



SURVEYOR'S OFFICE

# Hamilton County

*Kenton C. Ward, Surveyor*

Phone (317) 776-8495

Fax (317) 776-9628

Suite 188

One Hamilton County Square  
Noblesville, Indiana 46060-2230

September 9, 2005

To: Hamilton County Drainage Board

Re: Wheeler & Wheeler Drain, Brighton Knoll, Section 1 Reconstruction

Attached is a petition and plans for the proposed relocation of the Wheeler & Wheeler Drain. The relocation is being proposed and petitioned by Davis Homes, LLC. The proposal is to reconstruct the drain across the following parcels as part of the Brighton Knoll, Section 1 project per plans by Stoeppelwerth & Associates, dated June 2, 2003 and revised September 9, 2005, Job No. 43400:

<u>Parcel</u>	<u>Owner</u>
10-11-17-00-00-008.001	Davis Land Development
10-11-17-00-00-009.000	Davis Land Development
10-11-17-00-00-007.000	Hamilton County Theatre Guild
10-11-17-00-00-007.001	Jeanette B. Wiles
10-11-08-00-00-012.000	Jeanette B. Wiles

This line will consist of the following:

42" RCP	192 ft	66" RCP	1,595 ft	Open Ditch	1,234
48" RCP (dual pipes)	412 ft	58"x91" ERCP	108 ft	Swale	1701 ft
6'x3' Box Culvert (Dual) pipes 60 ft.					

The total length of new tile shall be 3,541 feet. The 3,299 feet of original drain between Sta. 15+63 and Sta. 48+62 of the J.W. Wheeler Drain shall be vacated. This proposal will add an additional 242 feet to the drains total length. Station 48+62 is the open ditch described in my report to the Board dated January 13, 2005 for the Wheeler & Wheeler Drain, Arbor Grove Section 2 Reconstruction and approved by the Board at hearing on January 24, 2005. The existing tile at Station 15+63 will be temporarily connected to Brighton Knoll Section 1 at Structure 714.

The retention ponds (lakes) 1 and 2 located in Brighton Knoll Section 1 in Common Areas 4 and 5 are to be considered part of the regulated drain. Pond maintenance shall include the inlet, outlet, sediment removal and erosion control along the banks as part of the regulated drain. The maintenance of the ponds (lakes) such as 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 ponds (lakes) were designed will be retained. Thereby, allowing no fill or easement encroachments.

The portions of the new drain listed above are those sections of drain shown on the plan set out above as follows:

ONSITE

Str. 600 to Str. 7	97 ft.	Twin 48" RCP
Str. 601 to Str. 7	330 ft.	Open/Lake #1
Str. 643 to Str. 644	315 ft.	Twin 48" RCP
Str. 645 to Str. 646	904 ft.	Open/Lake #2
Str. 707 to Str. 706	192 ft.	42" RCP

The lengths for the Open/Lake #1 and Lake #2 were measured using straight line measurement through the center of the lakes.

OFFSITE

2-1	108	58"x91" ERCP
3-2	500	66" RCP
4-3	280	66" RCP
5-4	300	66" RCP
6-5	200	66" RCP
7-6	315	66" RCP
	1701	Swale

The cost of the relocation is to be paid by Davis Homes, LLC. The project falls under the requirements as set out in IC 36-9-27-52.0.

The petitioner has provided the Performance Bond as follows:

Name of Bonding Company: The American Institute of Architects  
Bond Number: 7574482  
Bond Date: September 1, 2005  
Bond Amount: \$495,525.00  
Bond Term (1 Year Max):

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 Brighton Knoll Section 1 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for October 24, 2005.

Sincerely,



Kenton C. Ward  
Hamilton County Surveyor

KCW/llm

HAMILTON COUNTY DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN RE: \_\_\_\_\_ )  
Hamilton County, Indiana )

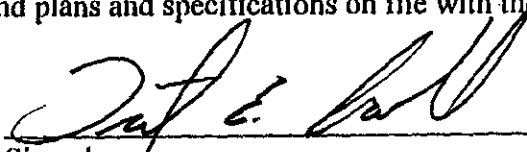
PETITION FOR RELOCATION AND RECONSTRUCTION

\_\_\_\_\_ Davis Homes, L.L.C. (hereinafter "Petitioner"),

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

1. Petitioner owns real estate through which a portion of the \_\_\_\_\_ Wheeler & Wheeler \_\_\_\_\_ 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 porion of the \_\_\_\_\_ Wheeler & Wheeler \_\_\_\_\_ 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 \_\_\_\_\_ Wheeler & Wheeler \_\_\_\_\_ Drain, without cost to other property owners on the watershed of the \_\_\_\_\_ Wheeler & Wheeler \_\_\_\_\_ Drain.
5. Proposed relocation and reconstruction will not adversely affect other land owners within the drainage shed.
6. Petitioner requests approval of the proposed relocation and reconstruction under IC 36-9-27-52.5.

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

  
Signed \_\_\_\_\_  
Trent E. Sokol  
Printed \_\_\_\_\_

FILED  
JUN 09 2003  
OFFICE OF HAMILTON COUNTY SURVEYOR

FINDINGS AND ORDER

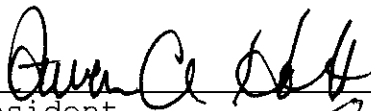
CONCERNING THE PARTIAL VACATION OF THE

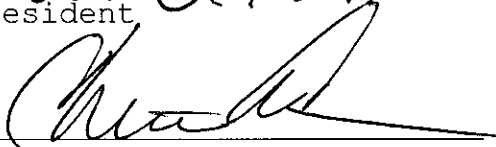
**J.W. Wheeler Drain, Sta. 0+00 to 0+26**

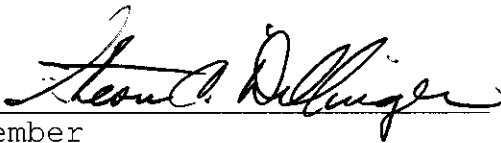
On this **25th day of April 2005**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **J.W. Wheeler, Sta. 15+63 to 48+62**.


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 **J.W. Wheeler Drain**.

HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
President

  
\_\_\_\_\_  
Member

  
\_\_\_\_\_  
Member

Attest: 

STATE OF INDIANA )  
 ) ss:  
COUNTY OF HAMILTON )

BEFORE THE HAMILTON COUNTY  
DRAINAGE BOARD  
NOBLESVILLE, INDIANA

IN THE MATTER OF THE  
RECONSTRUCTION OF THE  
**Wheeler & Wheeler Drain, Brighton Knoll Section 1 Arm**

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Wheeler & Wheeler Drain, Brighton Knoll Section 1 Arm** came before the Hamilton County Drainage Board for hearing **on October 24, 2005**, 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.

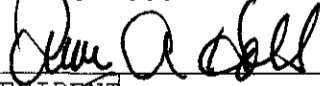
The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included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

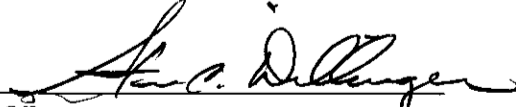
Wherefore, it is ORDERED, that the proposed Reconstruction of the **Wheeler & Wheeler Drain, Brighton Knoll Section 1 Arm** be and is hereby declared established.

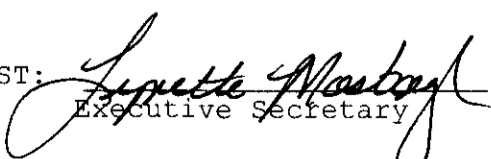
Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

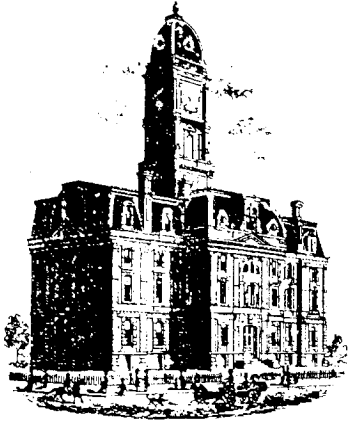
HAMILTON COUNTY DRAINAGE BOARD

  
\_\_\_\_\_  
PRESIDENT

  
\_\_\_\_\_  
Member

  
\_\_\_\_\_  
Member

ATTEST:   
Executive Secretary



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

To: Hamilton County Drainage Board

September 25, 2008

**Re: Wheeler & Wheeler: Brighton Knoll Section 1 Relocation**

Attached are as-builts, certificate of completion & compliance, and other information for Brighton Knoll Section 1 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 9, 2005. The report was approved by the Board at the hearing held October 24, 2005. (See Drainage Board Minutes Book 8, Pages 449-451)

The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert	Grade:	Changes:
707-706	187	42	RCP	815.38	814.99	0.21	-5
645-646	308	*48	RCP	814.96	814.4	0.21	-7
643-644	308	*48	RCP	815.03	814.34	0.22	-7
601-7	89	*48	RCP	814.22	813.13	1.22	-8
600-7	89	*48	RCP	814.21	813.07	1.28	-8
6-5	199	66	RCP	807.97	807.4	0.29	-1
5-4	304	66	RCP	807.4	806.55	0.28	4
4-3	280	66	RCP	806.55	805.91	0.23	
3-2	501	66	RCP	805.91	804.4	0.3	1
2-1	105	91 X 58	ERCPC	804.4	804.15	0.24	-1
7-6	329	66	RCP	809.24	807.97	0.39	14

**RCP & ERCPC Pipe Totals:**

42	187
48	397
66	1613
91" x 58"	105

**Total: 2302**

<b>Other Drain:</b>	
open ditch	1198
*box culvert	60
<b>Total:</b>	<b>1258</b>

**\*Indicates Dual Pipes**

The length of the drain due to the changes described above is now **3560 feet**. It should be noted that the swale listed in my above mentioned report was installed. However, this was not listed in

the linear footage of drain as it runs parallel to the 66" RCP line north of SR 238. The original Wheeler & Wheeler was removed from Sta. 17+12 to Sta. 47+54. Also removed was 105 feet of 18" RCP installed with the Arbor Grove Relocation. Therefore, the overall watershed gained 413 feet of drain.

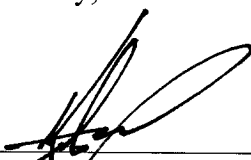
The non-enforcement was approved by the Board at its meeting on October 24, 2005 and recorded under instrument #200600055540.

The following sureties were guaranteed by Fidelity & Deposit Company and released by the Board on its October 24, 2005 meeting.

**Bond-LC No:** 7574482  
**Insured For:** Storm Sewers  
**Amount:** \$495,525.00  
**Issue Date:** September 1, 2005

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

Sincerely,



---

Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/slm

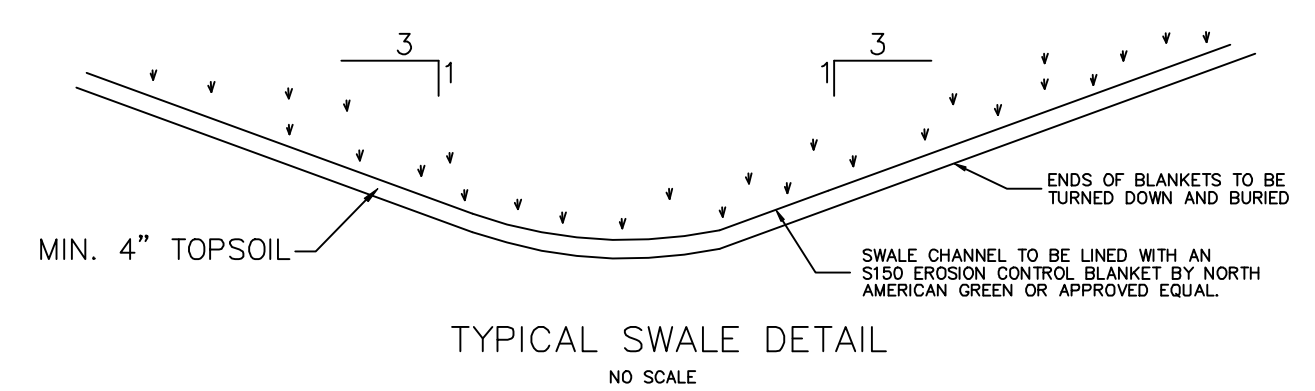
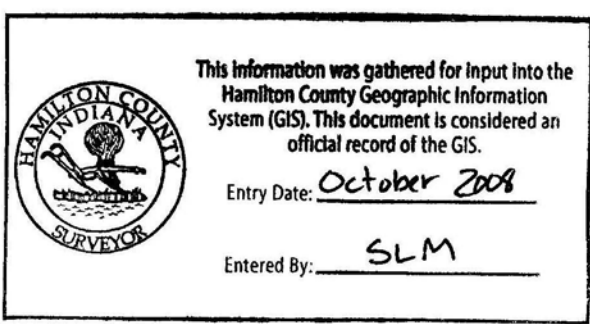
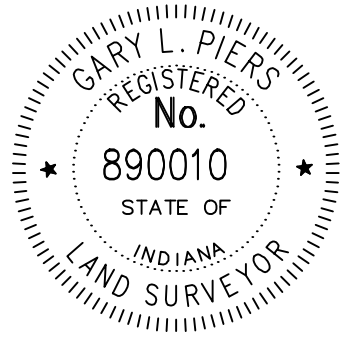
I hereby certify the As-Built information as shown is true and correct to the best of my knowledge and belief and is taken from a field survey conducted by Piers & Associates, Inc.

