

Kend

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 1, 2020

To: Hamilton County Drainage Board

Re: Vermillion Drain, The Woods at Vermillion, Sec. 5 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 Woods at Vermillion, Sec. 5 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. W150253-3, the drain will consist of the following:

12" RCP	686 ft.	24" RCP	1,073 ft.
15" RCP	195 ft.	30" RCP	448 ft.
18" RCP	602 ft.	6" SSD	4,461 ft.
21" RCP	378 ft.	Open (pond)	250 ft.

The total length of the drain will be 8,093 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 sub-surface drains within the street right of way are being included due to the streets within the subdivision being under the jurisdiction of the Hamilton County Highway. As such there will not be street trees within the right of way but will be behind the sidewalk on individual lots. This complies with the Hamilton County Drainage Board's discussion of July 19, 2018 regarding street trees (see Hamilton County Drainage Board Minutes Book 18, pages 204 to 206).

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 \$2,051.40.

The detention pond (wet pond #14 located in Common Area "A") is to be considered part of the regulated drain. This is consistent with the ponds in other Vermillion sections. The maintenance of the pond shall include the inlets and outlet 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, thereby, allowing no fill or easement encroachments. The open drain length of 250' for the pond is the distance measured between str 814 - 833.

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: June 10, 2019
Number: 1356WVRM5
For: Storm Sewers
Amount: \$380,816.70
HCDB-2019-00028

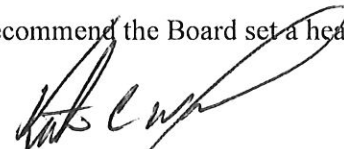
Agent: Standard Financial Corporation
Date: June 10, 2019
Number: 1357WVRM5
For: Erosion Control
Amount: \$59,415.71
HCDB-2019-00027

Agent: Standard Financial Corporation
Date: June 10, 2019
Number: 1358WVRM5
For: Monumentation
Amount: \$16,005.35
HCDB-2019-00029

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 Woods at Vermillion, Sec. 5 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 23, 2020.



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

(Revised 06/08/04)

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED

NOV 16 2018

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 Woods @ Vermillion Subdivision, Section
 Five 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 Woods @ Vermillion-Section Five, 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.

Adobe PDF Fillable Form

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
Printed Name

10/31/18
Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FILED

(Revised 06/08/04)

NOV 02 2018

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

OFFICE OF HAMILTON COUNTY SURVEYOR

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Adobe PDF Fillable Form

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NORTH CONNECTICUT DEV. CORP.

Douglas B. Wagner
Signed _____

Signed _____

DOUGLAS B. WAGNER
Printed Name _____

Printed Name _____

10/31/18
Date _____

Date _____

Signed

Signed

Printed Name

Printed Name

Date

Date

FINDINGS AND ORDER


CONCERNING THE MAINTENANCE OF THE

Vermillion Drain, The Woods at Vermillion Section 5 Arm

On this 23rd day of November, 2020, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Vermillion Drain, The Woods at Vermillion Section 5 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.

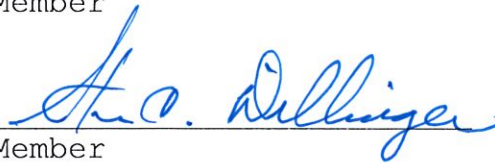
HAMILTON COUNTY DRAINAGE BOARD



President



Member



Member

Attest:



Executive Secretary

ENGINEER'S ESTIMATE OF PROBABLE COST

Project: The Woods at Vermillion - Section 5
W150253-5

Date: 6/4/2019

STORM SEWERS

	Quantity	Unit Price	Gross Price
Structures			
Large manholes	6	\$ 2,417.00	\$ 14,502.00
Large Curb Inlet	7	\$ 2,585.00	\$ 18,095.00
Double Curb Inlet	4	\$ 4,200.00	\$ 16,800.00
Small Curb Inlet	6	\$ 2,200.00	\$ 13,200.00
Large Beehive	6	\$ 2,467.00	\$ 14,802.00
Small Beehive	3	\$ 1,500.00	\$ 4,500.00
Concrete Cradle	3	\$ 450.00	\$ 1,350.00
12" End Section	1	\$ 1,650.00	\$ 1,650.00
15" End Section	1	\$ 1,700.00	\$ 1,700.00
21" End Section	1	\$ 2,100.00	\$ 2,100.00
30" End Section	2	\$ 3,000.00	\$ 6,000.00
Tons of stone bedding (#8)	470	\$ 21.25	\$ 9,987.50
Tons of granular backfill (sand)	590	\$ 15.00	\$ 8,850.00
Tons of Rip Rap	60	\$ 45.00	\$ 2,700.00
Lot connections (4" underdrain)	26	\$ 140.00	\$ 3,640.00
Linear feet of underdrain (6")	4,431	\$ 9.75	\$ 43,202.25

Qty	Measurement	Size	Material	Unit Price	Gross Price
687	Linear feet of	12"	RCP	\$ 24.00	\$ 16,488.00
195	Linear feet of	15"	RCP	\$ 28.00	\$ 5,460.00
622	Linear feet of	18"	RCP	\$ 30.00	\$ 18,660.00
378	Linear feet of	21"	RCP	\$ 36.00	\$ 13,608.00
1048	Linear feet of	24"	RCP	\$ 50.00	\$ 52,400.00
448	Linear feet of	30"	RCP	\$ 65.00	\$ 29,120.00
STORM SEWER TOTAL:				\$	298,814.75

EROSION CONTROL

	Quantity	Unit Price	Gross Price	
Seeding				
Acres of temp. seed	16.1	\$ 325.00	\$ 5,235.75	
Acres of mulching temp seed	16.1	\$ 775.00	\$ 12,485.25	
Square yards of permanent seed and straw mulch	22,854	\$ 0.42	\$ 9,598.68	
Square yards of erosion control blanket w/ permanent seed)	5,719	\$ 1.05	\$ 6,004.95	
Roadside Seeding	6,769	\$ 0.34	\$ 2,301.46	
Construction Entrance	1	\$ 3,300.00	\$ 3,300.00	
Other				
Linear feet of silt fencing	5,035	\$ 1.00	\$ 5,035.00	
Linear feet of Straw Wattles at Curb Drop	230	\$ 3.00	\$ 690.00	
Concrete Washout	1	\$ 500.00	\$ 500.00	
Curb Inlet Protection	19	\$ 168.00	\$ 3,192.00	
Drop Inlet Protection	13	\$ 90.00	\$ 1,170.00	
EROSION CONTROL TOTAL				\$ 49,513.09

MONUMENTATION

	Quantity	Unit Price	Gross Price	
Misc.				
Monuments	13	\$ 168.83	\$ 2,194.79	
Lot Rebar	110	\$ 101.30	\$ 11,143.00	
MONUMENTATION TOTAL				\$ 13,337.79

SUMMARY

	Total	Performance Guarantee	Maintenance Guarantee
	A	B = A X 120%	C = B X 20%
Storm Sewers	\$ 298,814.75	\$ 358,577.70	\$ 71,715.54
Erosion Control	\$ 49,513.09	\$ 59,415.71	\$ 11,883.14
Monumentation	\$ 13,337.79	\$ 16,005.35	\$ 3,201.07
	\$ 361,665.63	\$ 433,998.76	\$ 86,799.75

COMMENTS:

Bond Estimate Prepared by:

Signature: _____



Printed Name: Duane A. Sharrer

Title: Vice President, Residential Development

Date: 4-Jun-19



JUN 14 2019

June 10, 2019

OFFICE OF HAMILTON COUNTY SURVEYOR

HCB-2019-00057

Irrevocable Letter of Credit No.: 1357WVRM5

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 **Fifty-Nine Thousand Four Hundred Fifteen and 71/100 Dollars (\$59,415.71)** by your draft(s) at sight.

The purpose of this Letter of Credit is for the performance of the installation of **erosion control in the Woods at Vermillion, Section 5.**

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. 1357WVRM5".

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 June 10, 2019 and shall expire on June 10, 2020, but such expiration date shall be automatically extended for a period of one year on June 10, 2020, 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. 131st Street, Suite 200, Fishers, IN 46037.

Sincerely,

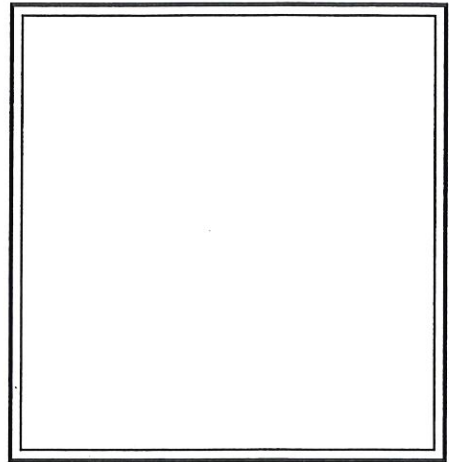
STANDARD FINANCIAL CORPORATION



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.

JUN 14 2019

June 10, 2019

HCD13-2019-00028

OFFICE OF HAMILTON COUNTY SURVEYOR

Irrevocable Letter of Credit No.: 1356WVRM5

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 **Three Hundred Eighty Thousand Eight Hundred Sixteen and 70/100 Dollars (\$380,816.70)** by your draft(s) at sight.

The purpose of this Letter of Credit is for the performance of the installation of **storm sewers in the Woods at Vermillion, Section 5.**

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. 1356WVRM5".

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 June 10, 2019 and shall expire on June 10, 2020, but such expiration date shall be automatically extended for a period of one year on June 10, 2020, 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

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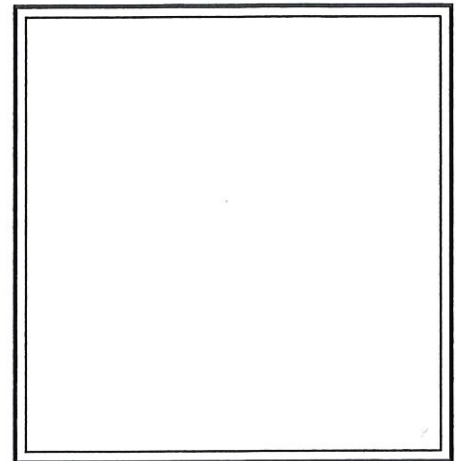
STANDARD FINANCIAL CORPORATION



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.

JUN 14 2019

June 10, 2019

HCB-2019-00029

OFFICE OF HAMILTON COUNTY SURVEYOR

Irrevocable Letter of Credit No.: 1358WVRM5

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 **Sixteen Thousand Five and 35/100 Dollars (\$16,005.35)** by your draft(s) at sight.

The purpose of this Letter of Credit is for the performance of the installation of **monumentation in the Woods at Vermillion, Section 5.**

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. 1358WVRM5".

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."

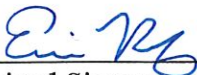
This Letter of Credit is effective as of June 10, 2019 and shall expire on June 10, 2020, but such expiration date shall be automatically extended for a period of one year on June 10, 2020, and on each successive expiration date, unless a release is received from the Hamilton County Commissioners or 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

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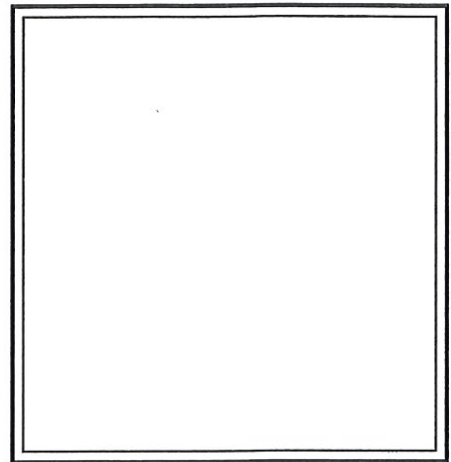
STANDARD FINANCIAL CORPORATION



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 Woods at Vermillion Section 5 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 Woods at Vermillion Section 5 Arm** on **November 23, 2020** 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 Woods at Vermillion Section 5 Arm**

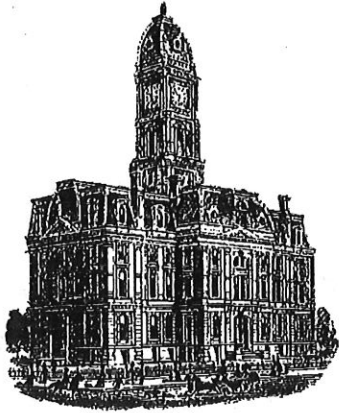
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **November 23, 2020** 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

February 19, 2021

Re: Vermillion Drain: Woods at Vermillion Sec. 5

Attached are as-built, certificate of completion & compliance, and other information for The Woods at Vermillion Sec. 5. 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 1, 2020. The report was approved by the Board at the hearing held November 23, 2020. (See Drainage Board Minutes Book 19, Pages 397-399) The changes are as follows: the 12" RCP was shortened from 686 feet to 683 feet. The 18" RCP was lengthened from 602 feet to 604 feet. The 21" RCP was shortened from 378 feet to 377 feet. The 24" RCP was shortened from 1,073 feet to 1,065 feet. The 30" RCP was shortened from 448 feet to 444 feet. The 6" SSD was shortened from 4,461 feet to 4,430 feet. The open ditch was shortened from 250 feet to 228 feet. The length of the drain due to the changes described above is now **8,026 feet**. It should be noted that the development removed 21 feet of 21" RCP that was installed with Woods at Vermillion Section 3.

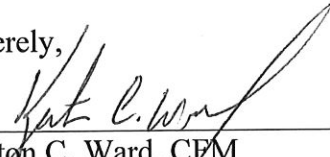
The non-enforcement was approved by the Board at its meeting on November 23, 2020 and recorded under instrument #2021001496.

The following sureties were guaranteed by Standard Financial Corp. and released by the Board on its January 11, 2021 meeting.

Bond-LC: 1356WVRM5
Amount: \$380,816.70
For: Storm Sewers
Issue Date: June 10, 2019

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

Sincerely,

A handwritten signature in black ink, appearing to read "Kenton C. Ward", written over a horizontal line.

Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: **THE WOODS AT VERMILLION SECTION 5**

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: *Brady Kuhn* Date: 7/23/2020

Type or Print Name: BRADY KUHN

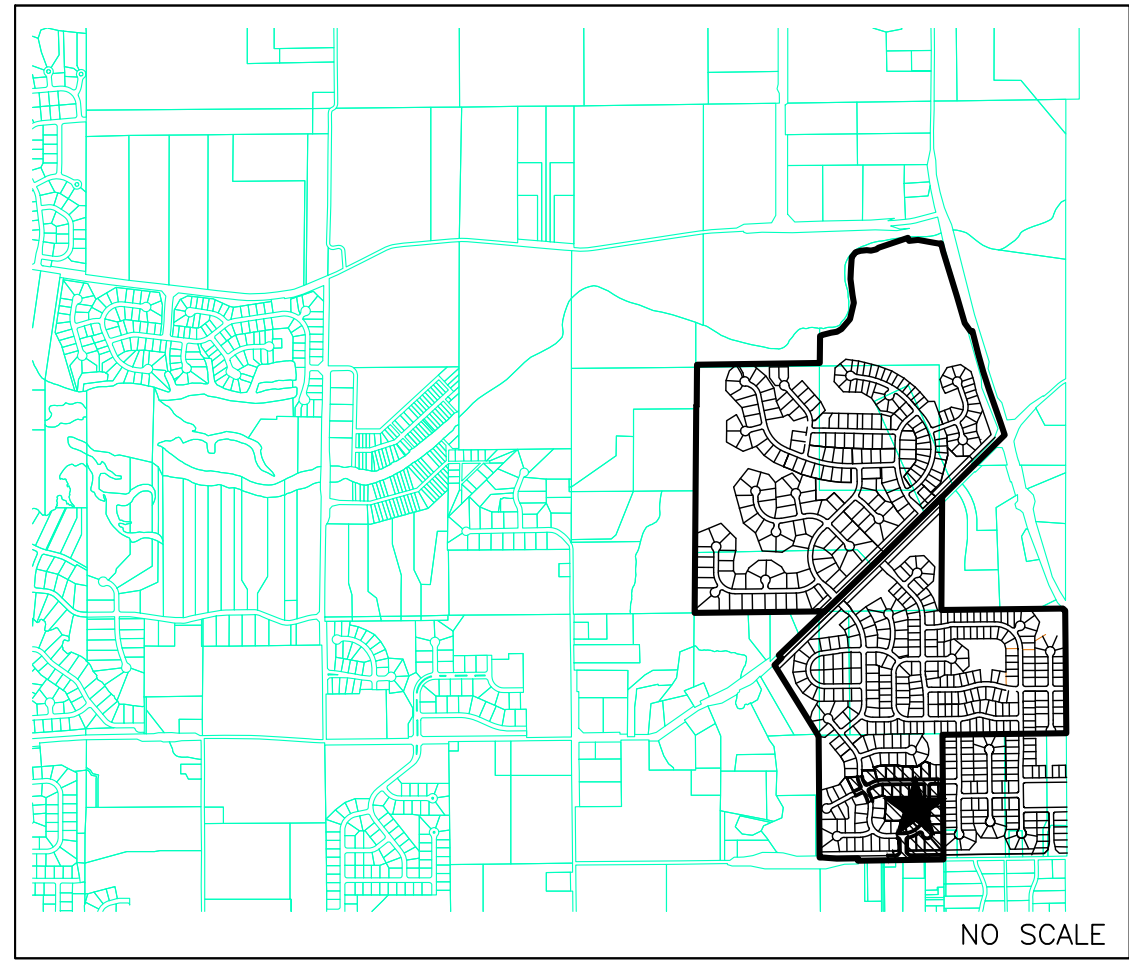
Business Address: 10505 N COLLEGE AVE
INDIANAPOLIS, IN 46280

