

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 27, 2006

TO: Hamilton County Drainage Board

RE: Thorpe Creek Drain, Barrington Estates Section 2 Arm

Attached is a petition filed by Cole Developers, LLC along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Barrington Estates Section 2 Arm, Thorpe Creek Drain 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. The drain will consist of the following:

6" SSD	3,980 ft	18" RCP	305 feet
15" RCP	597 ft	24" RCP	394 feet
		Open Ditch	1,300 feet (Martha Ford)

The total length of the drain will be 5,276 feet.

The open drain listed above is that portion of the Martha Ford Drain from the southwest corner of Block "D", Barrington Estates Section 1 to the southeast corner of Lot 33 of Barrington Estates Section 2. The length of drain is not in the total length.

The retention pond located in Barrington Estates Section 1 is not to be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance of the pond will be the responsibility of the Homeowners Association. The Board will however retain jurisdiction for ensuring the storage volume for which the lake was designed will be retained, thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines between lots or in rear yards. Only the main SSD lines which are located within the easement and right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follows: Rear of Lots 27 to 31 which was installed with Section 1.

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 \$10.00 per acre for common areas and platted lots, \$10.00 per acre for roadways, with a \$75.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$2,037.40. Collections for this drain will not begin until 2007.

The petitioner has submitted surety for the proposed drain at this time. Surety shall be submitted prior to the approval of the Hamilton County Board of Commissioners/commencement of construction. The sureties which are in the form of a Performance Bond/Letter of Credit are as follows:

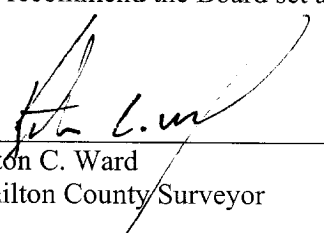
Agent: Shelby County Bank
Date: March 21, 2005
Number: 2
For: Storm Sewers
Amount: \$137,000.00

Agent: Shelby County Bank
Date: March 21, 2005
Number: 3
For: Monuments, Markers, Erosion Control
Amount: \$14,000.00

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 is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Barrington Estates Section 2 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 27, 2006.



Kenton C. Ward
Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

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

In the matter of Barrington Estates Subdivision, Section
2 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 Barrington Estates, 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:

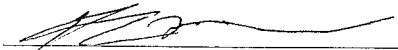
- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

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 for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 100% of the Engineer's estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.
3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).


Signed

Signed

Theodore L. McMullen - mer
Printed Name

Printed Name

RECORDED OWNER(S) OF LAND INVOLVED Date 11/13/03

Hamilton County Drainage Board
Court House
Noblesville, Indiana

IN RE: _____
Hamilton County, Indiana

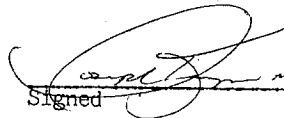
PETITION FOR RELOCATION AND RECONSTRUCTION

COLE DEVELOPMENT, LLC (hereinafter "Petitioner"),

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

1. Petitioner owns real estate through which a portion of the THORPE CREEK 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 THORPE CREEK 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 THORPE CREEK Drain, without cost to other property owners on the watershed of the THORPE CREEK Drain.

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


Signed _____ MEMBER.

JOSEPH KUNZER MEMBER.
Printed Name

FINDINGS AND ORDER

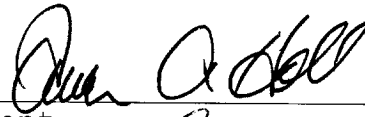
CONCERNING THE MAINTENANCE OF THE

Thorpe Creek Drainage Area, Barrington Estates Section 2 Arm

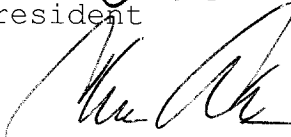
On this **11th day of December, 2006**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Thorpe Creek Drainage Area, Barrington Estates Section 2 Arm**.

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.

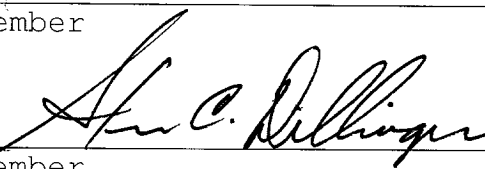
HAMILTON COUNTY DRAINAGE BOARD




President



Member



Member

Attest: 

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Thorpe Creek Drain, Barrington Estates Section 2 Arm

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Thorpe Creek Drain, Barrington Estates Section 2 Arm** on **November 27, 2006** at **9:30 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

Thorpe Creek Drainage Area, Barrington Estates Section 2 Arm

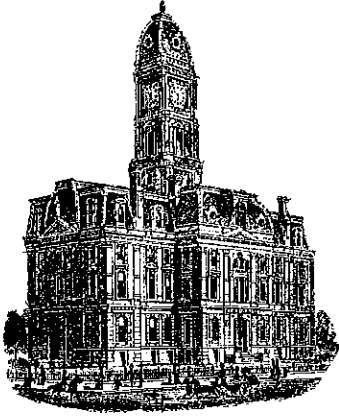
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **December 11, 2006** 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

September 14, 2011

Re: Thorpe Creek: Barrington Estates Sec. 2

Attached are as-builts, certificate of completion & compliance, and other information for Barrington Estates Sec 2. 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 27, 2006. The report was approved by the Board at the hearing held December 11, 2006. (See Drainage Board Minutes Book 10, Pages 4-5)
The changes are as follows:

The 6" SSD was lengthened from 3,980 feet to 4,505 feet. The 15" RCP was shortened from 597 feet to 587 feet. The 18" RCP was lengthened from 305 feet to 308 feet. The 24" RCP was shortened from 394 feet to 386 feet. The length of the drain due to the changes described above is now **5786 feet**.

The 6" SSD installed with Section 1 across lots 27, 28, and 29 was removed and relocated. Also removed was the SSD around the originally proposed cul-de-sac for Browning Ct in Section 1. Existing Structure 605 was changed from a double curb inlet to a solid lid manhole.

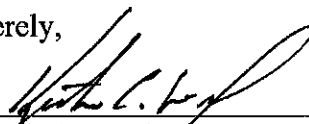
The non-enforcement was approved by the Board at its meeting on December 11, 2006 and recorded under instrument #2007043251. The following sureties were guaranteed by Main Source Bank and released by the Board on its March 13, 2006 and February 27, 2007 meetings.

Bond-LC No: 2
Insured For: Storm Sewers
Amount: \$137,000.00
Issue Date: February 22, 2006

Bond-LC No: 3
Insured For: Erosion Control & Monuments
Amount: \$14, 000.00
Issue Date: February 26, 2007

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: *BARRINGTON ESTATES SEC. 2*

I hereby certify that:

