

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

September 11, 2020

To: Hamilton County Drainage Board

Re: Mud Creek – Sand Creek Drainage Area, EE Bennett Arm, 146th & Olio Road Roundabout Relocation

Attached are petition by Brueckmann, Charitable Remainder Unitrust Trustee Hillsdale College, file stamped May 18, 2020, and plans for the proposed reconstruction of a portion of the Mud Creek – Sand Creek Drainage Area, EE Bennett Arm. This project is to be paid for by the City of Noblesville. In order to a facilitate improvements to the 146th & Olio Road intersection, the proposal is to reconstruct and relocate the existing drain per the construction plans by Butler, Fairman & Seufert (BF&S) Civil Engineers called “City of Noblesville – Olio Road & 146th Street Road Plans,” dated 7/10/2020, BF&S project No. 6126.

Per the plans by BF&S, the drain relocation will begin near the east right-of-way line of Olio Road, approximately 557’ south of 146th street centerline. The existing EE Bennett Arm drain tile will be intercepted at a new storm manhole (Str 199). New RCP will drain north towards the proposed roundabout. At a manhole on the south side of the roundabout (Str 203), the drain will turn west, where it will continuc west of Olio Road, paralleling 146th street along the south right of way. Approximately 800’ west of the centerline of Olio Road, the pipe will flow into a new open ditch. The open ditch will flow west for about 450’, then turn south to eventually discharge into the existing detention area in Saxony Corporate Campus, which is part of the existing EE Bennett Arm. Per the plans, the relocation will occur between Str 199 and the above-mentioned pond (BF&S station 42+07). These locations correspond with the original stations 80+15 and 96+00 of the EE Bennett Drain installed in 1901.

The relocation will consist of the following:

484’ of 15” RCP 898’ of 72” RCP 1907’ of open drain

The length of the relocation will be 3,289'. This project will add 1,704' to the overall length of the Mud Creek – Sand Creek Drainage Area, EE Bennett Arm. The existing 1585' of tile drain installed in 1901 between existing stations 80+15 and 96+00 will be vacated.

Per the project plans, this relocation project involves the following structures: 199, 200, 203, 208, 202, 206, and 206-A, as well as, the open new open ditch. The other storm facilities constructed with the 146th & Olio Road Roundabout project will be owned and maintained by the City of Noblesville or the landowners.

The drain will be reconstructed on the following parcels:
Within the right-of-way of Olio Road, owned by the City of Noblesville; Within the right-of-way of 146th Street, owned by the City of Noblesville; Parcel No. 13-11-23-00-00-007.000 (Brueckmann Cornett Subdivision, Block Pt A) owned by Brueckmann, F Robert & Betty Lee Charitable Remainder Unitrust Trustee Hillsdale College; and Parcel 13-11-23-00-00-011.034 (Saxony Corporate Campus) owned by Saxony Corporate Campus Association, Inc.

Regarding easement, this project is proposed to be constructed within existing right-of-way and drain easement acquired by the City of Noblesville from Hillsdale College, Brueckmann, Charitable Remainder Unitrust Trustee (Instrument No 2020041877), as well as, existing easement in Saxony Corporate Campus, as recorded in the office of the Hamilton County Recorder.

The original E. Bennett Drain was established per Commissioner's Court records in March 1901 (CR13, page 118). In 2003, the EE Bennett Drain was reconstructed through the Noblesville Corporate Campus as per my report "EE Bennett Drain and the Republic Arm" dated April 25, 2003 and approved by the Drainage Board at hearing on May 27, 2003. See Drainage Board Minutes Book 7, pages 69-74. In 2007, the EE Bennett Drain was made an arm of the Mud Creek – Sand Creek Drainage Area per my report dated May 1, 2002 and was approved by the Board on June 27, 2007. See Minutes Book 10, pages 324-325.

The cost of the project is to be paid by the City of Noblesville. Therefore, the requirement for posting surety has been waived.

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

Sincerely,


Kenton C. Ward
Hamilton County Surveyor

KCW/stc

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

FILED

MAY 18 2020

OFFICE OF HAMILTON COUNTY SURVEYOR

IN RE: Noblesville Olio Rd and 146th St Improvements)
Hamilton County, Indiana)

PETITION FOR RELOCATION AND RECONSTRUCTION

Brueckmann, charitable remainder unitrust trustee Hillsdale College (hereinafter "Petitioner"),

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

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

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



Signed

Patrick J. Flannery, Treasurer

Printed

FINDINGS AND ORDER

CONCERNING THE PARTIAL VACATION OF THE

Mud Creek/Sand Creek Drainage Area, E. E. Bennett Arm
146th & Olio Road Roundabout Relocation

Station 80+15 to Station 96+00

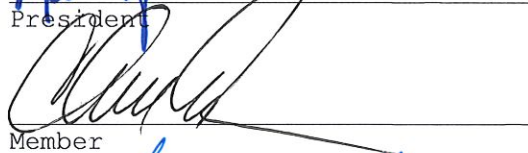
On this 23rd day of November, 2020, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Mud Creek/Sand Creek Drainage Area, E. E. Bennett Arm, 146th & Olio Road Roundabout Relocation (Station 80+15 to Station 96+00).

Evidence has been heard. Objections were presented and considered. The Board then adopted an order of action. The Board now finds that the costs of continued maintenance to the portion of the above drain exceed the benefits to the real estate benefited by the portion of the drain to be abandoned and issues this order vacating the above section of the Mud Creek/Sand Creek Drainage Area, E. E. Bennett Arm, 146th & Olio Road Roundabout Relocation (Station 80+15 to Station 96+00)

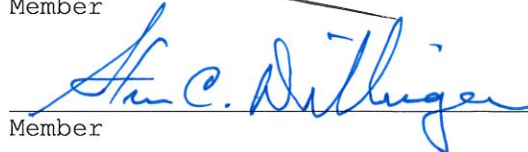
HAMILTON COUNTY DRAINAGE BOARD



President



Member



Member

Attest: 
Executive Secretary

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
**Mud Creek/Sand Creek Drainage Area, E. E. Bennett Arm, 146th & Olio
Road Roundabout Relocation**

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Mud Creek/Sand Creek Drainage Area, E. E. Bennett Arm, 146th & Olio Road Roundabout Relocation** came before the Hamilton County Drainage Board for hearing on **November 23, 2020**, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

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

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

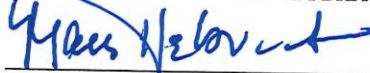
The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included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

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

Wherefore, it is ORDERED, that the proposed Reconstruction of the **Mud Creek/Sand Creek Drainage Area, E. E. Bennett Arm, 146th & Olio Road Roundabout Relocation** be and is hereby declared established.

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

HAMILTON COUNTY DRAINAGE BOARD



PRESIDENT



Member



Member

ATTEST:


Executive Secretary

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

***Mud Creek/Sand Creek Drainage Area, E. E. Bennett Arm
146th & Olio Road Roundabout Relocation***

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the **Mud Creek/Sand Creek Drainage Area, E. E. Bennett Arm, 146th & Olio Road Roundabout Relocation** on **November 23, 2020** at **9:00 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

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

IN THE MATTER OF **Mud Creek/Sand Creek Drainage Area, E. E. Bennett Arm, 146th & Olio Road Roundabout Relocation**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **November 23, 2020** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

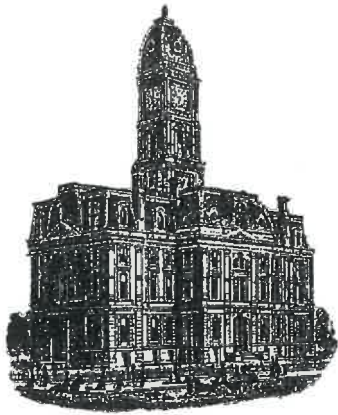
The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

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

HAMILTON COUNTY DRAINAGE BOARD

BY: Mark Heirbrandt
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY



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

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

To: Hamilton County Drainage Board

November 29, 2022

Re: Mud Creek – Sand Creek D.A.: EE Bennett Arm – 146th & Olio Rd Rndbt Relocation

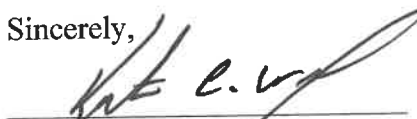
Attached are as-builts and other information for 146th St & Olio Rndbt Relocation. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated September 11, 2020. The report was approved by the Board at the hearing held November 23, 2020. (See Drainage Board Minutes Book 19, Pages 395-397) The changes are as follows: the 15" RCP was lengthened from 484 feet to 485 feet. The 72" RCP was lengthened from 898 feet to 918 feet. The open ditch was shortened from 1907 feet to 1896 feet. The length of the drain due to the changes described above is now **3299 feet**. The original 12" drain tile from station 80+15 to 96+00 was vacated with this project.

A non-enforcement was not required for this project. The relocation of the drain was constructed within existing road right of way and drainage easement obtained by the City of Noblesville (See recorder's instrument #2020041877). A surety was not required for this project as it was paid for by the City of Noblesville.

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

CITY OF NOBLESVILLE OLIO ROAD & 146th STREET ROAD PLANS AS-BUILT SURVEY

All of which is approved by the Board of Public Works and Safety of the City of Noblesville this 23rd day of JUNE 2020.

[Signature]
JACK MARTIN, PRESIDENT

[Signature]
JOHN DITSLEAR, MEMBER

[Signature]
LAURIE DYER, MEMBER

[Signature]
ROBERT J. ELMER, MEMBER

[Signature]
RICK L. TAYLOR, MEMBER

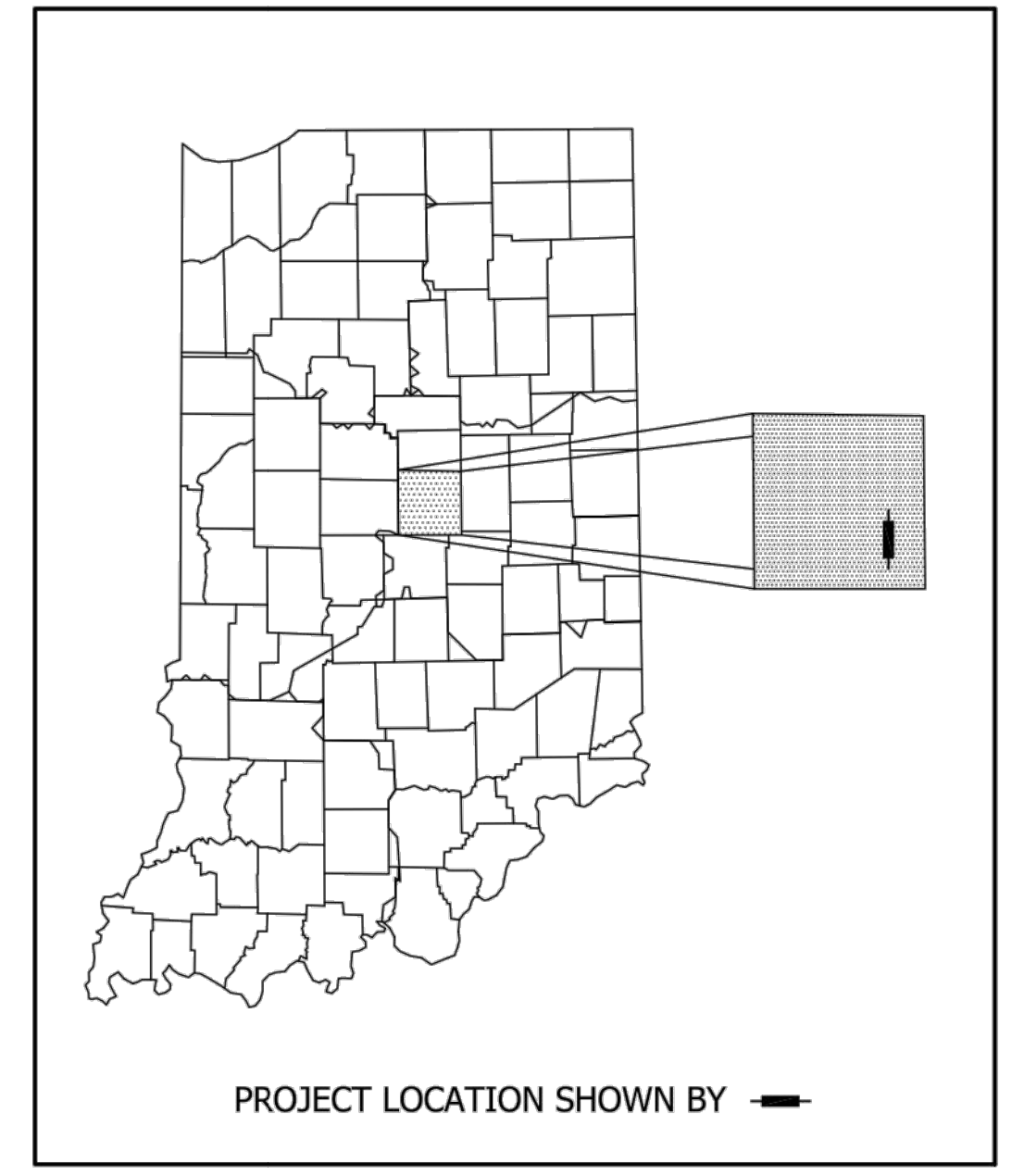
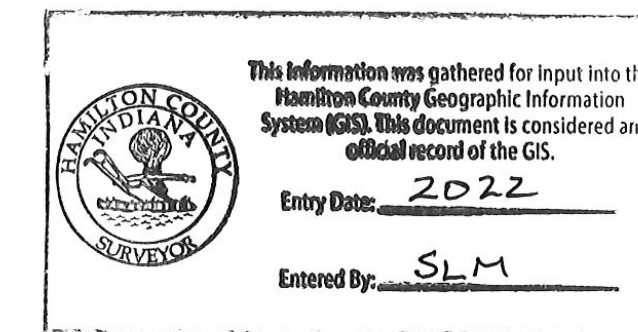
ATTEST:

[Signature]
EVELYN L. LEES, CLERK
CITY OF NOBLESVILLE, INDIANA

Roadway Improvements On Olio Road From Tegler Drive/141st Street To 146th Street And 146th Street From Bergen Drive To Olio Road In Sections 13, 14, 23 & 24, Township 18 North, Range 5 East In Fall Creek Township, Hamilton County, Indiana.