As-Built information for this project was collected on or before November 10, 2006. Witness my hand and seal this the 22nd day of November, 2006.

Gary L. Piers  
Registered Land Surveyor No. 890010  
State of Indiana

AS - BUILT

00.00 = As-Built Elevation



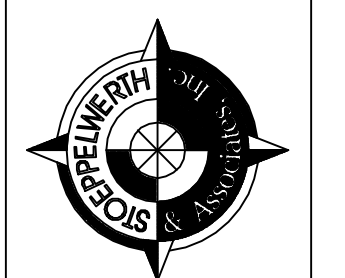
SCALE: 1" = 60'



DWN. BY	ADC	DATE	MARK	REVISIONS	BY
	WAB	8/22/05		REVISED OFFSITE DRAIN SEWER	TWF
	WAB	8/22/05		REVISED GRADES & ADD CONTOURS	TWF
	WAB	8/22/05		ADD SWALE & GRADES	TWF
	WAB	5/17/06		ADD TEMP LEGAL DRAIN CONNECTION & REV STRM	TWF

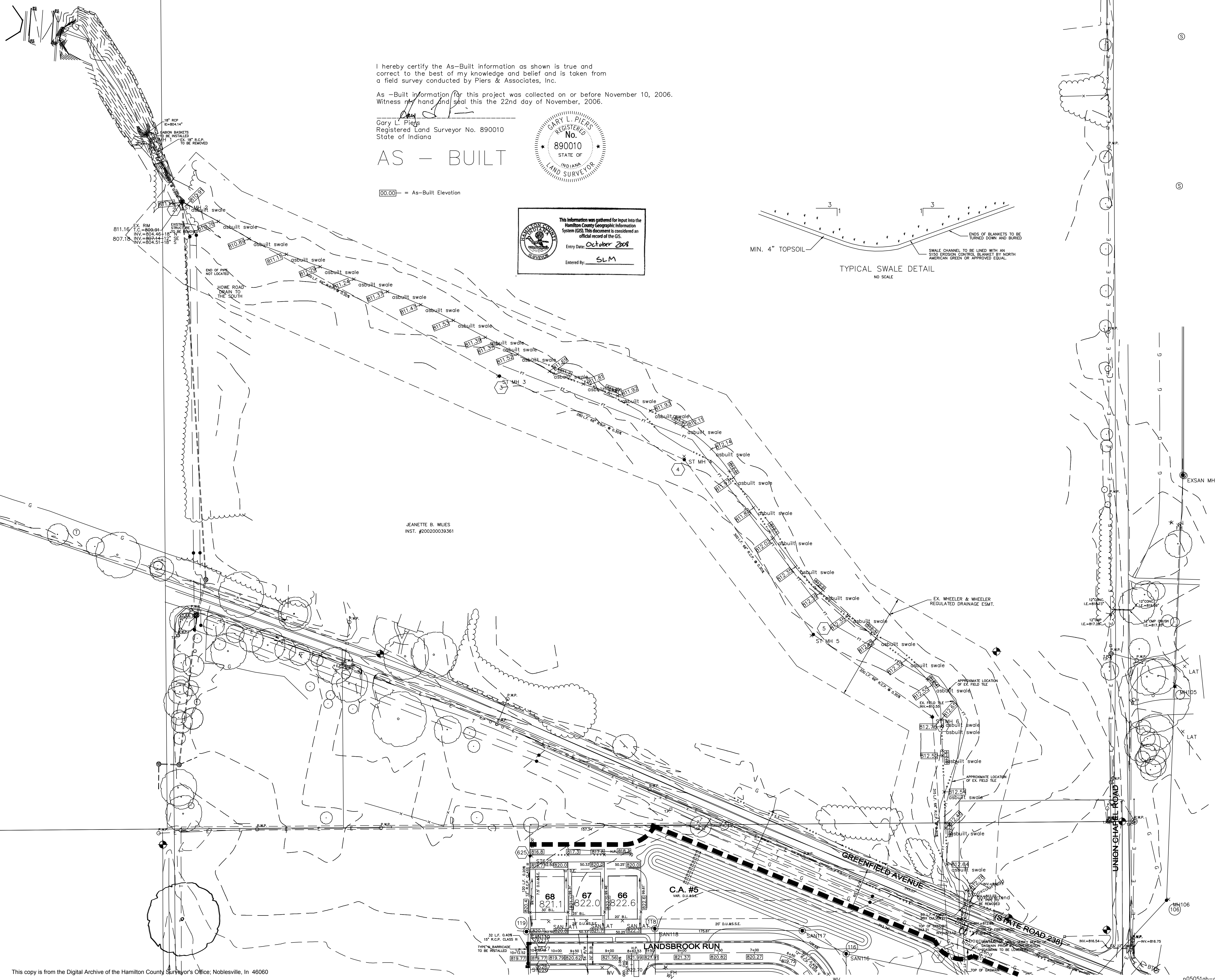
CERTIFIED: 6/2/03

CONSULTING ENGINEERS - LAND SURVEYORS  
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
INDIANAPOLIS INDIANA

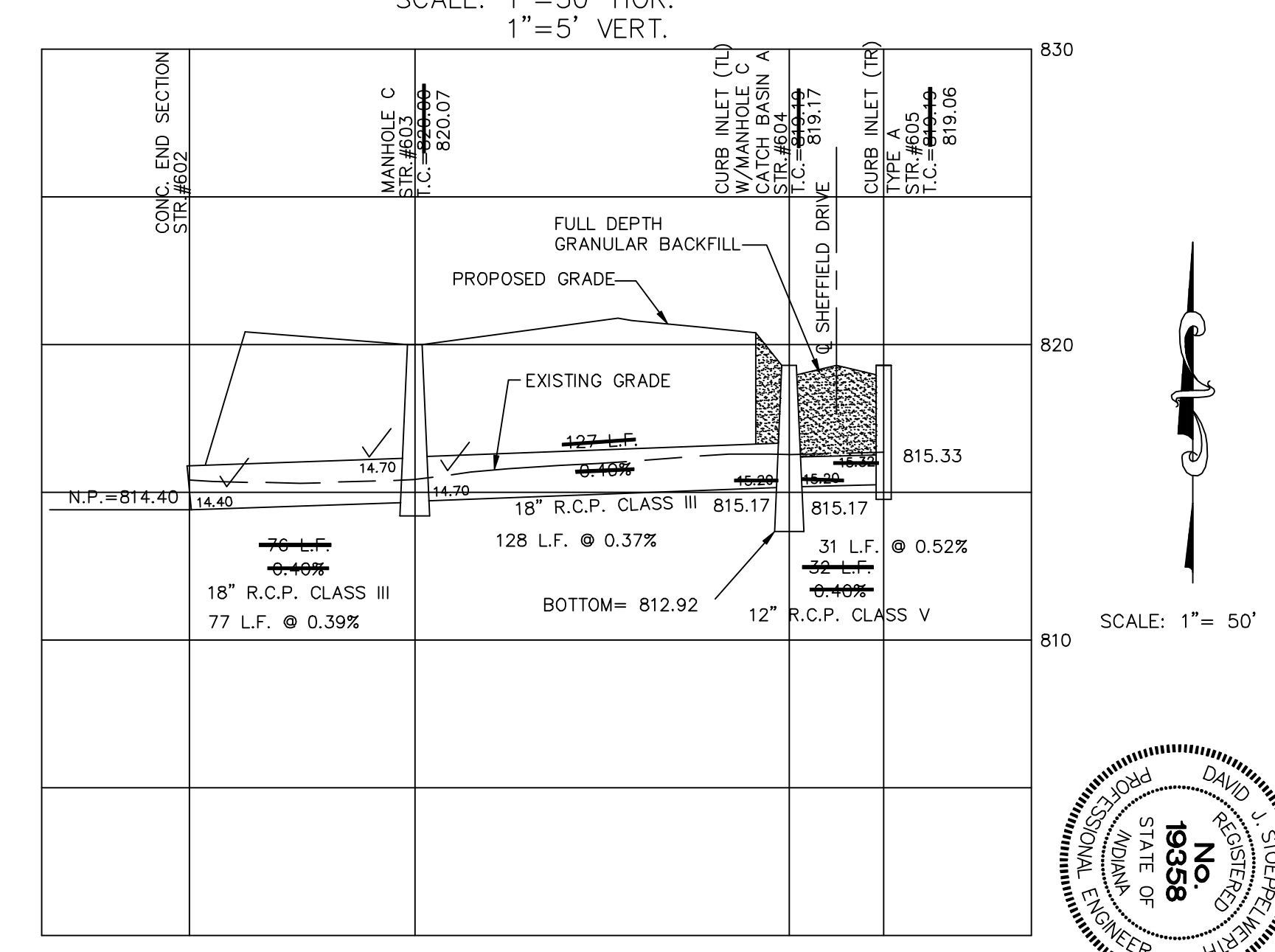
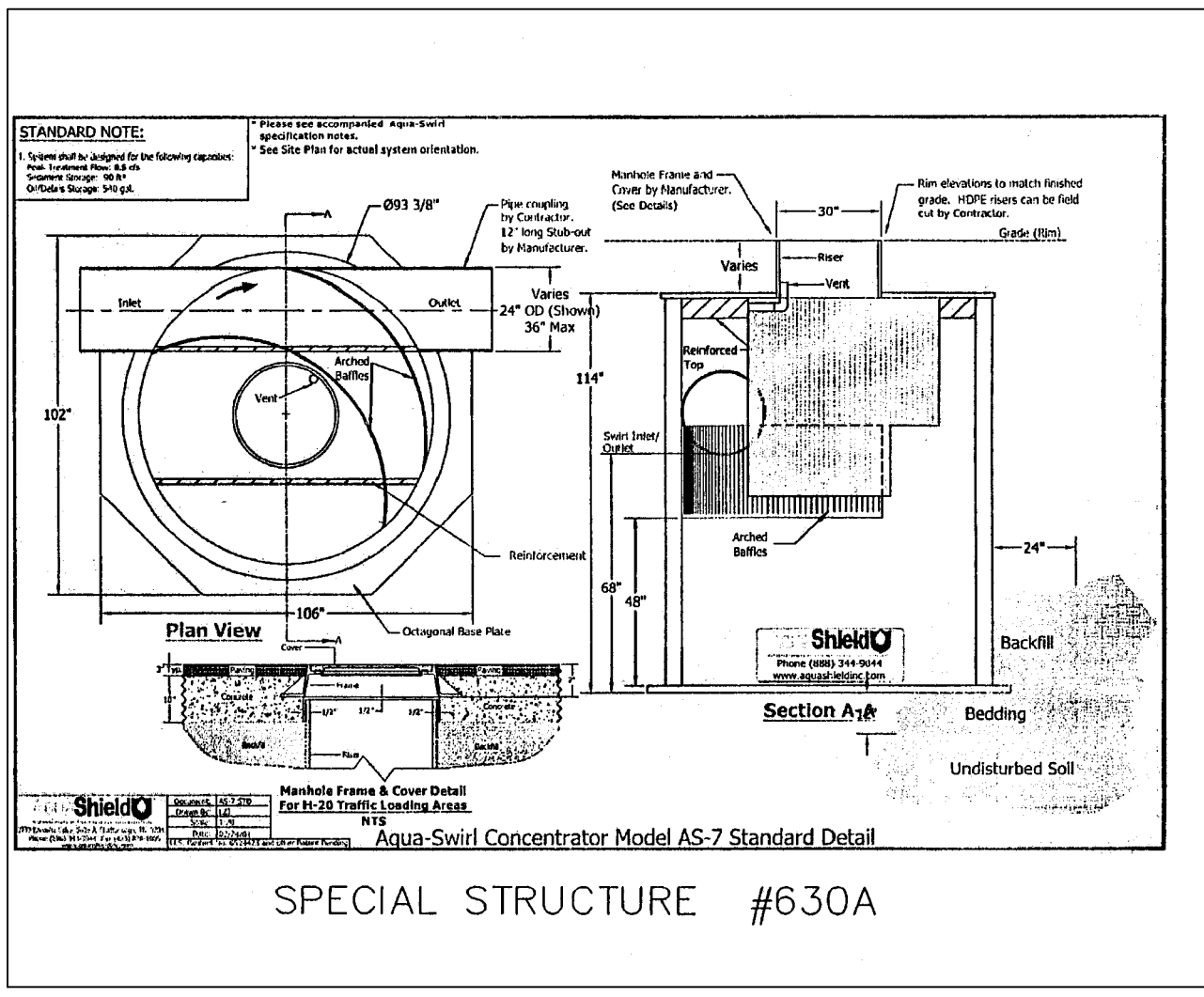
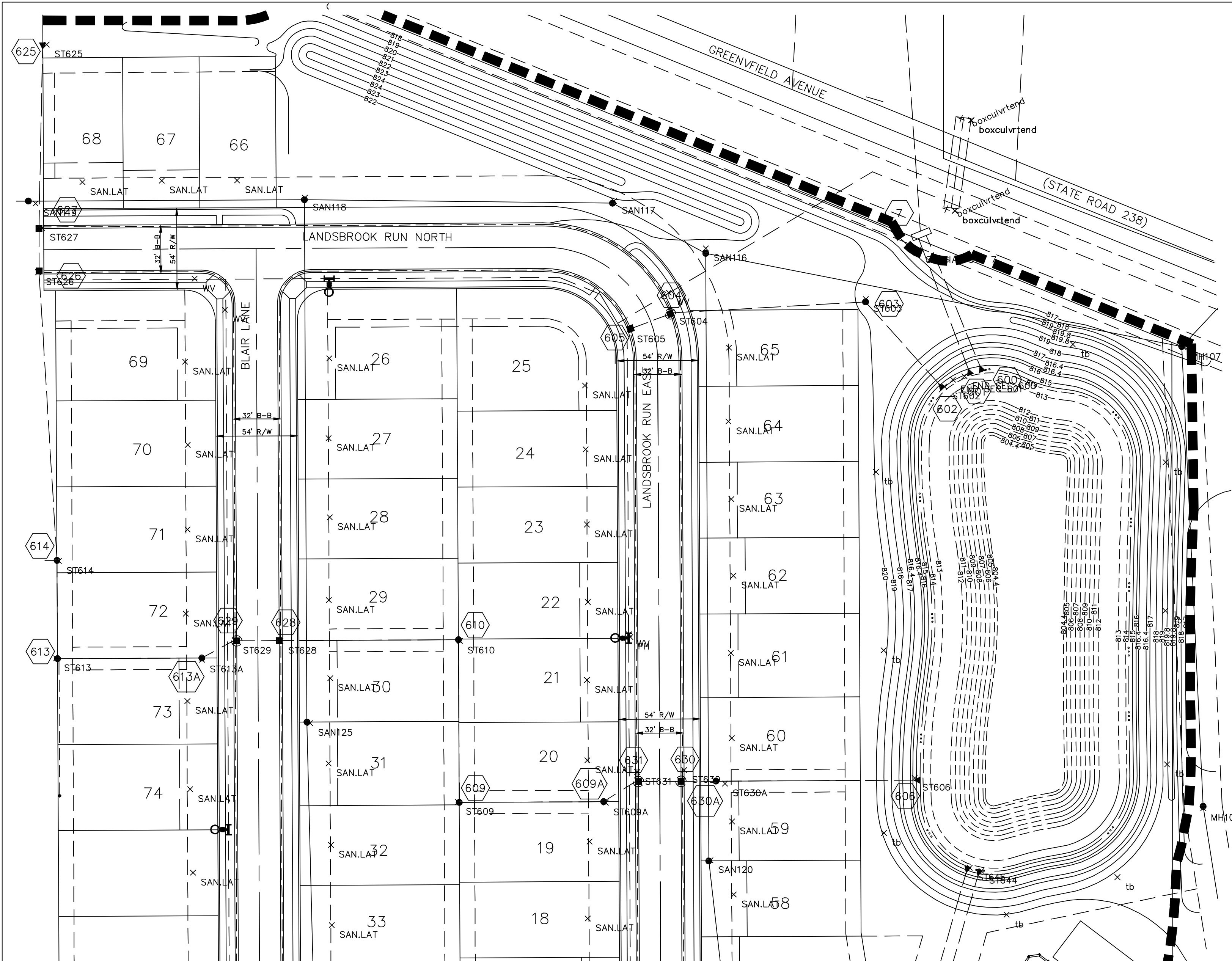