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

Signature: *Christian C. Badger*

Date: *5/20/03*

Type or Print Name: *CHRISTIAN C. BADGER*

Business Address: *13110 PROMISE ROAD*

NOBLESVILLE, IN 46060

Telephone Number: *(317) 841-3141*

SEAL

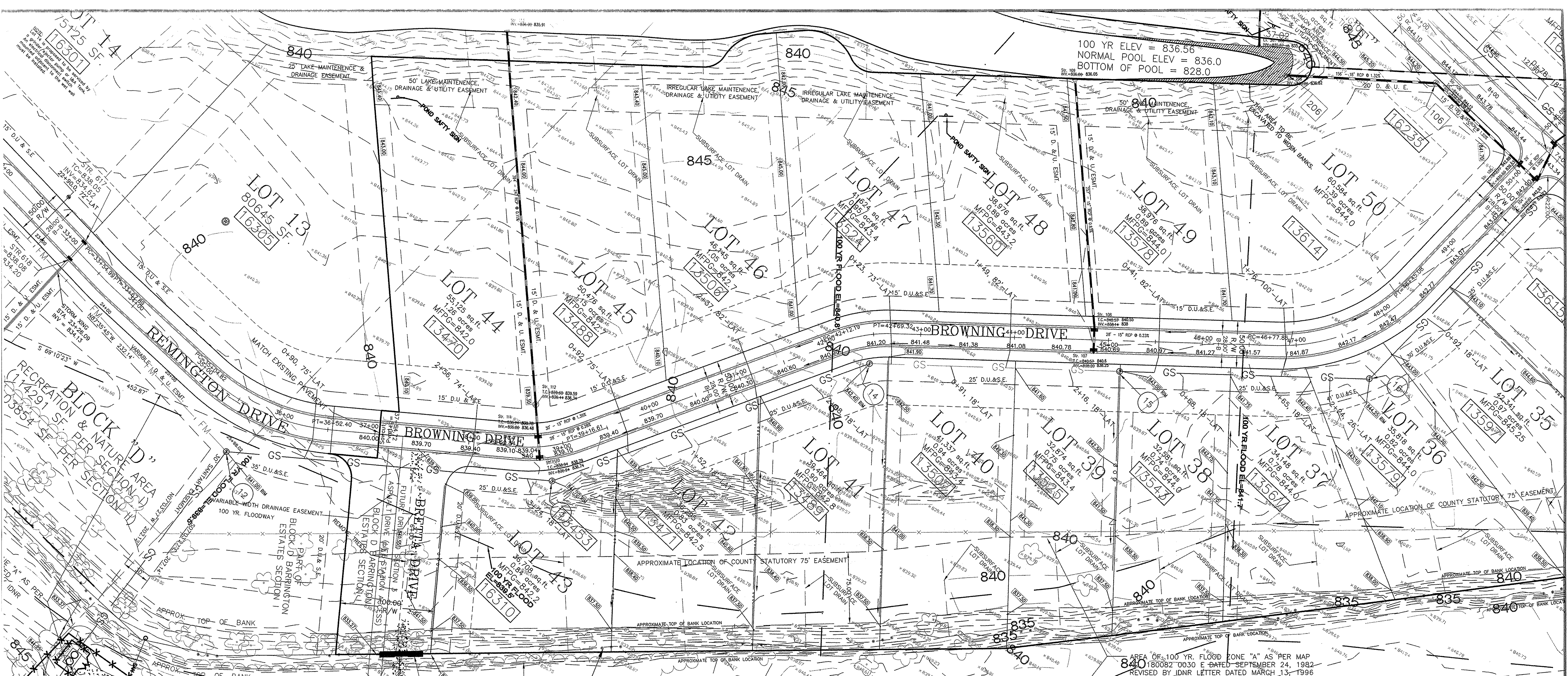
INDIANA REGISTRATION NUMBER

PE 910326

FILED

MAY 27 2003

OFFICE OF HAMILTON COUNTY SURVEYOR



**FLOODWAY
APPROXIMATE C/L OF THORPE CREEK
AKA "MARTHA FORD DRAIN"**

AREA OF 100 YR. FLOOD ZONE "A" AS PER MAP 840180082 0030 E DATED SEPTEMBER 24, 1982
REVISED BY IDNR LETTER DATED MARCH 13, 1996
REC#29-951113-1)

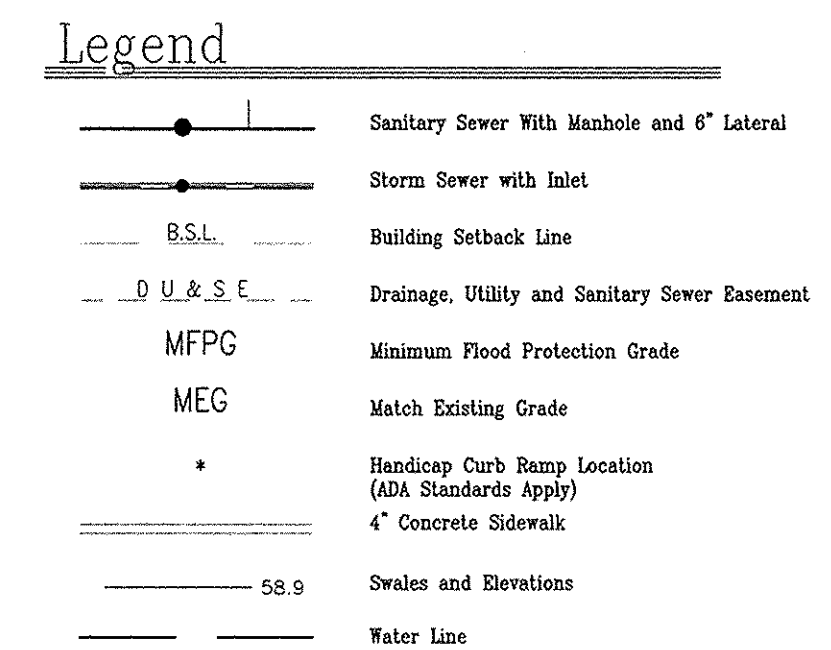
This information was gathered for input
Hamilton County Geographic Information
System (GIS). This document is considered
an official record of the GIS.
Entry Date: Sept 2011
Entered By: SLM

- Construction Notes:**
1. For Granular Backfill locations, see Plan & Profile Sheets.
 2. Storm sewer outfall pipes into ponds to have rip-rap protection. See the Erosion Control Plan for details and locations.
 3. Where storm sewer crosses mounding, lower the mounding to be a maximum of six feet (6'), maintain an opening of ten feet (10') wide. Decorative signs, sprinkler systems, trees, landscaping mounds, light poles, gates or other such amenities are not permitted in right-of-way.
 4. Connect any existing field tiles to storm sewer.
 5. Landscape planting at the foundation shall be in accordance with the Town of Fishers Landscape Ordinance (#080403C)

Sanitary Sewer Note:

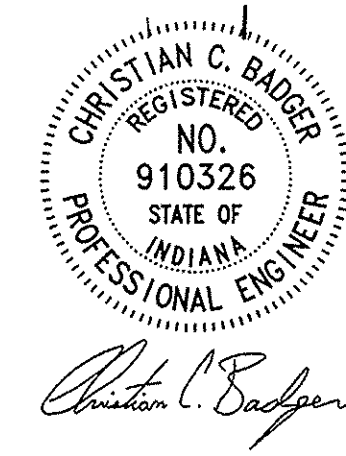
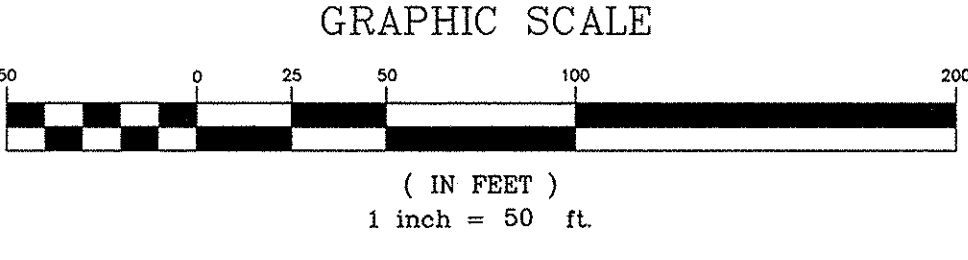
The elevation of the lowest finished floor having gravity sewer service must be at least one (1) foot above the lowest top of casting elevation of either the first upstream or downstream manhole on the gravity sewer to which the connection is to be made.

This copy is from the Digital Archive of the Hamilton County Surveyors Office, Noblesville, IN 46060 Lot 50 with PVC SDR 23.5 pipe.



Bench Mark:

B.M.: HM#24
HARRISON MARKER @
INTERSECTION OF 136TH
& CYNTHIANNE ROAD
Elev. = 851.70 (NGVD 29)



CURVE TABLE					
CURVE NUMBER	RADIUS	DEGREE	DELTA	LENGTH	TANGENT CORD
#1	150.0'	38°11'50"	25°07'20"	65.77'	33.42' 65.24'
#2	150.0'	38°11'50"	20°49'06"	57.12'	28.91' 56.78'
#3	200.0'	28°38'52"	47°54'18"	167.22'	88.85' 162.39'

No.	Date	Revision
7	10/4/06	Fishers rev. letter 9-11-06
6	6/14/04	Ham. Co. Surveyor Changes
2	9/15/04	HSE REVISIONS
3	10/07/04	HSE REVISIONS
4	11/24/04	HSE REVISIONS
5	12/17/04	HSE REVISIONS