GROSS LENGTH: 0.97 MI.
NET LENGTH: 0.97 MI.

PLAN { LONG: 1" = 30'
TRANS: 1" = 30'
PROFILE { HORIZ: 1" = 30'
VERT: 1" = 5'
MAX. GRADE: 1.83%

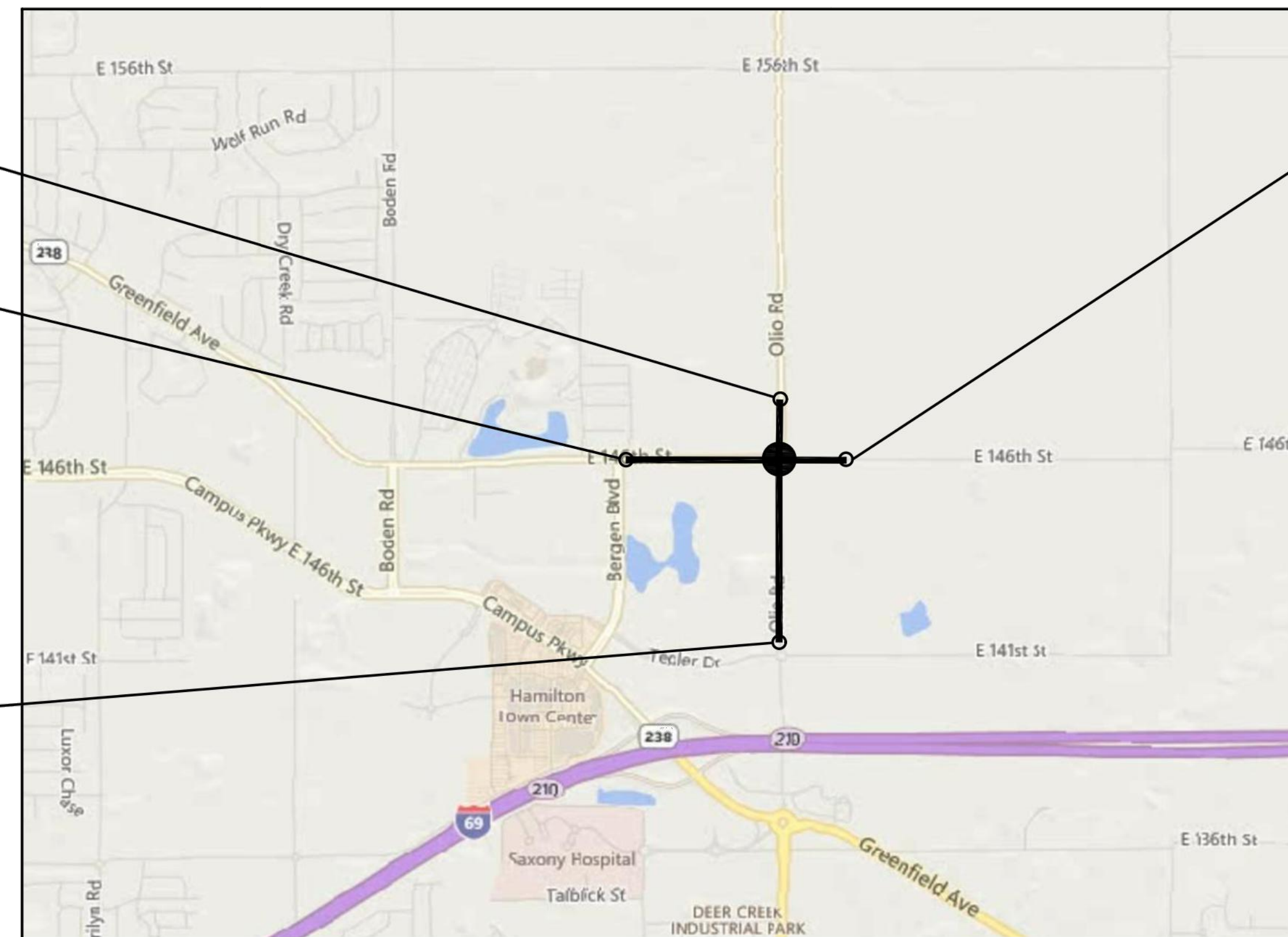


Approx. 40°00'06" N. Lat. & 85°55'08" W. Long.

END PROJECT
P.O.T. Sta. 40+10.00 "A"

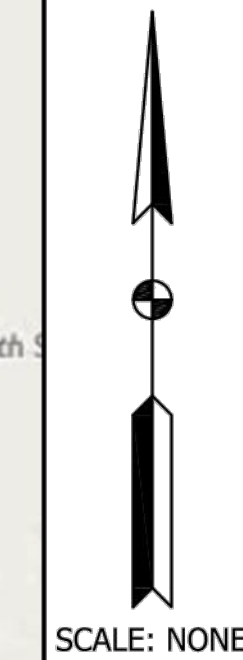
BEGIN CONSTRUCTION
P.O.T. Sta. 14+83.52 "B"

BEGIN PROJECT
P.O.T. Sta. 14+00.00 "A"



VICINITY MAP
HAMILTON COUNTY

END CONSTRUCTION
P.O.T. Sta. 39+75.00 "B"



AS-BUILT SURVEY NOTES

- THIS SURVEY WAS PERFORMED FOR THE EXPRESS PURPOSE OF RECORDING THE AS-BUILT LOCATION OF THE UTILITY COMPONENTS ASSOCIATED WITH THE OLIO ROAD & 146th STREET ROADWAY IMPROVEMENTS IN NOBLESVILLE, INDIANA.
- ITEMS SHOWN IN RED ON THESE DRAWINGS INDICATE OBSERVATIONS RECORDED AS PART OF THE AS-BUILT FIELD SURVEY COMPLETED BY BERTSCH-FRANK & ASSOCIATES, LLC. ALL OTHER INFORMATION IS SHOWN PER PLAN, WAS NOT FIELD VERIFIED AND, AS SUCH, IS NOT CERTIFIED BY BERTSCH-FRANK & ASSOCIATES.
- AS-BUILT STRUCTURE LOCATIONS ARE MEASURED TO THE CENTER OF CASTING AND MAY NOT REPRESENT THE CENTER OF ECCENTRIC STRUCTURES.
- THESE DRAWINGS ARE NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY. A ROUTE SURVEY, OR A SURVEYOR LOCATION REPORT.

AS-SURVEY CERTIFICATION

THE UNDERSIGNED LAND SURVEYOR, REGISTERED UNDER THE LAWS OF THE STATE OF INDIANA, HEREBY CERTIFIES THAT HE HAS MADE AN AS-BUILT SURVEY OF THE AREA DEPICTED. I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS PLAT REPRESENTS AN AS-BUILT SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION.

PROJECT NUMBER: 20332.100
SURVEYED FOR: E & B PAVING
DATES OF FIELDWORK: DECEMBER 9, 15, 17, 2021
JANUARY 20, 2022

IN WITNESS WHEREOF, I HEREBY PLACE MY HAND AND SEAL THIS 28th DAY OF JANUARY, 2022.



[Signature]
MATTHEW G. BERTSCH, P.E.
INDIANA REGISTERED LAND SURVEYOR NO. 20200087

NOBLESVILLE CITY STANDARDS DATED 03/14/2012 & INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 TO BE USED WITH THESE PLANS.



CAUTION
LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

UTILITIES

| | | | | | | | | | |
|--|---|--|---|---|--|---|--|---|---|
| PHONE: AT&T Distribution 240 N. Meridian St. Indianapolis, IN 46204 317-610-5472 Brad Bailey | ELECTRIC: Duke Energy- Distribution 100 S. Mill Creek Rd. Noblesville, IN 46062 317-776-5340 Dan Benson | ELECTRIC: Duke Energy- Distribution 1000 E. Main St. Plainfield, IN 46168 317-838-2044 Dwayne Wright | WATER: Indiana American Water 153 N Emerson Ave. Greenwood, IN 46143 317-885-2448 Amrit Singh | FIBER: Indiana Fiber Network 5520 W 76th St. Indianapolis, IN 46268 317-280-4636 Keith Hamm | FIBER: Zayo Bandwidth 9209 Castlegate Dr. Indianapolis, IN 46256 765-341-1199 Waylon Higgins | TELECOM: CenturyLink 1902 S. East St. Indianapolis, IN 46225 317-916-2708 Dewayne Johnson | SANITARY: City of Noblesville 165 S. 10th St. Noblesville, IN 46061 317-776-6330 Andrew Rodewald | GAS: Vectren Energy Distribution 16000 Allisonville Rd. Noblesville, IN 46061 317-776-5574 Shawn Williams | GAS: Vectren Energy Transmission 16000 Allisonville Rd. Noblesville, IN 46061 317-776-5509 Kathryn Touloukian |
|--|---|--|---|---|--|---|--|---|---|

Headquarters
8450 WESTFIELD BLVD., SUITE 300
INDIANAPOLIS, IN 46240-8302
TEL 317-713-4615
FAX 317-713-4616
www.BFSEngr.com



CERTIFIED BY: *[Signature]*

DATE: 7/10/20

Branch Locations
FORT WAYNE 260-459-1532
LOUISVILLE 502-593-1996
LAFAYETTE 765-423-5802
MERRILLVILLE 219-769-2333
PLAINFIELD 317-839-3242



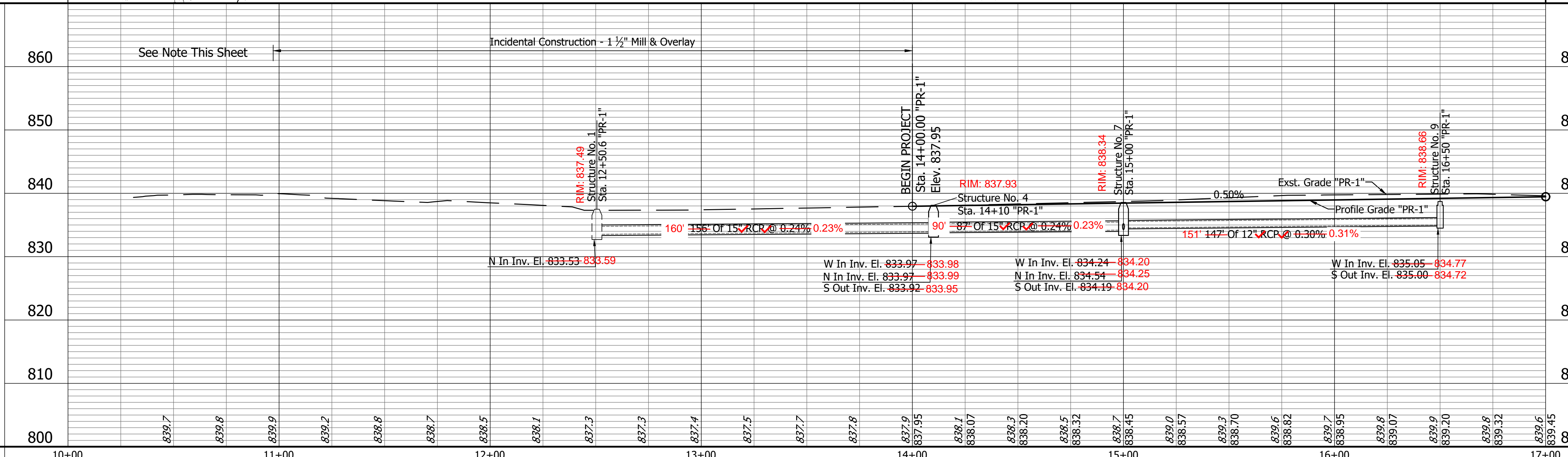
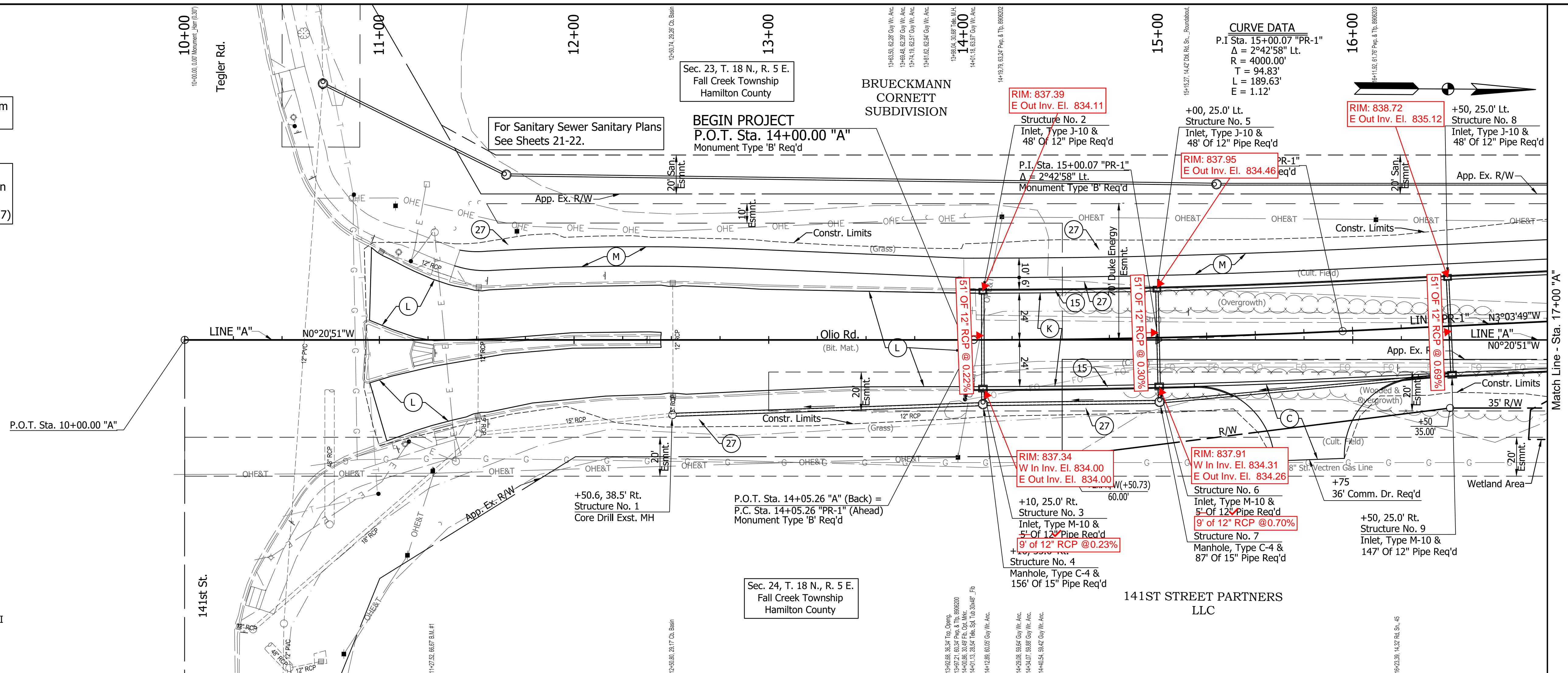
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| FILE | |
| DESIGNATION | |
| SURVEY BOOK | SHEET |
| CONTRACT | OF |
| EN-292 | 99 |
| PROJECT | |