OFFSITE DRAINAGE PLAN  
BRIGHTON KNOLL, SECTION 1  
NOBLESVILLE

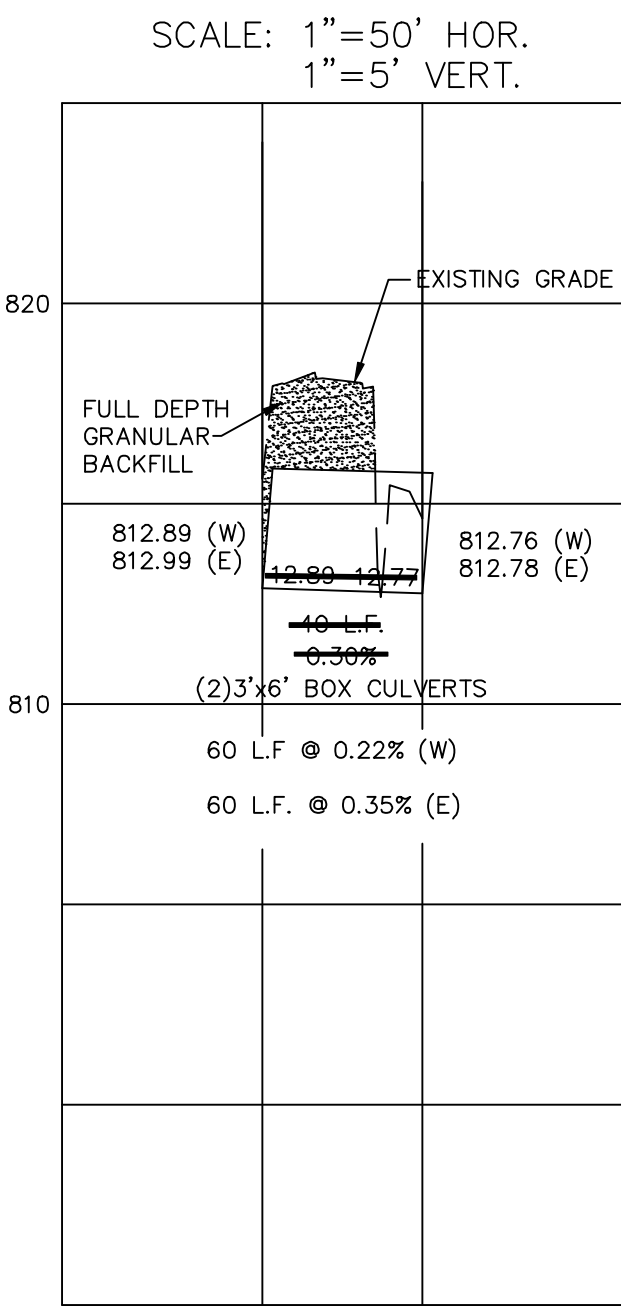
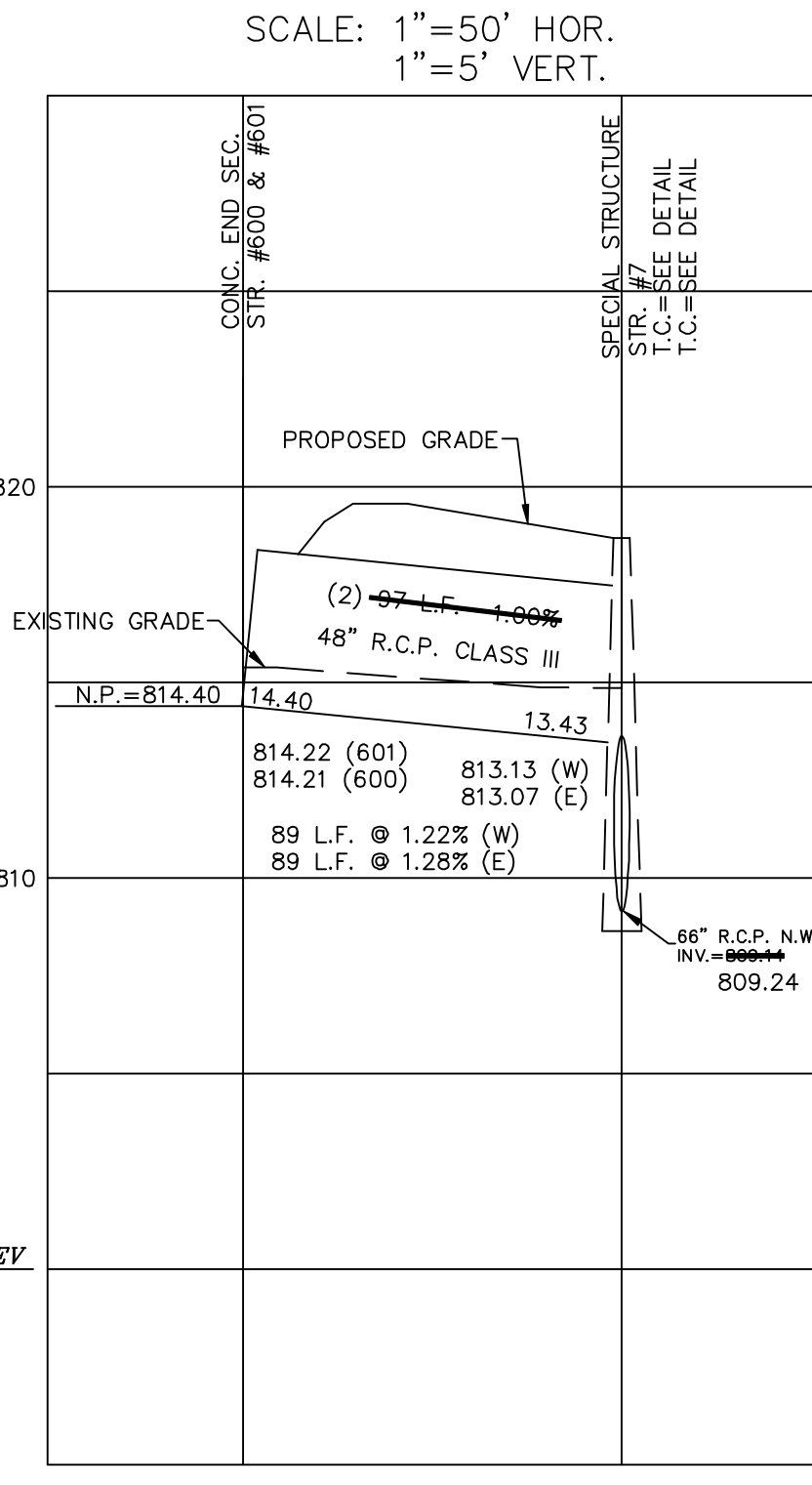
SHEET NO.  
C205  
JOB NO. 43400







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: **October 2008**  
 Entered By: **SLM**



I hereby certify the As-Built information as shown is true and correct to the best of my knowledge and belief and is taken from a field survey conducted by Piers & Associates, Inc.  
 As -Built information for this project was collected on or before March 13, 2006. Witness my hand and seal this 25TH day of APRIL, 2006.

