  
CHECKED BY: JET  
DATE: 08-16-2019

REVISIONS AND ISSUES



PREPARED FOR:  
**THE ENCLAVE AT VERMILLION SECTION THREE**  
NORTH CONNECTICUT DEVELOPMENT CORP.  
WATER MAIN PLAN  
Part of the SR 85 1/4 of Section 15, Township 17 North, Range 6 East, Paul Creek Township, Hamilton County, Indiana

SHEET NO.  
**C700**

PROJECT NO.  
**W150302-3**