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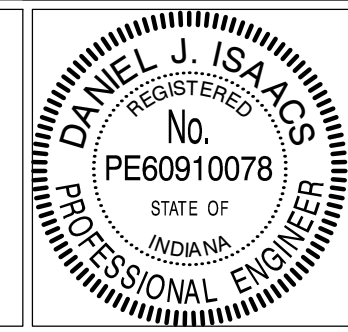
All R/W On This Sheet Described From Line "A" Unless Otherwise Noted.

NOTE: Incidental Construction Req'd for Signage and Pavement Marking on Olio Rd. (See Sht. 37) and Drive Construction on 141st St. (See Sht. 17)

- LEGEND**
- (C) Concrete Pavement for Drives, 8"
 - (K) HMA Pavement (See Typical)
 - (L) 1 1/2" Mill & Overlay
 - (15) 2' Combined Conc. Curb & Gutter, Type II
 - (27) Seed Mixture, Type 'U'



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RECOMMENDED FOR APPROVAL: *Daniel Isaacs* 7/10/20
 DESIGNER ENGINEER DATE

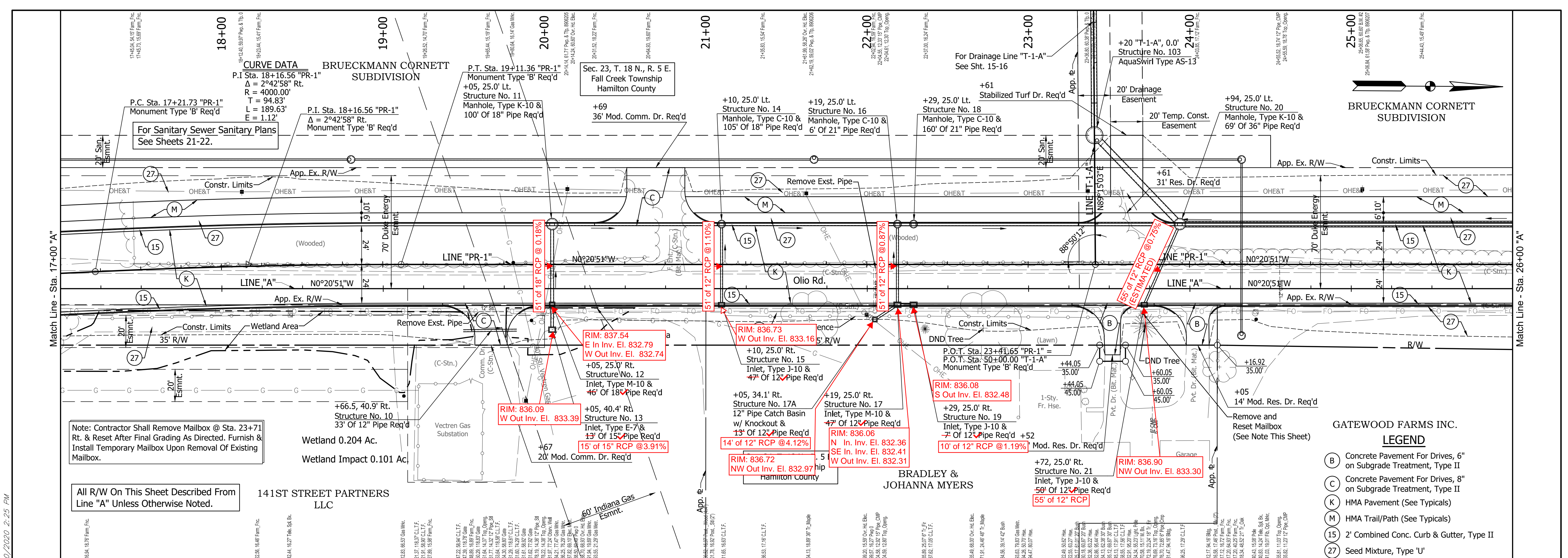
DESIGNED: DJI DRAWN: BEH
 CHECKED: ACE CHECKED: DJI

PLAN & PROFILE
LINE "A"
OLIO ROAD
INDIANA

Headquarters
 8450 WESTFIELD BLVD., SUITE 300
 INDIANAPOLIS, IN 46240-8302
 TEL 317-713-4615
 FAX 317-713-4616
 www.BFSeng.com

Branch Locations
 FORT WAYNE 260-459-1532
 LOUISVILLE 502-593-1996
 LAFAYETTE 765-423-5602
 MERRILLVILLE 219-769-2333
 PLAINFIELD 317-839-3242

| | |
|------------------------------|-------------|
| HORIZONTAL SCALE 1" = 30' | BRIDGE FILE |
| VERTICAL SCALE 1" = 5' | DESIGNATION |
| SURVEY BOOK | SHEET |
| CONTRACT EN-292 | 7 OF 99 |
| | PROJECT |

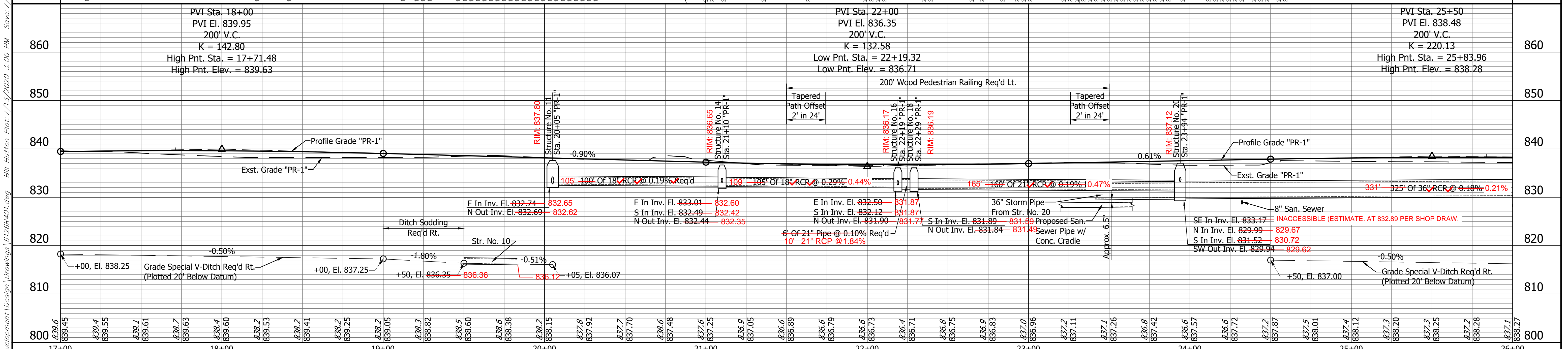


CURVE DATA
 P.I. Sta. 18+16.56 "PR-1"
 $\Delta = 2^{\circ}42'58"$ Rt.
 $R = 4000.00'$
 $T = 94.83'$
 $L = 189.63'$
 $E = 1.12'$

Note: Contractor Shall Remove Mailbox @ Sta. 23+71 Rt. & Reset After Final Grading As Directed. Furnish & Install Temporary Mailbox Upon Removal Of Existing Mailbox.

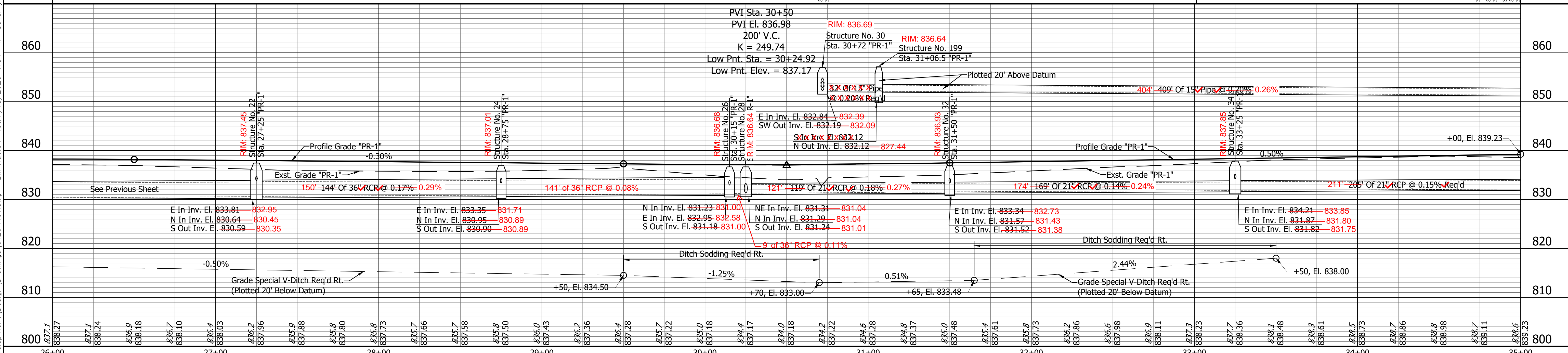
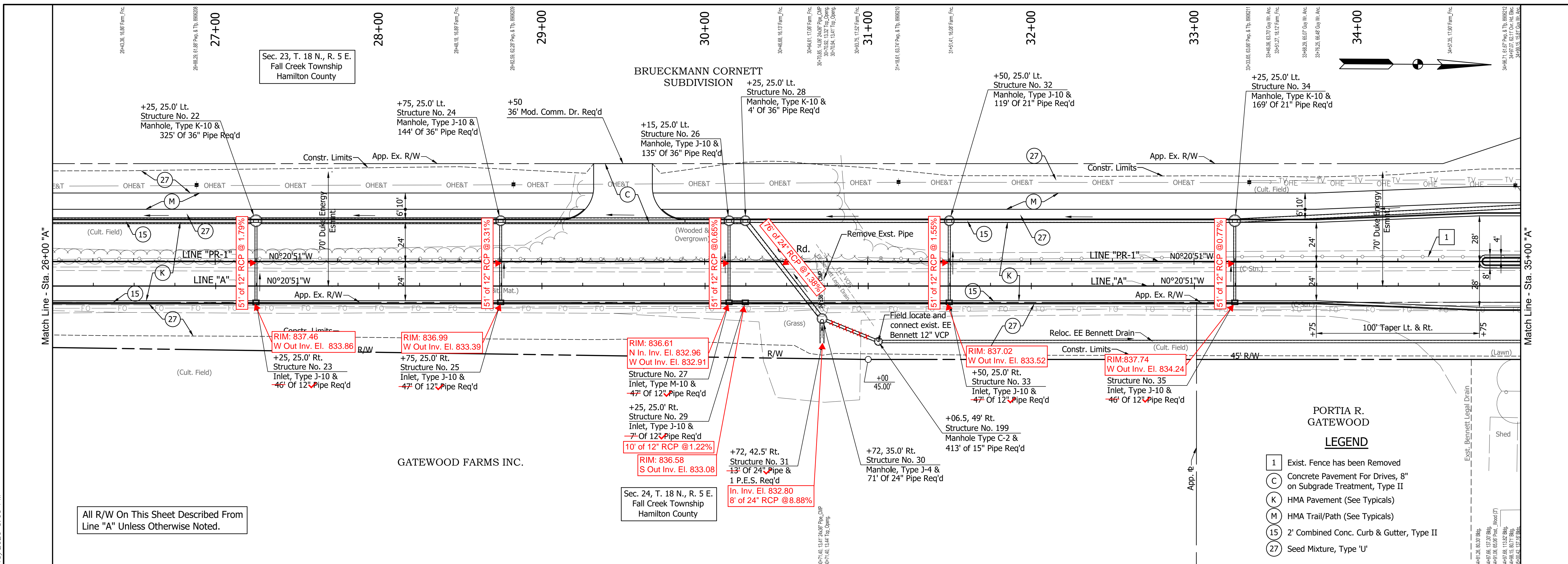
All R/W On This Sheet Described From Line "A" Unless Otherwise Noted.