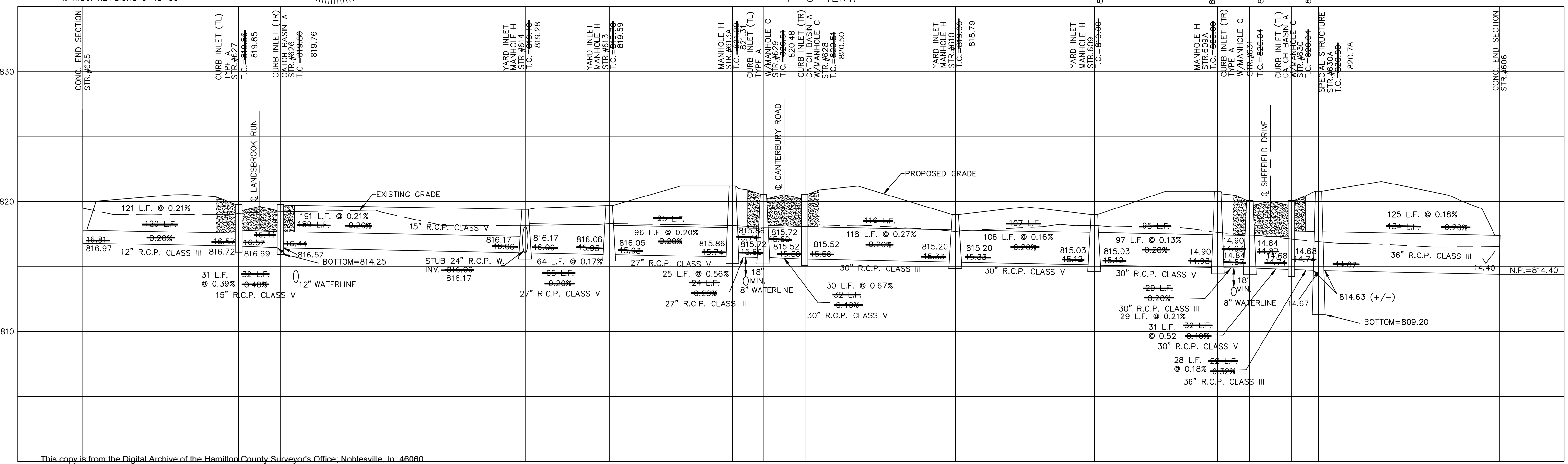
Gary L. Piers  
 Registered Land Surveyor No. 890010  
 State of Indiana



AS - BUILT

1. MISC. REVISIONS 5-18-06

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



**AQUA-SWIRL™ SPECIFICATION NOTES**  
 for  
**The City of Noblesville**

- Manufacturer shall be responsible for complete assembly of Aqua-Swirl Concentrator.
- Swirl Concentrator shall be fabricated from high-density polyethylene (HDPE) ASTM F 744 and shall meet 24" R.C.P. per ASTM D 3359. The Swirl Concentrator and Grander (see Part 02) shall be fabricated from plastic with 100% HDPE (see Part 02).
- HDPE shell and internal components shall be extruded, welded on ring accepted welding practices. Shell shall be supplied by manufacturer and welded on field and section.
- If filling with debris, grade elevation (set) or concrete pad rotor alignment, they may be set in field after installation of shell Concentrator by Contractor.
- Manufacturer shall supply direct access to Swirl Concentrator via 36" (min) dia (12" dia) which can be field cut to match finished grade by Contractor.
- Contractor shall supply pipe coupling to and from Swirl Concentrator, which shall be Fernox or Fernox style pressure rated with stainless steel flange ends and shall be provided upon request.
- Contractor shall ensure excavation and all lead level Concentrator. Contractor is responsible for bedding and backfill around Swirl Concentrator as detailed on the plan. (See notes 11 and 12)
- Manufacturer shall supply standard manhole frames (M) and covers (C), (Traffic rated 100)
- Where public loading (M-20) is required or indicated, a professional engineer shall seal an access over the shell Swirl Concentrator per separate design as calculated by Engineer. Sample of typical concrete design detail is available upon request.
- Rollers shall be placed around access ways to prevent access to prevent inadvertent loading for maintenance vehicles. Layout of typical loading detail and recommended locations of rollers around the Swirl Concentrator shall be provided upon request.
- Separation and Bedding: The trench and backfill shall be constructed in accordance with ASTM D-2321, Section 6, Trench Backfills, and Section 7, Requirements. The RCP shell Concentrator shall be installed on a stable base consisting of 12" crushed Class I stone material. (Class I #8 crushed stone; contains little or no fines) as defined by ASTM D2321, Section 5, Materials, and concrete to 3% error density. All required safety accessories for Swirl Concentrator installation are the responsibility of the Contractor.
- Backfill Requirements: Backfill materials shall be Class I stone materials, (Class I #8 crushed stone; angular, large void content, void content, contains little or no fines) as defined by ASTM D2321, Section 5, Materials, and bedding materials shall be 1/2" of 3/4" stone bedding material and for the full height of the Swirl Concentrator (including the shell) extending laterally to undisturbed soil.

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

DAVID J. STEPPERTH  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 19358  
 STATE OF INDIANA  
 6/2/03

CERTIFIED: 6/2/03

DAVID J. STEPPERTH  
 CONSULTING ENGINEERS - LAND SURVEYORS  
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
 INDIANAPOLIS, INDIANA

STORM SEWER PLAN & PROFILES  
 BRIGHTON KNOLL, SECTION 1  
 NOBLESVILLE

SHEET NO.  
**C600**

REVISIONS

NO.	DATE	MARK	REVISIONS
10/6/05	10/6/05		REVISED INLET BOX & B31
9/2/05	9/2/05		REV BOX CULVERTS PROFILE
8/13/05	8/13/05		ADD 2 NEW PROFILES
3/14/05	3/14/05		CHG PIPE CLASS INFO ON STR#609A-#631
11/29/04	11/29/04		REVISE STORM PROFILES & ADD DIT'S
12/09/04	12/09/04		REV PIPE CLASS

DATE: 6/2/03

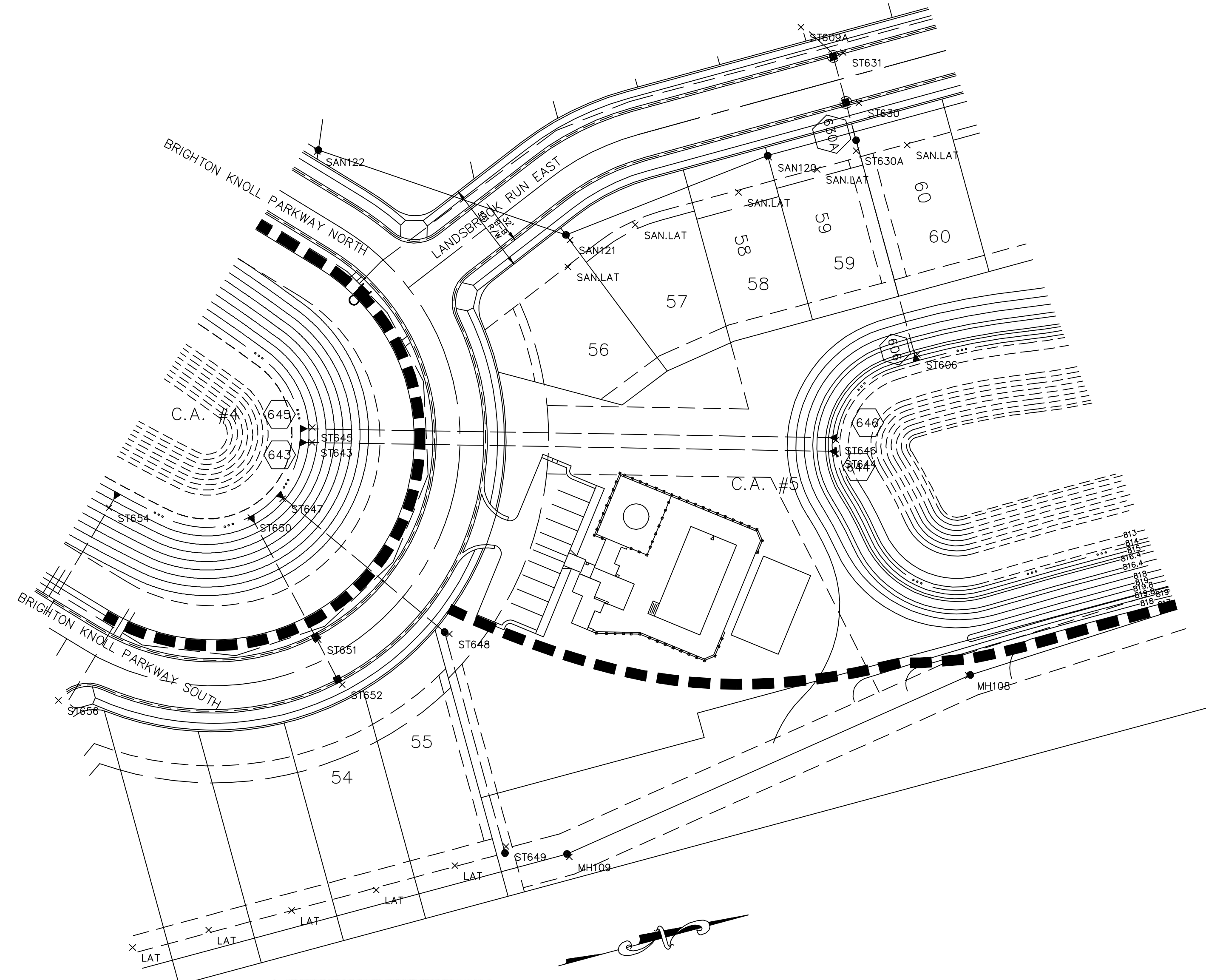
BY:

OFFICE OF THE HAMILTON COUNTY SURVEYOR  
**UNDERWATER DISCHARGE NOT ALLOWED**

**OPTIONS FOR END SECTIONS:**  
 -METAL SHOWN/REQUIRES TOE PLATE  
 -PRECAST REQUIRES ANCHOR  
 -CONCRETE SLOPEWALL  
 -CONCRETE HEADWALL

**LAKE OUTLET DETAIL FOR LAKE CROSS-SECTION OPTION 3**  
 (DRAWING NOT TO SCALE)  
**HAMILTON COUNTY SURVEYOR'S OFFICE**

APPROVED: *[Signature]* KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE 4 Jan 00 STANDARD PLAN D-11



OFFICE OF THE HAMILTON COUNTY SURVEYOR  
**DEBRIS GUARD**

Arch Pipe Depth	Arch Pipe Diameter	No. of Bars	Bar Size	Spacing	Bar Dia.	Bar Dim.
15	1/2	3	5/8	1/2	4	1/2
16	1/2	4	5/8	1/2	4	1/2
17	1/2	5	5/8	1/2	5	1/2
18	1/2	6	5/8	1/2	6	1/2
19	1/2	7	5/8	1/2	7	1/2
20	1/2	8	5/8	1/2	8	1/2
21	1/2	9	5/8	1/2	9	1/2
22	1/2	10	5/8	1/2	10	1/2
23	1/2	11	5/8	1/2	11	1/2
24	1/2	12	5/8	1/2	12	1/2
25	1/2	13	5/8	1/2	13	1/2
26	1/2	14	5/8	1/2	14	1/2
27	1/2	15	5/8	1/2	15	1/2
28	1/2	16	5/8	1/2	16	1/2
29	1/2	17	5/8	1/2	17	1/2
30	1/2	18	5/8	1/2	18	1/2
31	1/2	19	5/8	1/2	19	1/2
32	1/2	20	5/8	1/2	20	1/2
33	1/2	21	5/8	1/2	21	1/2
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41	1/2	29	5/8	1/2	29	1/2
42	1/2	30	5/8	1/2	30	1/2
43	1/2	31	5/8	1/2	31	1/2
44	1/2	32	5/8	1/2	32	1/2
45	1/2	33	5/8	1/2	33	1/2
46	1/2	34	5/8	1/2	34	1/2
47	1/2	35	5/8	1/2	35	1/2
48	1/2	36	5/8	1/2	36	1/2
49	1/2	37	5/8	1/2	37	1/2
50	1/2	38	5/8	1/2	38	1/2
51	1/2	39	5/8	1/2	39	1/2
52	1/2	40	5/8	1/2	40	1/2
53	1/2	41	5/8	1/2	41	1/2
54	1/2	42	5/8	1/2	42	1/2
55	1/2	43	5/8	1/2	43	1/2
56	1/2	44	5/8	1/2	44	1/2
57	1/2	45	5/8	1/2	45	1/2
58	1/2	46	5/8	1/2	46	1/2
59	1/2	47	5/8	1/2	47	1/2
60	1/2	48	5/8	1/2	48	1/2

**HAMILTON COUNTY SURVEYOR'S OFFICE**  
 APPROVED: *[Signature]* KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE 4 Jan 00 STANDARD PLAN D-12

TO BE USED FOR STR.#643,645

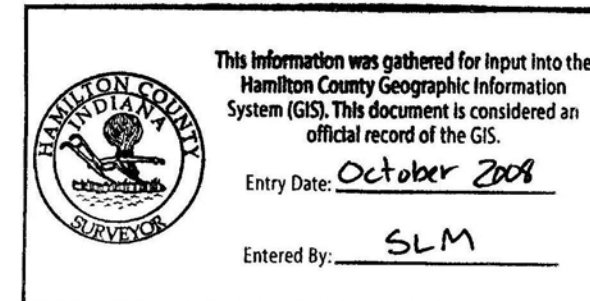
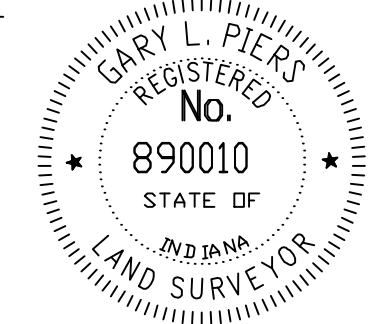
I hereby certify the As-Built information as shown is true and correct to the best of my knowledge and belief and is taken from a field survey conducted by Piers & Associates, Inc.