BADGER ENGINEERING

117 W. Elm Street
Lebanon, IN 46052
(765) 485-0000

**DEVELOPMENT PLAN
BARRINGTON ESTATES SUBDIVISION**

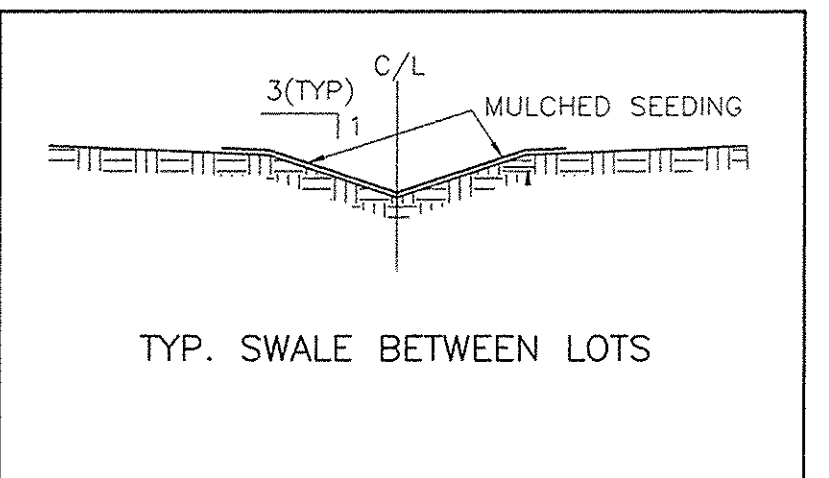
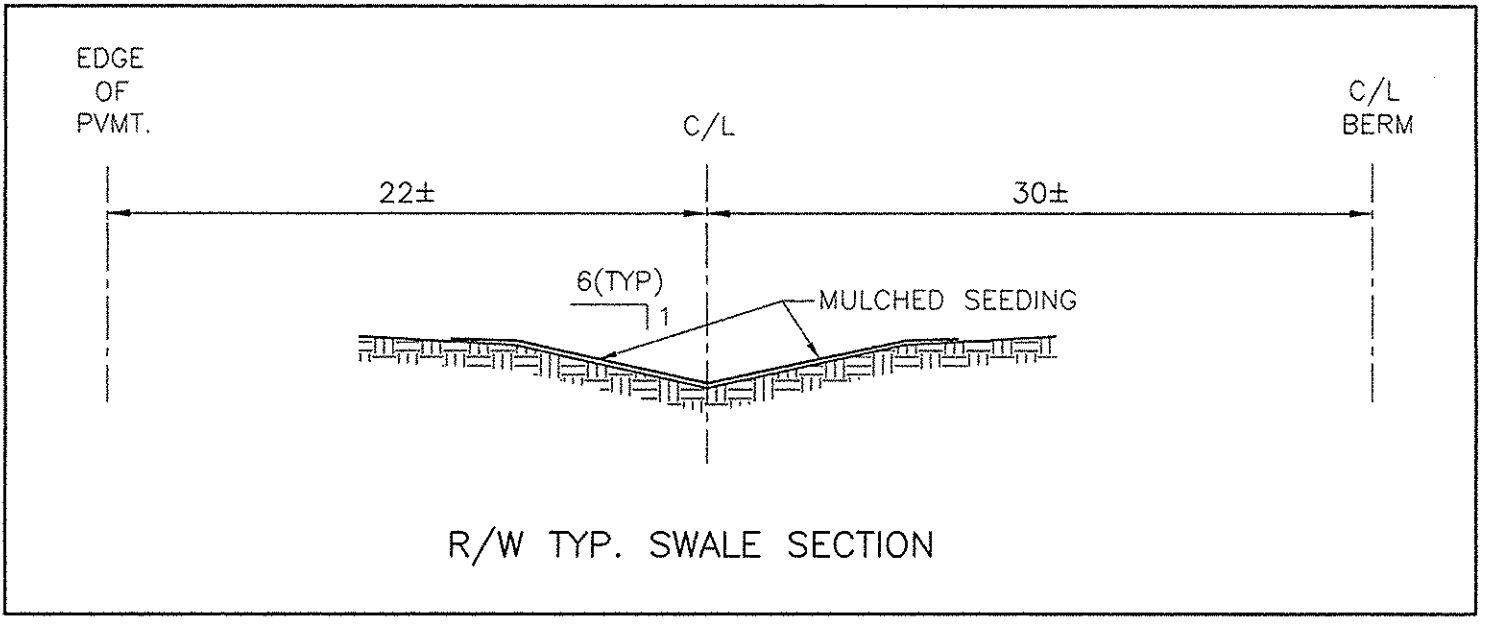
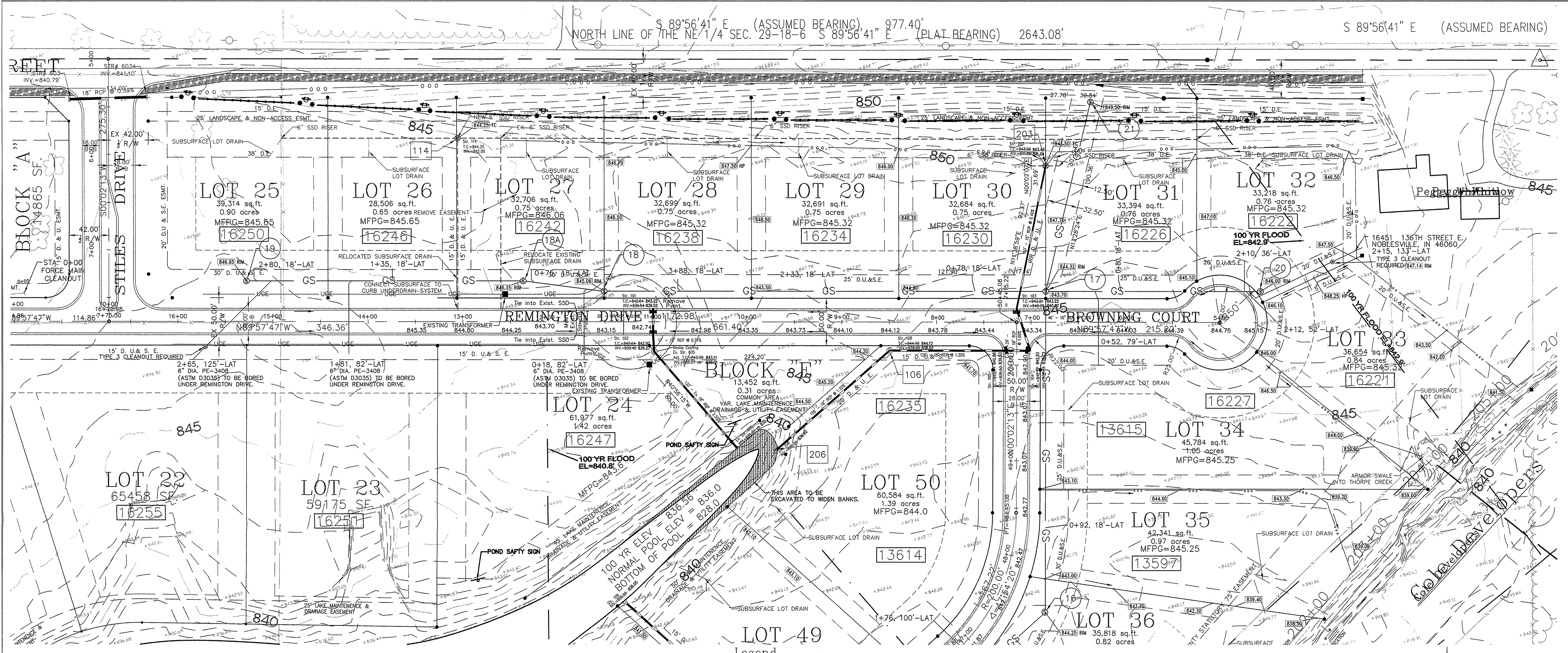
TOWN OF FISHERS, FALL CREEK TOWNSHIP, HAMILTON COUNTY, Indiana

Design By: CCB Drawn By: MEH Checked By: CCB Approved By: CCB

Date: 12/17/04
Job No.: 04-009
Scale: 1"=50'
Sheet No.: 2

NORTH LINE OF THE NE 1/4 SEC. 29-18-6 S 89°56'41" E (ASSUMED BEARING) 977.40' S 89°56'41" E (PLAT BEARING) 2643.08'

S 89°56'41" E (ASSUMED BEARING)



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: Sept 2011
 Entered By: SLW

- Legend**
- Sanitary Sewer With Manhole and 6" Lateral
 - Storm Sewer with Inlet
 - B.S.L. Building Setback Line
 - D.U.&S.E. Drainage, Utility and Sanitary Sewer Easement
 - MFGP Minimum Flood Protection Grade
 - MEG Match Existing Grade
 - Handicap Curb Ramp Location (ADA Standards Apply)
 - 4" Concrete Sidewalk
 - 58.9 Swales and Elevations
 - W Water Line