Telephone Number: 317-846-6611



INDIANA REGISTRATION NUMBER

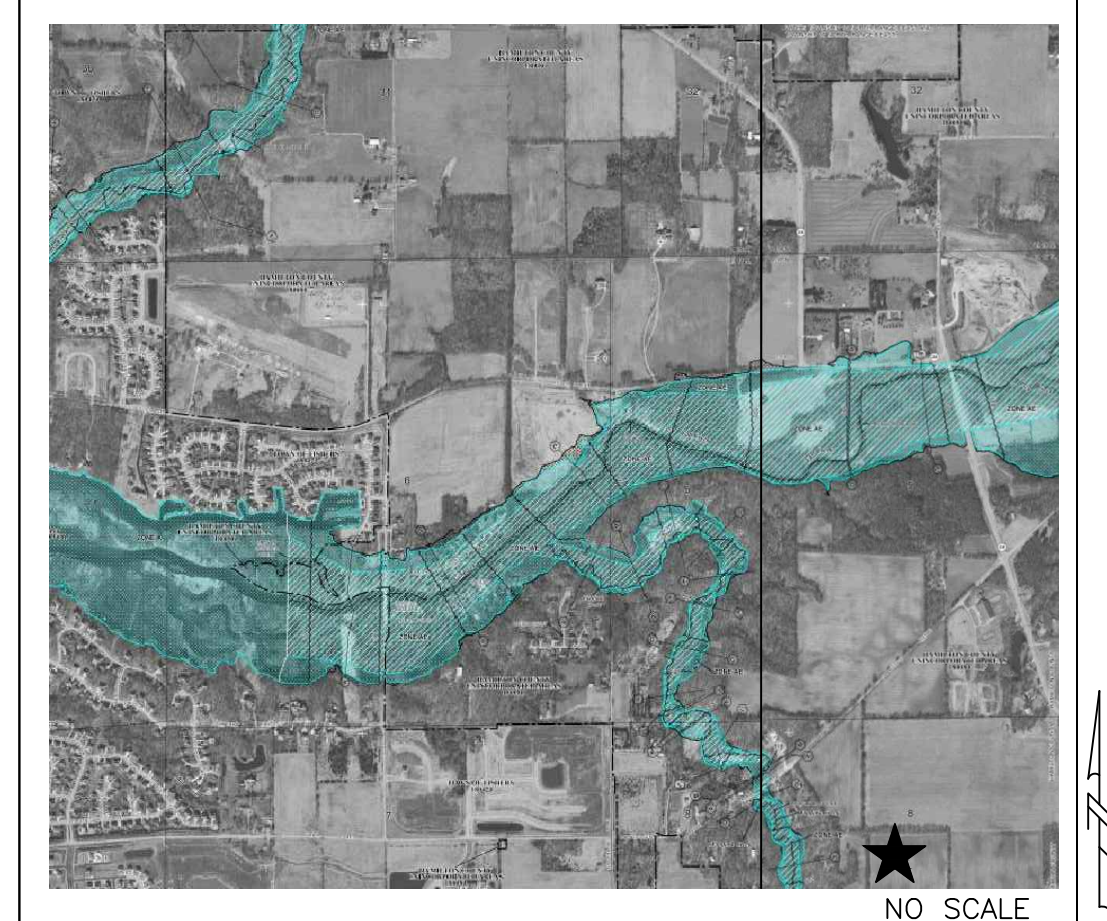
LS 20500007



AREA LOCATION MAP
NO SCALE

RECORD DRAWING CONSTRUCTION DRAWINGS THE WOODS AT VERMILLION SECTION FIVE

FALL CREEK TOWNSHIP, FORTVILLE, IN 46040



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

GENERAL NOTES

- 1) 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.
- 2) 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
- 3) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- 4) ALL QUANTITIES GIVEN ON THESE PRINTS ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- 5) 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.
- 6) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
- 7) THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT.
- 8) ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
- 9) 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.
- 10) BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) THE DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL ADA REQUIREMENTS. SHALL BE PROWAG COMPLIANT AND MEET ALL CURRENT INDOT STANDARD SPECIFICATIONS.
- 15) 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 784' SOUTH OF THE NORTHEAST CORNER OF THE NORTHEAST QUARTER OF SECTION 8-T17N-R6E.
N=1709400
E=273165
EL=864.80 (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 24' +/- NORTH OF THE CENTERLINE OF CENTERLINE INTERSECTION OF PORTAGE WOODS DRIVE AND HUNTING MEADOW DRIVE IN THE RIDGE AT FLAT FORK - SECTION ONE
N=1712086.06
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=1709862.08
E=271671.65
EL=862.36 (NAVD 88)

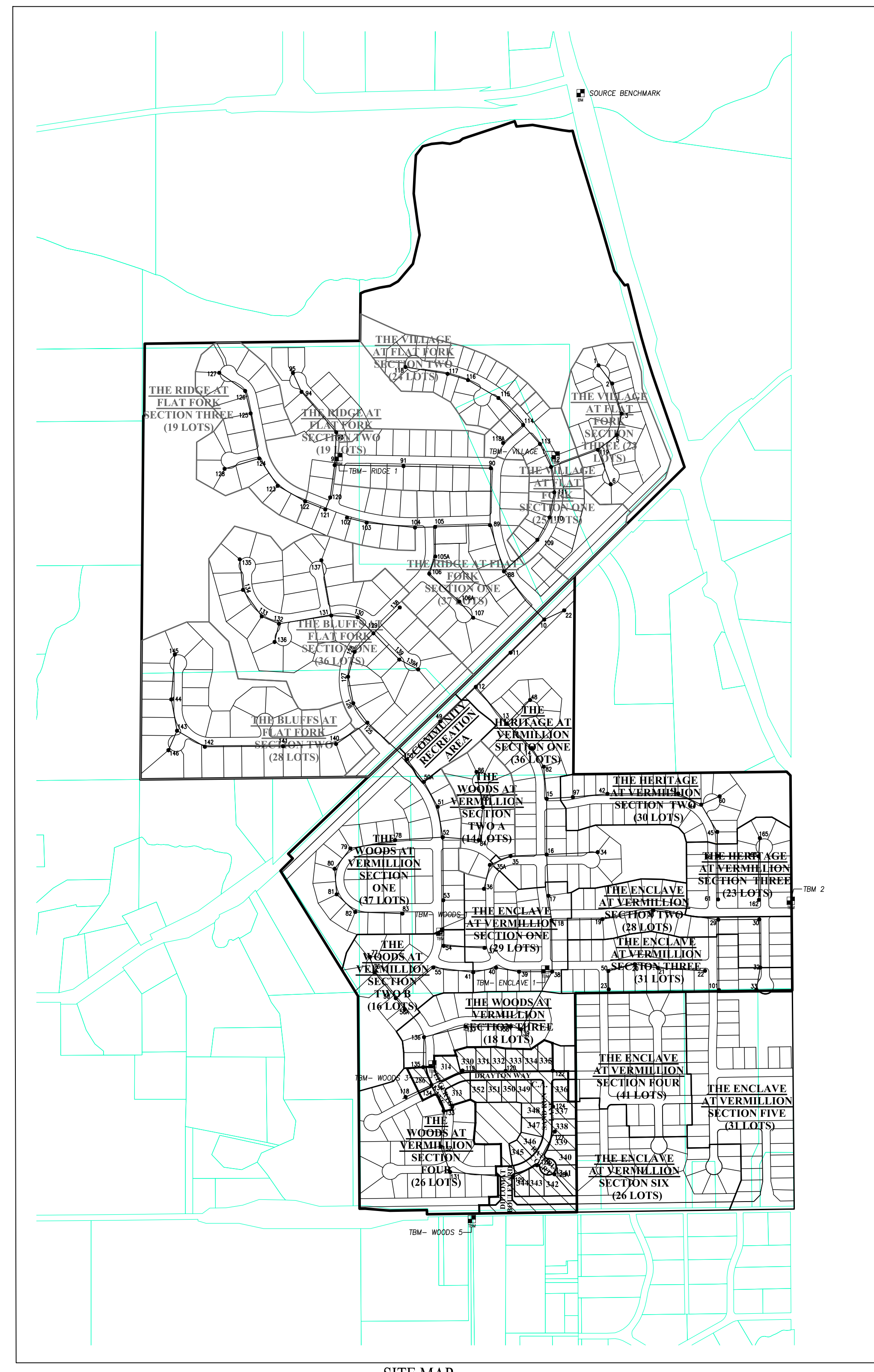
TBM - VILLAGE 1
MAG NAIL SET IN THE WALK AT THE NORTHEAST CORNER OF CLIFFSIDE DRIVE AND BUCK RIDGE LANE, APPROXIMATELY 21' +/- EAST OF THE CENTERLINE OF CLIFFSIDE DRIVE IN THE VILLAGE AT FLAT FORK - SECTION ONE
N=1712107.64
E=271734.52
EL=857.24 (NAVD 88)

TBM - WOODS 3
MAG NAIL SET IN THE WALK AT THE NORTHEAST CORNER OF CLIFFSIDE DRIVE AND BUCK RIDGE LANE, APPROXIMATELY 53' +/- NORTH AND 12' +/- WEST OF THE NORTHWEST CORNER OF LOT 315 IN THE WOODS AT VERMILLION - SECTION THREE
N=1708404.38
E=270984.89
EL=860.12 (NAVD 88)

TBM - WOODS 5
A BENCH SPIKE ON THE NORTH SIDE OF A UTILITY POLE ON THE SOUTH SIDE OF 101ST STREET, APPROXIMATELY 134' +/- SOUTH AND 61' +/- WEST OF THE SOUTHWEST CORNER OF LOT 307 IN THE WOODS AT VERMILLION - SECTION FOUR
N=1708404.38
E=270984.89
EL=864.02 (NAVD 88)

OPERATING AUTHORITIES:

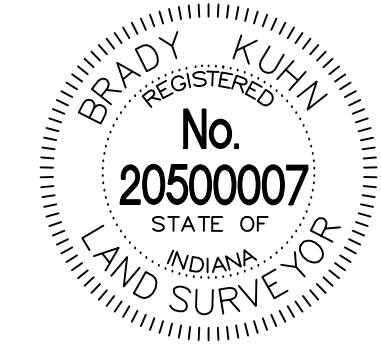
FISHERS DEPARTMENT OF COMMUNITY DEVELOPMENT ONE MUNICIPAL DRIVE FISHERS, IN 46038 317-595-3126 ATTN: MEGAN SCHAEFER	FORTVILLE WATER 714 E. BROADWAY ST. FORTVILLE, IN 46040 317-485-4044 ATTN: JOE RENNER	HAMILTON COUNTY HIGHWAY DEPARTMENT 1700 S. 10TH STREET NOBLESVILLE, IN 46060 317-773-7770 ATTN: DAVID 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	



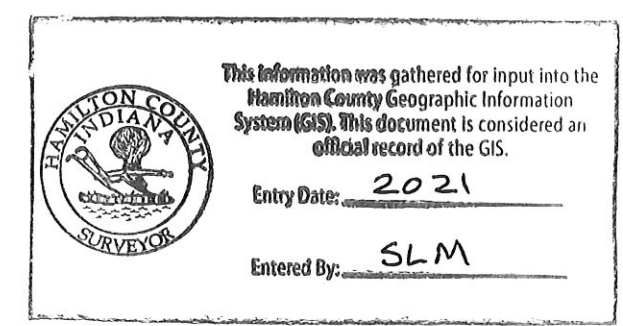
SITE MAP

RECORD DRAWING
7/24/2020

BRADY KUHN, L.S. 20500007



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
C302	MASS GRADING PLAN
C400-C402	STREET PLAN & PROFILE
C403-C405	INTERSECTION/ENTRANCE DETAILS
C406-409	STREET DETAILS & SPECIFICATIONS
C410	TRAFFIC CONTROL/SIGNAGE/STREET LIGHT/SUMP PLAN
C500-C502	SANITARY SEWER PLAN & PROFILE
C503-C505	SANITARY SEWER DETAILS & SPECIFICATIONS
C600-C603	STORM SEWER PLAN & PROFILE
C604-C605	STORM SEWER DETAILS
C700	WATER MAIN PLAN
C701-C703	WATER MAIN DETAILS/SPECIFICATIONS
L100-L102	LANDSCAPE PLAN



STREET DATA

STREET LENGTHS:

RATHBUN COURT	90.00 L.F. ±
SAND RUN LANE	723.04 L.F. ±
DRAYTON WAY	803.55 L.F. ±
EDGERTON LANE	349.93 L.F. ±
DIPLOMAT BOULEVARD	260.19 L.F. ±
FERRAULT COURT	120.00 L.F. ±
TOTAL	2346.71 L.F. ±

NOTE: DESIGN SPEED FOR ALL INTERIOR ROADS SHALL BE 25 MPH.

SITE AREA:

SITE	14.70 AC. ±
LOTS	26

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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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.	DATE	BY	REVISIONS AND ISSUES
W150253-5	01/03/2019	WEN	REVISIONS PER HSE & CAC COMMENTS
	02/07/2019	WEN	REVISIONS PER HSE & CLIENT COMMENTS
	04/16/2019	WEN	REVISED LOT LINES AND UTILITIES PER CLIENT COMMENTS
	05/09/2019	WEN	REVISIONS PER FISHERS PLANNING DEPARTMENT
	06/13/2019	WEN	REVISIONS PER WATER MAIN PLAN PER TOWN OF FORTVILLE COMMENTS
	06/28/2019	WEN	REVISED HSE COMMENTS
	07/25/2020	WEN	AS-BUILT

DUANE A. SHARRER, P.E.
REGISTERED PROFESSIONAL ENGINEER
No. 890256
STATE OF INDIANA

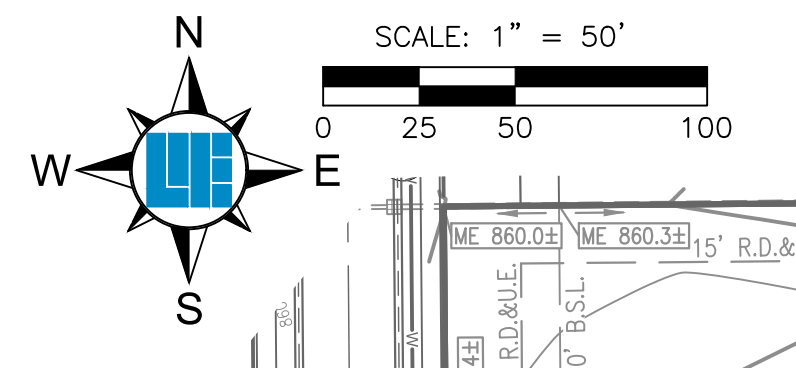
THE WOODS AT VERMILLION SECTION FIVE
NORTH CONNECTICUT DEVELOPMENT CORP.
TITLE SHEET
Part of the 28.82 ± A.C. of Section 15, Township 17 North, Range 6 East, Fall Creek Township, Hamilton County, Indiana

PREPARED FOR:
THE WOODS AT VERMILLION SECTION FIVE
NORTH CONNECTICUT DEVELOPMENT CORP.
TITLE SHEET
SHEET NO. **C001**
PROJECT NO. **W150253-5**

LOCATION: W:\2019\W150253\Section 5\Engineering\submittals\AB_Convert\AB_C001_Tile_Sheet.dwg
DATE/TIME: July 24, 2020 - 12:32pm
PLOTTER: HP DesignJet 5000

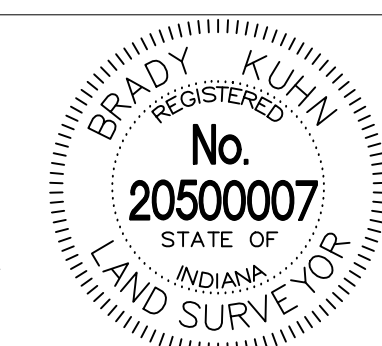
LEGEND	
	RIGHT-OF-WAY LINE
	PROPOSED STORM SEWER LINE
	EXISTING STORM SEWER LINE
	SWALE
	PROPOSED SANITARY SEWER LINE
	EXISTING SANITARY SEWER LINE
	SANITARY SEWER MANHOLE
	SANITARY SEWER LATERAL
	PROPOSED WATER LINE
	FLOW DIRECTION
	EXISTING CONTOURS
	PROPOSED ELEVATION
	STORM INLET
	TOP OF CASTING
	INVERT
	REINFORCED CONCRETE PIPE
	MANHOLE
	STRUCTURE
	DRAINAGE AND UTILITY EASEMENT
	DRAINAGE, UTILITY AND SANITARY SEWER EASEMENT
	CONCRETE END SECTION
	MATCH EXISTING
	PAD ELEV.
	EMERGENCY FLOOD ROUTE
	BUILDING SETBACK LINE
	HIGH POINT
	ADA RAMP
	FIRE HYDRANT
	PROPOSED ASPHALT PATH

NOTE:
ALL OFFSITE STREET ELEVATIONS ARE TO FINISH PAVEMENT GRADE. CONTRACTOR TO ADJUST ACCORDINGLY.