- GATEWOOD FARMS INC. LEGEND**
- (B) Concrete Pavement For Drives, 6" on Subgrade Treatment, Type II
 - (C) Concrete Pavement For Drives, 8" on Subgrade Treatment, Type II
 - (K) HMA Pavement (See Typical)
 - (M) HMA Trail/Path (See Typical)
 - (15) 2' Combined Conc. Curb & Gutter, Type II
 - (27) Seed Mixture, Type 'U'



| | | | | | |
|--|---|--|--|---------------------------|--------------------|
| | RECOMMENDED FOR APPROVAL: <i>Daniel Isaacs</i> 7/10/20 DATE | PLAN & PROFILE LINE "A" OLIO ROAD INDIANA | HORIZONTAL SCALE 1" = 30' | BRIDGE FILE | |
| | DESIGNED: DJI DRAWN: BEH | | NOBLESVILLE | VERTICAL SCALE 1" = 5' | DESIGNATION |
| | CHECKED: ACE CHECKED: DJI | | Headquarters 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240-8302 TEL 317-713-4615 FAX 317-713-4616 www.B&Seng.com | SURVEY BOOK | SHEET |
| | | | Branch Locations FORT WAYNE 260-459-1532 LOUISVILLE 502-583-1996 LAFAYETTE 765-423-5602 MERRILLVILLE 219-768-2333 PLAINFIELD 317-839-3242 | CONTRACT EN-292 | 8 OF 99 PROJECT |

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PLAN & PROFILE LINE "A" OLIO ROAD INDIANA

RECOMMENDED FOR APPROVAL: Daniel J. Isaacs, REGISTERED PROFESSIONAL ENGINEER, No. PE60910078, STATE OF INDIANA

DESIGNED: DJI **DRAWN:** BEH **CHECKED:** ACE

DATE: 7/10/20

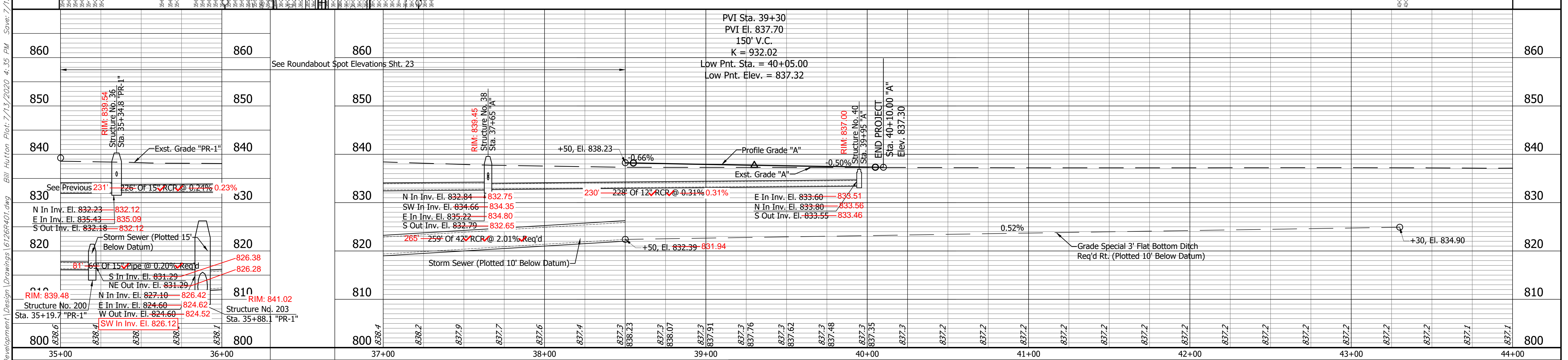
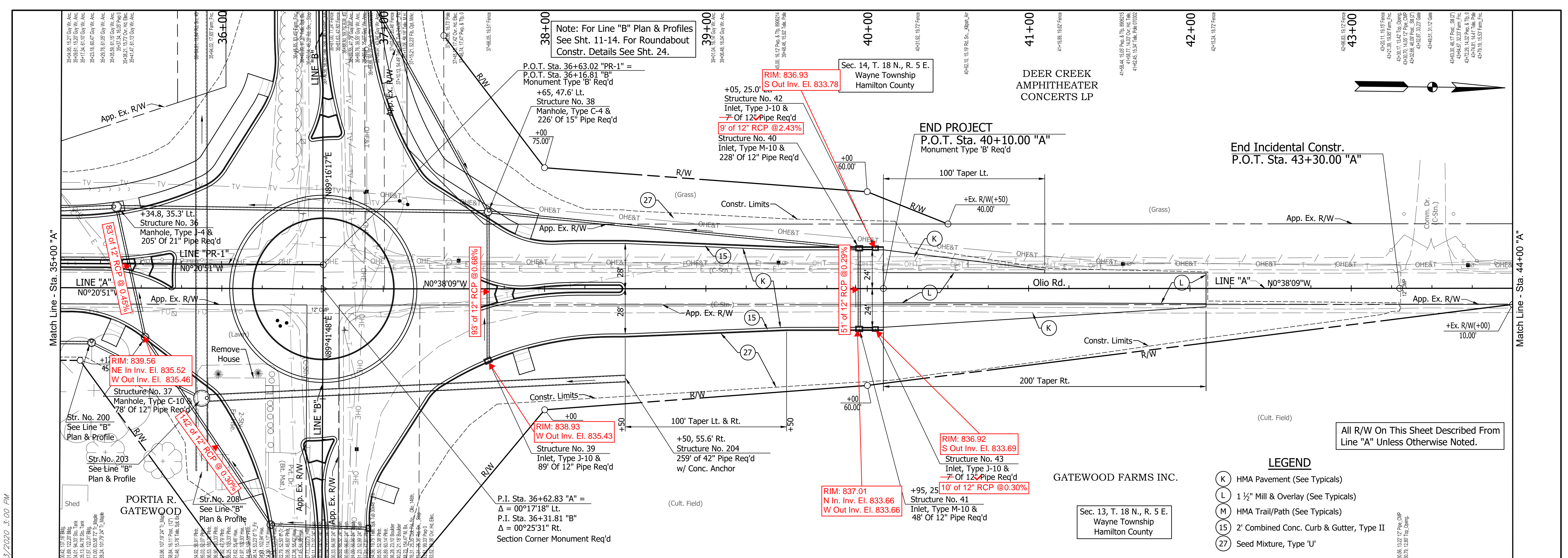
NOBLESVILLE INDIANA

BRIDGE FILE: 6126

DESIGNATION: 9 OF 99

PROJECT: EN-292

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RECOMMENDED FOR APPROVAL: *Daniel J. Isaacs* 7/10/20 DATE

DESIGNER ENGINEER

DESIGNED: DJI DRAWN: BEH

CHECKED: ACE CHECKED: DJI

NOBLESVILLE INDIANA

Headquarters
8450 WESTFIELD BLVD., SUITE 300
INDIANAPOLIS, IN 46240-8302
TEL 317-713-4615
FAX 317-713-4616
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LAFAYETTE 765-423-5602
MERRILLVILLE 219-768-2333
PLAINFIELD 317-839-3242

PLAN & PROFILE
LINE "A"
OLLO ROAD

HORIZONTAL SCALE
1" = 30'

VERTICAL SCALE
1" = 5'

SURVEY BOOK

BRIDGE FILE
DESIGNATION

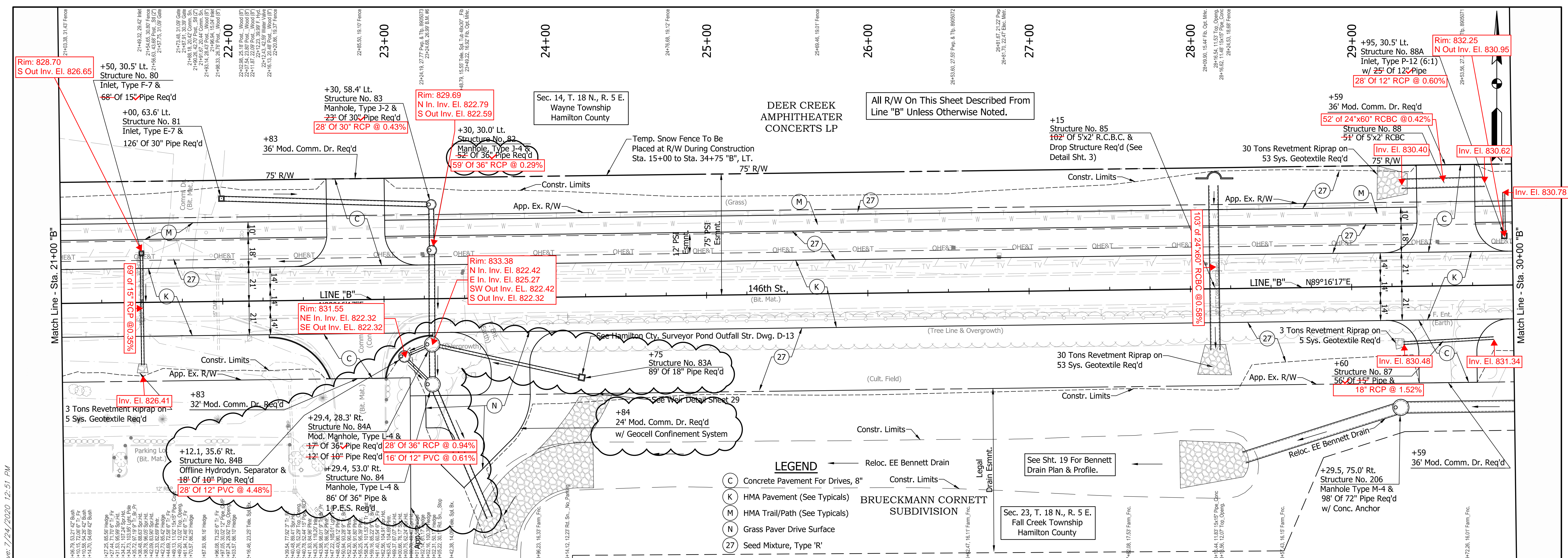
10 OF 99 SHEET

CONTRACT EN-292 PROJECT

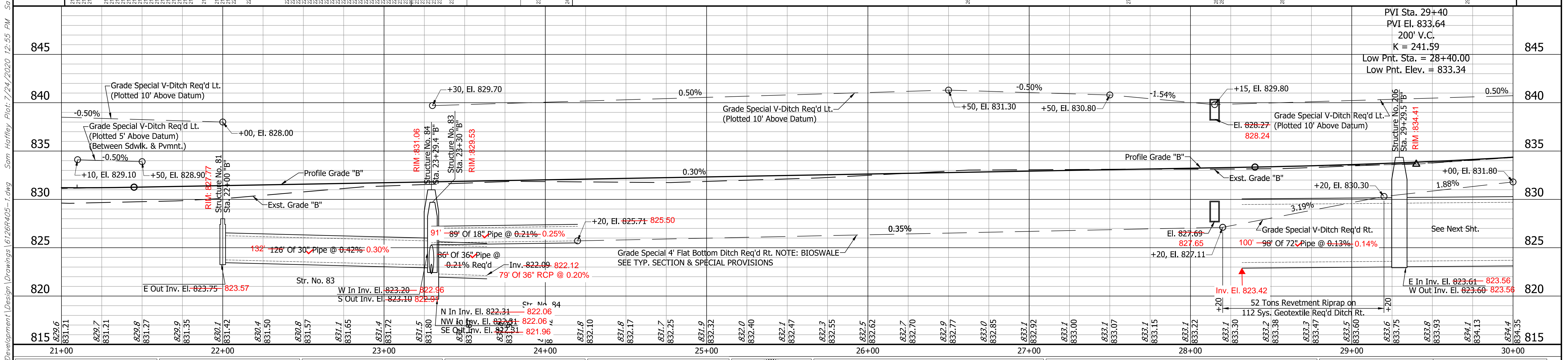
6126

BFS NO.

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H:\1612600\00001\Proj\Development\Design\Drawings\61266405-1.dwg Som Hatfield Plot: 7/24/2020 12:55 PM Save: 7/24/2020 12:51 PM



RECOMMENDED FOR APPROVAL: *Daniel Isaacs* 7/10/20
DESIGN ENGINEER DATE

DESIGNED: DJI DRAWN: BEH
CHECKED: ACE CHECKED: DJI

PLAN & PROFILE
LINE "B"
146th ST.