Construction Notes:

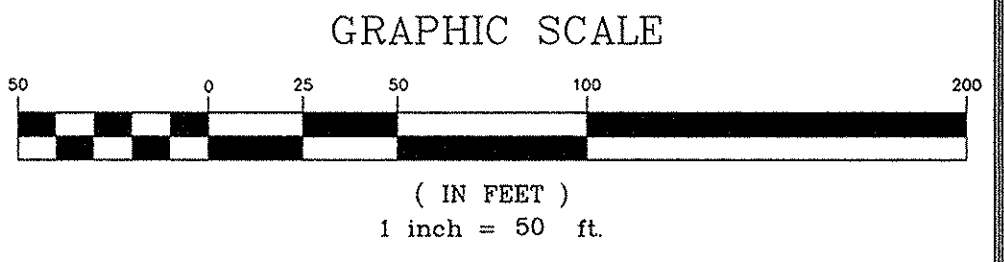
1. For Granular Backfill locations, see Plan & Profile Sheets.
2. Storm sewer outfall pipes into ponds to have rip-rap protection. See the Erosion Control Plan for details and locations.
3. Where storm sewer crosses mounding, lower the mounding to be a maximum of six feet (6'), maintain an opening of ten feet (10') wide.
4. Decorative signs, sprinkler systems, trees, landscaping mounds, light poles, gates or other such amenities are not permitted in right-of-way.
5. Connect any existing field tiles to storm sewer.
6. Landscape planting at the foundation shall be in accordance with the Town of Fishers Landscape Ordinance (#080403C)

Sanitary Sewer Note:

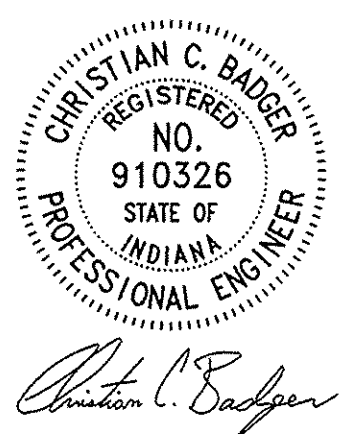
The elevation of the lowest finished floor having gravity sewer service must be at least one (1) foot above the lowest top of casting elevation of either the first upstream or downstream manhole on the gravity sewer to which the connection is to be made.

Contractor must install the entire lateral serving Lots 35 to 50 with PVC SDR 23.5 pipe.

CURVE TABLE						
CURVE NUMBER	RADIUS	DEGREE	DELTA	LENGTH	TANGENT	CORD
#1	150.0'	38°11'50"	25°07'20"	65.77'	33.42'	65.24'
#2	150.0'	38°11'50"	20°49'06"	57.12'	28.91'	56.78'
#3	200.0'	28°38'52"	47°54'18"	167.22'	88.85'	162.39'



Bench Mark:
 B.M.: HM#24
 HARRISON MARKER @
 INTERSECTION OF 136TH
 & CYNTHIANNE ROAD
 Elev. = 851.70 (NGVD 29)