EXISTING SECTION

RECORD DRAWING
DEVELOPMENT PLAN AS-BUILTS
PADS AND SWALES ONLY
7/24/2020
BRADY KUHN, L.S. 20500007



GENERAL NOTES:

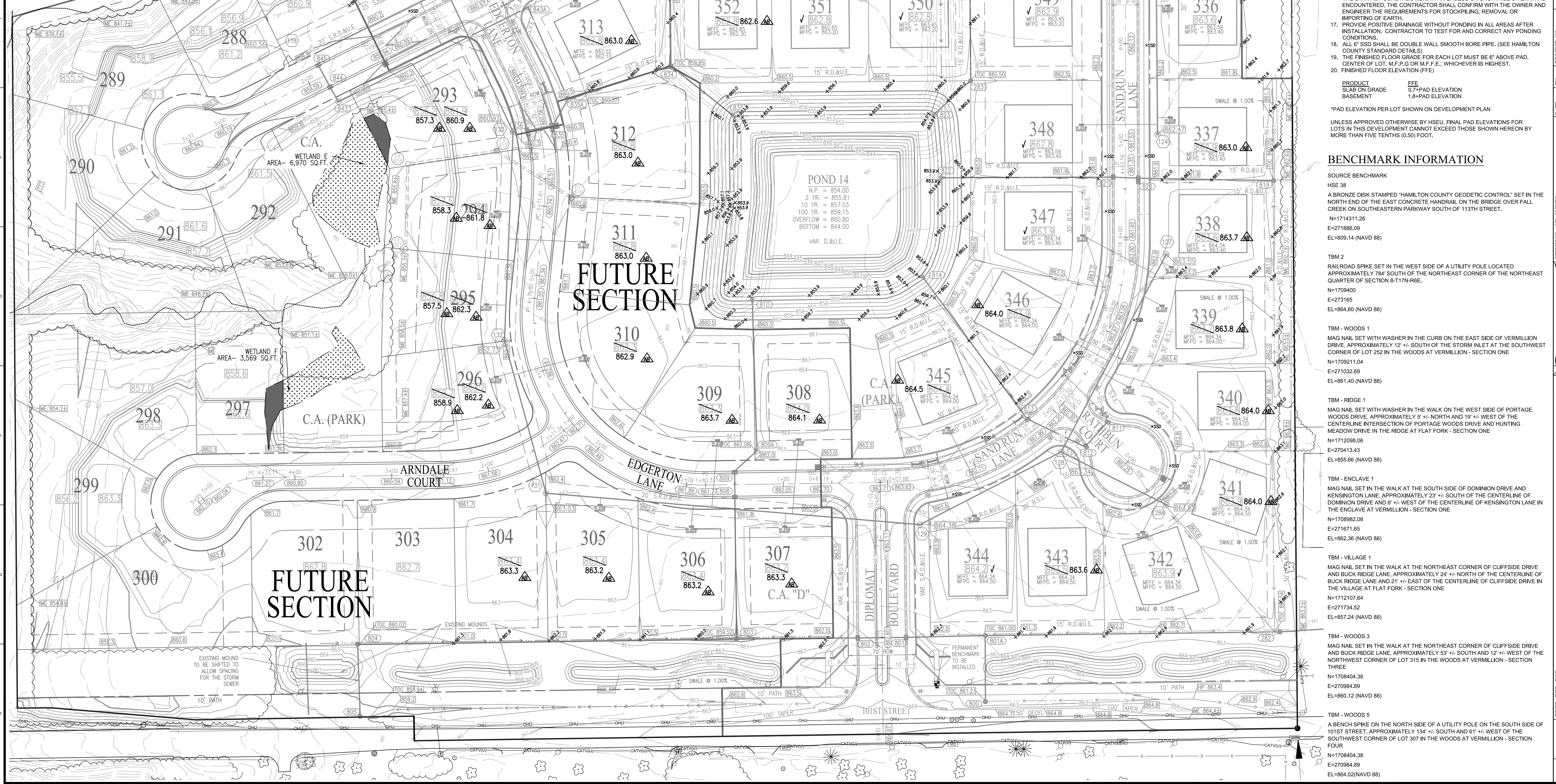
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- ALL QUANTITIES GIVEN ON THESE PRINTS, ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
- BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
- ALL SIDEWALKS TO BE 5'-0" WIDE AND INSTALLED AS SHOWN ON THIS PLAN.
- 2" ROLLED CURB & GUTTER SHALL BE INSTALLED THROUGHOUT ENTIRE PROJECT AS SHOWN UNLESS NOTED OTHERWISE.
- A HANDICAPPED RAMP IS TO BE INSTALLED AT ALL LOCATIONS WHERE A SIDEWALK IS SHOWN INTERSECTING A CURB - SEE DETAIL.
- ANY DRAINAGE TILE SYSTEM COMING ONTO PROPERTY SHALL BE CONNECTED INTO THE PROPOSED DRAINAGE SYSTEM IN ORDER TO MAINTAIN POSITIVE DRAINAGE FOR THE OFF-SITE SYSTEM.
- REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION WITH SUPPLIMENTS, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION. PROPER MOISTURE CONTENT OF FILL MATERIAL WILL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS, FLOOR SLABS AND FUTURE BUILDINGS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTING TEST SHALL BE RUN ON EACH LIFT, IN ACCORDANCE WITH INDOT SECTION 211.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. 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.
- ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
- ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR THROUGH 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
- ALL 6" SSO SHALL BE DOUBLE WALL SMOOTH BORE PIPE. (SEE HAMILTON COUNTY STANDARD DETAILS)
- THE FINISHED FLOOR GRADE FOR EACH LOT MUST BE 6" ABOVE PAD CENTER OF LOT, M.F.P.G. OR M.F.E., WHICHEVER IS HIGHEST.
- FINISHED FLOOR ELEVATION (FFE)

- AS-BUILT INFORMATION
- AS-BUILT AS PLANNED
- AS-BUILT SPOT ELEVATION
- AS-BUILT RISER
- AS-BUILT SUBSURFACE DRAIN

DATE OF LAST FIELDWORK: 7/12/2020



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IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.



BENCHMARK INFORMATION

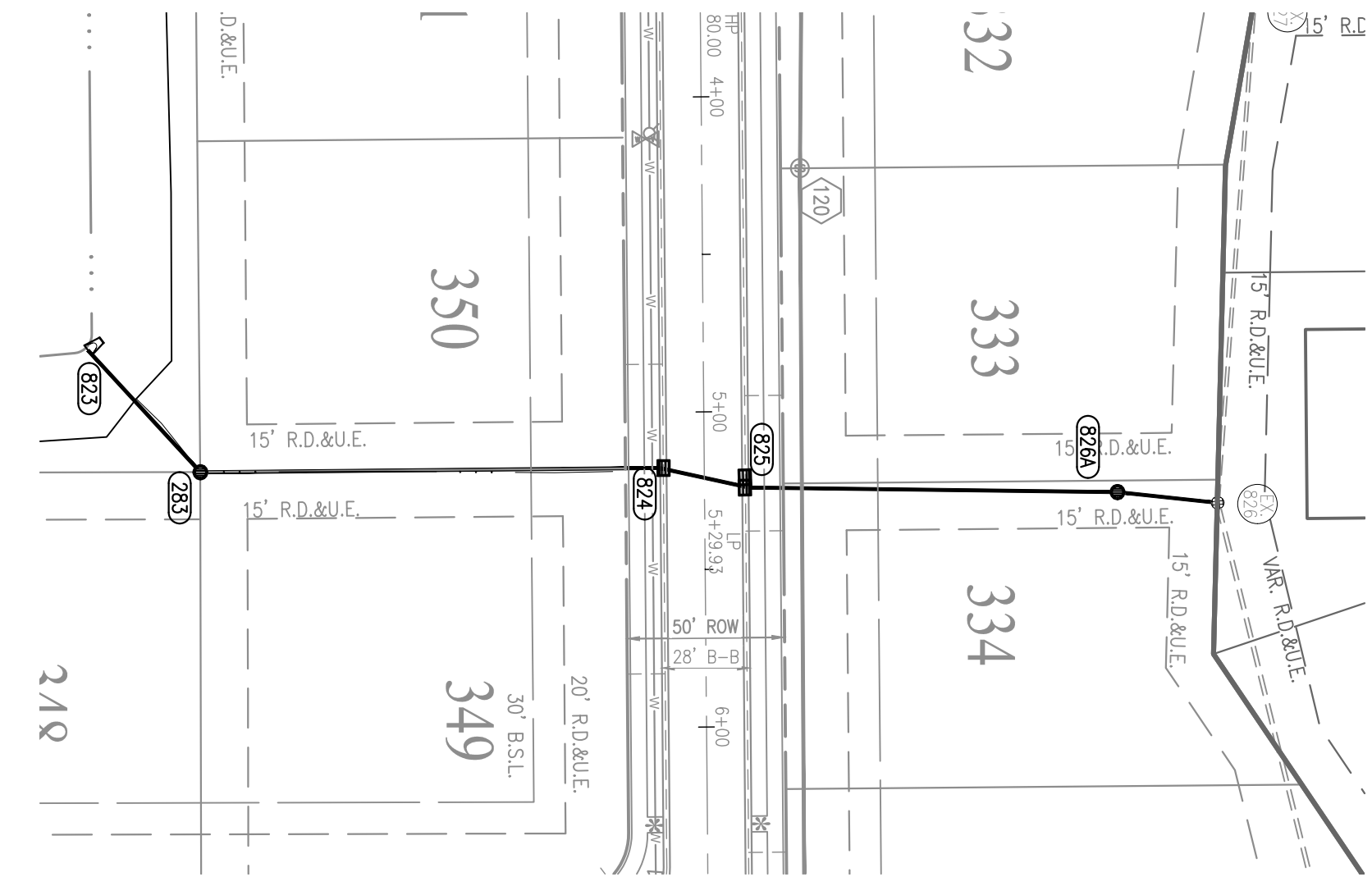
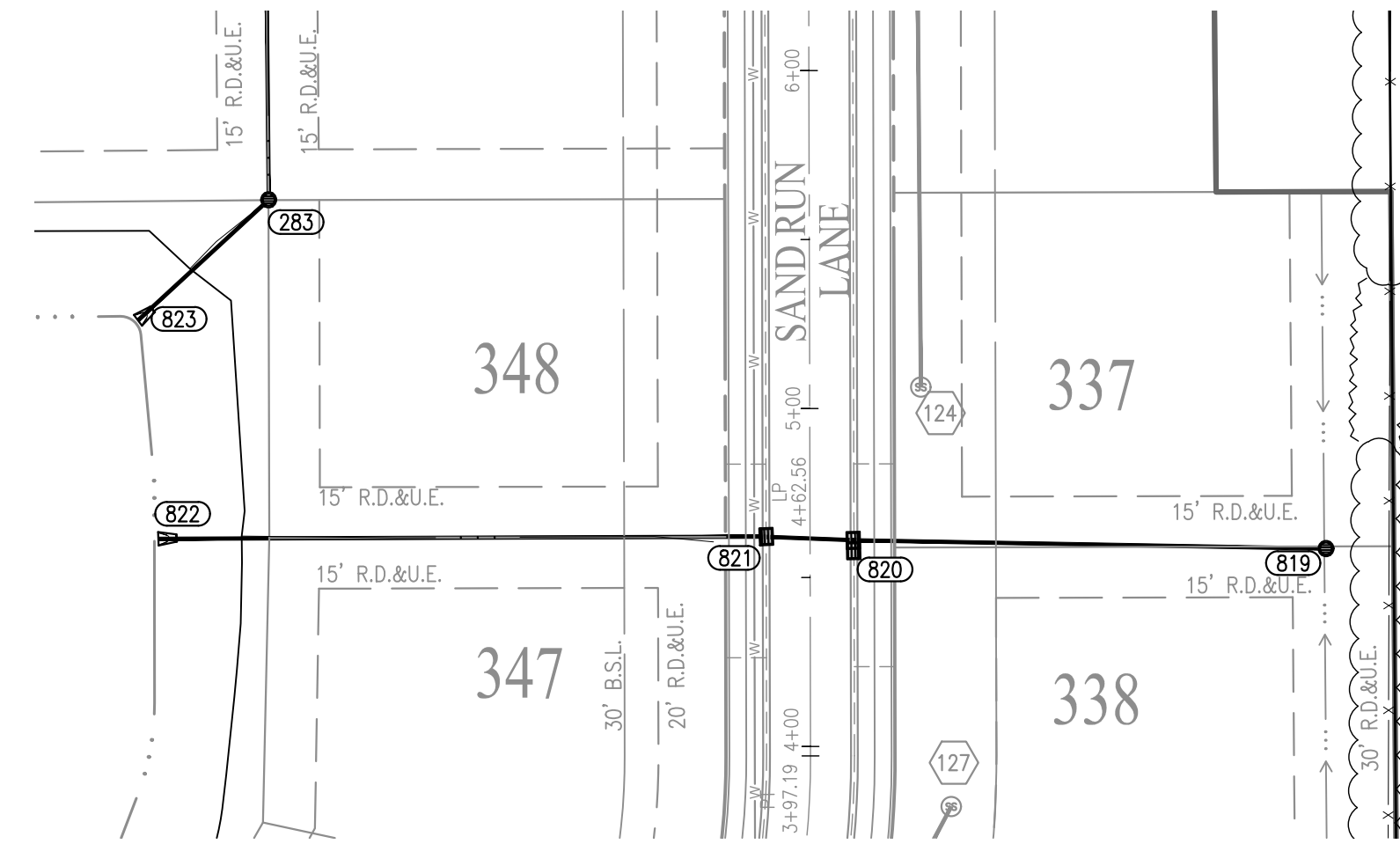
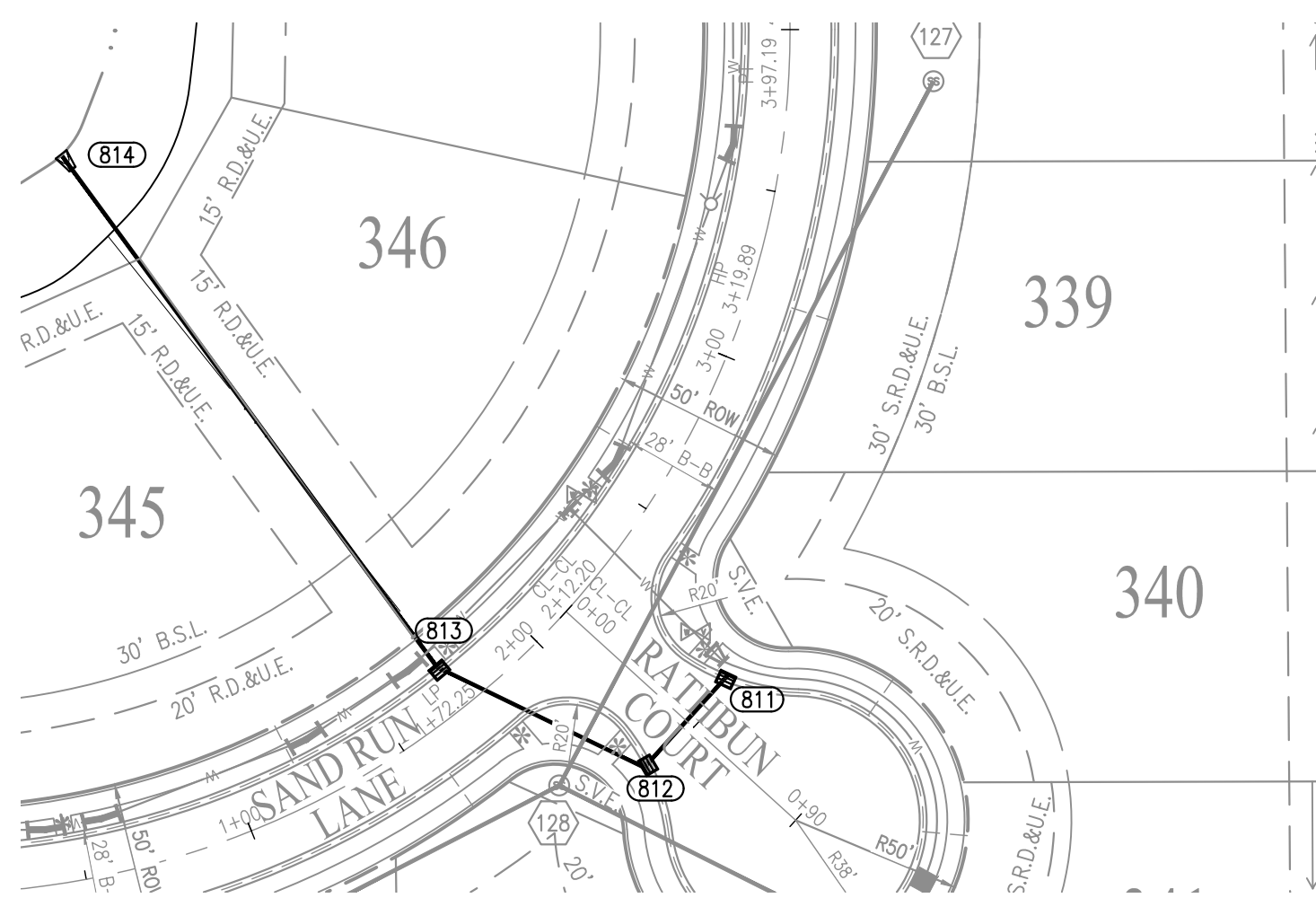
- SOURCE BENCHMARK
- HSE 38
A BRONZE DISK STAMPED "HAMILTON COUNTY GEODETIC CONTROL" SET IN THE NORTH END OF THE EAST CONCRETE HANDRAIL ON THE BRIDGE OVER FALL CREEK ON SOUTHEASTERN PARKWAY SOUTH OF 113TH STREET.
N=1714311.26
EL=809.14 (NAVD 88)
- TBM 2
RAILROAD SPIKE SET IN THE WEST SIDE OF A UTILITY POLE LOCATED APPROXIMATELY 784' SOUTH OF THE NORTHEAST CORNER OF THE NORTHEAST QUARTER OF SECTION 8-117N-88E.
N=1709400
EL=2731.65
EL=864.50 (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
EL=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 12' +/- NORTH AND 12' +/- WEST OF THE CENTERLINE INTERSECTION OF PORTAGE WOODS DRIVE AND HUNTING MEADOW DRIVE IN THE RIDGE AT FLAT FORK - SECTION ONE
N=1712098.06
EL=270413.43
EL=855.86 (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=1708982.08
EL=271671.65
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=1712107.84
EL=271734.52
EL=857.24 (NAVD 88)
- TBM - WOODS 3
MAG NAIL SET IN THE WALK AT THE NORTHEAST CORNER OF CLIFFSIDE DRIVE AND BUCK RIDGE LANE, APPROXIMATELY 55' +/- SOUTH AND 12' +/- WEST OF THE NORTHWEST CORNER OF LOT 315 IN THE WOODS AT VERMILLION - SECTION THREE
N=1708404.38
EL=270984.89
EL=860.12 (NAVD 88)
- TBM - WOODS 5
A BENCH SPIKE ON THE NORTH SIDE OF A UTILITY POLE ON THE SOUTH SIDE OF 101ST STREET, APPROXIMATELY 134' +/- SOUTH AND 61' +/- WEST OF THE SOUTHWEST CORNER OF LOT 307 IN THE WOODS AT VERMILLION - SECTION FOUR
N=1708404.38
EL=270984.89
EL=864.02 (NAVD 88)

WEIHE ENGINEERS
Land Surveying/Civil Engineering
Landscape Architecture

DATE	BY	PROJECT NO.	DESCRIPTION
01/03/2019	WEN	W150253-5	Development Plan
02/07/2019	WEN		DESIGN BY
04/16/2019	WEN		DRAWN BY
05/08/2019	WEN		CHECKED BY
06/13/2019	WEN		DATE
06/28/2019	WEN		
07/25/2020	WEN		

THE WOODS AT VERMILLION
SECTION FIVE
NORTH CONNECTICUT DEVELOPMENT CORP.
DEVELOPMENT PLAN
SHEET NO. C300
PROJECT NO. W150253-5

LOCATION: W150253 Section 5 (Engineering) Submittal VAB Convert VAB C300 Development Plan.dwg
DATE/TIME: July 24, 2020 - 12:34pm
PLOTTED BY: weener



RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 7/24/2020
 BRADY KUHN, L.S.: 20500007