As-Built information for this project was collected on or before March 13, 2006. Witness my hand and seal this the 25TH day of APRIL, 2006.

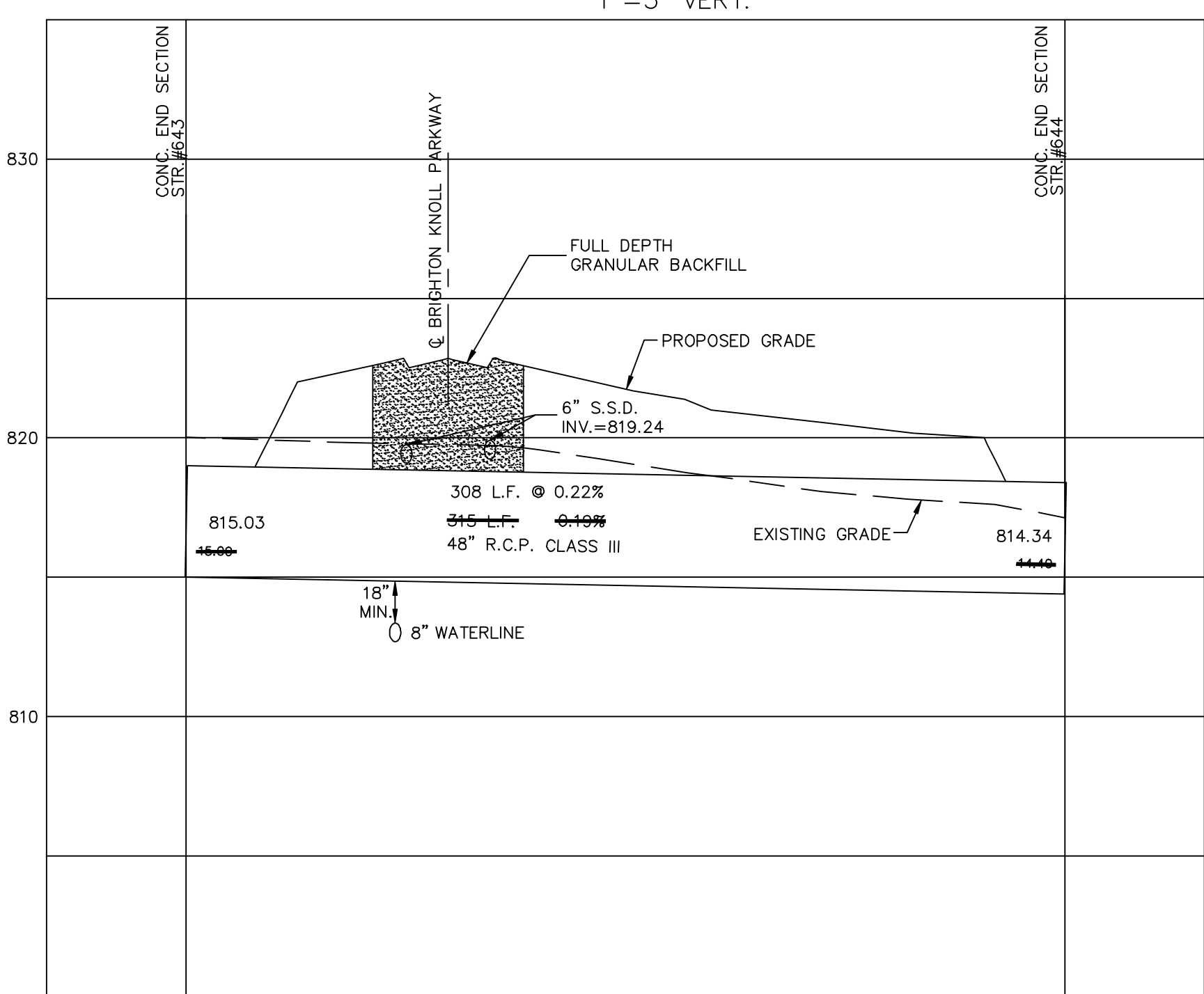
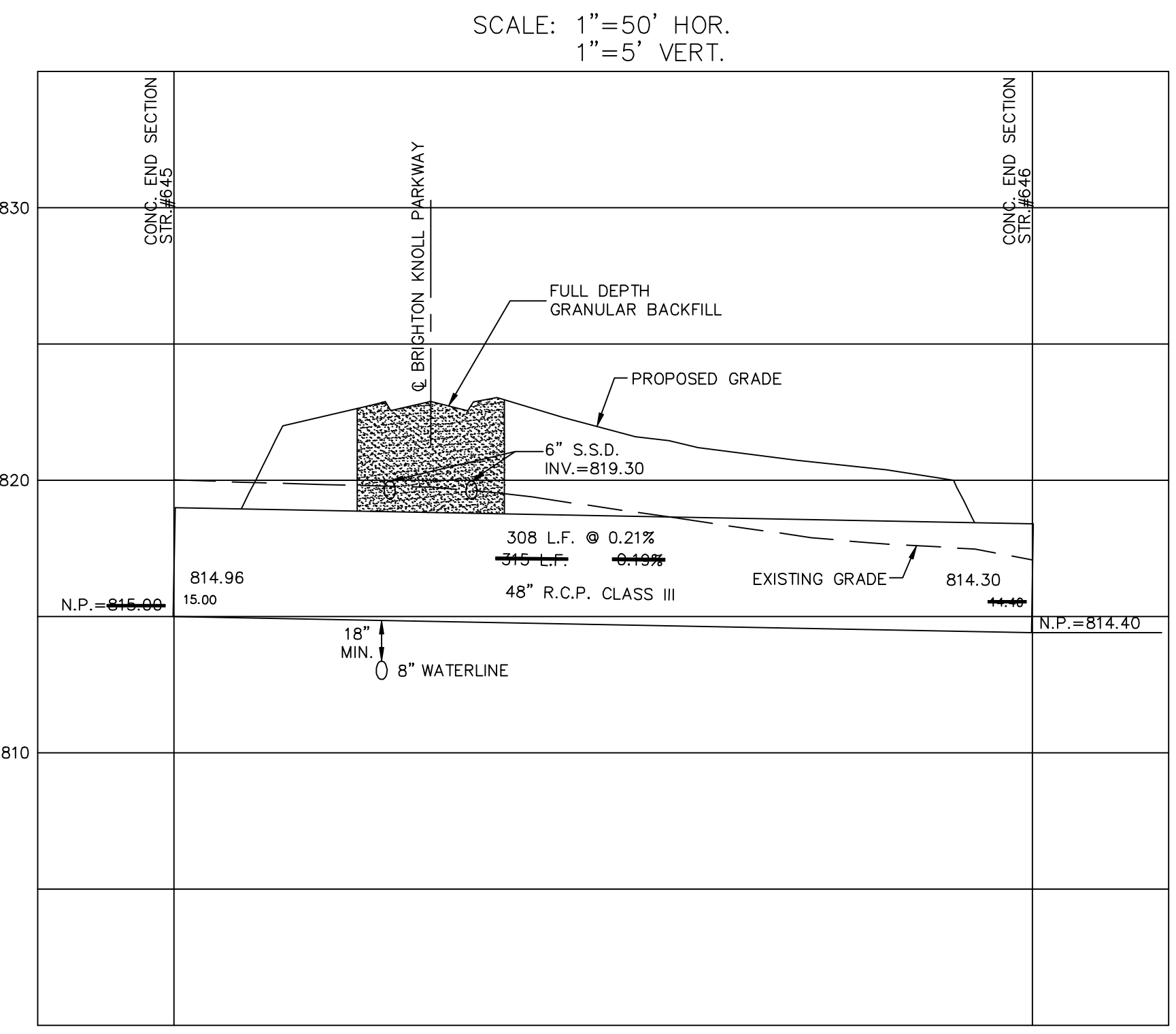
Gary L. Piers  
 Registered Land Surveyor No. 890010  
 State of Indiana

**AS - BUILT**

1. MISC. REVISIONS 5-18-06



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



OFFICE OF THE HAMILTON COUNTY SURVEYOR  
**ANCHOR FOR CONCRETE END SECTIONS**

**HAMILTON COUNTY SURVEYOR'S OFFICE**  
 APPROVED: *[Signature]* KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE 4 Jan 00 STANDARD PLAN 0-5