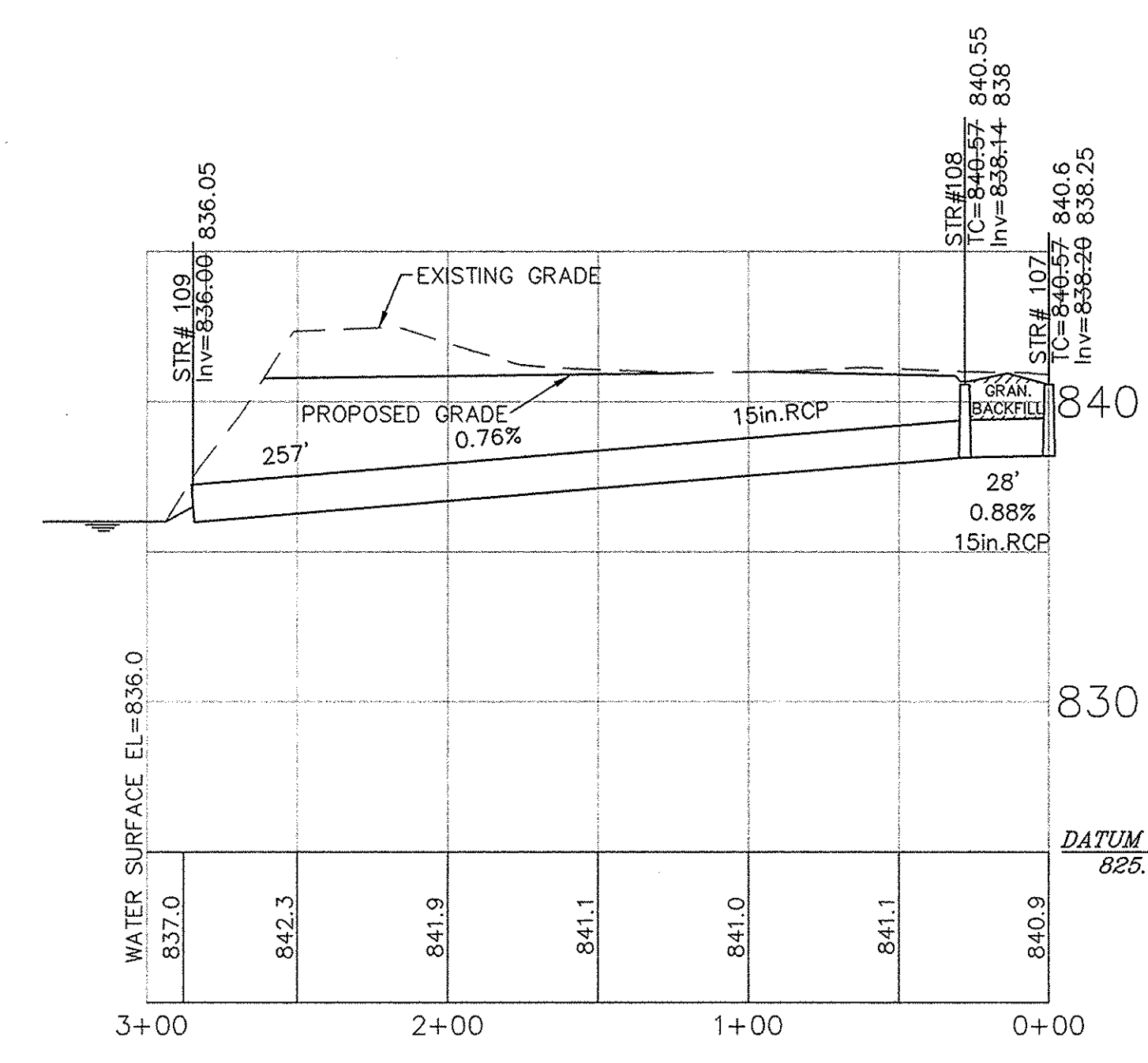
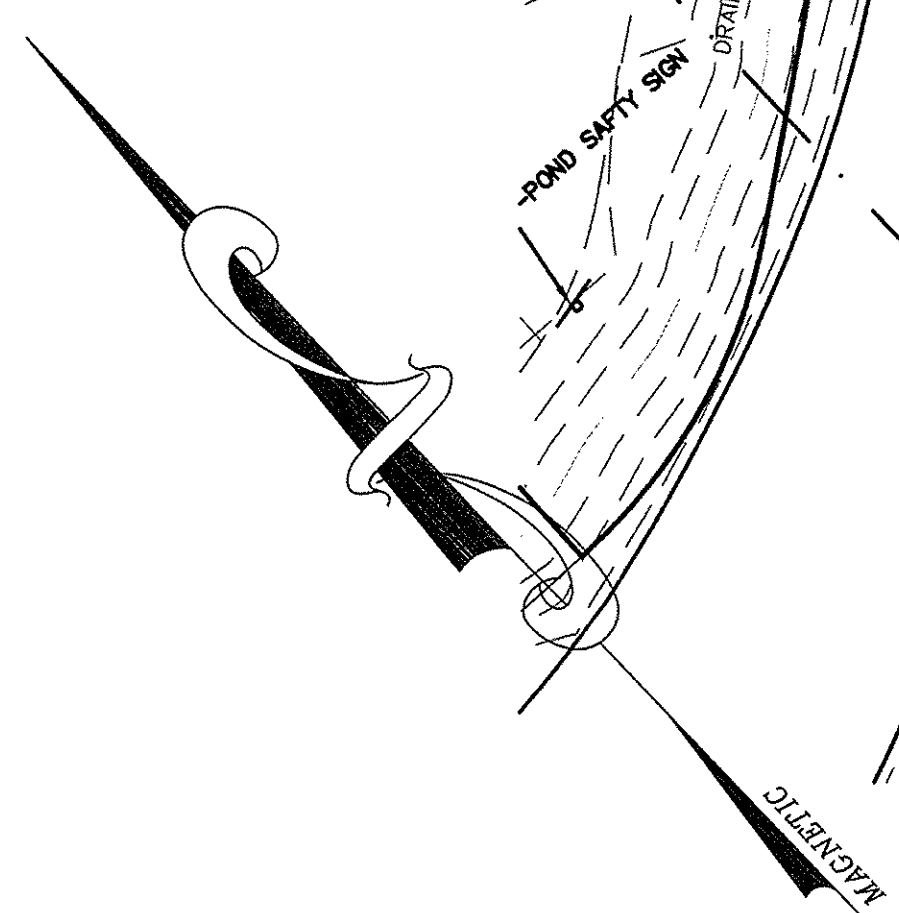
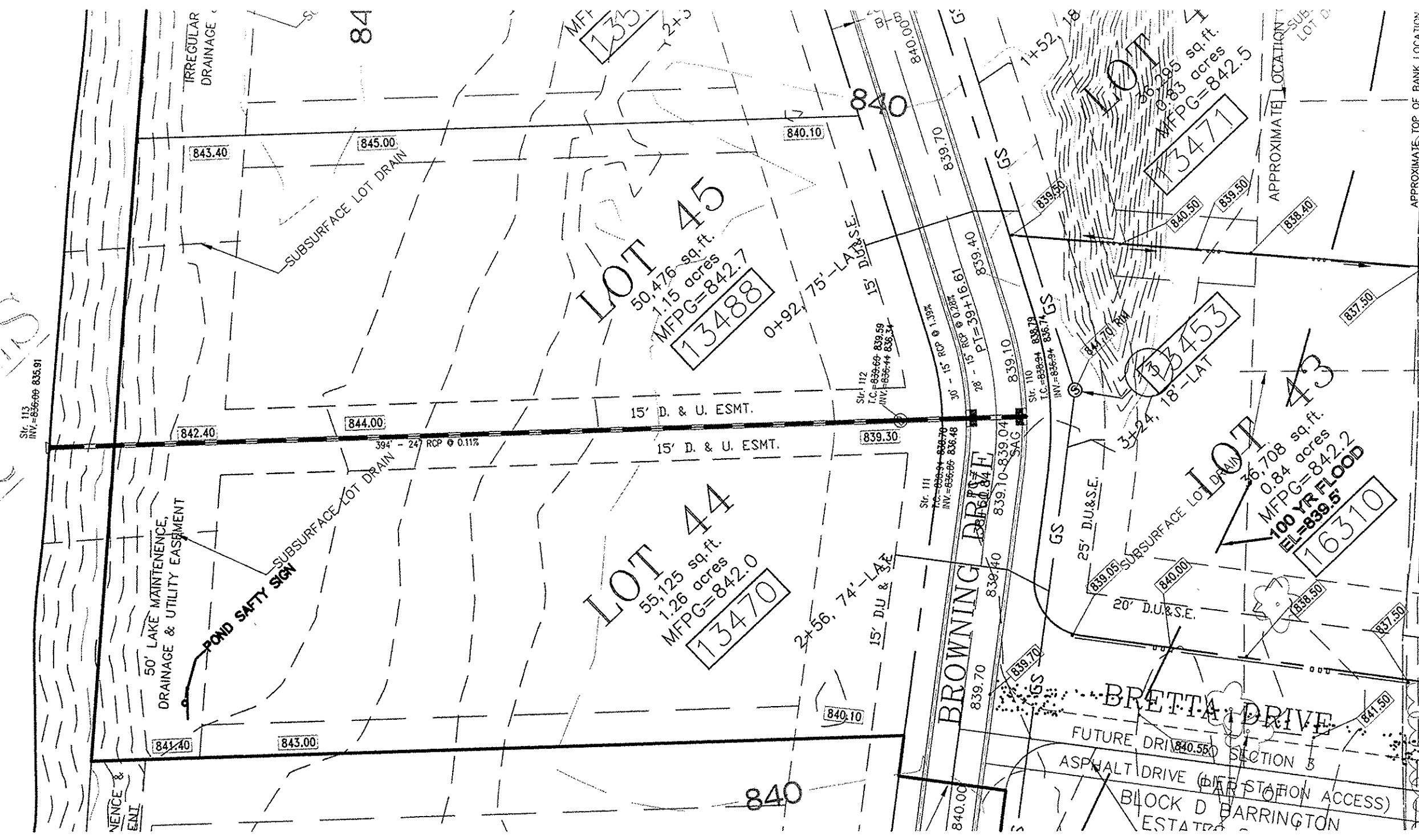
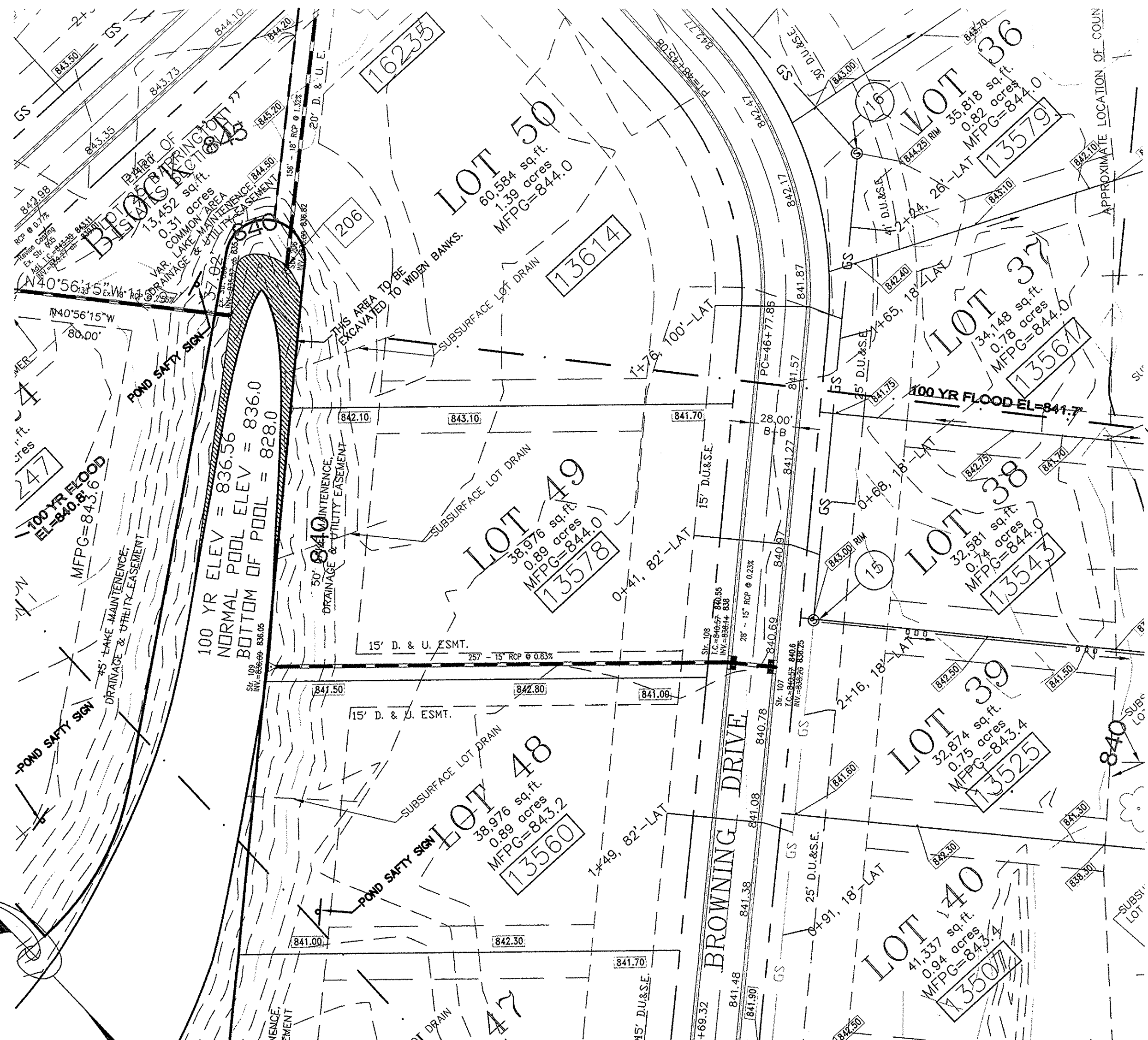