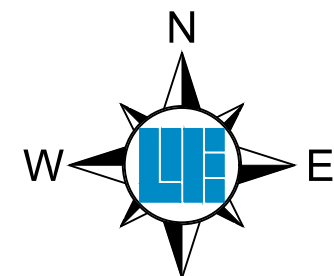
AS-BUILT INFORMATION
 BUILT AS PLANNED

DATE OF LAST FIELDWORK: 7/12/2020

LEGEND

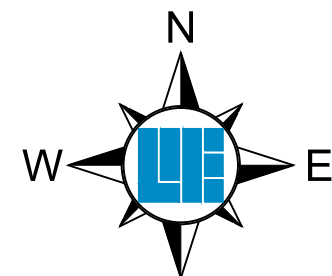
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[Symbol]	SWALE	[Symbol]	R	RADIUS	
[Symbol]	PROPOSED SANITARY SEWER LINE	[Symbol]	V.W.	VARIABLE WIDTH	
[Symbol]	EXISTING SANITARY SEWER LINE	[Symbol]	M.F.P.G.	MINIMUM FLOOD PROTECTION GRADE	
[Symbol]	SANITARY SEWER MANHOLE	[Symbol]	M.F.F.E.	MINIMUM FINISHED FLOOR ELEVATION	
[Symbol]	SANITARY SEWER LATERAL	[Symbol]	ROW	RIGHT-OF-WAY	
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[Symbol]	FLOW DIRECTION	[Symbol]	[Symbol]	PAD ELEV.	
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[Symbol]	STORM INLET	[Symbol]	[Symbol]	ADA RAMP	
[Symbol]	TOP OF CASTING	[Symbol]	[Symbol]	FIRE HYDRANT	
[Symbol]	INVERT	[Symbol]	[Symbol]	PROPOSED ASPHALT PATH	
[Symbol]	REINFORCED CONCRETE PIPE	[Symbol]	[Symbol]		
[Symbol]	MANHOLE STRUCTURE	[Symbol]	[Symbol]		
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[Symbol]	MATCH EXISTING	[Symbol]	[Symbol]		

[Symbol]	860.4	PAD ELEV.
[Symbol]	[Symbol]	EMERGENCY FLOOD ROUTE
[Symbol]	[Symbol]	BUILDING SETBACK LINE
[Symbol]	[Symbol]	HP
[Symbol]	[Symbol]	ADA RAMP
[Symbol]	[Symbol]	FIRE HYDRANT
[Symbol]	[Symbol]	PROPOSED ASPHALT PATH



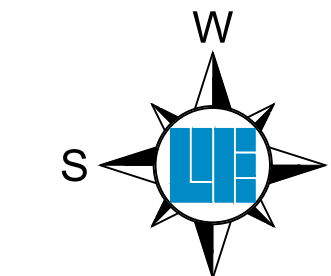
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 1"=50'

VERTICAL SCALE:
 1"=5.0'



HORIZONTAL SCALE:
 1"=50'

VERTICAL SCALE:
 1"=5.0'



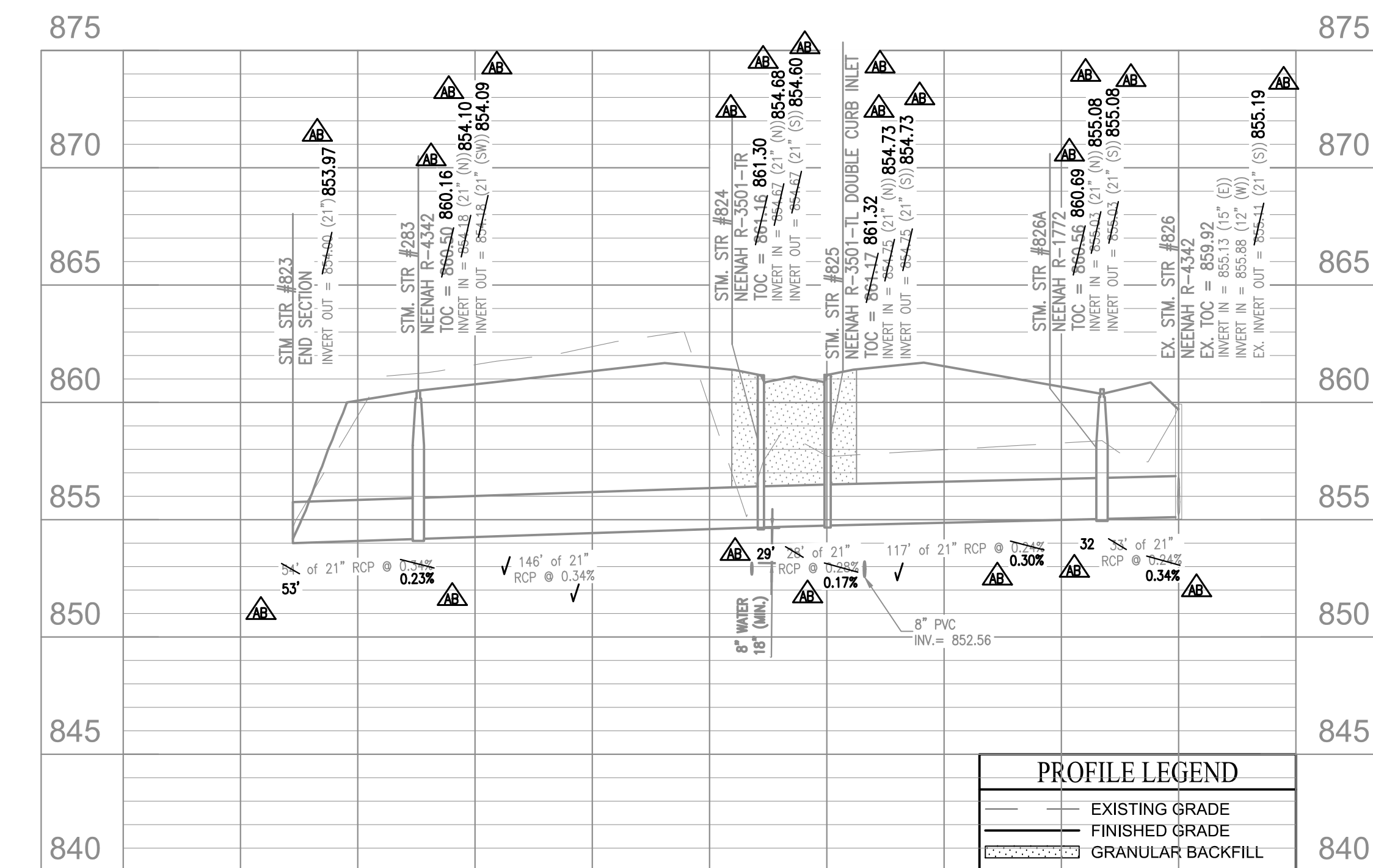
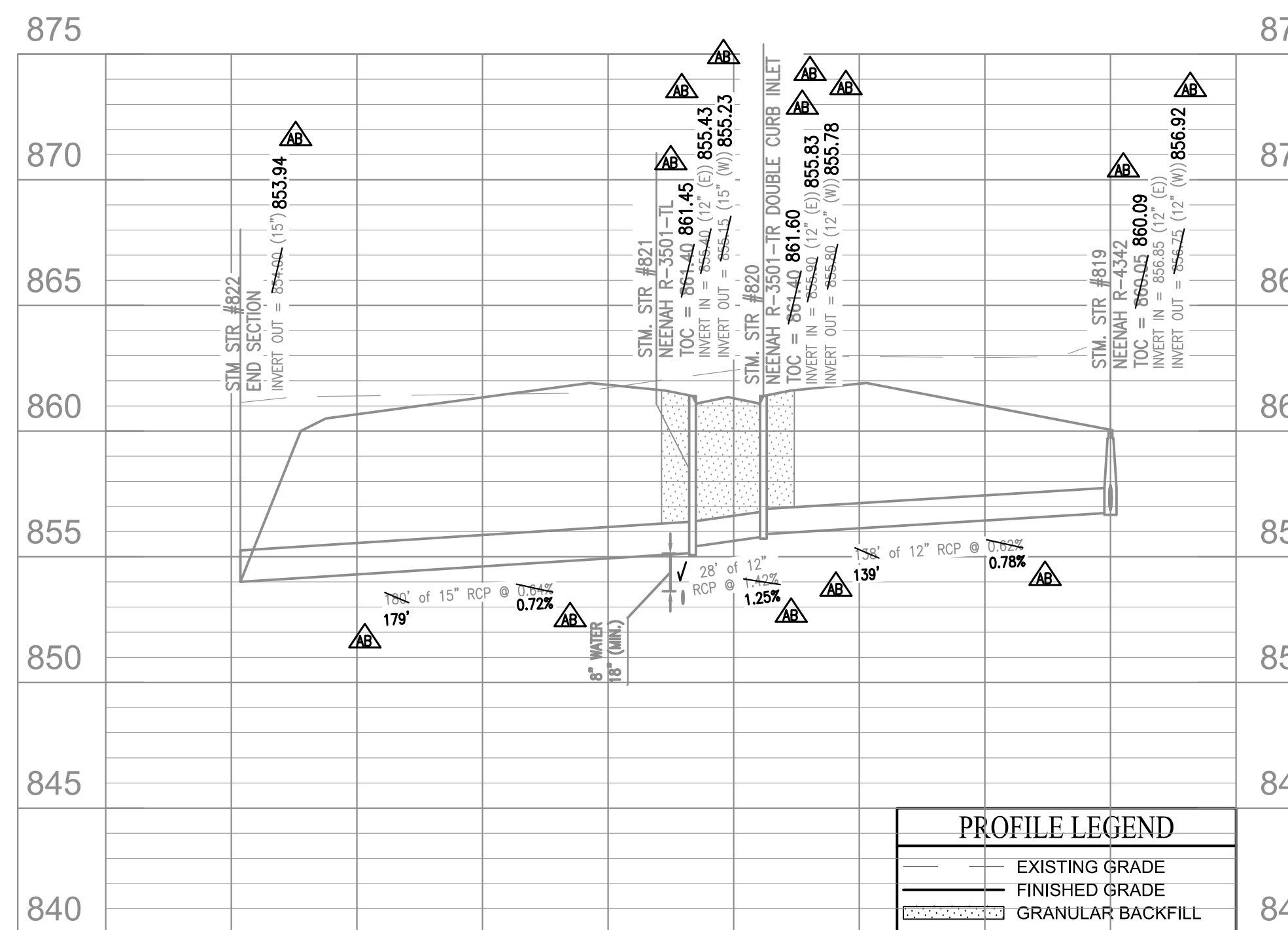
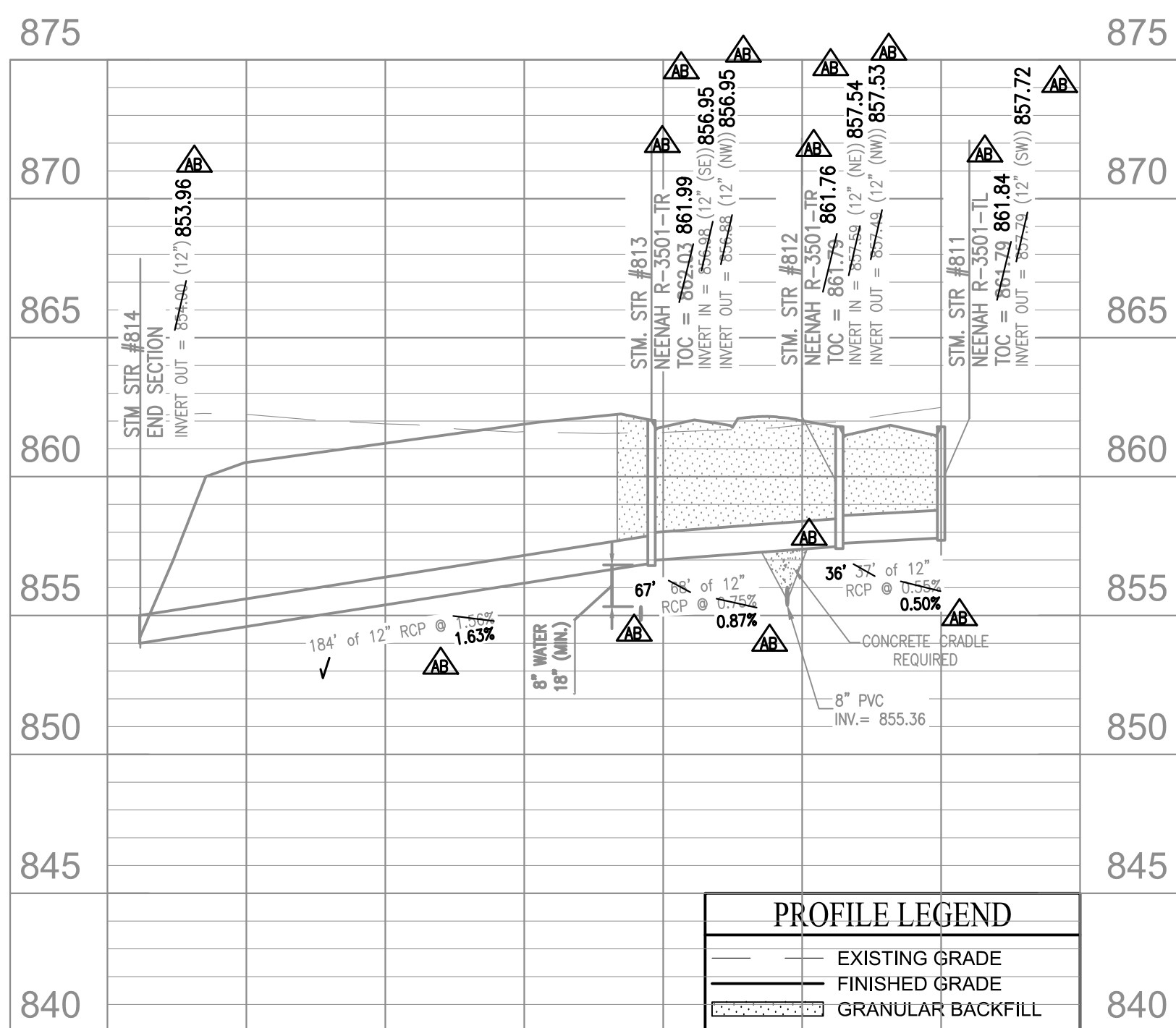
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 PER INDIANA STATE LAW IC 8-1-26,
 IT IS AGAINST THE LAW TO EXCAVATE
 WITHOUT NOTIFYING THE UNDERGROUND
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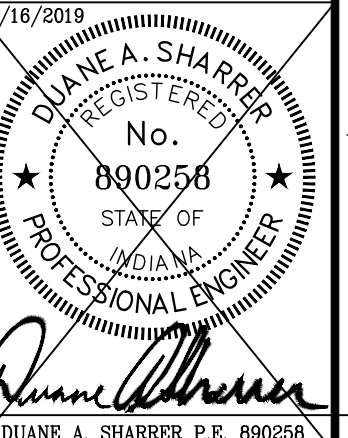


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 weithe.net
 317 | 846 - 6611
 800 | 452 - 6408
 317 | 843 - 0546 fax

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PROJECT NO.:	WT150253-5
DWG. NAME:	AS BUILT STORM
DESIGNED BY:	MEH
DRAWN BY:	MEH
CHECKED BY:	DAS
DATE:	07/24/2020

REVISIONS AND ISSUES
 REVISIONS FOR USE & TAC COMMENTS
 REVISIONS FOR USE & CLIENT COMMENTS
 REVISIONS FOR USE & CLIENT COMMENTS
 REVISIONS FOR USE & CLIENT COMMENTS
 REVISIONS FOR USE & CLIENT COMMENTS
 REVISIONS FOR USE & CLIENT COMMENTS