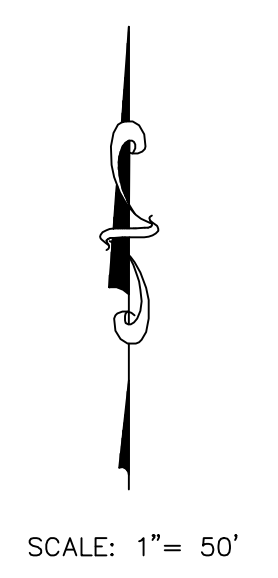
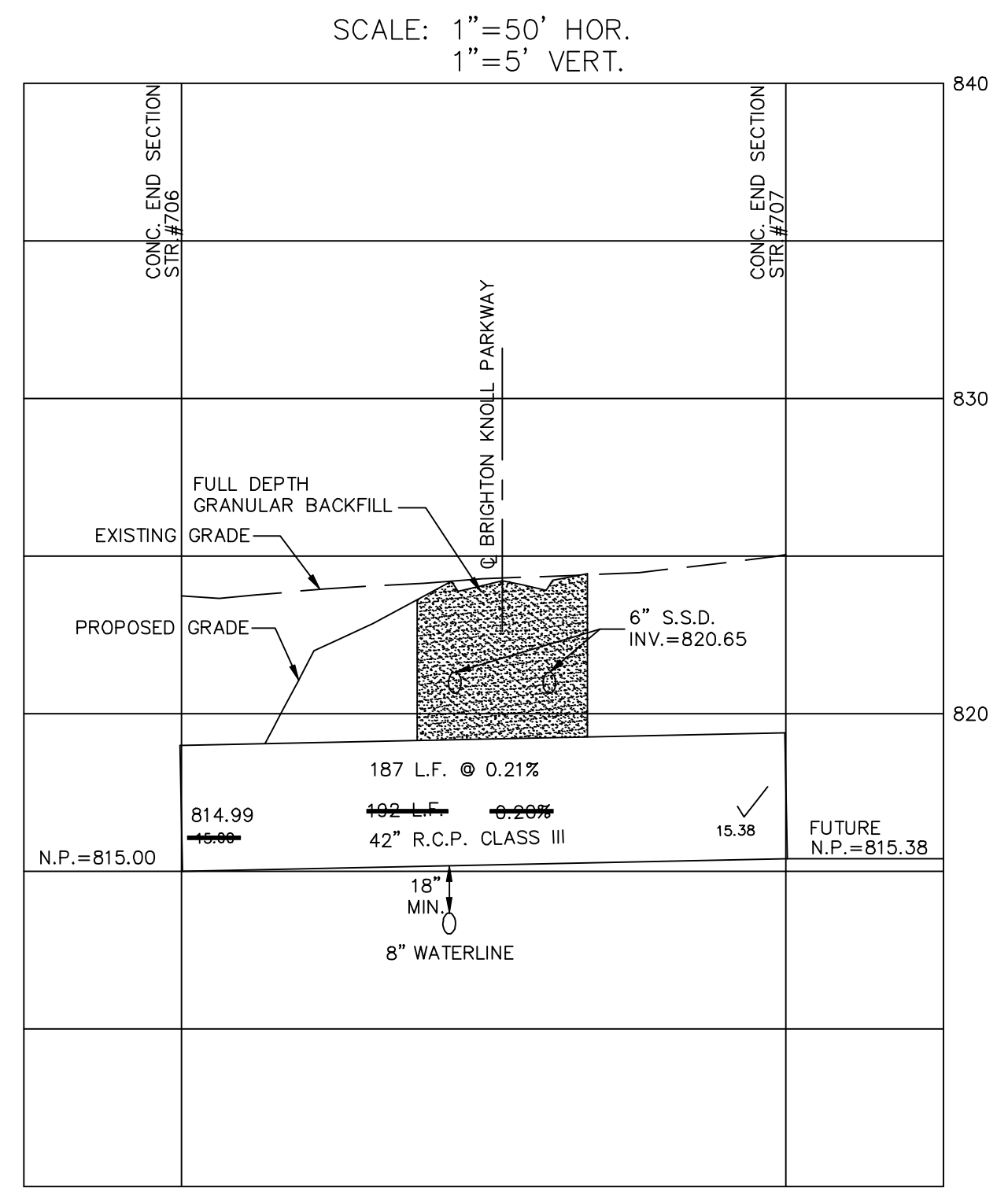
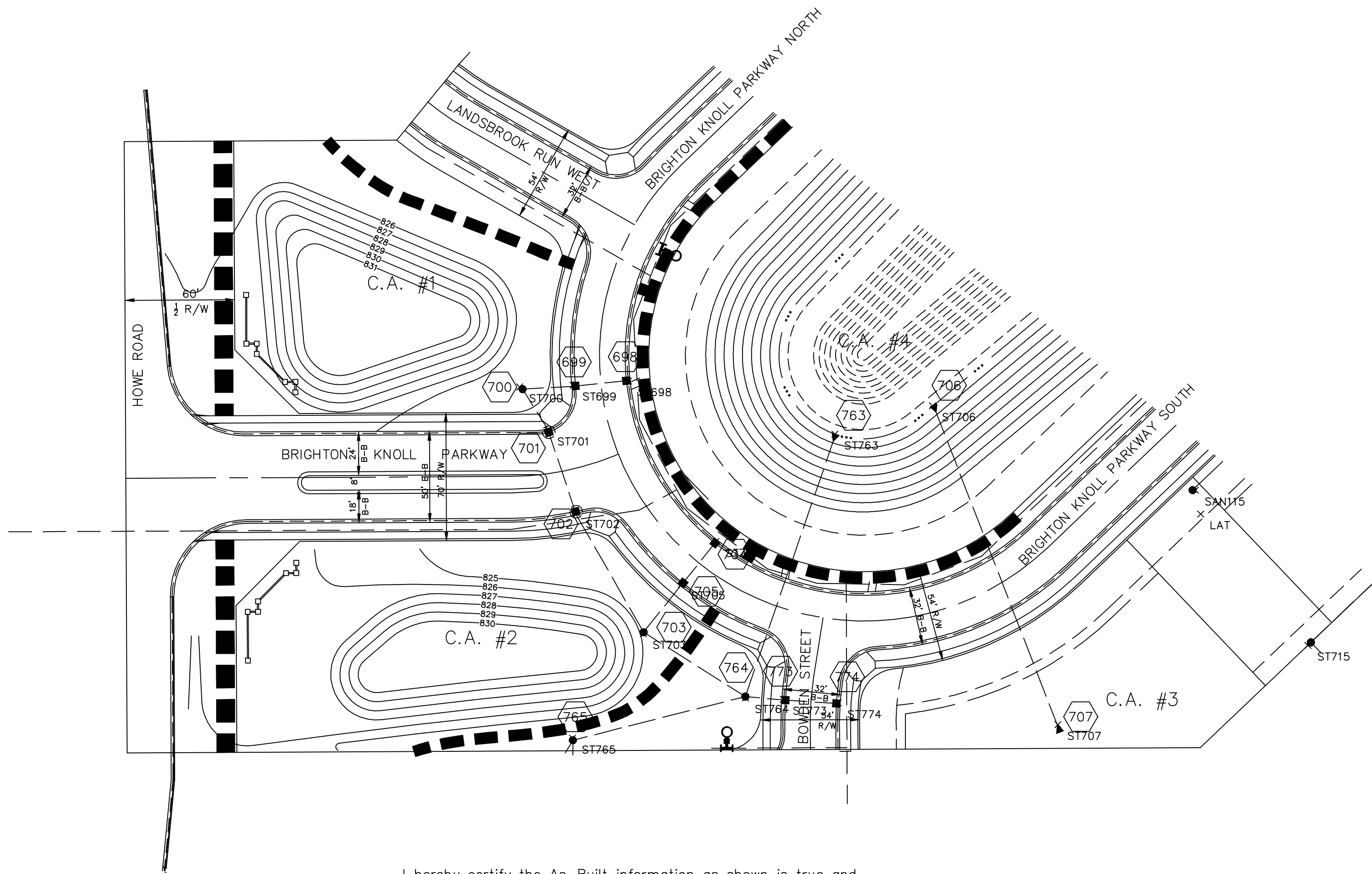
TO BE USED FOR STR.#643,645