No.	Date	Revision
7	10/4/06	Fishers rev. letter 9-11-06
2	9/15/04	HSE REVISIONS
3	10/07/04	HSE REVISIONS
4	11/24/04	HSE REVISIONS
5	12/17/04	HSE REVISIONS
6	5/9/05	ADDED STR# 18A

BADGER ENGINEERING
 117 W. Elm Street
 Lebanon, IN 46052
 (765) 485-0000

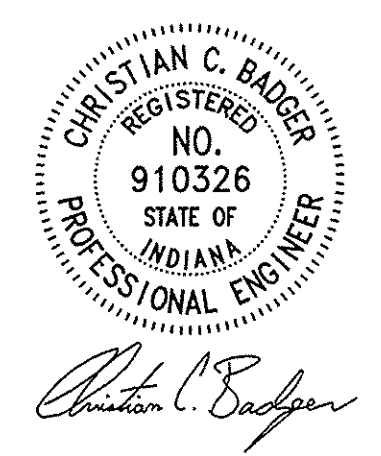
DEVELOPMENT PLAN
BARRINGTON ESTATES SUBDIVISION
 TOWN OF FISHERS, FALL CREEK TOWNSHIP, HAMILTON COUNTY, Indiana
 Design By: CCB Drawn By: MEH Checked By: CCB Approved By: CCB

Date: 12/17/04
 Job No.: 04-009
 Scale: 1"=50'
 Sheet No.: 3

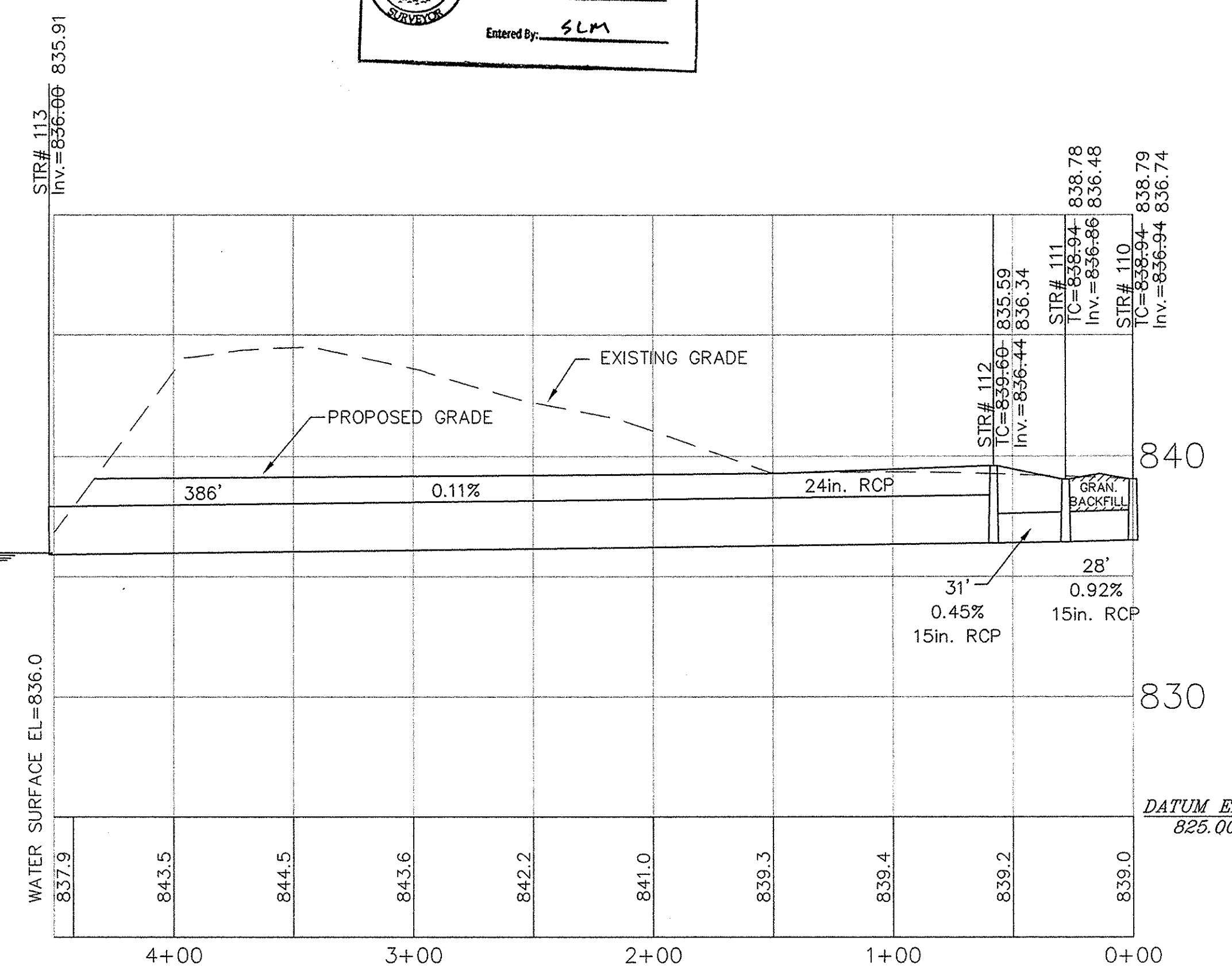


"AS-BUILT" CERTIFICATION
 I hereby certify that the Drainage "As-Built" drawing shown herein was prepared under my direct supervision and that the locations and elevations are true and correct to the best of my knowledge and belief.

Christian C. Badger
 Christian C. Badger, P.E.
 Registration #910326
 Date: August 13, 2007



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: Sept 2011
 Entered By: SLM



Bench Mark:
 B.M.; HM#24
 HARRISON MARKER @
 INTERSECTION OF 136TH
 & CYNTHEANNE ROAD
 Northing = 1726223.87
 Easting = 267980.04
 Elev. = 851.70 (NGVD 29)
 Elev. = 851.36 (NAVD 88)