DUANE A. SHARRER P.E. 890256

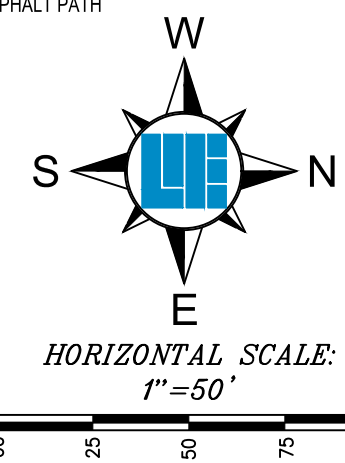
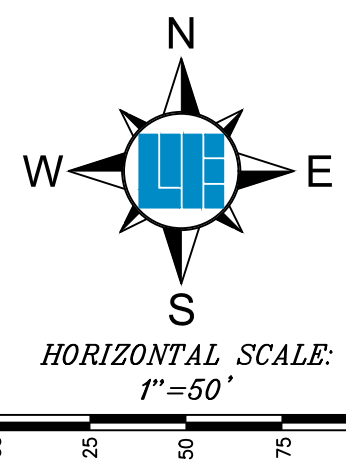
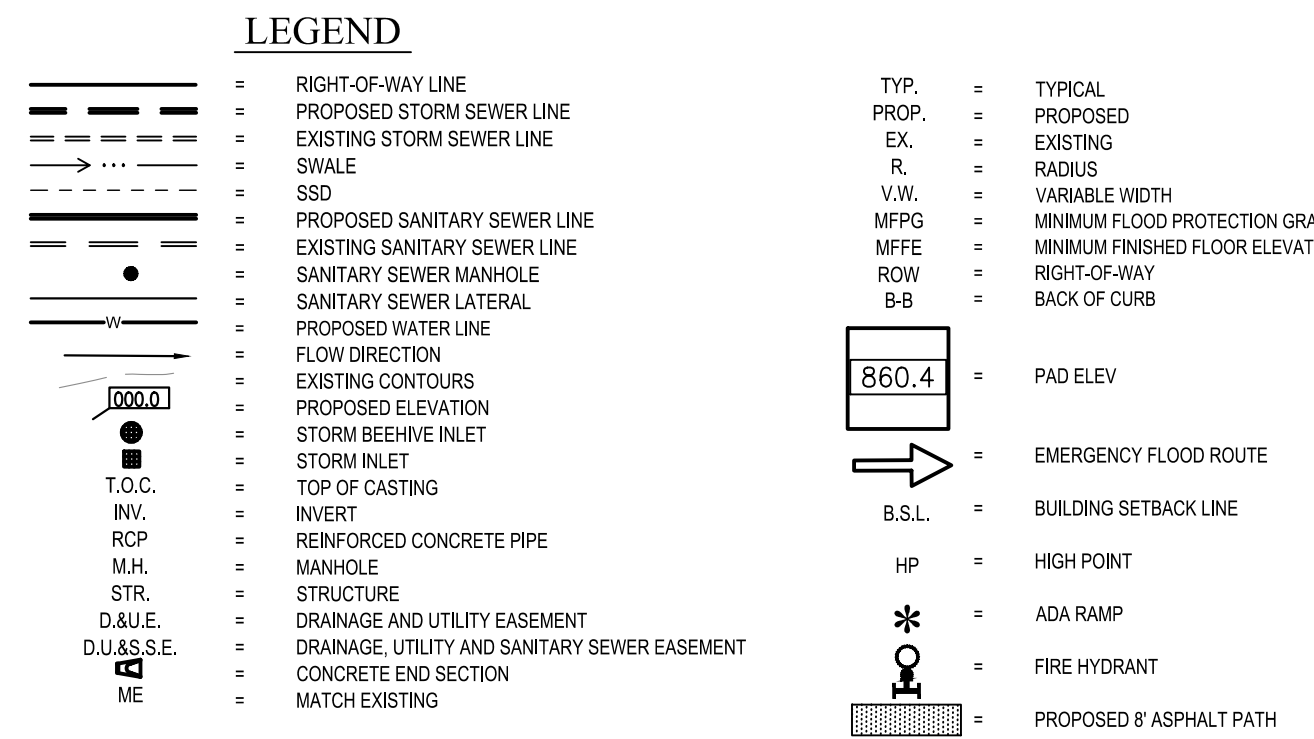
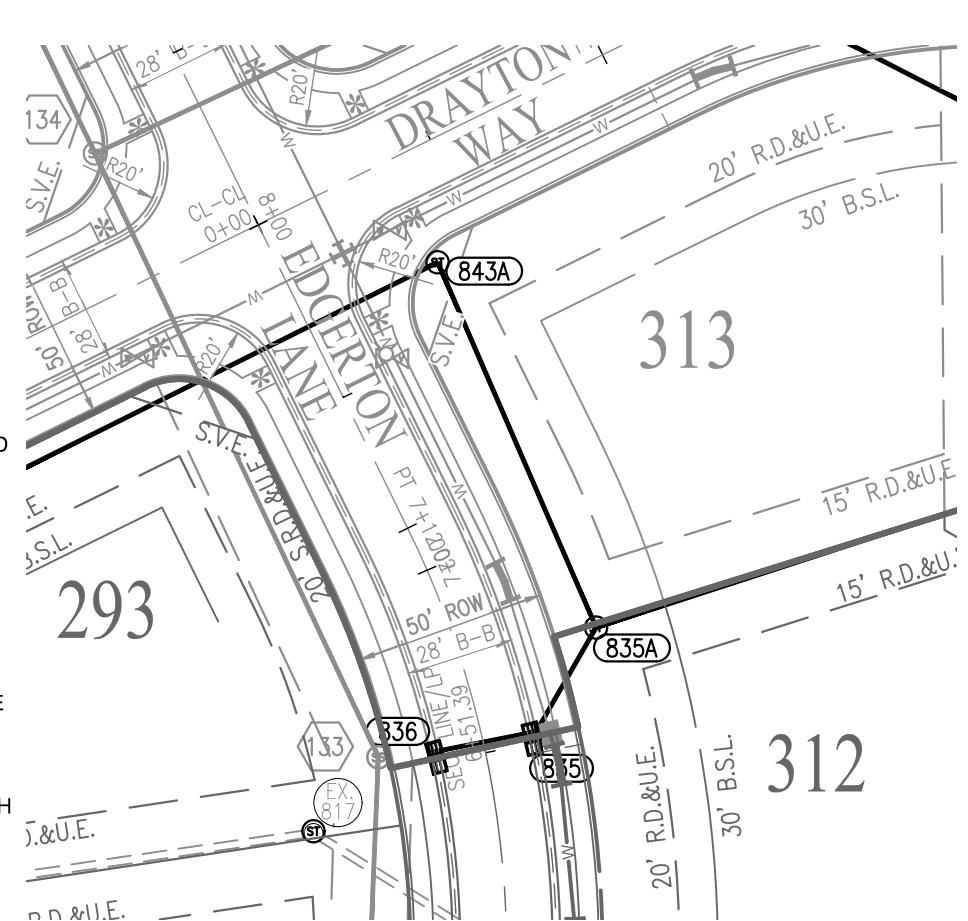
PREPARED FOR:
THE WOODS AT VERMILLION
SECTION FIVE
 NORTH CONNECTICUT DEVELOPMENT CORP.
 STORM SEWER PLAN AND PROFILES
 Part of the SR 52 1/4 of Station 15, Township 17 North, Range 6 East, Paul Creek Township, Hamilton County, Indiana

SHEET NO.
C600
 PROJECT NO.
 W150253-5

LOCATION: H:\2015\W150253\Section 5\Engineering\submittals\AS BUILT Storm Plan.dwg
 DATE/TIME: July 24, 2020 - 12:35pm
 PLOTTED BY: weithe

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.
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- 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.
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- ANY PART OF STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- IT IS THE CONTRACTORS 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 C900 WATER MAIN GRADE PVC.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS 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 DRAINAGE, 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 RIM 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, HANCOV 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, 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.



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 9-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)

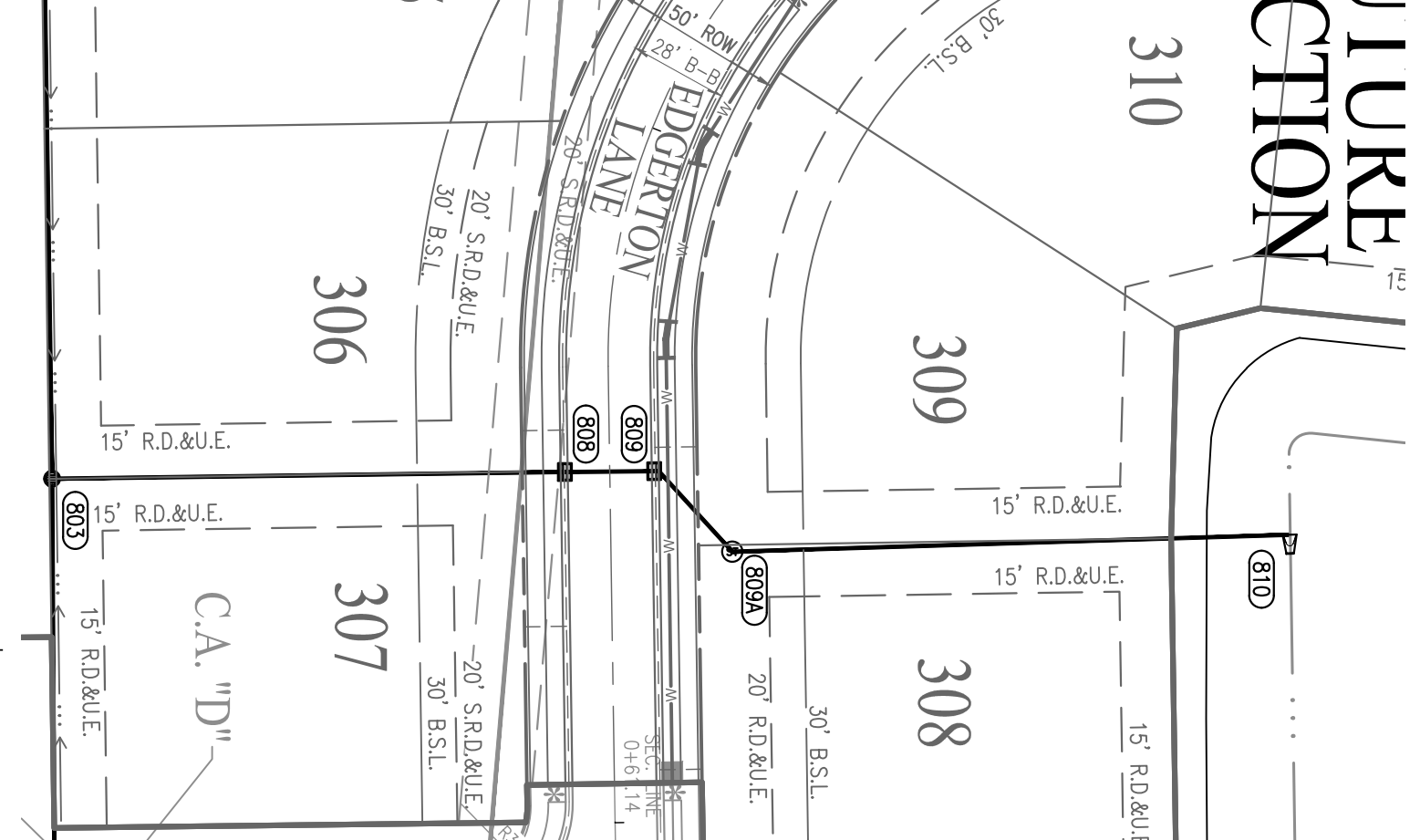
TBM - RIDGE 1
MAG NAIL SET WITH WASHER IN THE WALK ON THE WEST SIDE OF PORTAGE WOODS DRIVE, APPROXIMATELY 5' +/- NORTH AND 19' +/- WEST OF THE CENTERLINE INTERSECTION OF PORTAGE WOODS DRIVE AND HUNTING MEADOW DRIVE IN THE RIDGE AT FLAT FORK - SECTION ONE
N=1712098.06
E=270413.43
EL=855.66 (NAVD 88)

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=1708982.08
E=271671.65
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)

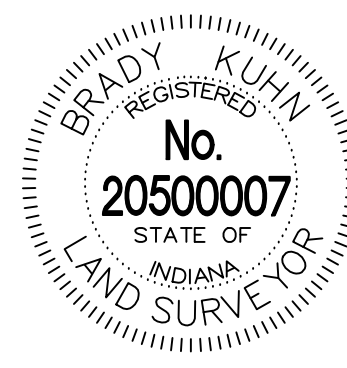
TBM - WOODS 3
MAG NAIL SET IN THE WALK AT THE NORTHEAST CORNER OF CLIFFSIDE DRIVE AND BUCK RIDGE LANE, APPROXIMATELY 53' +/- SOUTH AND 12' +/- WEST OF THE NORTHWEST CORNER OF LOT 315 IN THE WOODS AT VERMILLION - SECTION THREE
N=1708404.38
E=270984.89
EL=860.12 (NAVD 88)

TBM - WOODS 5
A BENCH SPIKE ON THE NORTH SIDE OF A UTILITY POLE ON THE SOUTH SIDE OF 101ST STREET, APPROXIMATELY 134' +/- SOUTH AND 61' +/- WEST OF THE SOUTHWEST CORNER OF LOT 307 IN THE WOODS AT VERMILLION - SECTION FOUR
N=1708404.38
E=270984.89
EL=864.02 (NAVD 88)



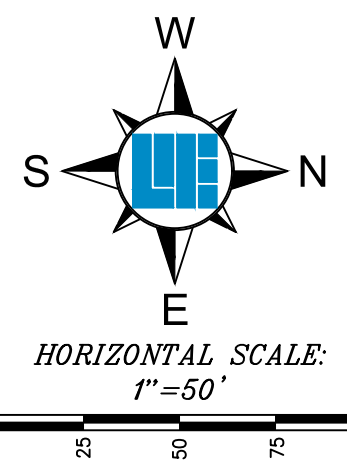
RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
7/24/2020

BRADY KUHN, L.S. 20500007

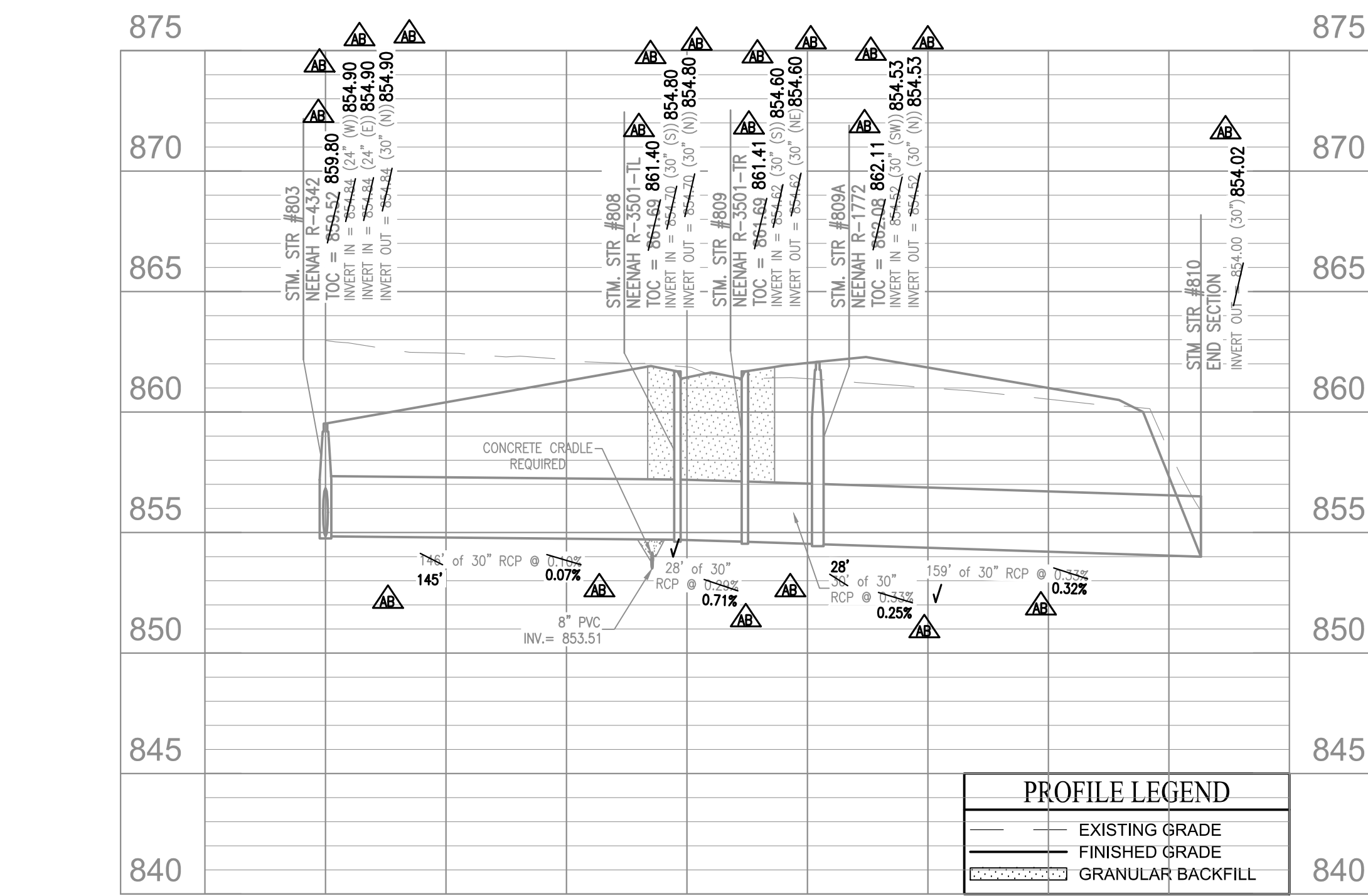
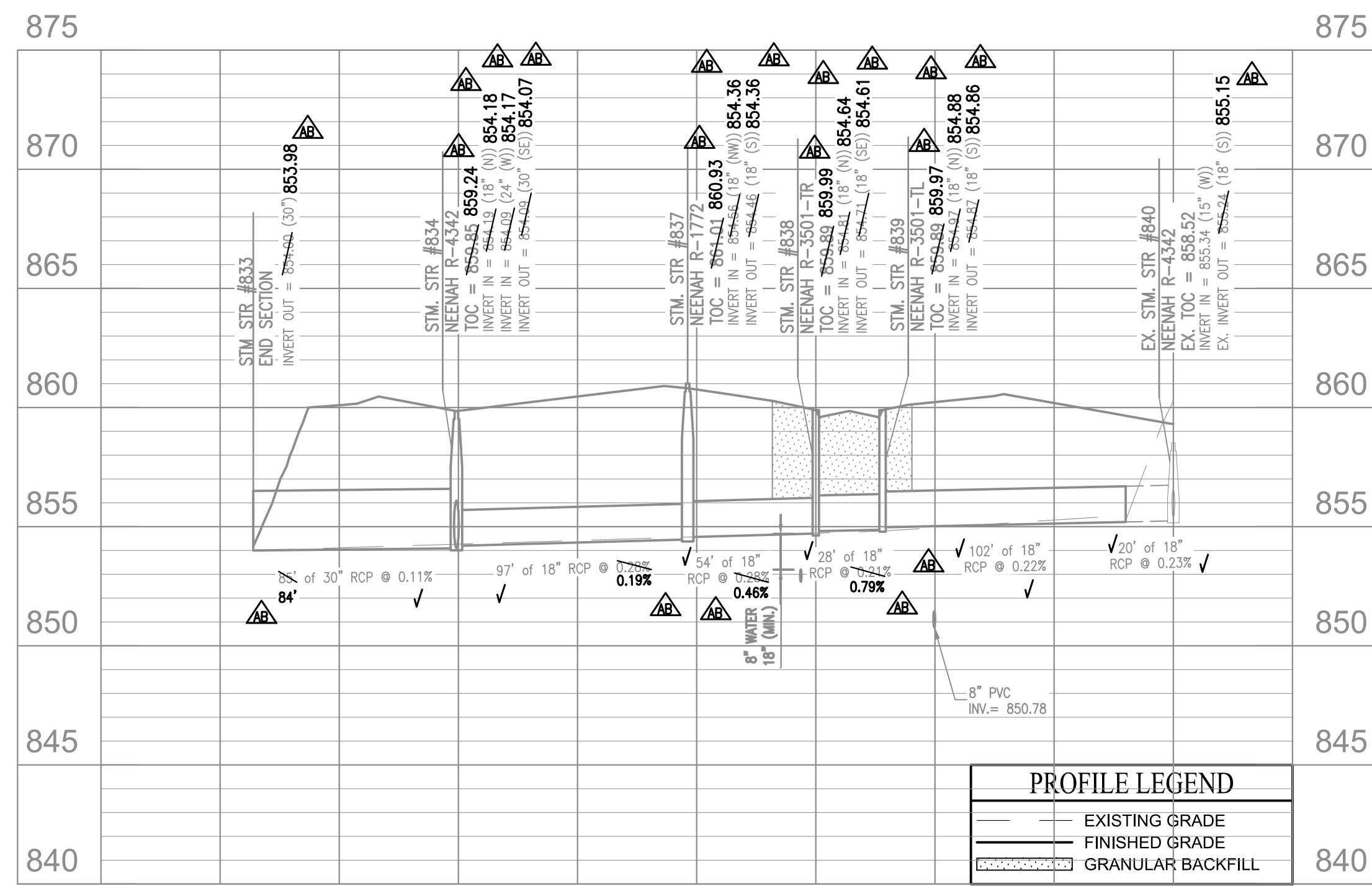
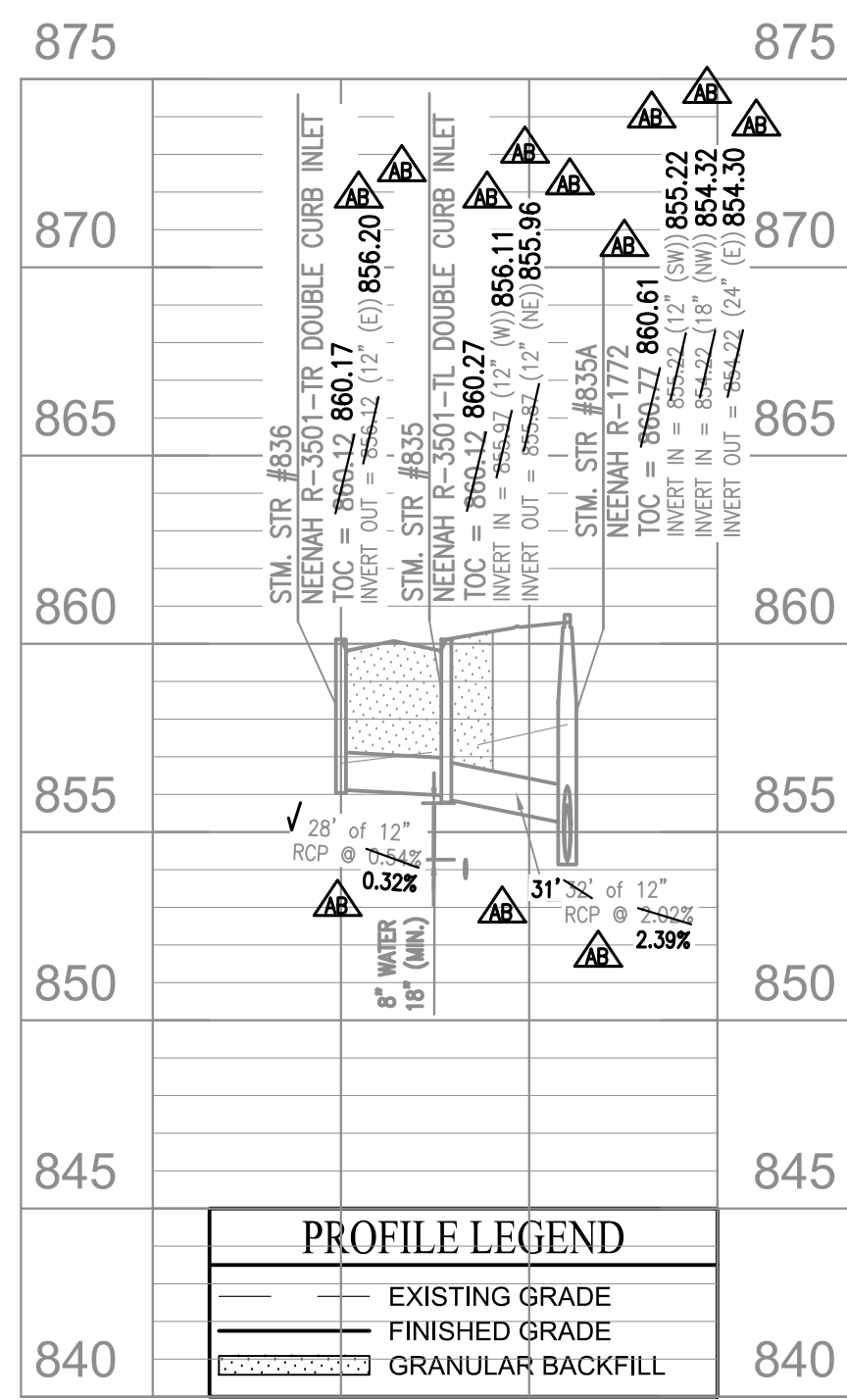