CERTIFIED: 6/2/03  
 DWN BY: ADC  
 CHK BY: WAB  
 SCALE: 1" = 50'  
 DATE: 6/2/03  
 REVISIONS: BY

CONSULTING ENGINEERS - LAND SURVEYORS  
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
 INDIANAPOLIS, INDIANA

**STORM SEWER PLAN & PROFILES**  
**BRIGHTON KNOLL, SECTION 1**  
 NOBLESVILLE

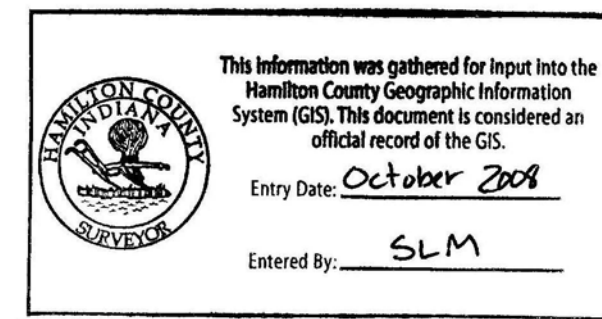
SHEET NO. **C602**  
 JOB NO. 43400



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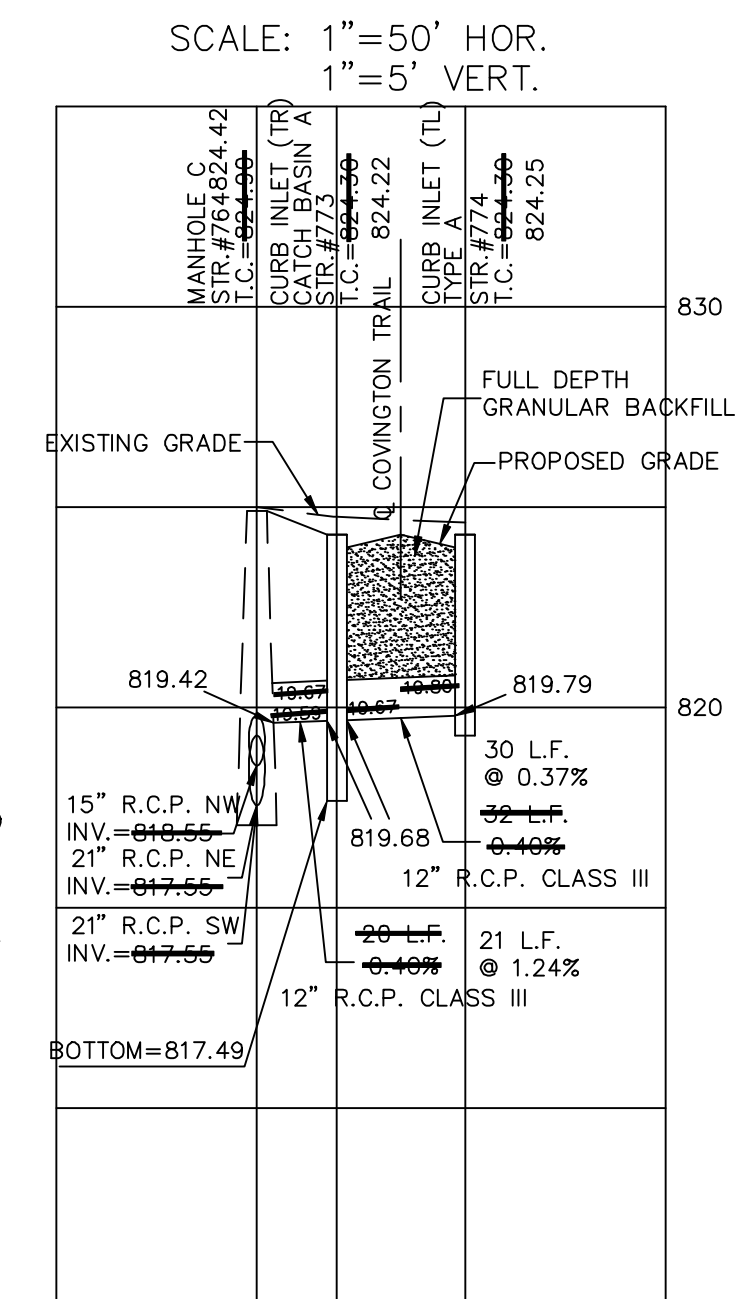
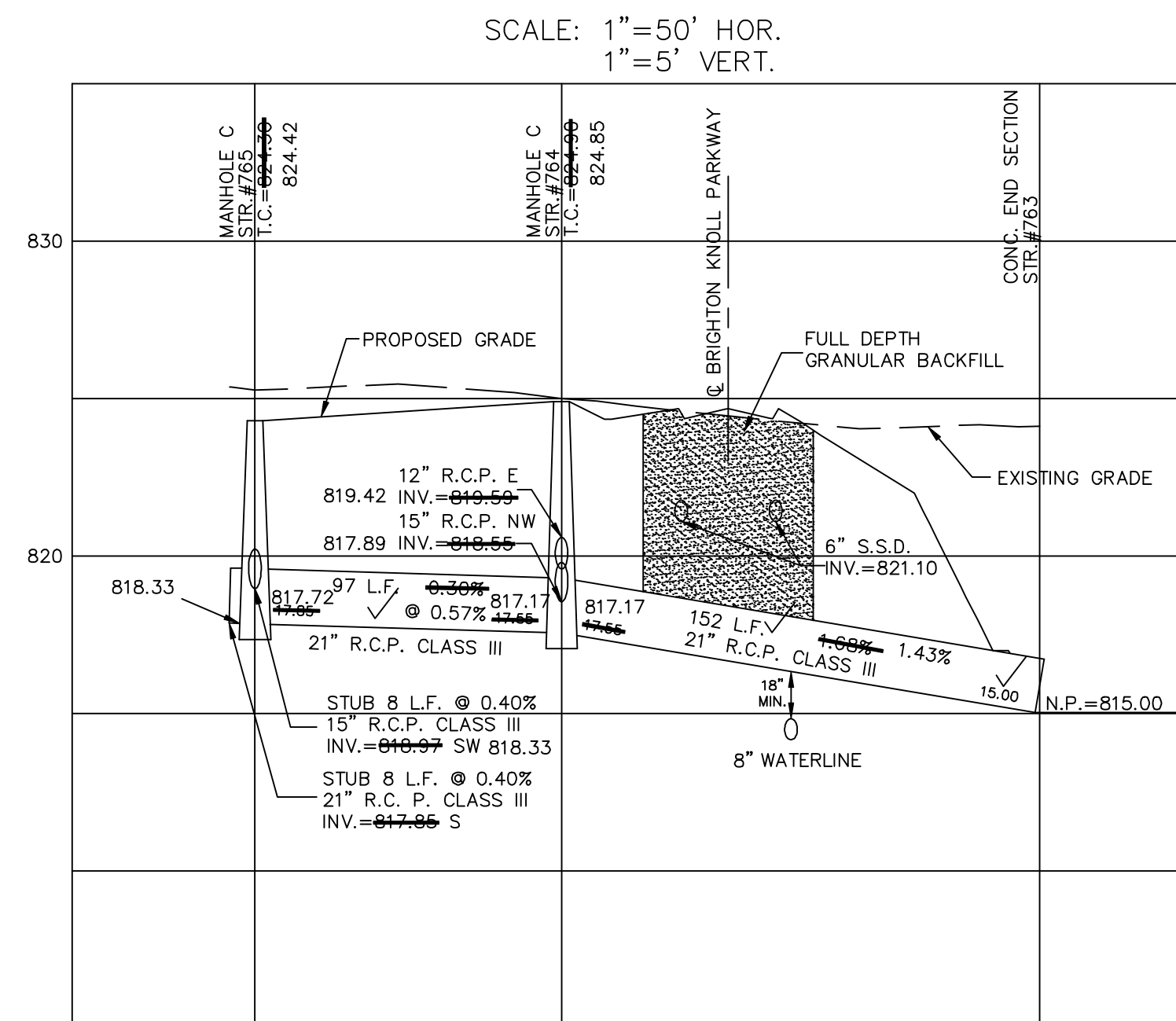
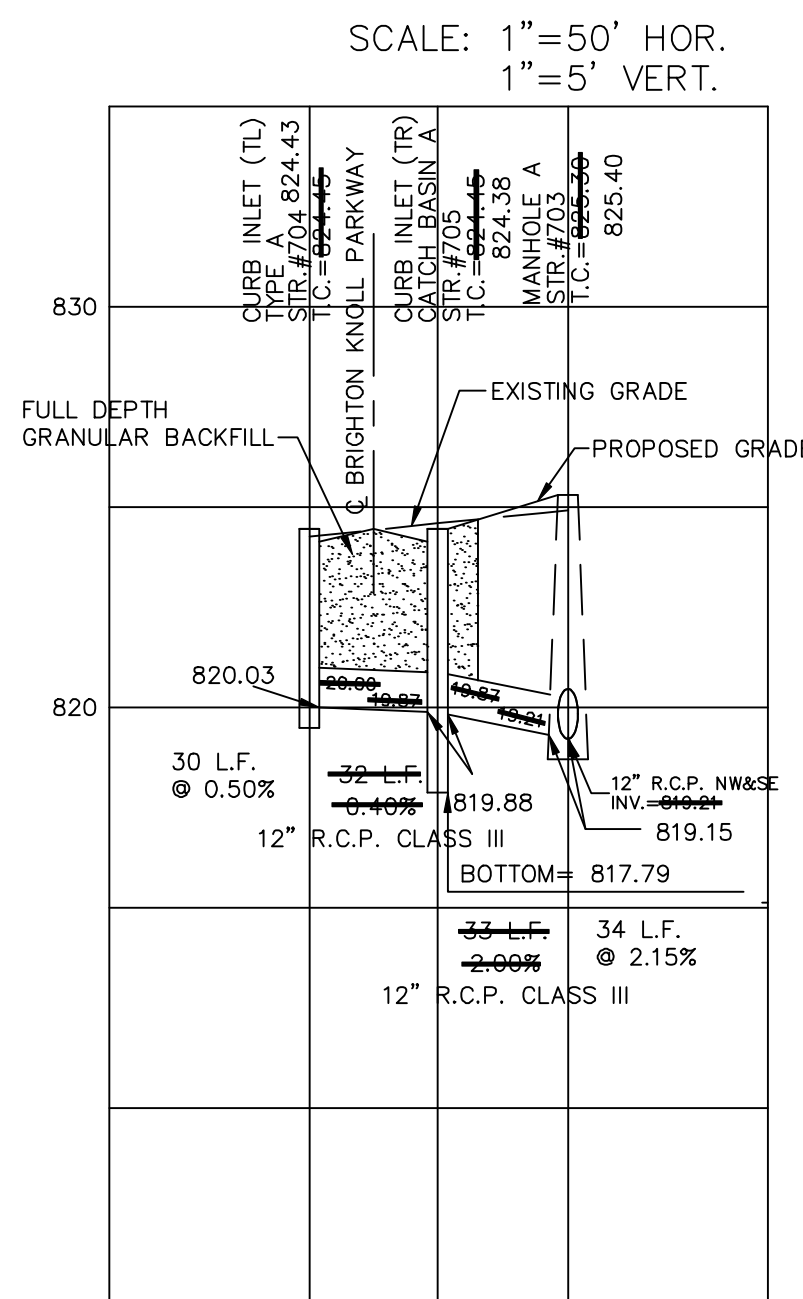
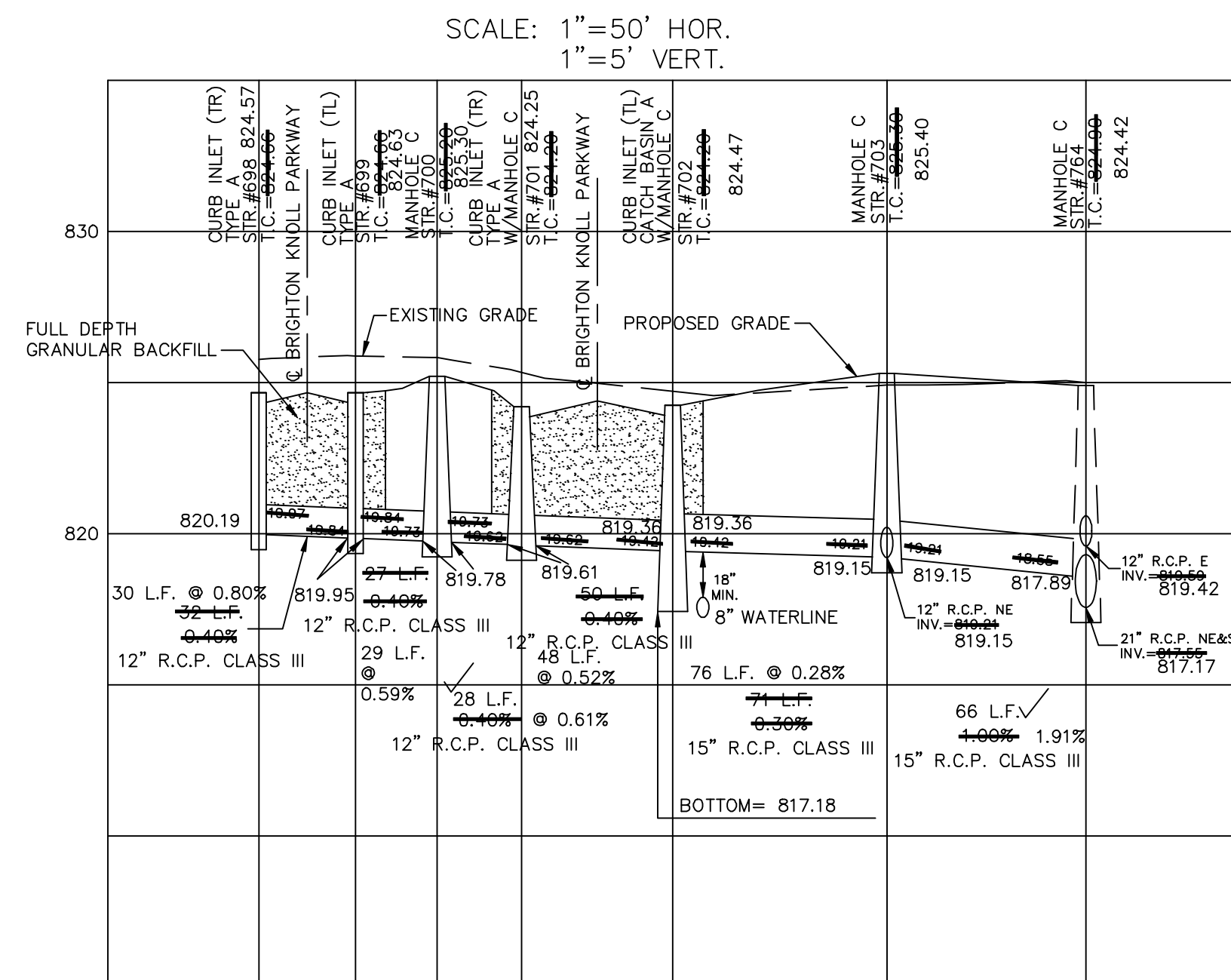
As -Built information for this project was collected on or before March 13, 2006. Witness my hand and seal this the 25TH day of APRIL, 2006.

Gary L. Piers  
Registered Land Surveyor No. 890010  
State of Indiana



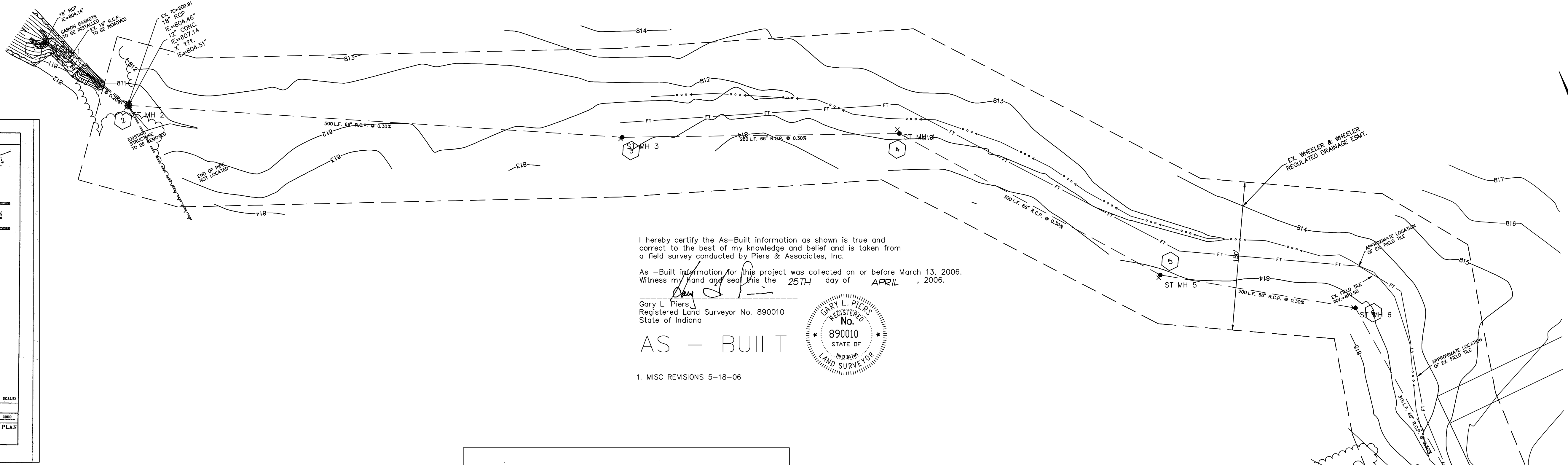
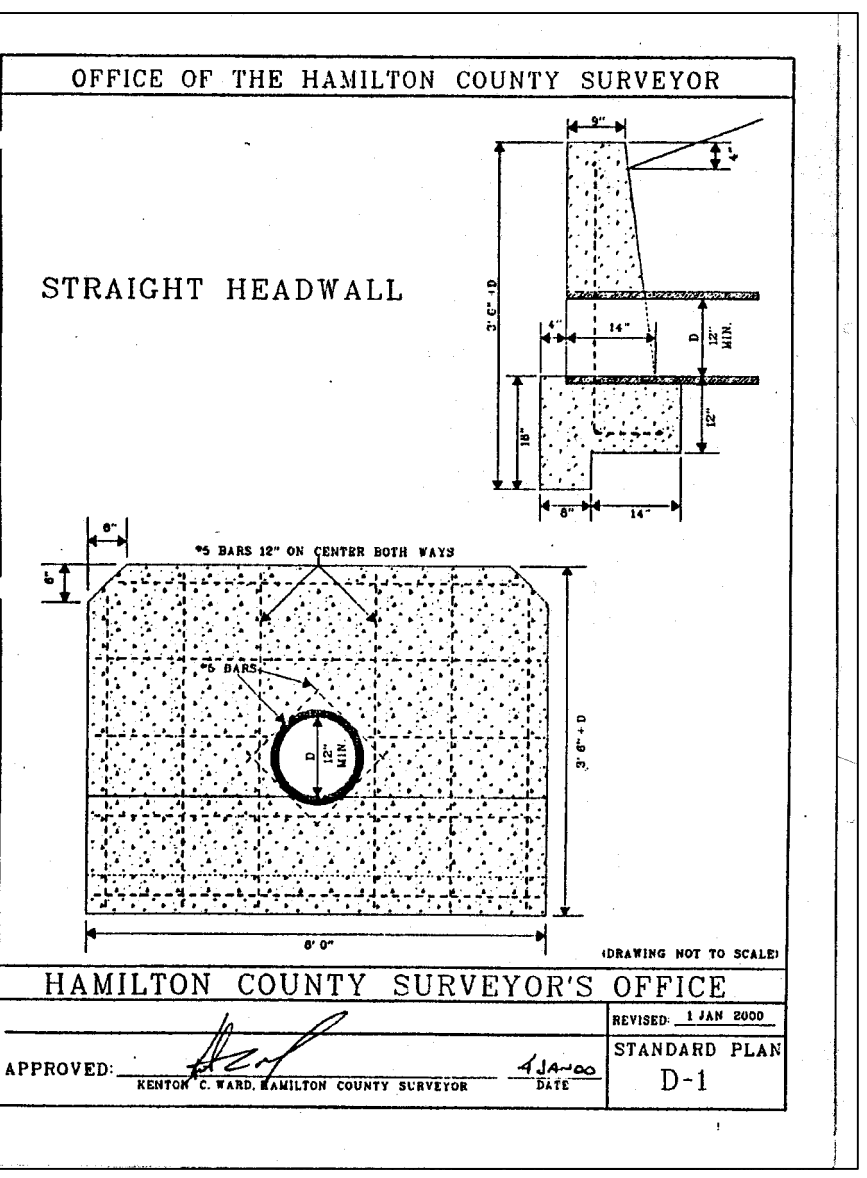
AS - BUILT