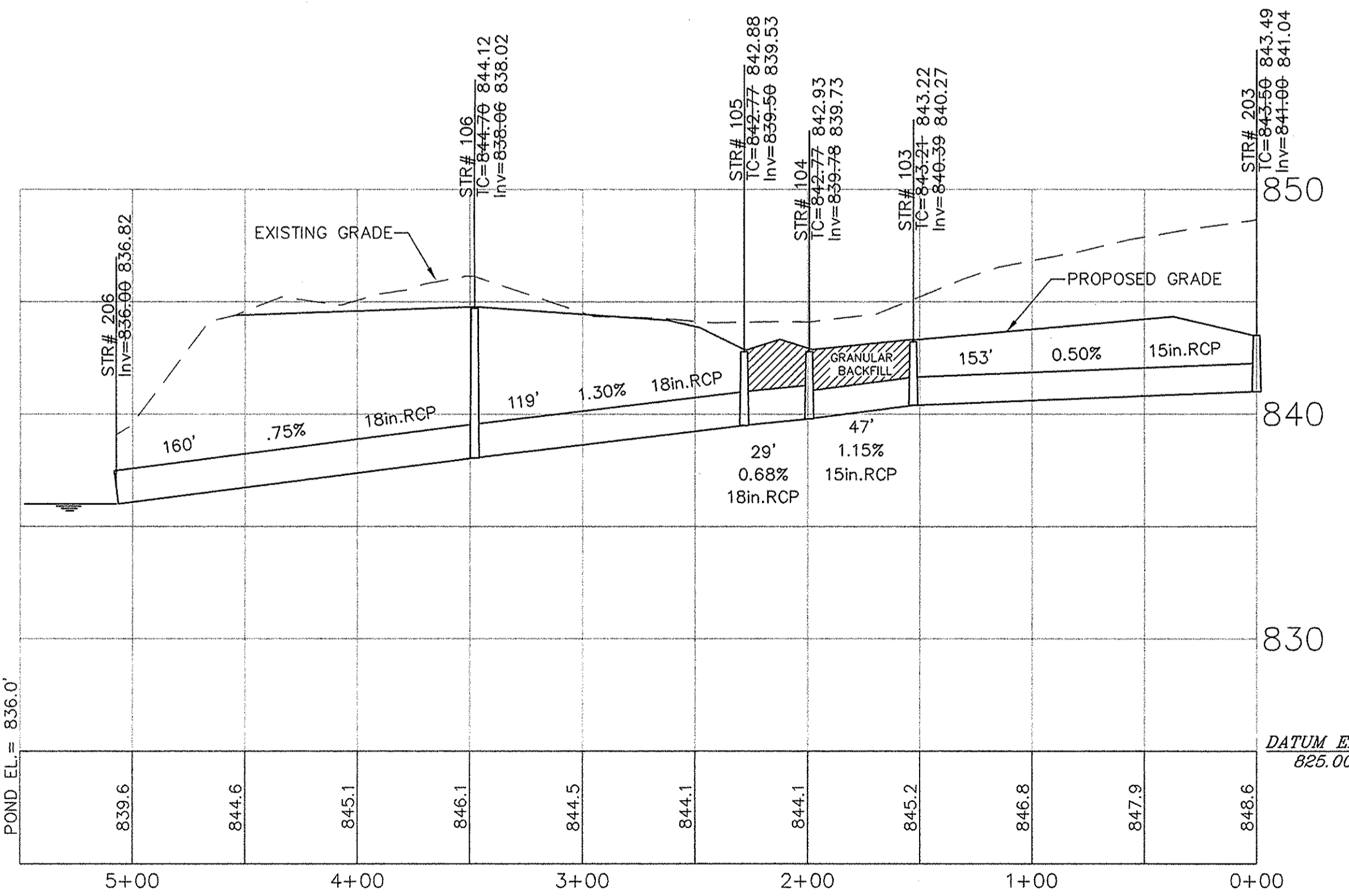
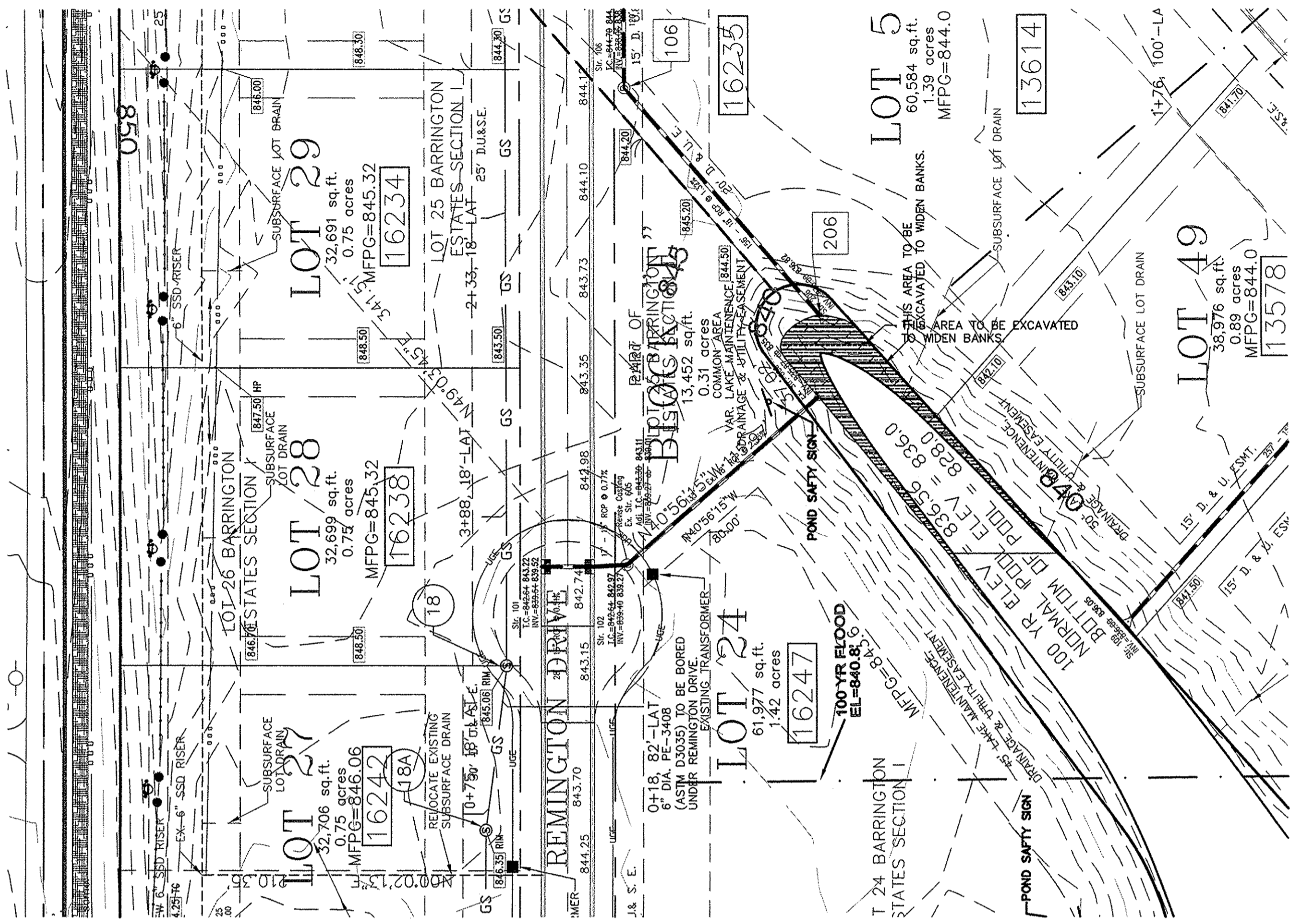
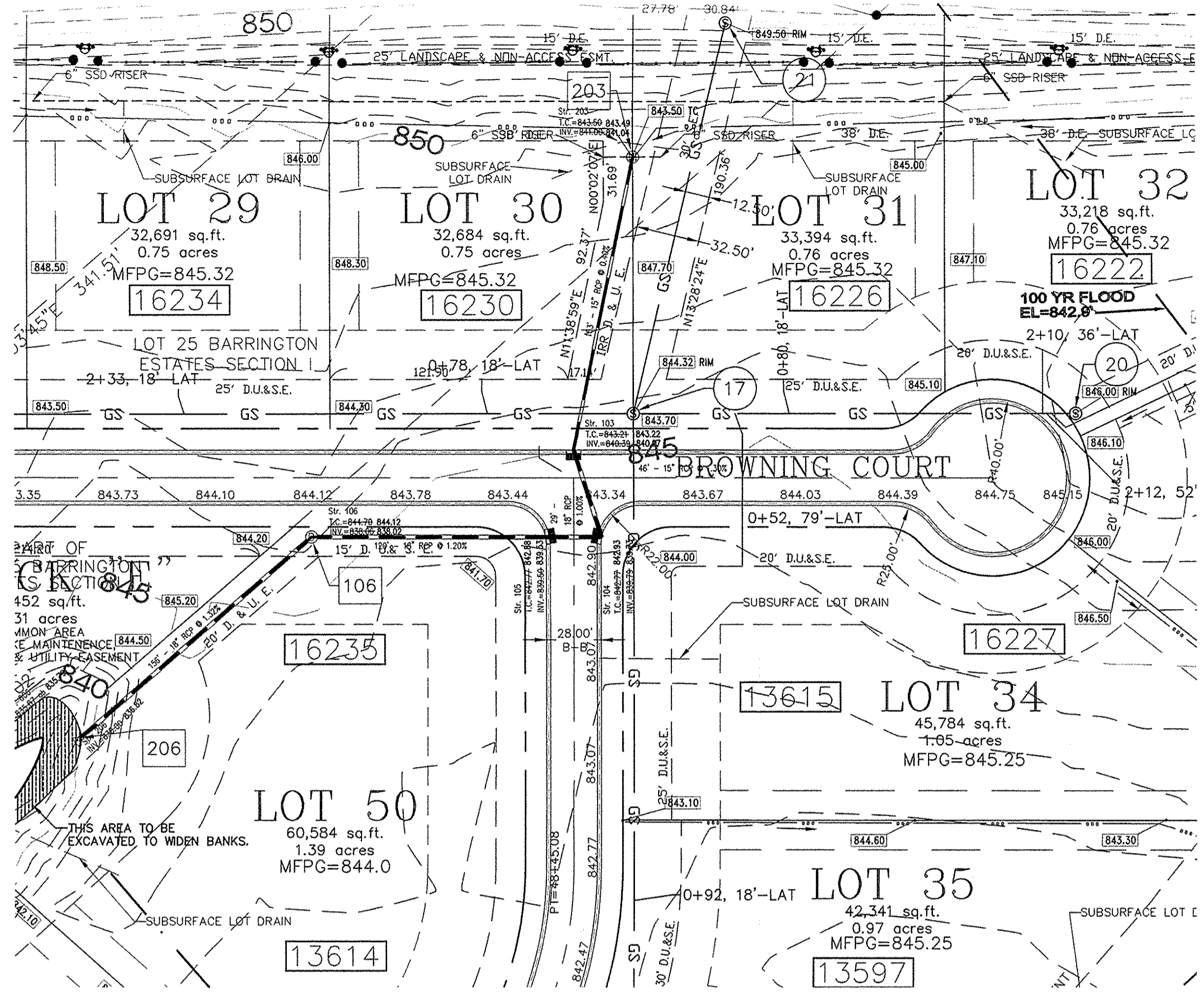
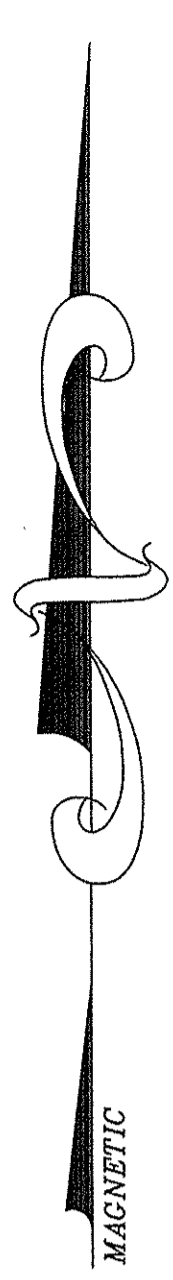
No.	Date	Revision
1	9/15/04	HSE REVISIONS
2	10/07/04	HSE REVISIONS
3	12/17/04	HSE REVISIONS
4	12/02/05	ASBUILT