AS-BUILT INFORMATION
BUILT AS PLANNED
DATE OF LAST FIELDWORK: 7/12/2020

NOTE:
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LOCATION: H:\2019\W150253\Section 5\Engineering\submittals\AB_Convert\AB_6000_Storm_Pdf.dwg
DATE/TIME: July 24, 2020 - 12:36pm
PLOTTED BY: weaver

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weihe.net
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800 | 452 - 6408
317 | 843 - 0546 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

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PROJECT NO.	DATE	BY	REVISIONS AND ISSUES
W150253-5	07/03/2019	WEN	REVISIONS PER USE & FAC COMMENTS
	02/07/2019	WEN	REVISIONS PER USE & CLIENT COMMENTS
	04/16/2019	WEN	REVISIONS PER USES, PLANNING DEPARTMENT
	05/09/2019	WEN	REVISIONS PER FISHERS PLANNING DEPARTMENT
	06/13/2019	WEN	REVISED WATER MAIN PLAN PER TOWN
	06/28/2019	WEN	OF FORWALE COMMENTS
	07/25/2020	WEN	REVISED USE COMMENTS
			ASBUILTS

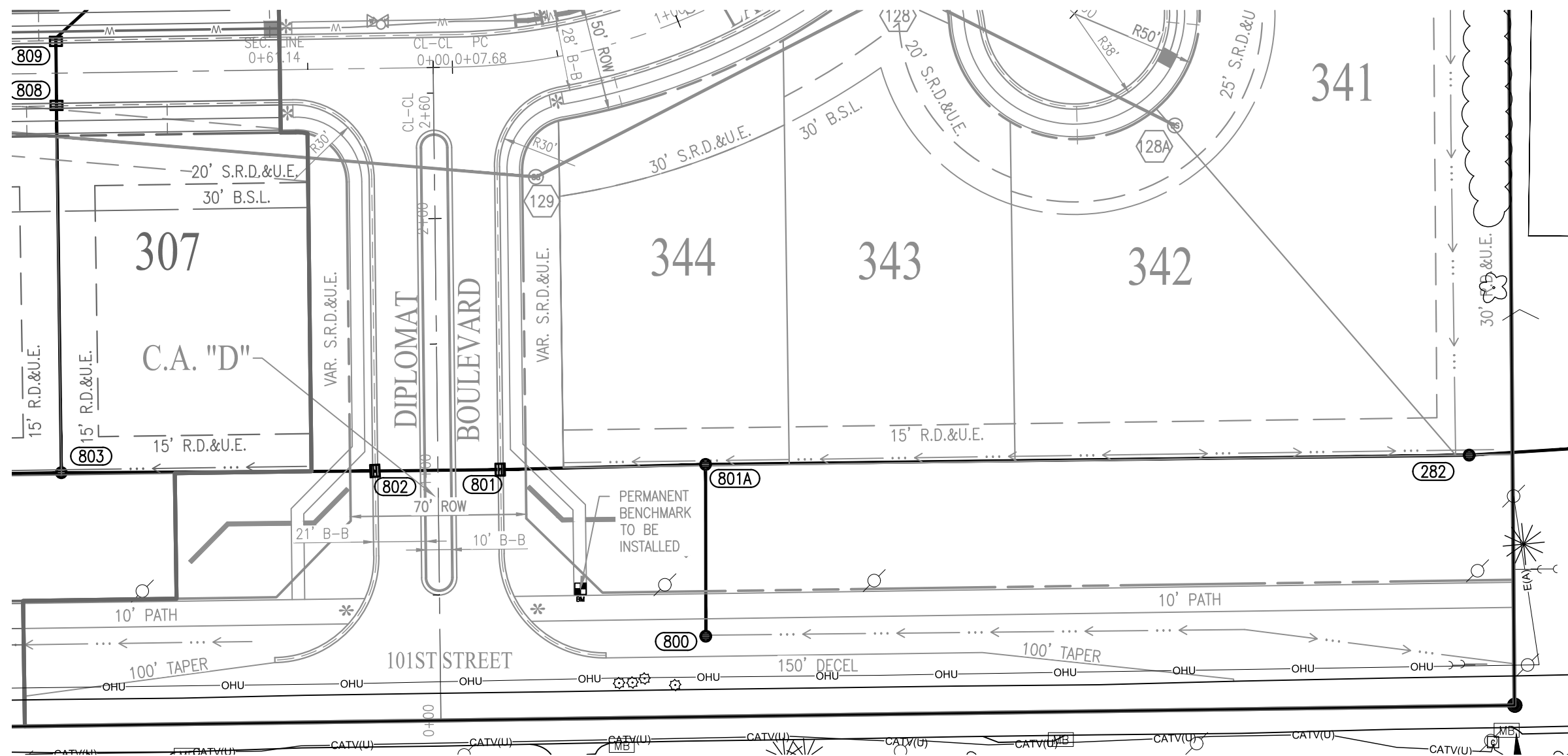
REVISIONS AND ISSUES
REVISIONS PER USE & FAC COMMENTS
REVISIONS PER USE & CLIENT COMMENTS
REVISIONS PER USES, PLANNING DEPARTMENT
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REVISED WATER MAIN PLAN PER TOWN
OF FORWALE COMMENTS
REVISED USE COMMENTS
ASBUILTS

DUANE A. SHARRER, P.E.
REGISTERED PROFESSIONAL ENGINEER
No. 890256
STATE OF INDIANA
DUANE A. SHARRER P.E. 890256

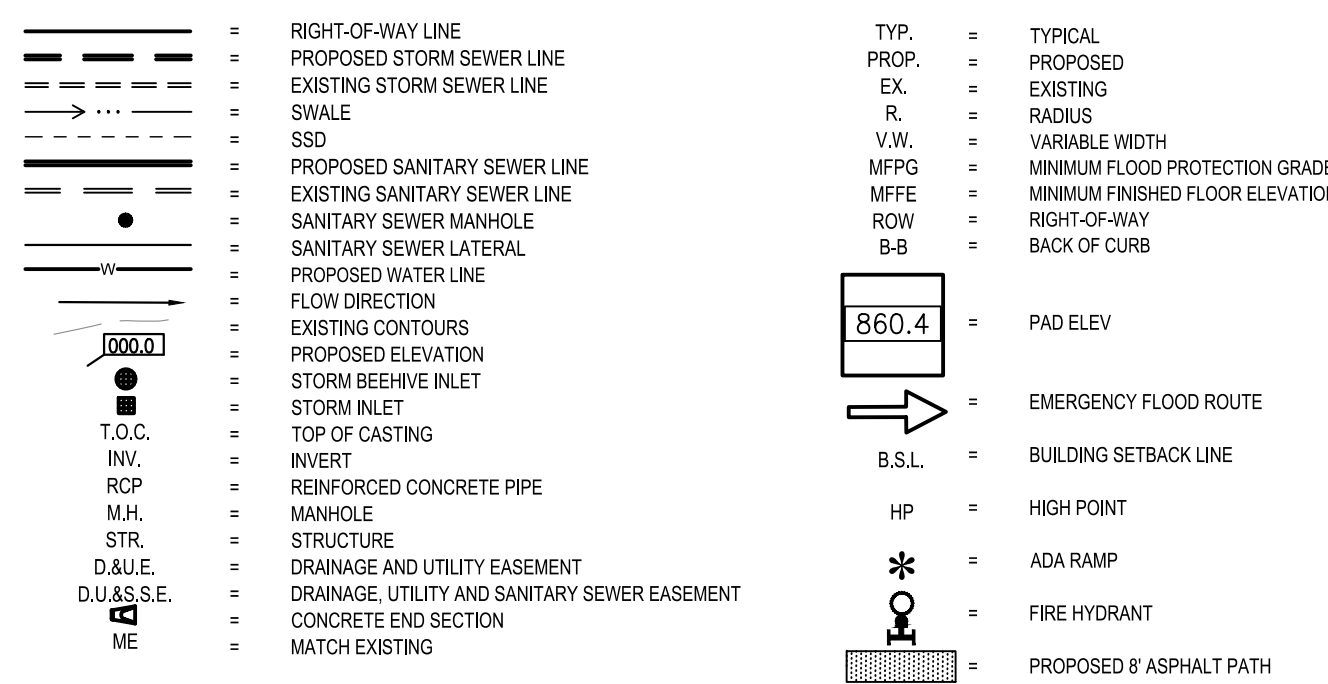
PREPARED FOR:
THE WOODS AT VERMILLION
SECTION FIVE
NORTH CONNECTICUT DEVELOPMENT CORP.
STORM SEWER PLAN AND PROFILES
Part of the 58.52' 1/4 of Section 15, Township 17 North, Range 6 East, Paul Creek Township, Hamilton County, Indiana
SHEET NO.
C601
PROJECT NO.
W150253-5

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LEGEND



BENCHMARK INFORMATION

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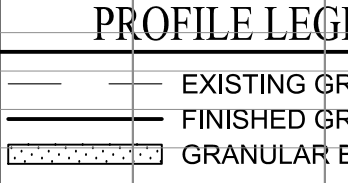
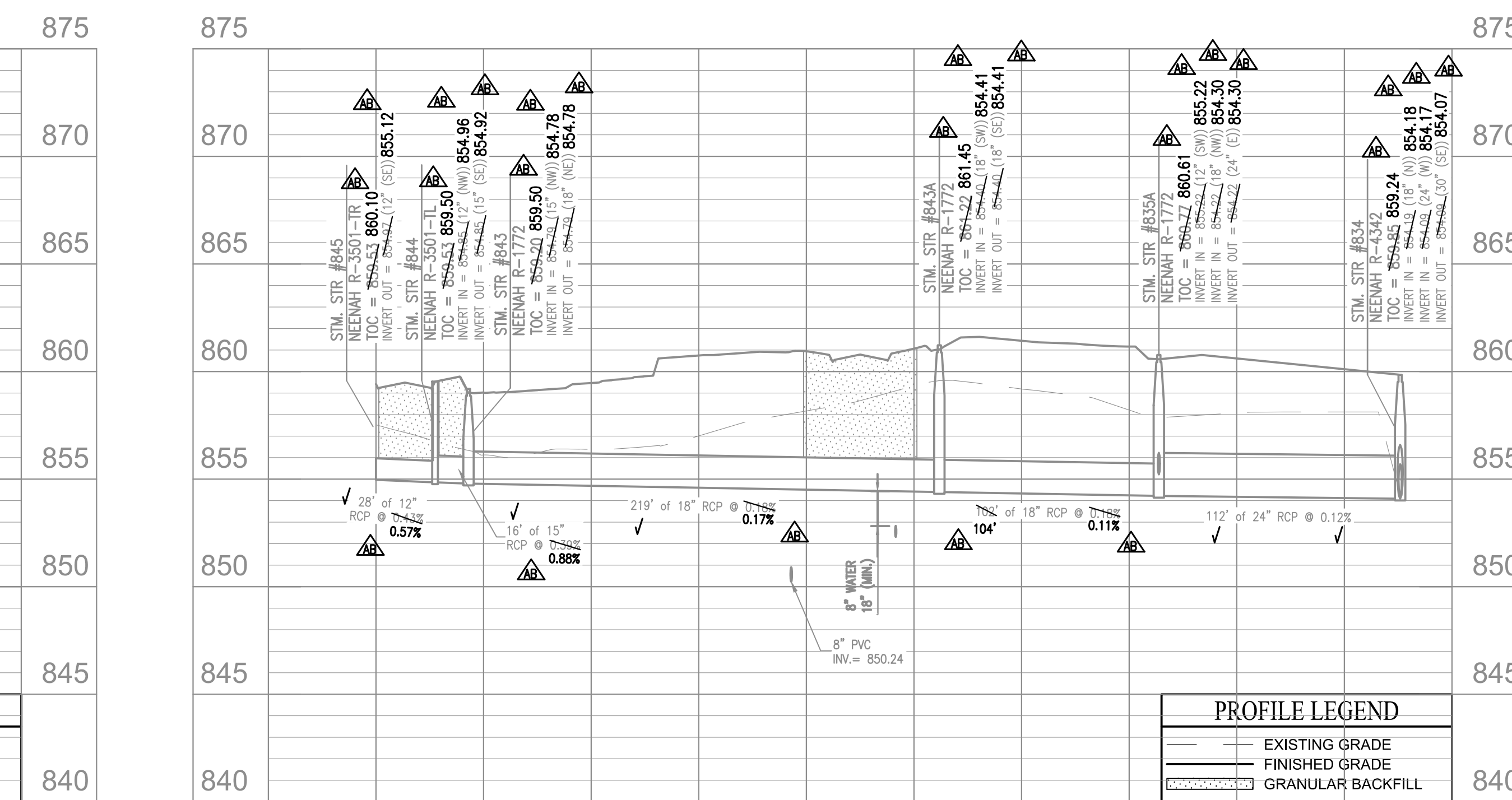
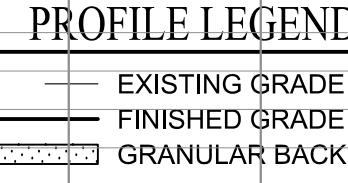
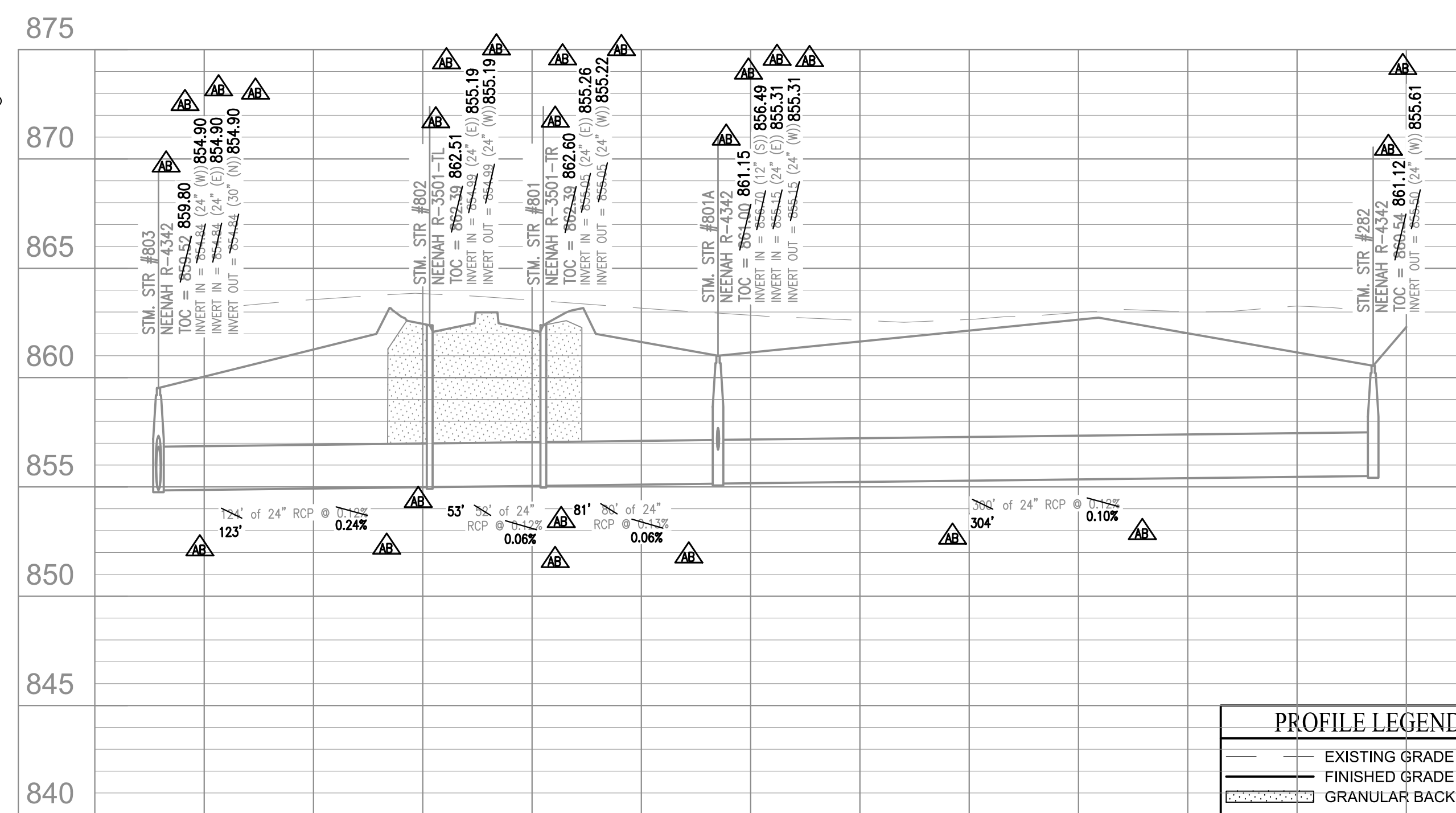
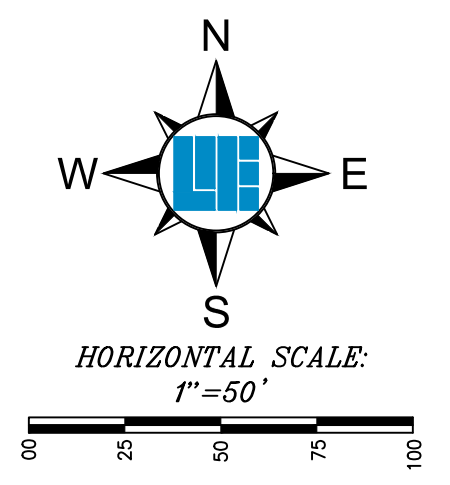
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RECORD DRAWING