NOBLESVILLE INDIANA

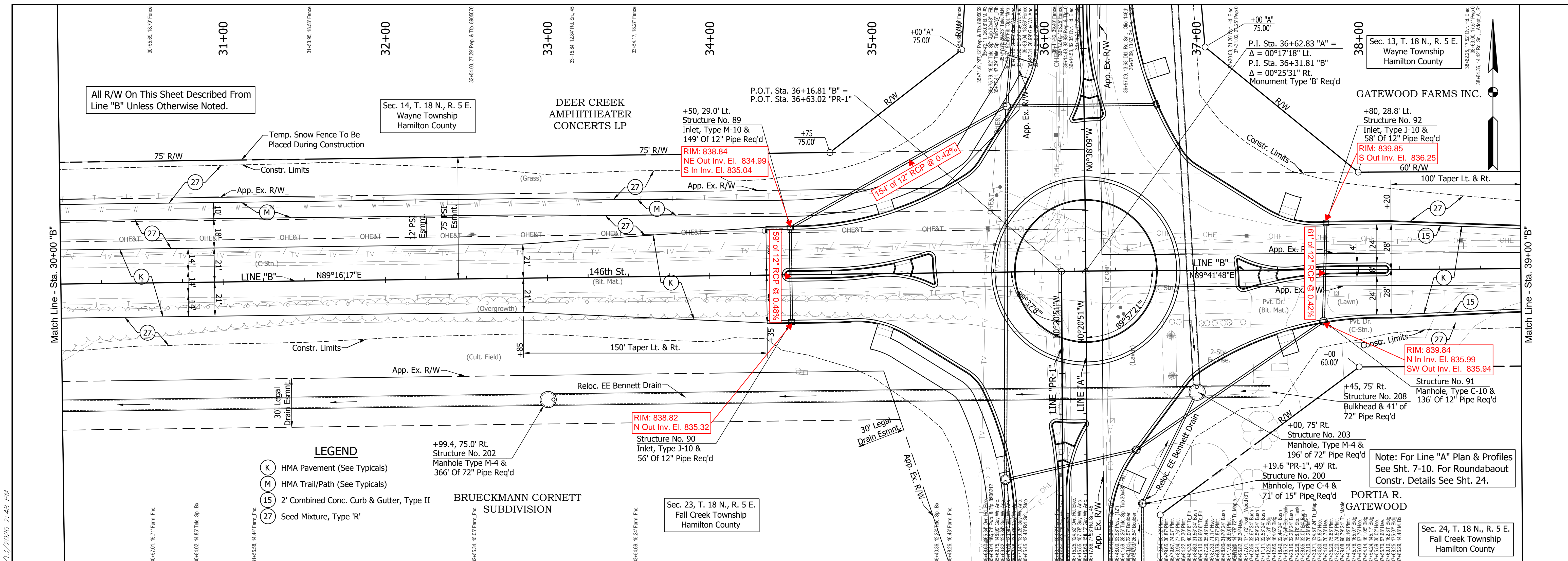
Headquarters: 8450 WESTFIELD BLVD., SUITE 300
INDIANAPOLIS, IN 46240-8302
TEL: 317-713-4815
FAX: 317-713-4616
www.BFSengr.com

Branch Locations:
FORT WAYNE 260-459-1532
LOUISVILLE 502-593-1996
LAFAYETTE 785-423-8662
MERRILLVILLE 219-769-2333
PLAINFIELD 317-839-3242

| | |
|------------------------------|-------------------|
| HORIZONTAL SCALE 1" = 30' | BRIDGE FILE |
| VERTICAL SCALE 1" = 5' | DESIGNATION |
| SURVEY BOOK | SHEET 12 OF 99 |
| CONTRACT EN-292 | PROJECT |

BFS NO. 6126

Revised 7/24/2020: Revised Str. 84B, Str 84, 82, and 84A Locations and Pipe Lengths, Drive Material
NOTE: All subsequent showings of pipe network should reflect this change.



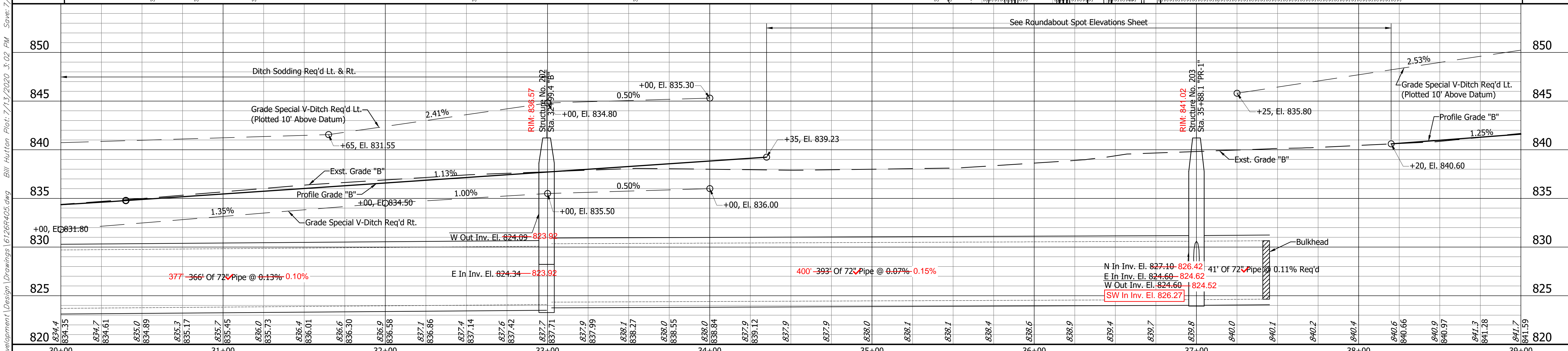
- LEGEND**
- (K) HMA Pavement (See Typical)
 - (M) HMA Trail/Path (See Typical)
 - (15) 2' Combined Conc. Curb & Gutter, Type II
 - (27) Seed Mixture, Type 'R'

+99.4, 75.0' Rt. Structure No. 202 Manhole Type M-4 & 366' Of 72" Pipe Req'd

RIM: 838.82
N Out Inv. El. 835.32

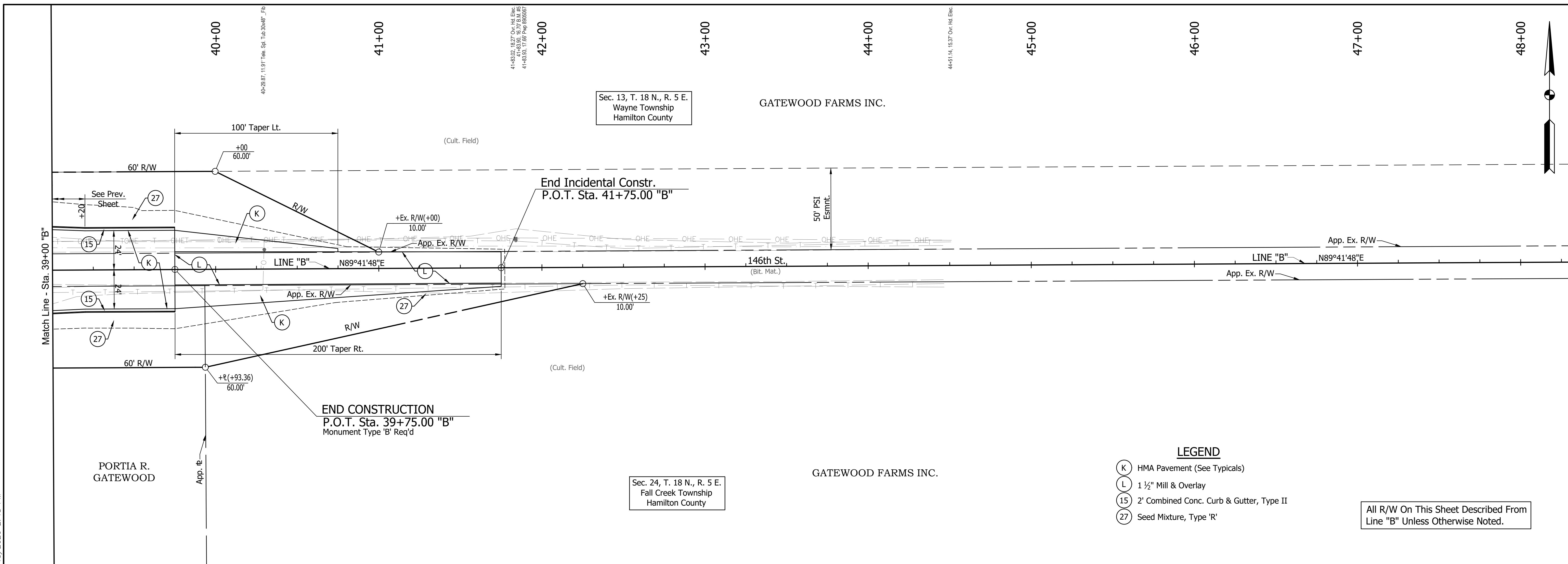
Structure No. 90 Inlet, Type J-10 & 56' Of 12" Pipe Req'd

Note: For Line "A" Plan & Profiles See Sht. 7-10. For Roundabout Constr. Details See Sht. 24.

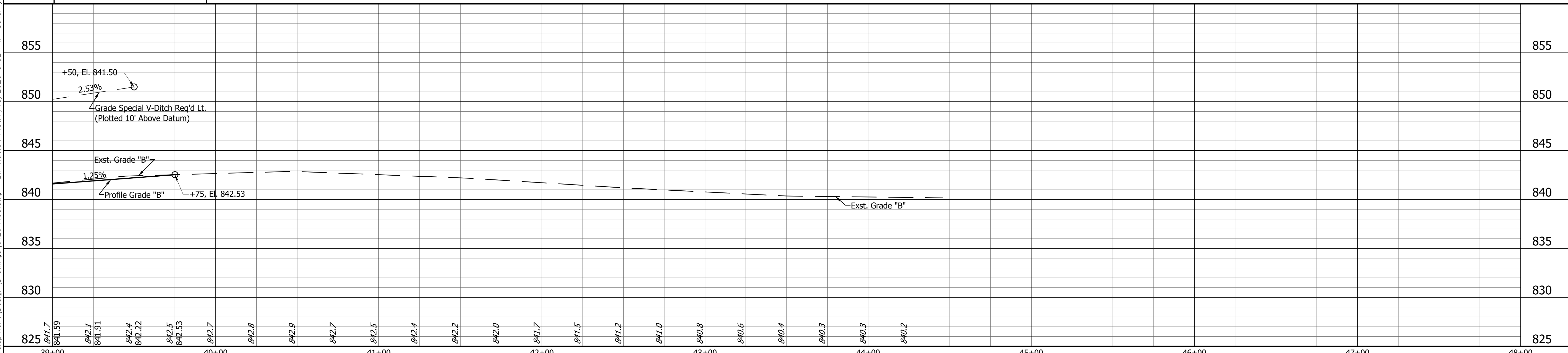


| | | | | | |
|---------------|------------|--|--|---|--|
| | | RECOMMENDED FOR APPROVAL: <i>Daniel Isaacs</i> 7/10/20 DESIGNER ENGINEER DATE | PLAN & PROFILE LINE "B" 146th ST. INDIANA | HORIZONTAL SCALE 1" = 30' VERTICAL SCALE 1" = 5' SURVEY BOOK CONTRACT EN-292 | BRIDGE FILE DESIGNATION SHEET 13 OF 99 PROJECT |
| DESIGNED: DJI | DRAWN: BEH | CHECKED: ACE | CHECKED: DJI | Headquaters 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240-8302 TEL 317-713-4615 FAX 317-713-4616 www.B&Seng.com | |