BADGER ENGINEERING
 117 W. Elm Street
 Lebanon, IN 46052
 (765) 485-0000

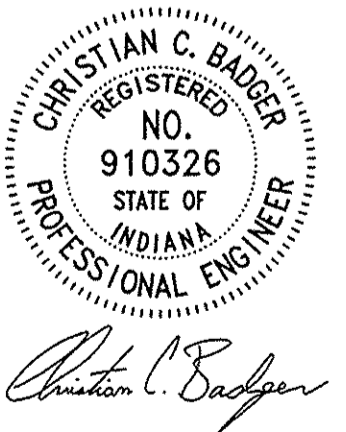
STORM SEWER PROFILES - ASBUILT
BARRINGTON ESTATES SUBDIVISION

TOWN OF FISHERS. FALL CREEK TOWNSHIP. HAMILTON COUNTY, Indiana
 Design By: CCB Drawn By: MEH Checked By: CCB Approved By: [Signature]

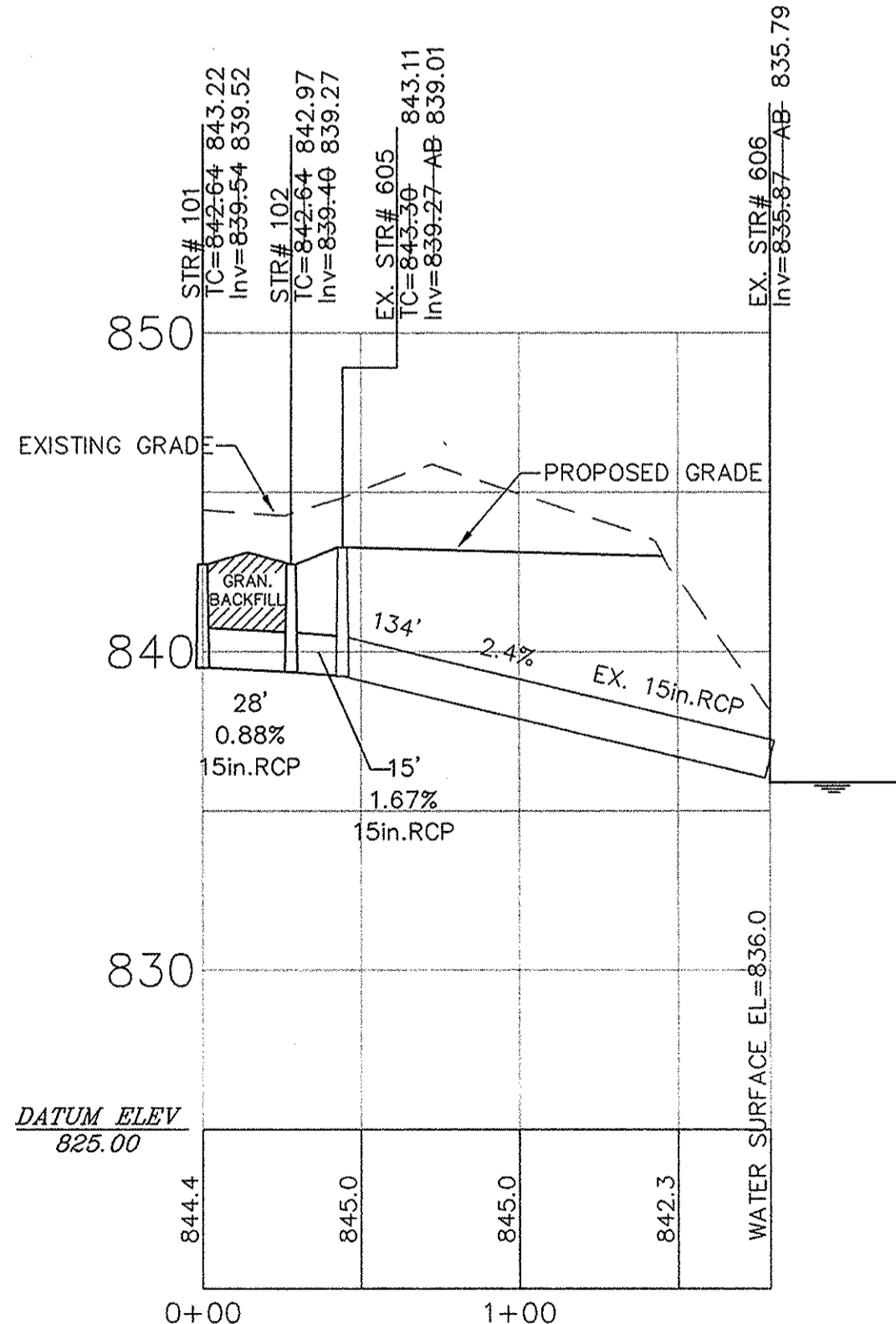
Date	12/17/04
Job No.	04-009
Scale	1"=50' 1"=5'
Sheet No.	6



"AS-BUILT" CERTIFICATION
I hereby certify that the Drainage "As-Built" drawing shown hereon was prepared under my direct supervision and that the locations and elevations are true and correct to the best of my knowledge and belief.
Christian C. Badger
Christian C. Badger, P.E.
Registration #910326
Date: August 13, 2007



Christian C. Badger



This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
Entry Date: Sept 2011
Entered By: SLM

Bench Mark:
B.M.; HM#24
HARRISON MARKER @
INTERSECTION OF 136TH
& CYNTHEANNE ROAD
Northing = 1726223.87
Easting = 267980.04
Elev. = 851.70 (NGVD 29)
Elev. = 851.36 (NAVD 88)

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

No.	Date	Revision
1	9/15/04	HSE REVISIONS
2	10/07/04	HSE REVISIONS
3	12/17/04	HSE REVISIONS
4	12/02/05	ASBUILT

BADGER ENGINEERING
117 W. Elm Street
Lebanon, IN 46052
(765) 485-0000

STORM SEWER PROFILES- ASBUILT			
BARRINGTON ESTATES SUBDIVISION			
Design By	Drawn By	Checked By	Approved By
CCB	MEH	CCB	

Date	12/17/04
Job No.	04-009
Scale	1"=50' 1"=5'
Sheet No.	7