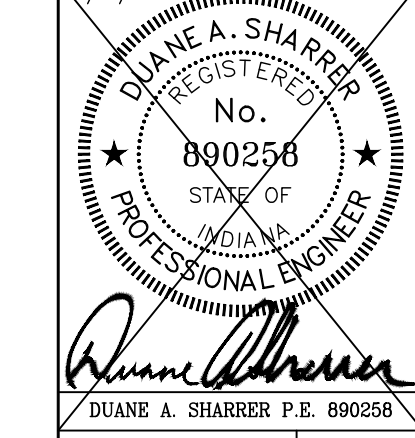
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Table with columns for Project No., Date, By, and other project details.

Table with columns for Revisions and Issues, detailing changes to the drawing.

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DATE/TIME: July 24, 2020 - 12:36pm
PLOTTED BY: weihew

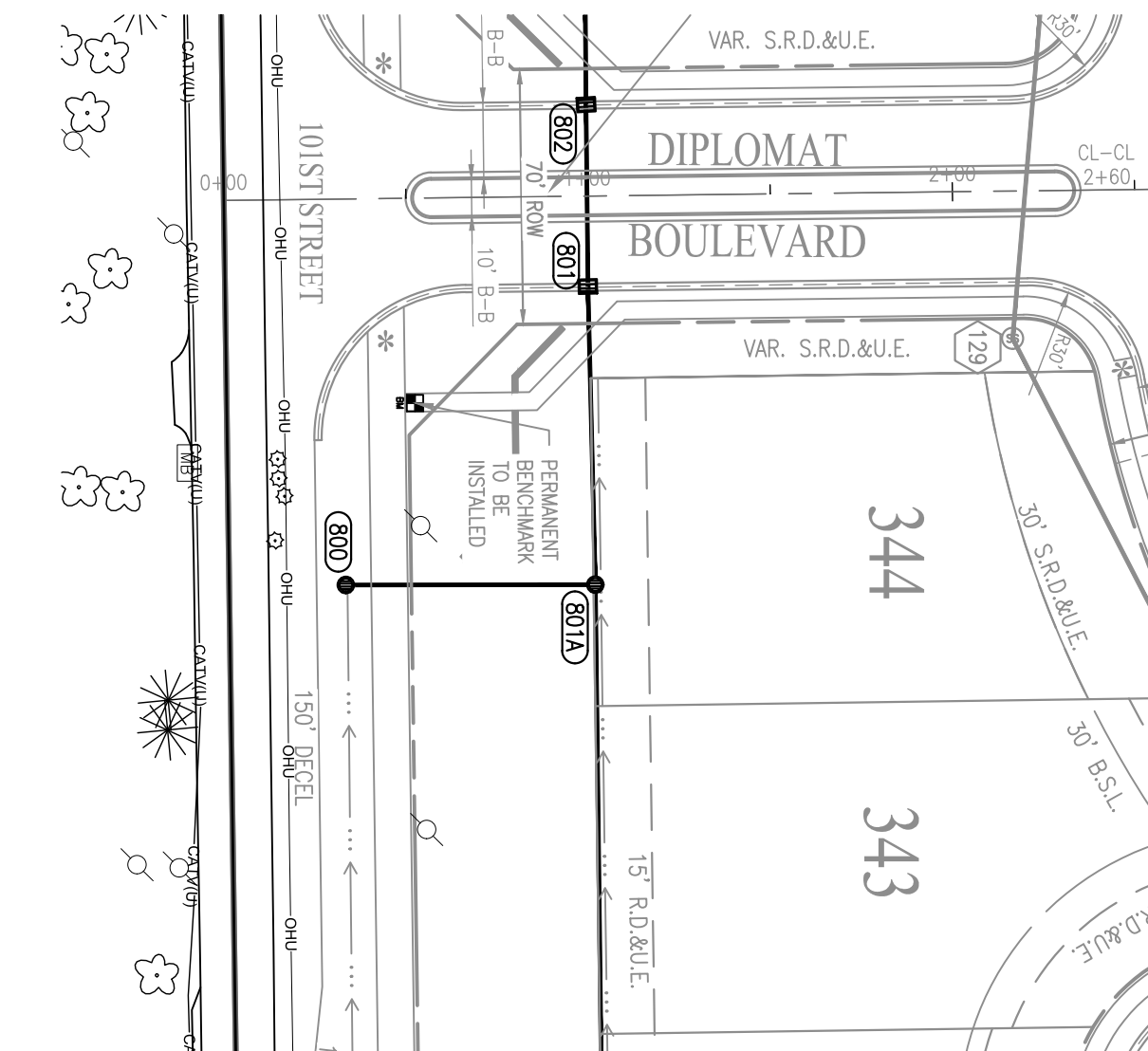
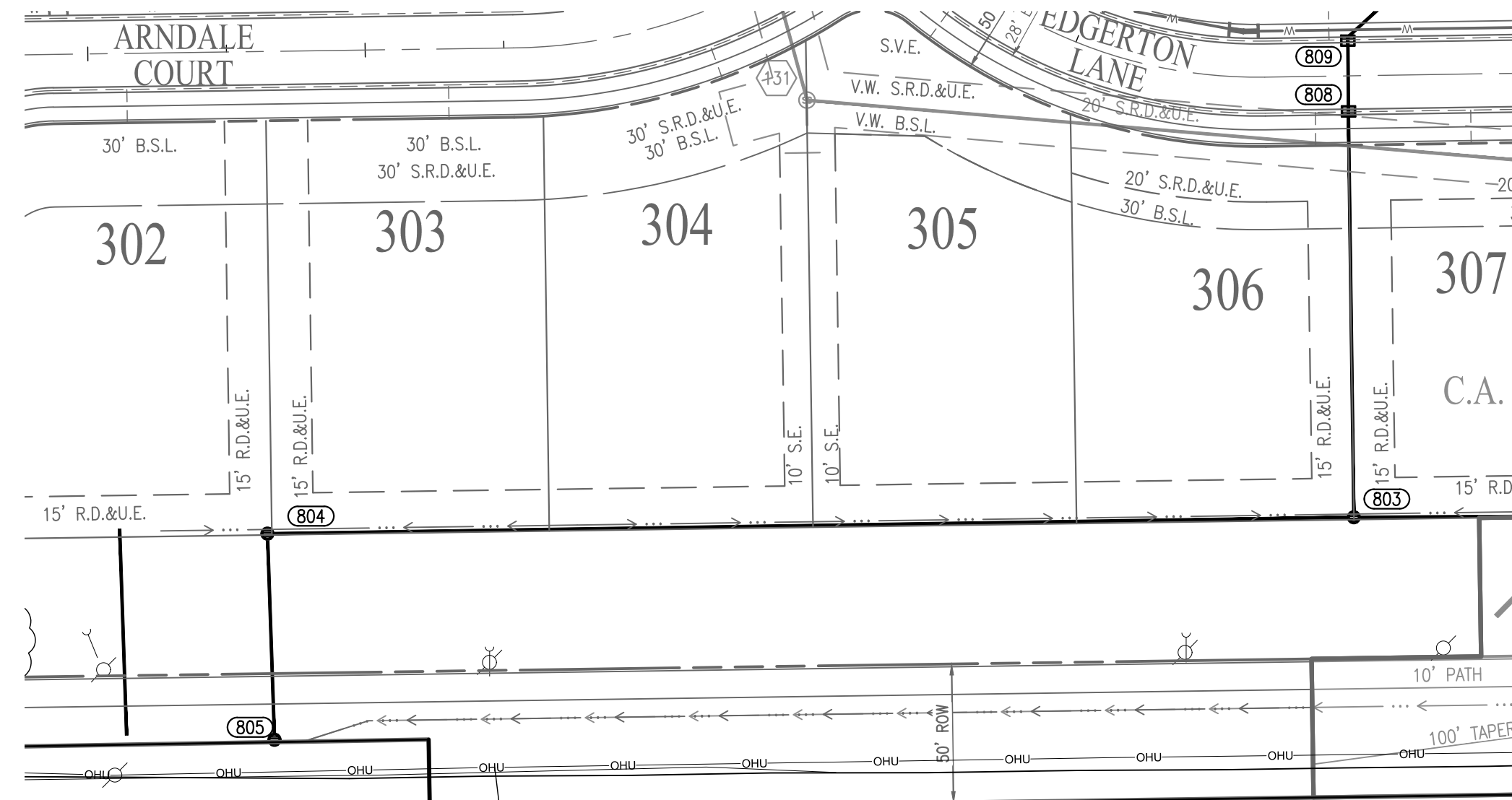
PREPARED FOR: THE WOODS AT VERMILLION SECTION FIVE
NORTH CONNECTICUT DEVELOPMENT CORP.
STORM SEWER PLAN AND PROFILES
SHEET NO. C602
PROJECT NO. W150253-5

STORM SEWER NOTES

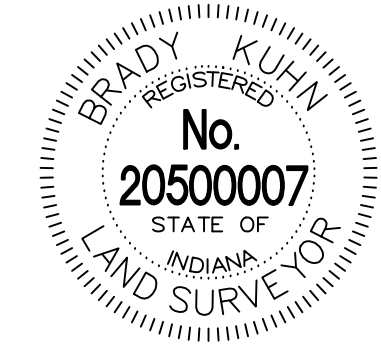
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- ALL EXISTING MANHOLE AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
- EXISTING PIPES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- ALL STORM PIPE CONNECTIONS AT STRUCTURES SHALL BE GROUDED 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, HANCOR 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 #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.

BENCHMARK INFORMATION

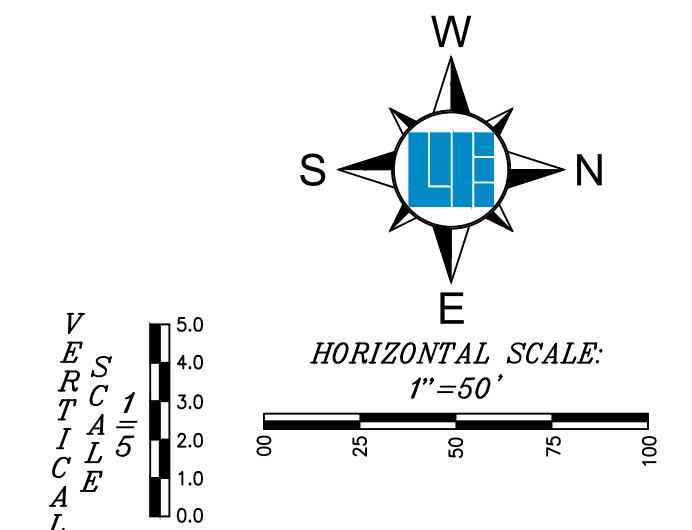
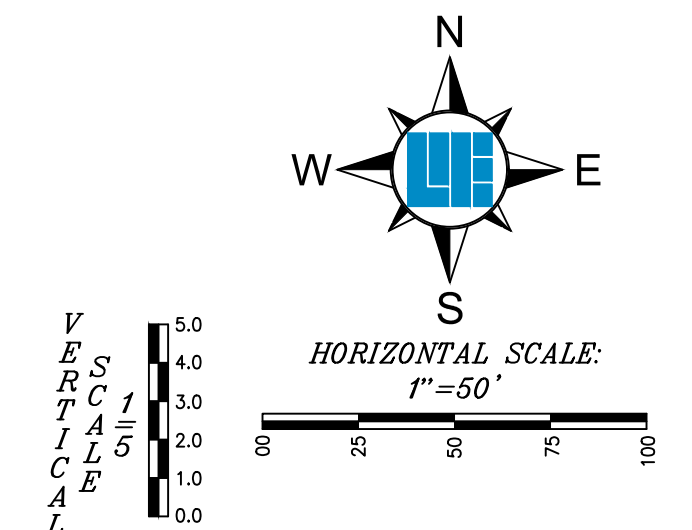
- SOURCE BENCHMARK**
HSE 38
A BRONZE DISK STAMPED "HAMILTON COUNTY GEODETIC CONTROL" SET IN THE NORTH END OF THE EAST CONCRETE HANDRAIL ON THE BRIDGE OVER FALL CREEK ON SOUTHEASTERN PARKWAY SOUTH OF 113TH STREET.
N=1714311.26
E=271866.09
EL=809.14 (NAVD 88)
- TBM 2**
RAILROAD SPIKE SET IN THE WEST SIDE 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=864.69 (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=1712096.06
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 8' +/- WEST OF THE CENTERLINE OF KENSINGTON LANE IN THE ENCLAVE AT VERMILLION - SECTION ONE
N=1708982.08
E=271671.65
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)
- TBM - WOODS 3**
MAG NAIL SET IN THE WALK AT THE NORTHEAST CORNER OF CLIFFSIDE DRIVE AND BUCK RIDGE LANE, APPROXIMATELY 53' +/- SOUTH AND 12' +/- WEST OF THE NORTHWEST CORNER OF LOT 315 IN THE WOODS AT VERMILLION - SECTION THREE
N=1708404.38
E=270984.89
EL=860.12 (NAVD 88)
- TBM - WOODS 5**
A BENCH SPIKE ON THE NORTH SIDE OF A UTILITY POLE ON THE SOUTH SIDE OF 101ST STREET, APPROXIMATELY 134' +/- SOUTH AND 61' +/- WEST OF THE SOUTHWEST CORNER OF LOT 307 IN THE WOODS AT VERMILLION - SECTION FOUR
N=1708404.38
E=270984.89
EL=864.02 (NAVD 88)



RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
7/24/2020



BRADY KUHN, L.S. 20500007
 - AS-BUILT INFORMATION
 - BUILT AS PLANNED
 DATE OF LAST FIELDWORK: 7/12/2020

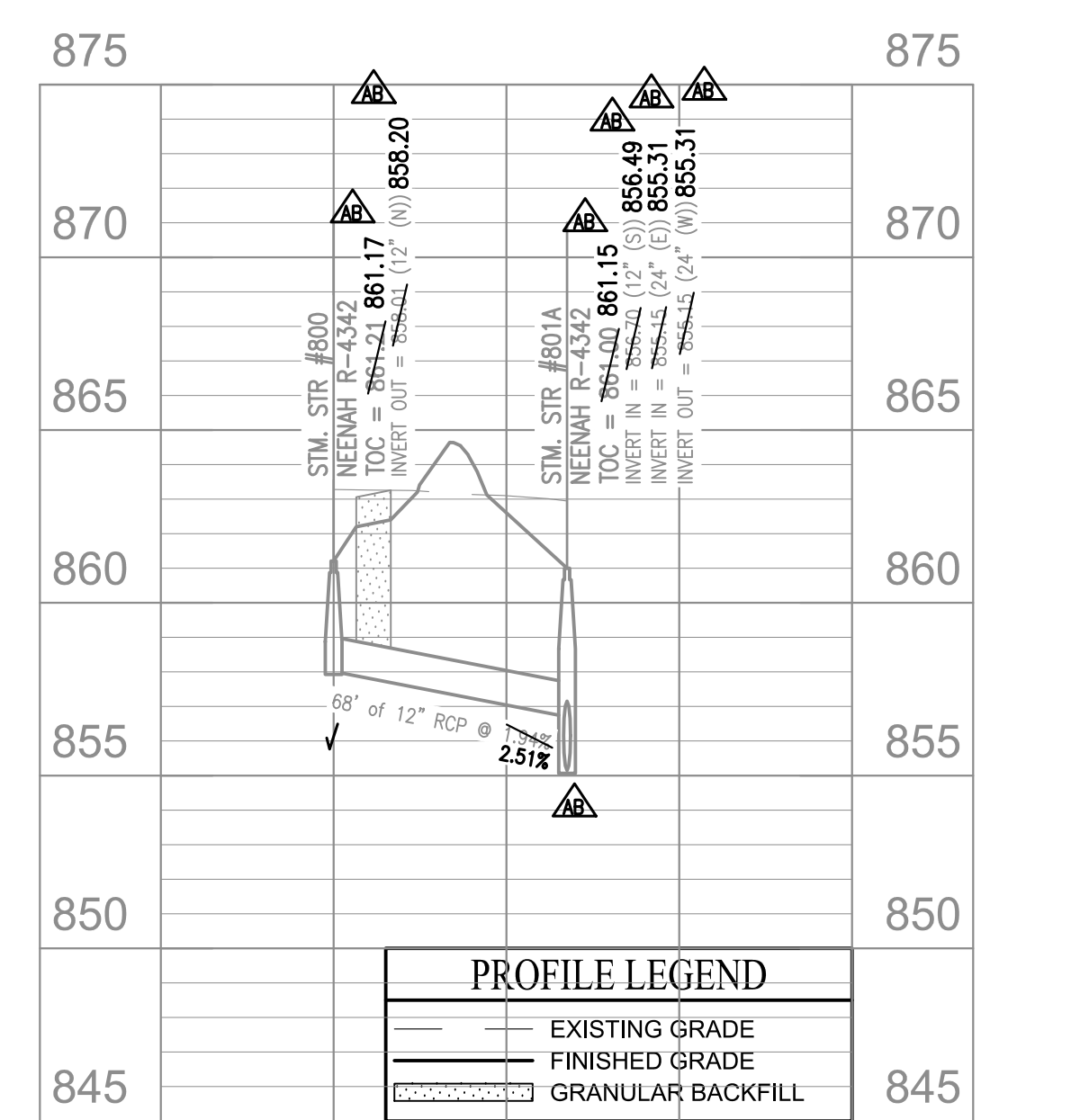
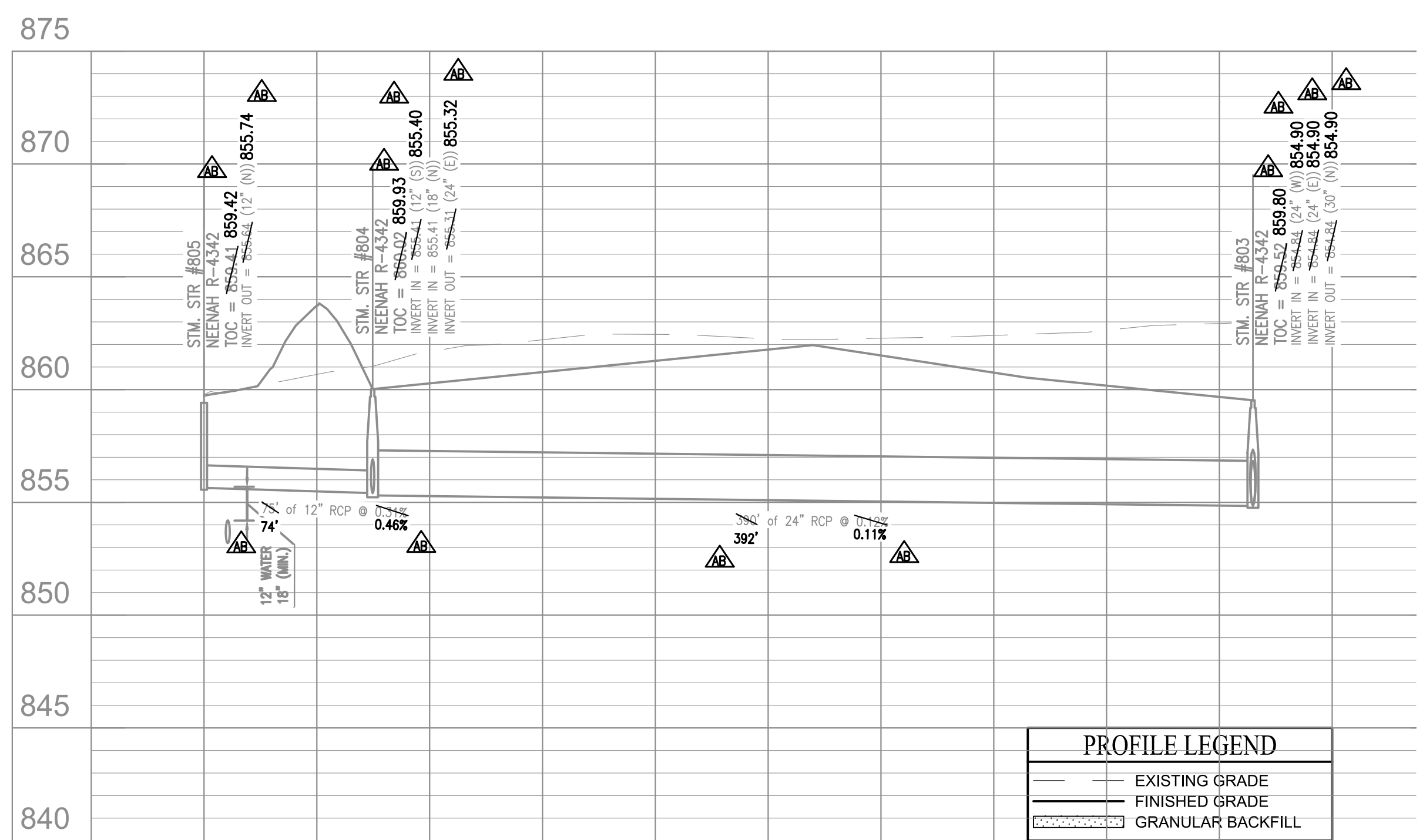


NOTE:
EXCEPT FOR FORCE MAINS, CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES AND STORM SEWERS IS 18" OR LESS.

811
Know what's below.
Call before you dig.
Within Indiana Call
811 or 800-382-5544
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
DAYS BEFORE COMMENCING WORK.

LEGEND

<ul style="list-style-type: none"> 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 STORM RESERVE INLET STORM INLET TOP OF CASTING INVERT REINFORCED CONCRETE PIPE MANHOLE STRUCTURE D.&U.E. D.U.&S.E. ME 	<ul style="list-style-type: none"> TYP. = TYPICAL PROP. = PROPOSED EX. = EXISTING R. = RADIUS V.W. = VARIABLE WIDTH M.F.P.G. = MINIMUM FLOOD PROTECTION GRADE M.F.F.E. = MINIMUM FINISHED FLOOR ELEVATION ROW = RIGHT-OF-WAY B-B = BACK OF CURB 860.4 = PAD ELEV B.S.L. = BUILDING SETBACK LINE HP = HIGH POINT ADA = ADA RAMP FH = FIRE HYDRANT PA = PROPOSED 8" ASPHALT PATH
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800 452 - 6408
317 843 - 0546 fax

WEIHE ENGINEERS
Land Surveying / Civil Engineering
Landscape Architecture

PROJECT NO.	DATE	BY	DATE	BY
W150253-5	01/03/2019	WEN	01/03/2019	WEN
DWG. NAME: 25 Storm Sewer	02/07/2019	WEN	02/07/2019	WEN
DESIGNED BY:	04/16/2019	WEN	04/16/2019	WEN
DRAWN BY:	05/09/2019	WEN	05/09/2019	WEN
CHECKED BY:	06/13/2019	WEN	06/13/2019	WEN
DATE:	06/26/2019	WEN	06/26/2019	WEN

REVISIONS AND ISSUES

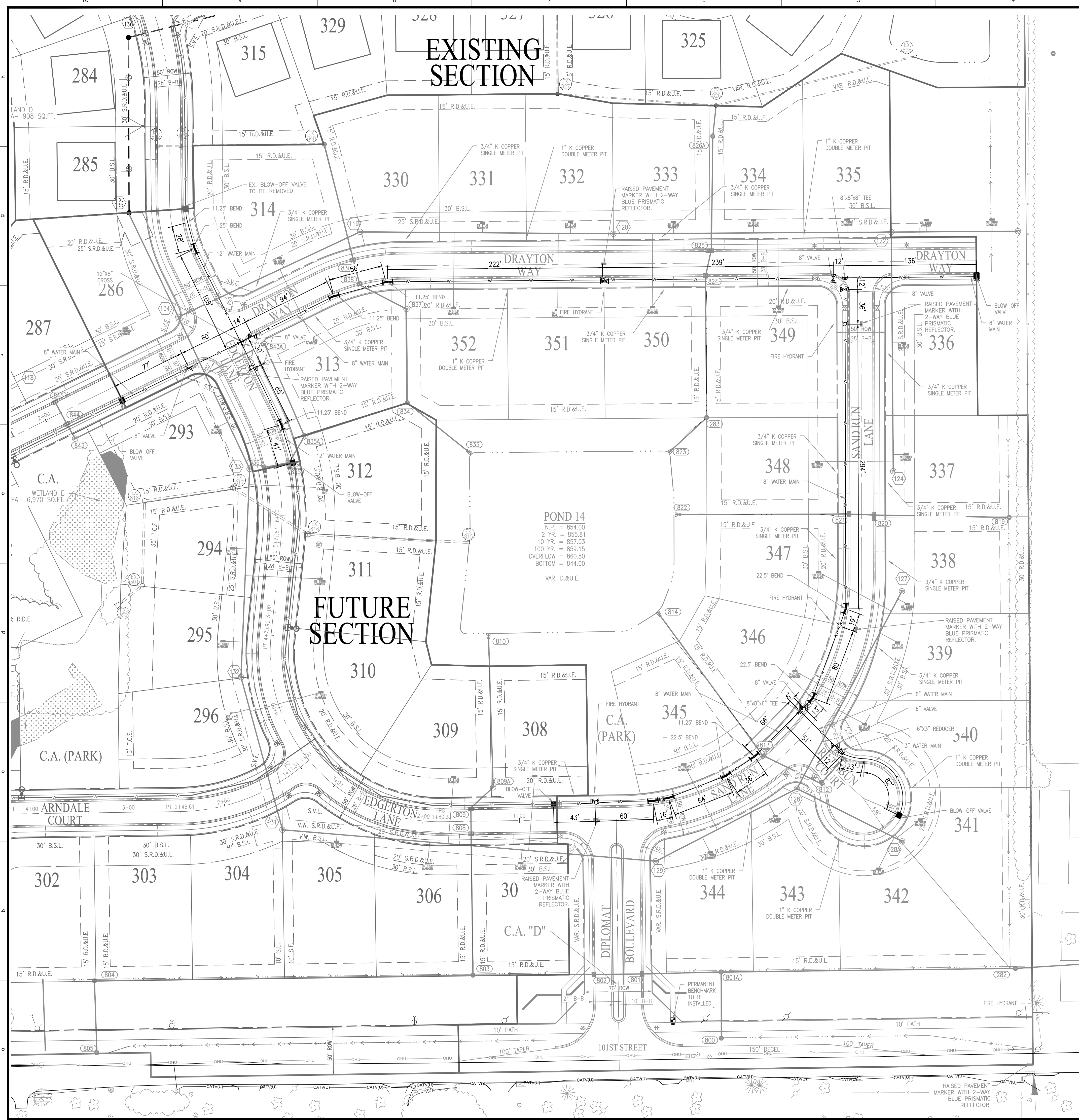
NO.	DATE	DESCRIPTION
1	01/03/2019	REVISIONS PER USE & TAC COMMENTS
2	02/07/2019	REVISIONS PER USE & CLIENT COMMENTS
3	04/16/2019	REVISIONS PER USE & CLIENT COMMENTS
4	05/09/2019	REVISIONS PER DESIGNER PLANNING DEPARTMENT
5	06/13/2019	REVISIONS PER WATER MAIN PLAN PER TOWNSHIP
6	06/26/2019	REVISIONS PER COMMENTS OF TOWNSHIP
7	06/26/2019	REVISIONS PER COMMENTS OF TOWNSHIP

DUANE A. SHARRER, P.E. 890256
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA

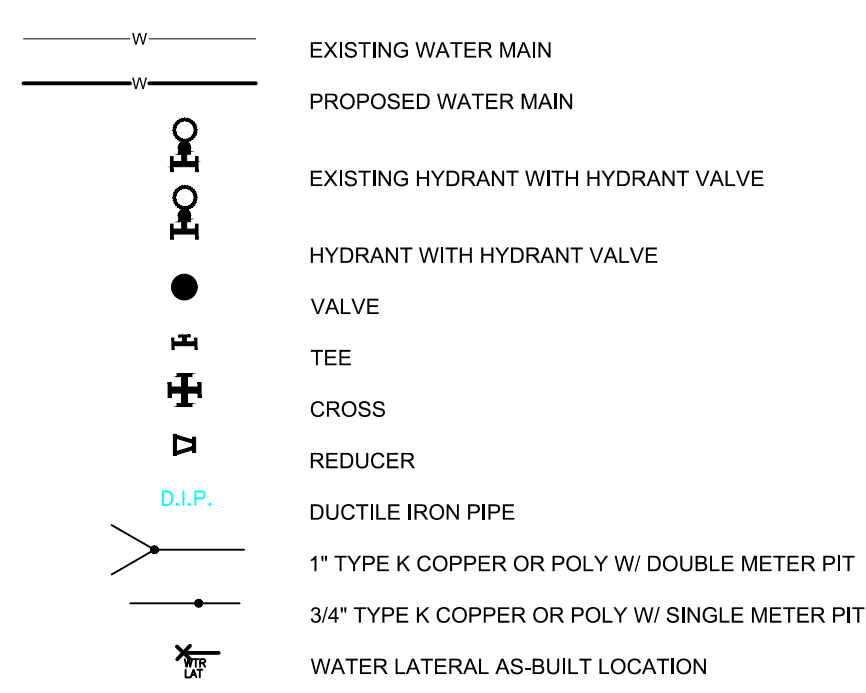
PREPARED FOR:
THE WOODS AT VERMILLION SECTION FIVE
NORTH CONNECTICUT DEVELOPMENT CORP.
STORM SEWER PLAN AND PROFILES
Part of the 28.52' 1/4 of Section 15, Township 17 North, Range 6 East, Paul Creek Township, Hamilton County, Indiana

SHEET NO. **C603**
PROJECT NO. **W150253-5**

LOCATION: H:\2019\W150253\Section 5\Engineering\submittals\AB_Convert\AB_C600_Storm_Pdf.dwg
DATE/TIME: July 24, 2020 - 12:37pm
PLOTTED BY: weihew



LEGEND



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=174131.26
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=1709892.08
E=271671.65
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)

TBM - WOODS 3

MAG NAIL SET IN THE WALK AT THE NORTHEAST CORNER OF CLIFFSIDE DRIVE AND BUCK RIDGE LANE, APPROXIMATELY 53' +/- SOUTH AND 12' +/- WEST OF THE NORTHWEST CORNER OF LOT 315 IN THE WOODS AT VERMILLION - SECTION THREE
N=1708404.38
E=270984.89
EL=860.12 (NAVD 88)

TBM - WOODS 5

A BENCH SPIKE ON THE NORTH SIDE OF A UTILITY POLE ON THE SOUTH SIDE OF 101ST STREET, APPROXIMATELY 134' +/- SOUTH AND 61' +/- WEST OF THE SOUTHWEST CORNER OF LOT 307 IN THE WOODS AT VERMILLION - SECTION FOUR
N=1708404.38
E=270984.89
EL=864.02 (NAVD 88)

RECORD DRAWING

WATER AS-BUILTS
WATER STRUCTURES ONLY
7/24/2020

BRADY KUHN, L.S. 20500007

- 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 WATERSTOP
- AS-BUILT REDUCER

DATE OF LAST FIELDWORK: 7/12/2020

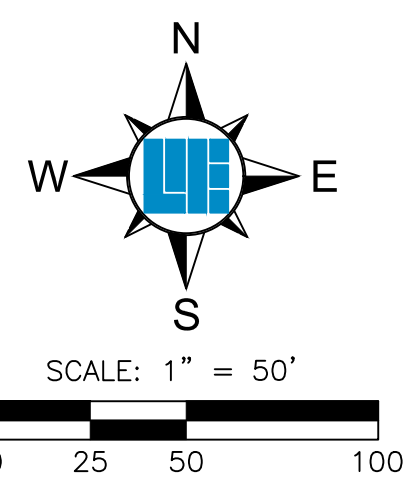
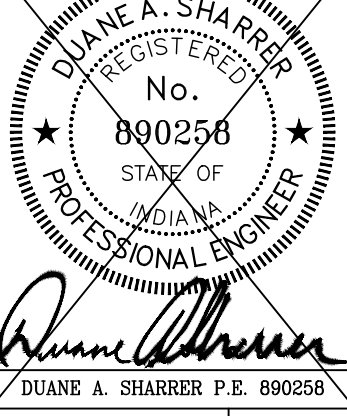
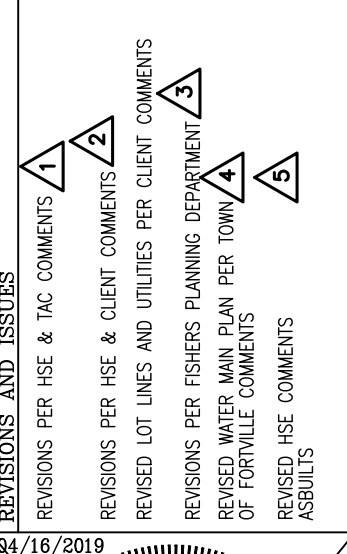
WATER MAIN NOTES:

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 SNOW/PLOWABLE 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.

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DATE	BY	REVISIONS AND ISSUES
01/03/2019	WEN	PROJECT NO. W150253-5
02/07/2019	WEN	DWG. NAME: 25 C700 Water Planning
04/16/2019	WEN	DESIGNER: WEN
05/09/2019	WEN	DRAWN BY: WEN
06/13/2019	WEN	CHECKED BY: DAS
06/26/2019	WEN	DATE: 04-16-2019



PREPARED FOR:
THE WOODS AT VERMILLION SECTION FIVE
NORTH CONNECTICUT DEVELOPMENT CORP.
WATER MAIN PLAN
SHEET NO. **C700**
PROJECT NO. **W150253-5**

LOCATION: W150253-5 Section 5 Engineering\submittal\AB\Consent\AB C700 Water Planning
DATE/TIME: July 24, 2020 - 12:38pm
PLOTTED BY: weih