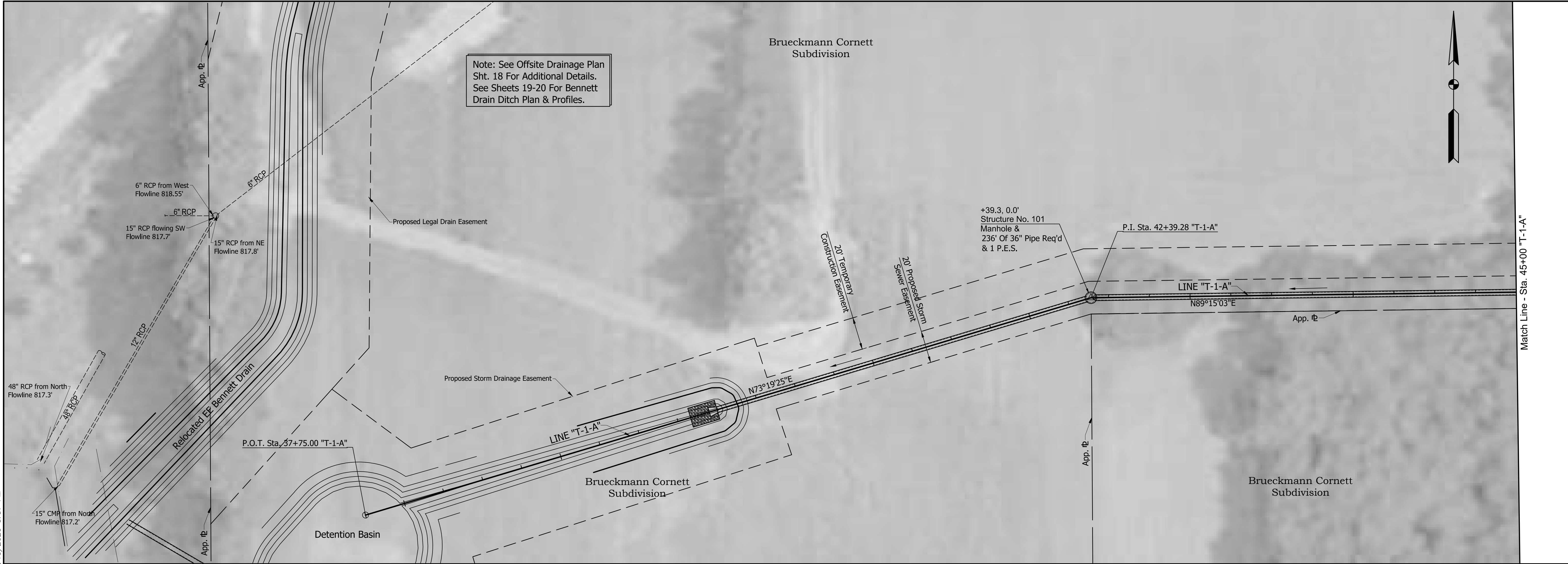
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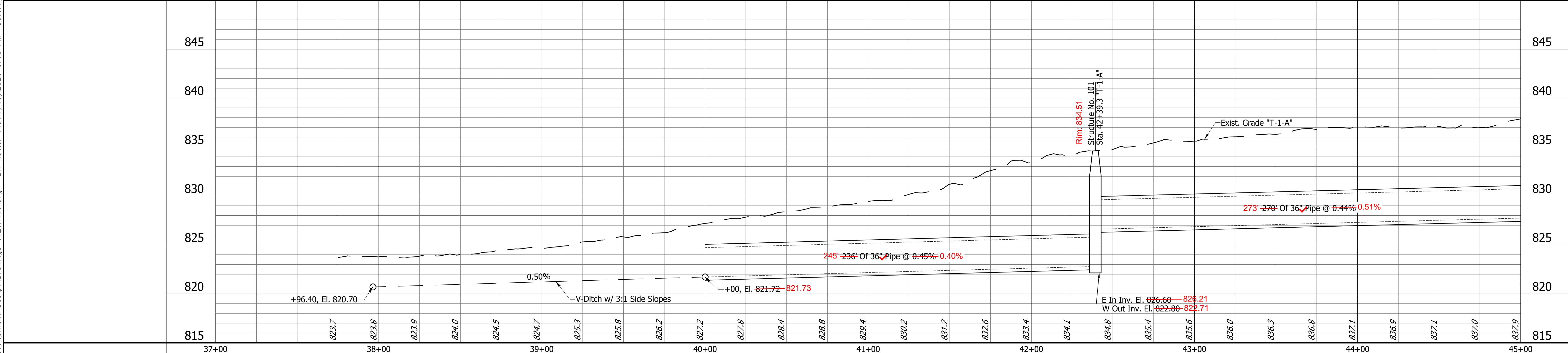
- LEGEND**
- (K) HMA Pavement (See Typical)
 - (L) 1 1/2" Mill & Overlay
 - (15) 2' Combined Conc. Curb & Gutter, Type II
 - (27) Seed Mixture, Type 'R'
- All R/W On This Sheet Described From Line "B" Unless Otherwise Noted.



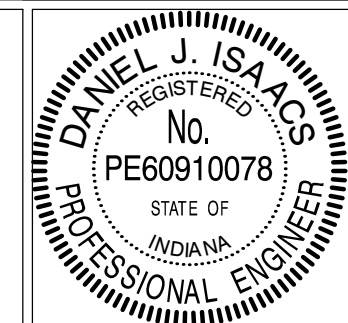
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|--|--|--|--|---|------------------------------|-------------------|
| H:\1612600.0000\ProDevelopment\Design Drawings\16126R405.dwg Bill Hutton Plot: 7/13/2020 3:02 PM Save: 7/13/2020 2:48 PM | | | RECOMMENDED FOR APPROVAL: <i>Daniel Isaacs</i> 7/10/20 DESIGN ENGINEER DATE | PLAN & PROFILE LINE "B" 146th ST. INDIANA | HORIZONTAL SCALE 1" = 30' | BRIDGE FILE |
| | | | DESIGNED: DJI DRAWN: BEH CHECKED: ACE CHECKED: DJI | | VERTICAL SCALE 1" = 5' | DESIGNATION |
| | | | Headquaters 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240-8302 TEL 317-713-4615 FAX 317-713-4616 www.BFSeng.com | | SURVEY BOOK | SHEET 14 OF 99 |
| | | | Branch Locations FORT WAYNE 260-459-1532 LOUISVILLE 502-593-1996 LAFAYETTE 765-423-5602 MERRILLVILLE 219-768-2333 PLAINFIELD 317-839-3242 | CONTRACT EN-292 | PROJECT | BFS NO. 6126 |



Note: See Offsite Drainage Plan Sht. 18 For Additional Details. See Sheets 19-20 For Bennett Drain Ditch Plan & Profiles.

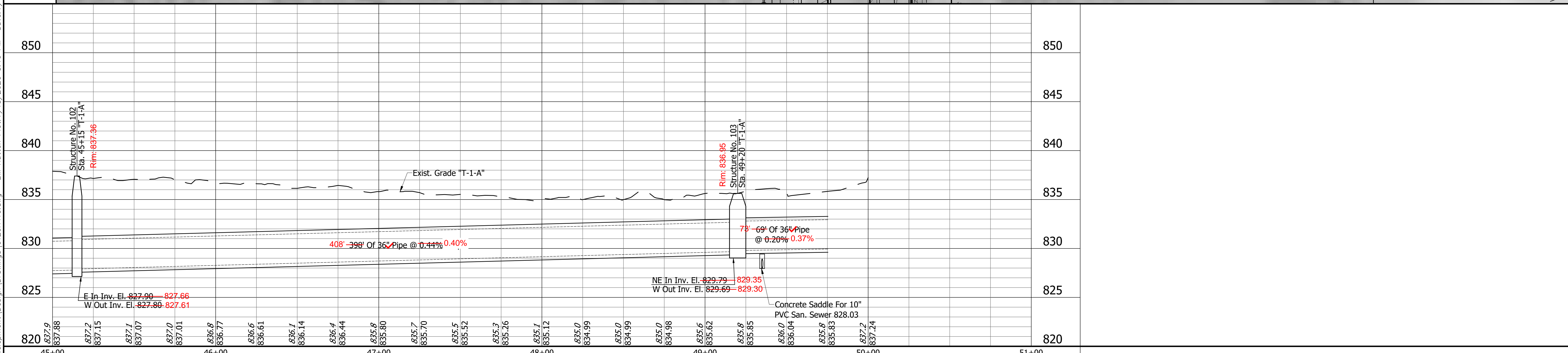
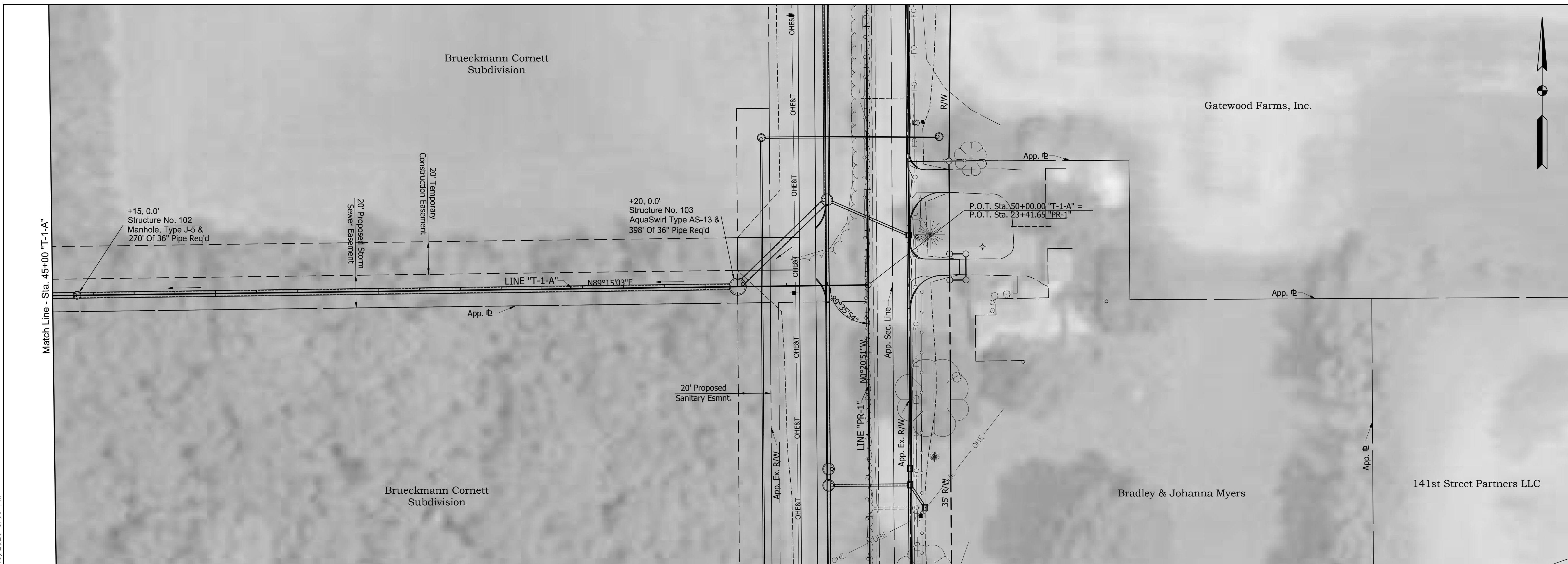


| | | | | | |
|---|------------------------------|--|---|---|---|
| RECOMMENDED FOR APPROVAL: <i>Daniel J. Isaacs</i> 7/10/20 DESIGN ENGINEER DATE | | OLIO ROAD STORMWATER OUTFALL LINE "T-1-A" INDIANA | | HORIZONTAL SCALE 1" = 30' VERTICAL SCALE 1" = 5' | BRIDGE FILE DESIGNATION SHEET 15 OF 99 |
| DESIGNED: DJI DRAWN: BEH | CHECKED: ACE CHECKED: DJI | Headquarters 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240-8302 TEL 317-713-4615 FAX 317-713-4616 www.B&Seng.com | B&S Butler Tatum & Seuffer Branch Locations FORT WAYNE LOUISVILLE LAFAYETTE MERRILLVILLE PLAINFIELD 260-459-1532 502-593-1996 765-423-5602 219-768-2333 317-839-3242 | SURVEY BOOK CONTRACT EN-292 | PROJECT |

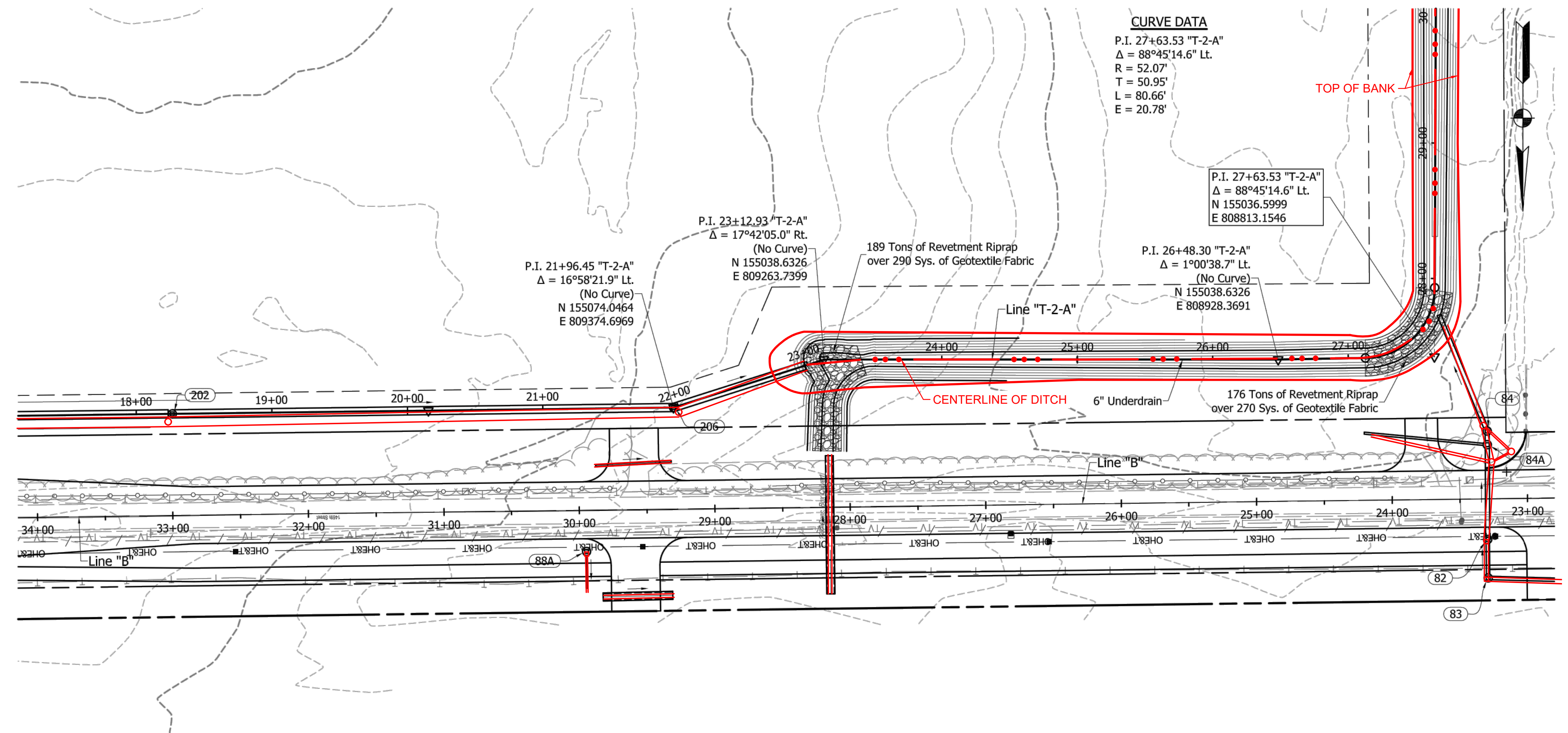


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H:\1612600.0000\ProDevelopment\Design Drawings\6126PR410.dwg Bill Hutton Plot: 7/13/2020 3:10 PM Save: 7/13/2020 3:09 PM



| | | | | | |
|---|--|--|--|--------------------------------------|---------------------------|
| <p>RECOMMENDED FOR APPROVAL: <i>Daniel J. Isaacs</i> 7/10/20 DESIGN ENGINEER DATE</p> | | <p>OLIO ROAD STORMWATER OUTFALL LINE "T-1-A" INDIANA</p> | | <p>HORIZONTAL SCALE 1" = 30'</p> | <p>BRIDGE FILE</p> |
| <p>DESIGNED: DJI DRAWN: BEH</p> | | <p>Headquarters 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240-8302 TEL 317-713-4615 FAX 317-713-4616 www.B&Seng.com</p> | | <p>VERTICAL SCALE 1" = 5'</p> | <p>DESIGNATION</p> |
| <p>CHECKED: ACE CHECKED: DJI</p> | | <p>Branch Locations FORT WAYNE 260-459-1532 LOUISVILLE 502-593-1996 LAFAYETTE 765-423-5602 MERRILLVILLE 219-768-2333 PLAINFIELD 317-839-3242</p> | | <p>SURVEY BOOK</p> | <p>SHEET 16 OF 99</p> |
| | | | | <p>CONTRACT EN-292</p> | <p>PROJECT</p> |



CURVE DATA

P.I. 27+63.53 "T-2-A"
 $\Delta = 88^\circ 45' 14.6''$ Lt.
 R = 52.07'
 T = 50.95'
 L = 80.66'
 E = 20.78'

P.I. 27+63.53 "T-2-A"
 $\Delta = 88^\circ 45' 14.6''$ Lt.
 N 155036.5999
 E 808813.1546

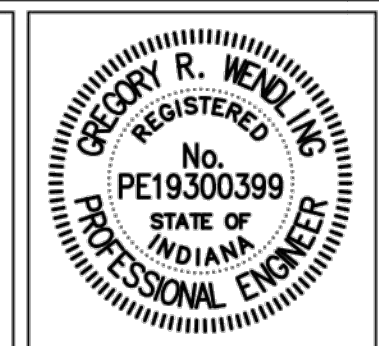
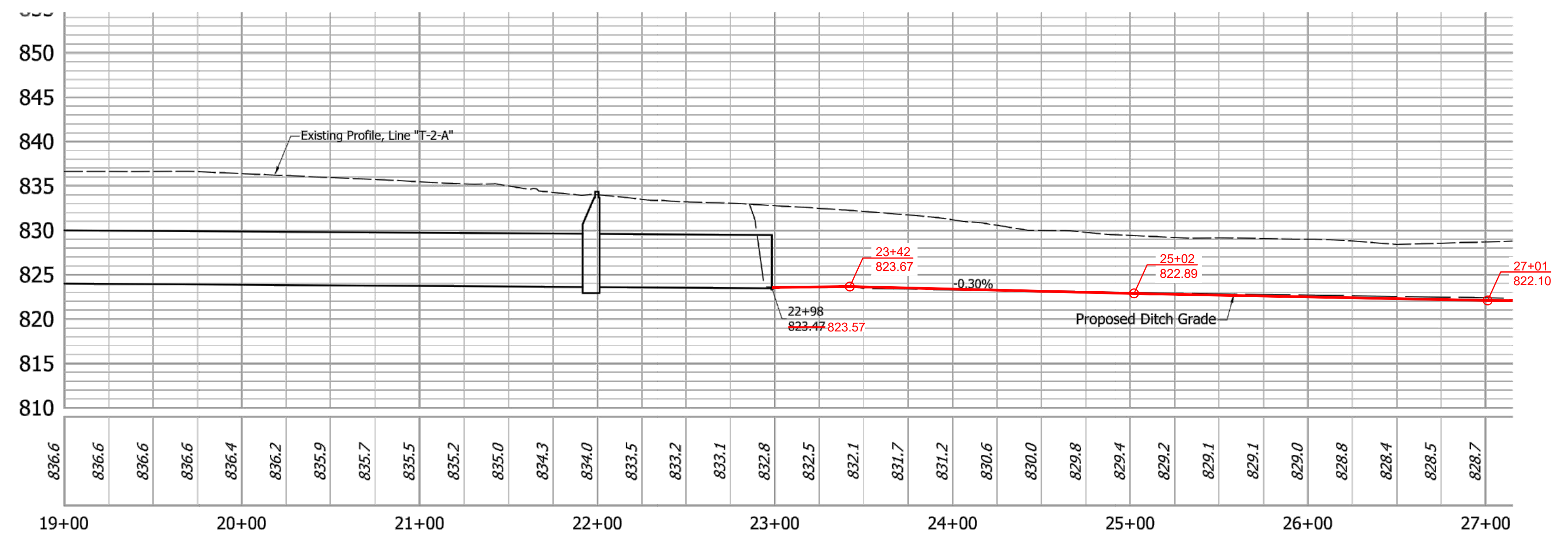
P.I. 21+96.45 "T-2-A"
 $\Delta = 16^\circ 58' 21.9''$ Lt.
 (No Curve)
 N 155074.0464
 E 809374.6969

P.I. 23+12.93 "T-2-A"
 $\Delta = 17^\circ 42' 05.0''$ Rt.
 (No Curve)
 N 155038.6326
 E 809263.7399

P.I. 26+48.30 "T-2-A"
 $\Delta = 1^\circ 00' 38.7''$ Lt.
 (No Curve)
 N 155038.6326
 E 808928.3691

189 Tons of Revetment Riprap
 over 290 Sys. of Geotextile Fabric

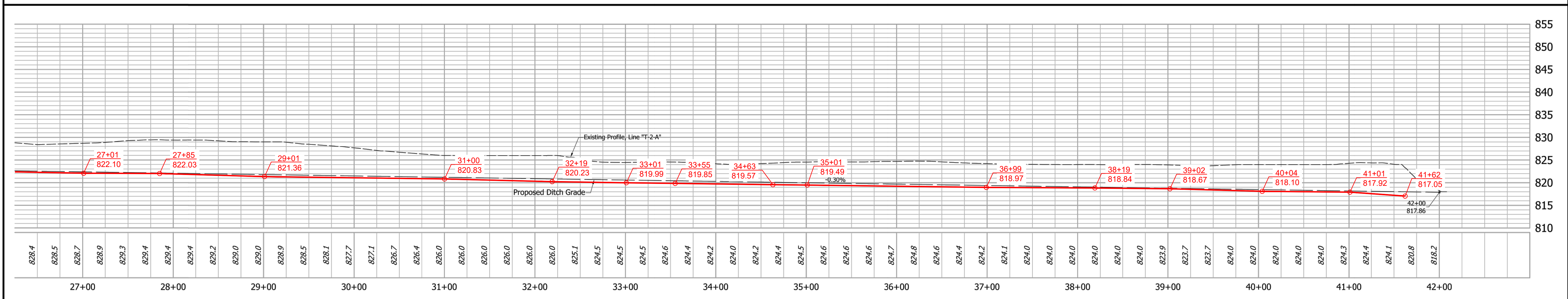
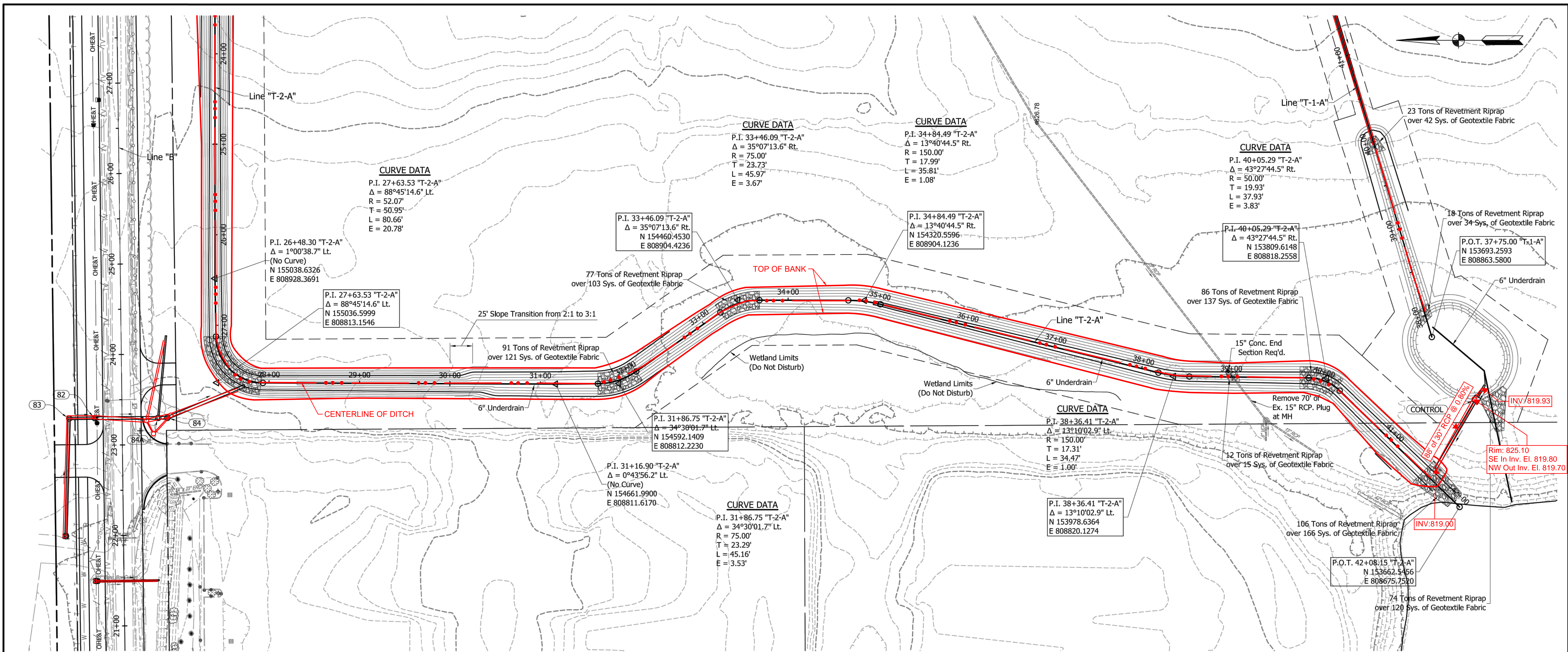
176 Tons of Revetment Riprap
 over 270 Sys. of Geotextile Fabric



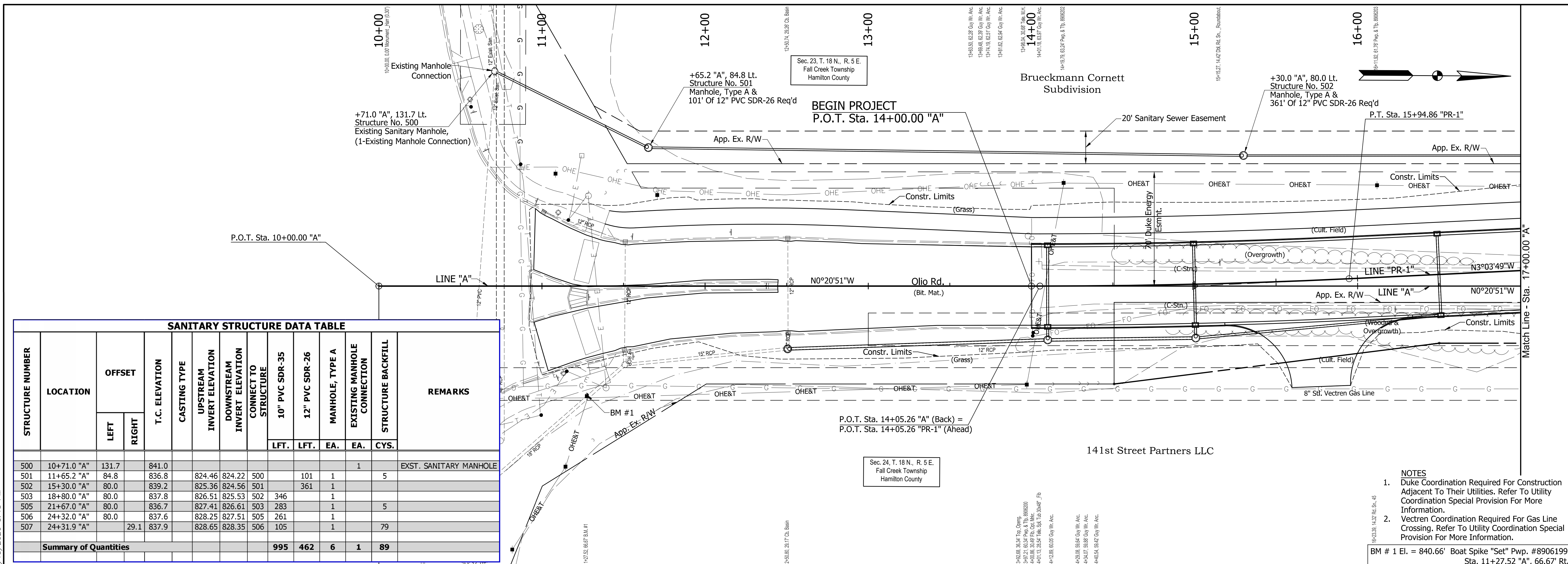
RECOMMENDED FOR APPROVAL: *G.R. Wendling* 7-10-2020
 DESIGN ENGINEER
 DESIGNED: NM DRAWN: CC
 CHECKED: WH CHECKED: WH

CITY OF NOBLESVILLE
 OLIO RD & 141ST ST
 BENNETT DRAIN / DETENTION

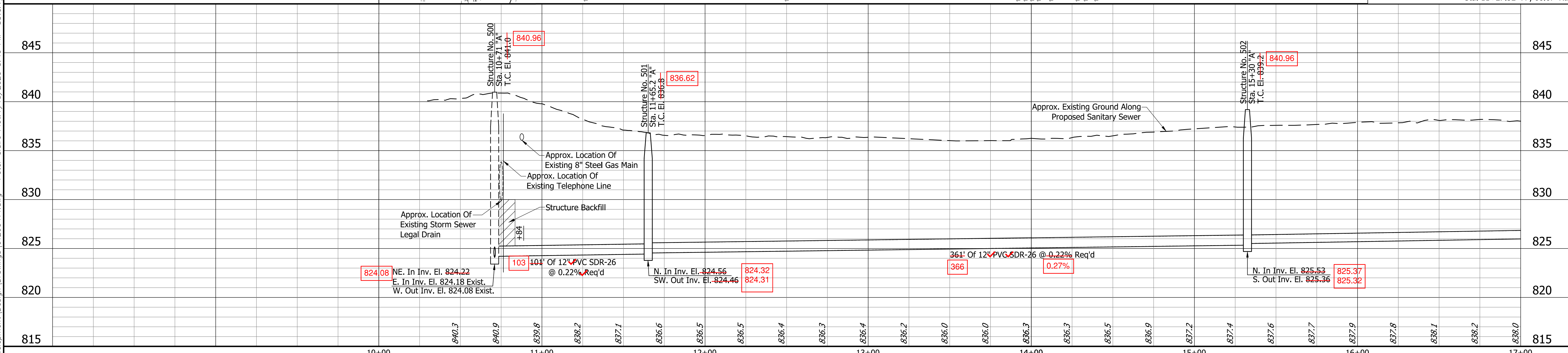
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|------------------------------|---------------------|
| HORIZONTAL SCALE 1" = 50' | BRIDGE FILE |
| VERTICAL SCALE 1" = 10' | DESIGNATION |
| SURVEY BOOK | SHEETS |
| CONTRACT EN-292 | 19 of 99 PROJECT |



| | | | | |
|--|--|---|--|---|
| | RECOMMENDED FOR APPROVAL <i>G. R. Wendling</i> DESIGN ENGINEER 7-10-2020 | CITY OF NOBLESVILLE OLIO RD & 141ST ST BENNETT DRAIN / DETENTION | HORIZONTAL SCALE 1" = 50' VERTICAL SCALE 1" = 10' SURVEY BOOK CONTRACT EN-292 | BRIDGE FILE DESIGNATION SHEETS 20 of 99 PROJECT |
| | DESIGNED: NM DRAWN: CC CHECKED: WH CHECKED: WH | | | |



| SANITARY STRUCTURE DATA TABLE | | | | | | | | | | | | | | | | |
|-------------------------------|-------------|--------|-------|----------------|--------------|---------------------------|-----------------------------|----------------------|----------------|------------|----------------|----------|-----------------|-----------------------------|--------------------|------------------------|
| STRUCTURE NUMBER | LOCATION | OFFSET | | T.C. ELEVATION | CASTING TYPE | UPSTREAM INVERT ELEVATION | DOWNSTREAM INVERT ELEVATION | CONNECT TO STRUCTURE | 10" PVC SDR-35 | | 12" PVC SDR-26 | | MANHOLE, TYPE A | EXISTING MANHOLE CONNECTION | STRUCTURE BACKFILL | REMARKS |
| | | LEFT | RIGHT | | | | | | LFT. | LFT. | EA. | EA. | | | | |
| 500 | 10+71.0 "A" | 131.7 | | 841.0 | | | | | | | | | | | 1 | EXST. SANITARY MANHOLE |
| 501 | 11+65.2 "A" | 84.8 | | 836.8 | | 824.46 | 824.22 | 500 | | 101 | 1 | | | | 5 | |
| 502 | 15+30.0 "A" | 80.0 | | 839.2 | | 825.36 | 824.56 | 501 | | 361 | 1 | | | | 1 | |
| 503 | 18+80.0 "A" | 80.0 | | 837.8 | | 826.51 | 825.53 | 502 | 346 | | | | | | 1 | |
| 505 | 21+67.0 "A" | 80.0 | | 836.7 | | 827.41 | 826.61 | 503 | 283 | | | | | | 5 | |
| 506 | 24+32.0 "A" | 80.0 | | 837.6 | | 828.25 | 827.51 | 505 | 261 | | | | | | 1 | |
| 507 | 24+31.9 "A" | 29.1 | | 837.9 | | 828.65 | 828.35 | 506 | 105 | | | | | | 1 | |
| Summary of Quantities | | | | | | | | | 995 | 462 | 6 | 1 | 89 | | | |



68.98' 200° Az
Line "A"
Olivo Rd.
Mag Nail 10.162'
P.O.T. Sta. 23+00.00 "A"
Mag Nail (Set 9/20/2018)

Mag Nail Wd. Fnc. Post
M-Box Post 71.41'
20° Az
Pvt. Dr. (Bit. Mat.)

MARK CHMELIWSKY
REGISTERED PROFESSIONAL ENGINEER
No. PE10303060
STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Mark Chmelivsky* 7/10/20
DESIGN ENGINEER DATE

DESIGNED: K. Wright DRAWN: P. Claire
CHECKED: M. Chmelivsky CHECKED: G. Nulliner

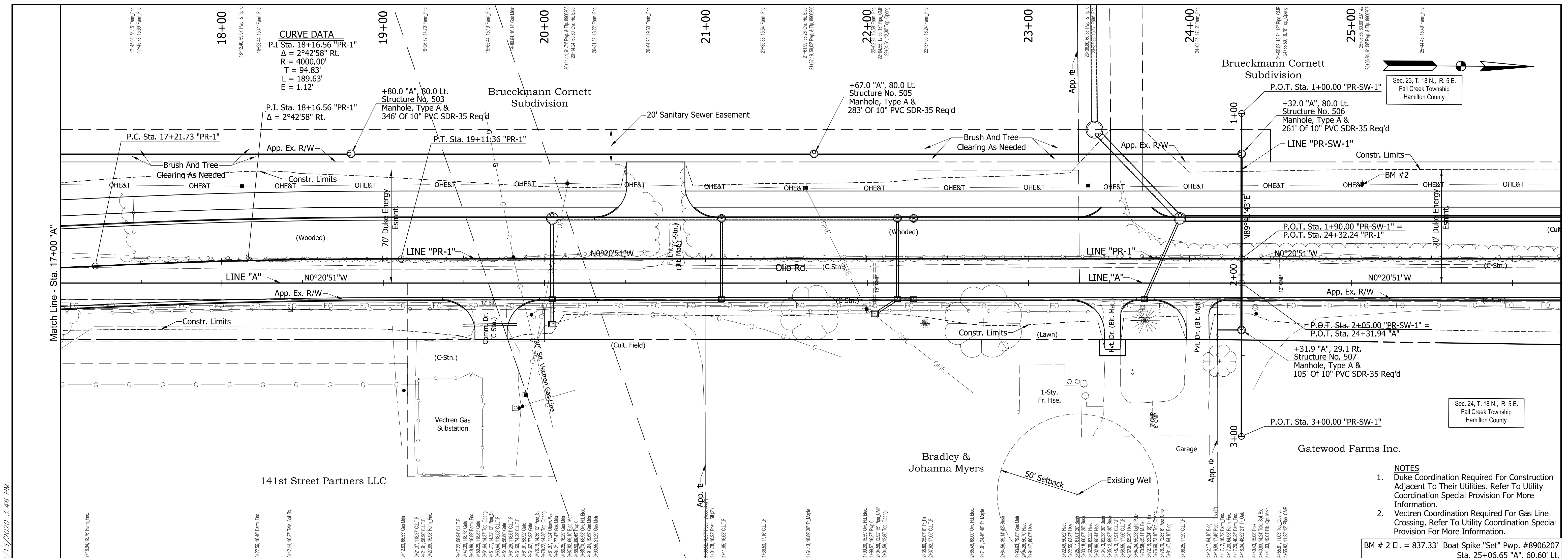
SANITARY SEWER PLAN & PROFILE
NOBLESVILLE OLIVO ROAD INDIANA

Headquarters
8450 WESTFIELD BLVD., SUITE 300
LOUISVILLE, IN 46240-8302
TEL 317-713-4615
FAX 317-713-4616
www.B&Seng.com

Branch Locations
FORT WAYNE 260-459-1532
LOUISVILLE 502-593-1996
LAFAYETTE 765-423-5602
MERRILLVILLE 219-769-2333
PLAINFIELD 317-639-3242

| | |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1" = 30' | |
| VERTICAL SCALE | DESIGNATION |
| 1" = 5' | |
| SURVEY BOOK | SHEET |
| EN-292 | 21 OF 99 |
| CONTRACT | PROJECT |
| | |

H:\1612600\00001\ProDevelopment\Design Drawings\1612600\471.dwg Peter Claire Plot: 7/13/2020 3:48 PM Save: 7/13/2020 3:49 PM

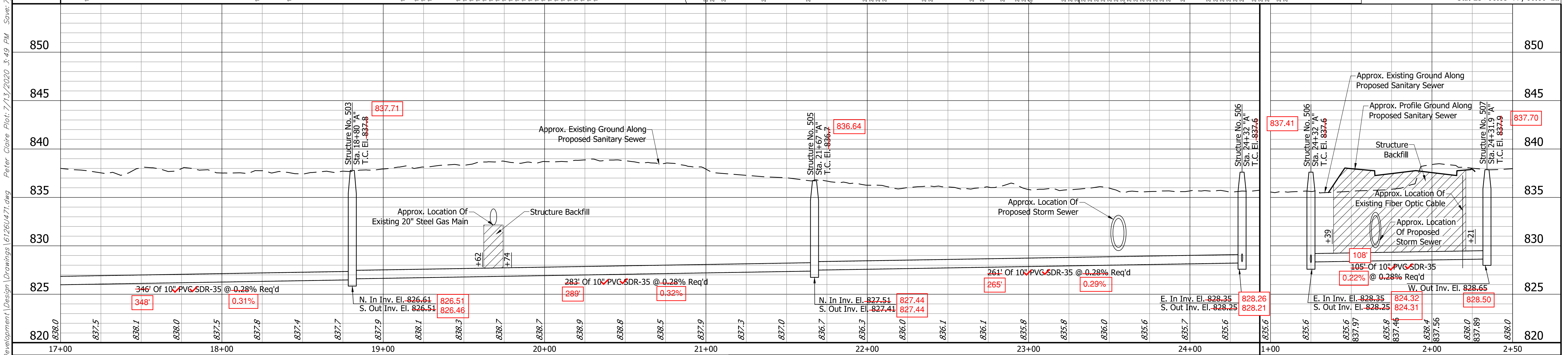


CURVE DATA
 P.I. Sta. 18+16.56 "PR-1"
 $\Delta = 2^\circ 42' 58''$ Rt.
 $R = 4000.00'$
 $T = 94.83'$
 $L = 189.63'$
 $E = 1.12'$

Sec. 23, T. 18 N., R. 5 E.
 Fall Creek Township
 Hamilton County

- NOTES**
- Duke Coordination Required For Construction Adjacent To Their Utilities. Refer To Utility Coordination Special Provision For More Information.
 - Vectren Coordination Required For Gas Line Crossing. Refer To Utility Coordination Special Provision For More Information.

BM # 2 El. = 837.33' Boat Spike "Set" Pwp. #8906207 Sta. 25+06.65 "A", 60.60' Lt.



| | | | | | | | | | |
|--|--|--|--|---|--|---|--|------------------------------------|--|
| | | <p>RECOMMENDED FOR APPROVAL: <i>Mark Chmelwsky</i> 7/10/20 DESIGN ENGINEER DATE</p> | | <p>SANITARY SEWER PLAN & PROFILE</p> | | <p>HORIZONTAL SCALE 1" = 30'</p> | | <p>BRIDGE FILE</p> | |
| <p>DESIGNED: K. Wright DRAWN: P. Claire</p> | | <p>CHECKED: M. Chmelwsky CHECKED: K. Wright</p> | | <p>NOBLESVILLE OLIO ROAD INDIANA</p> | | <p>VERTICAL SCALE 1" = 5'</p> | | <p>DESIGNATION</p> | |
| <p>Headquarters 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240-8302 TEL 317-713-4615 FAX 317-713-4616 www.B&Seng.com</p> | | <p>Branch Locations FORT WAYNE LOUISVILLE LAFAYETTE MERRILLVILLE PLAINFIELD</p> | | <p>260-459-1532 502-963-1996 765-423-5602 219-768-2333 317-839-3242</p> | | <p>SURVEY BOOK</p> | | <p>SHEET 22 OF 99</p> | |
| <p>CONTRACT EN-292</p> | | <p>PROJECT</p> | | <p>6126</p> | | <p>BFS NO.</p> | | | |

H:\1612600\00001\ProDevelopment\Design Drawings\1612600\471.dwg Peter Claire Plot: 7/13/2020 3:49 PM Save: 7/13/2020 3:48 PM