1. MISC. REVISIONS 5-18-06



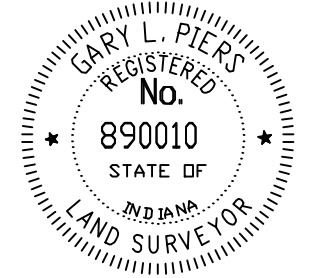
STORM SEWER PLAN & PROFILES  
BRIGHTON KNOLL, SECTION 1  
NOBLESVILLE

SHEET NO.  
C605



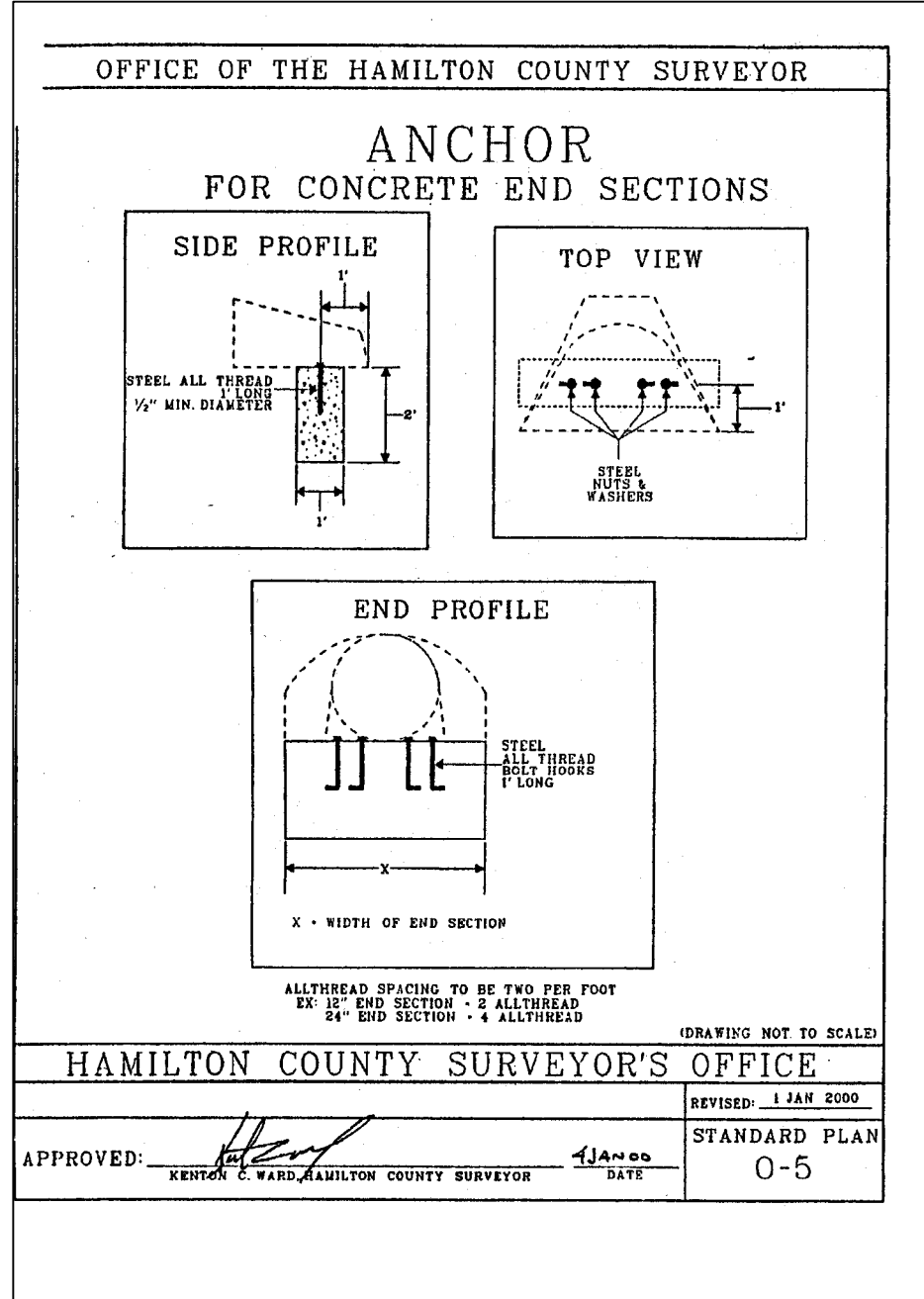
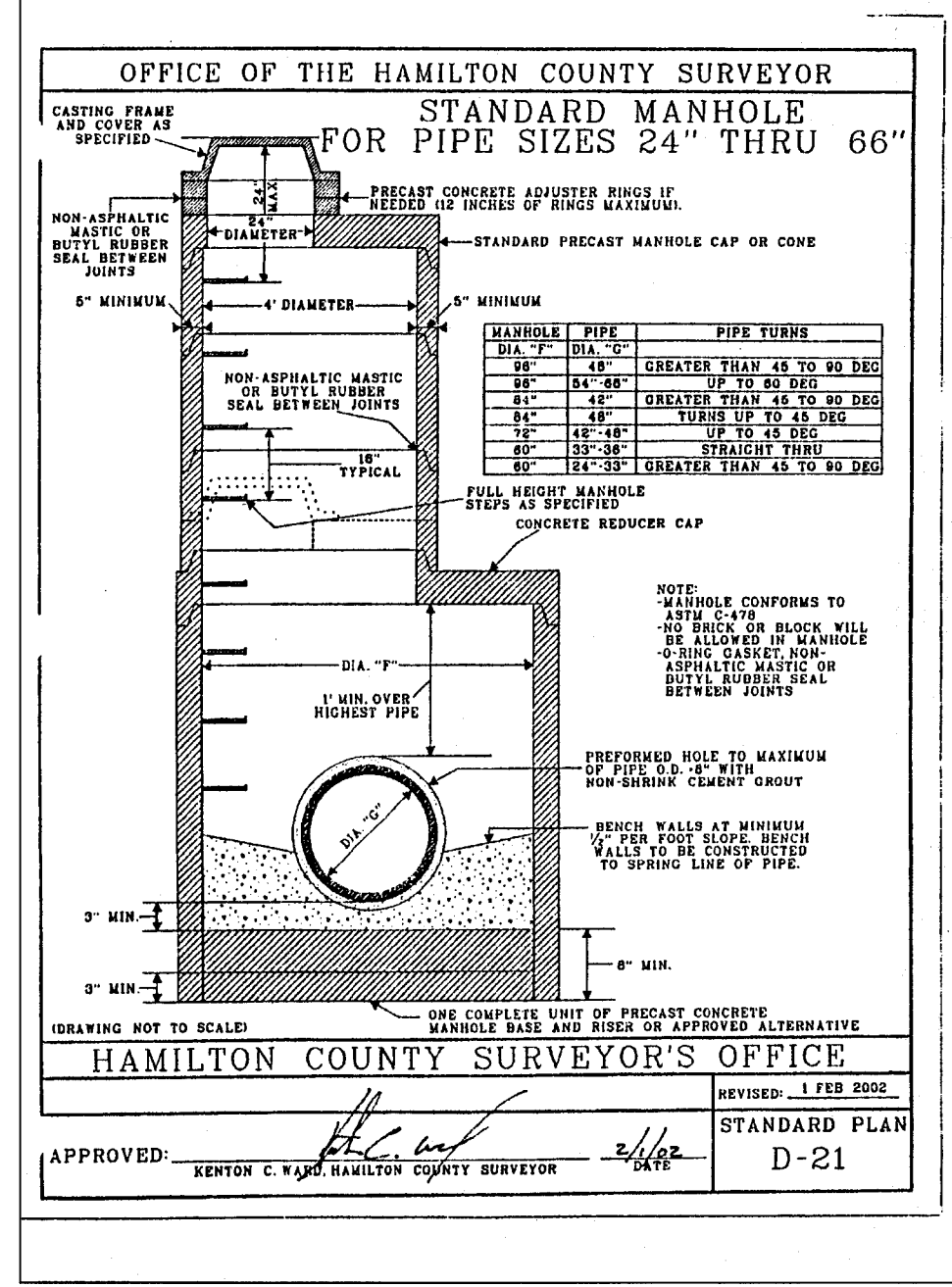
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State of Indiana



AS - BUILT

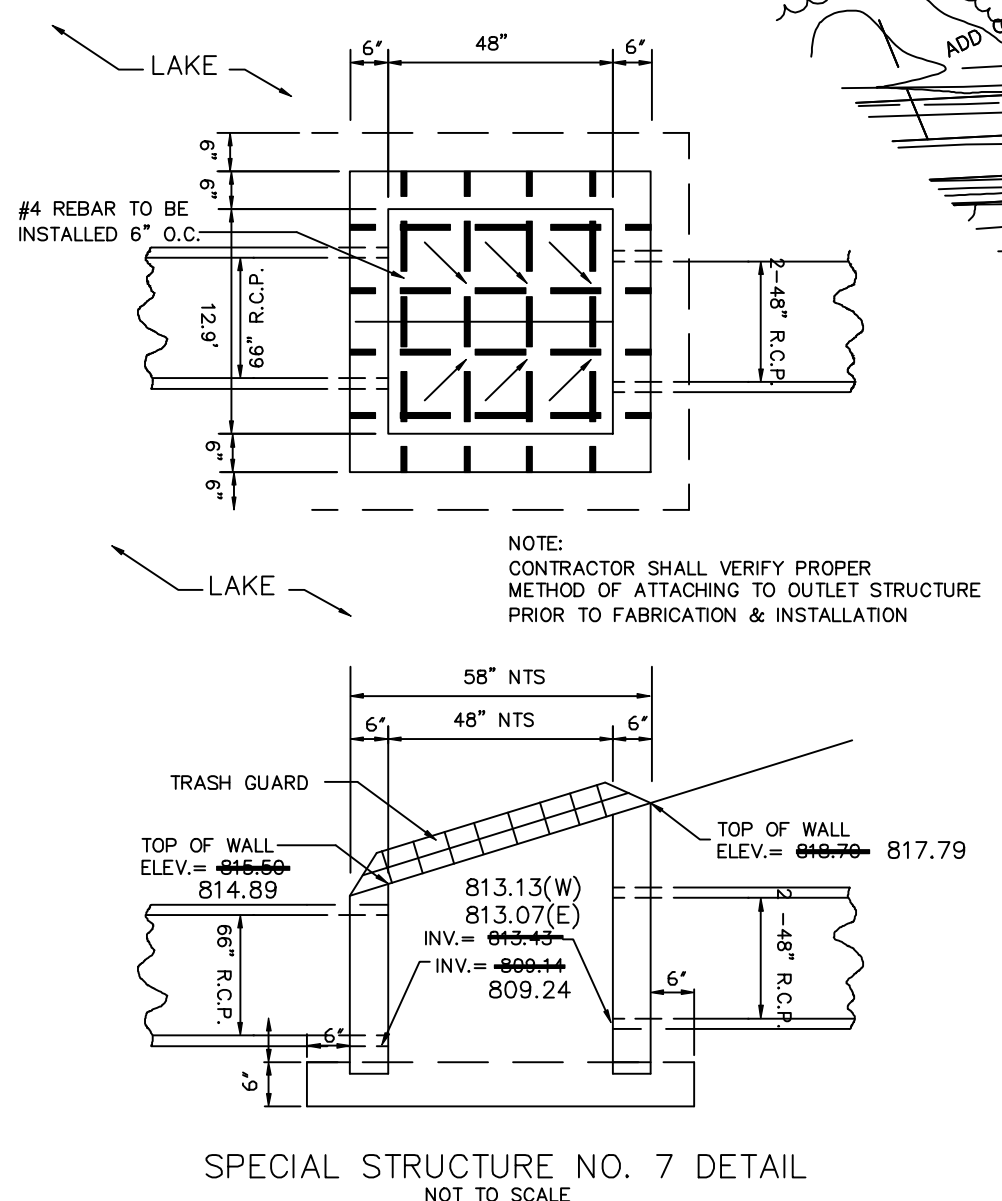
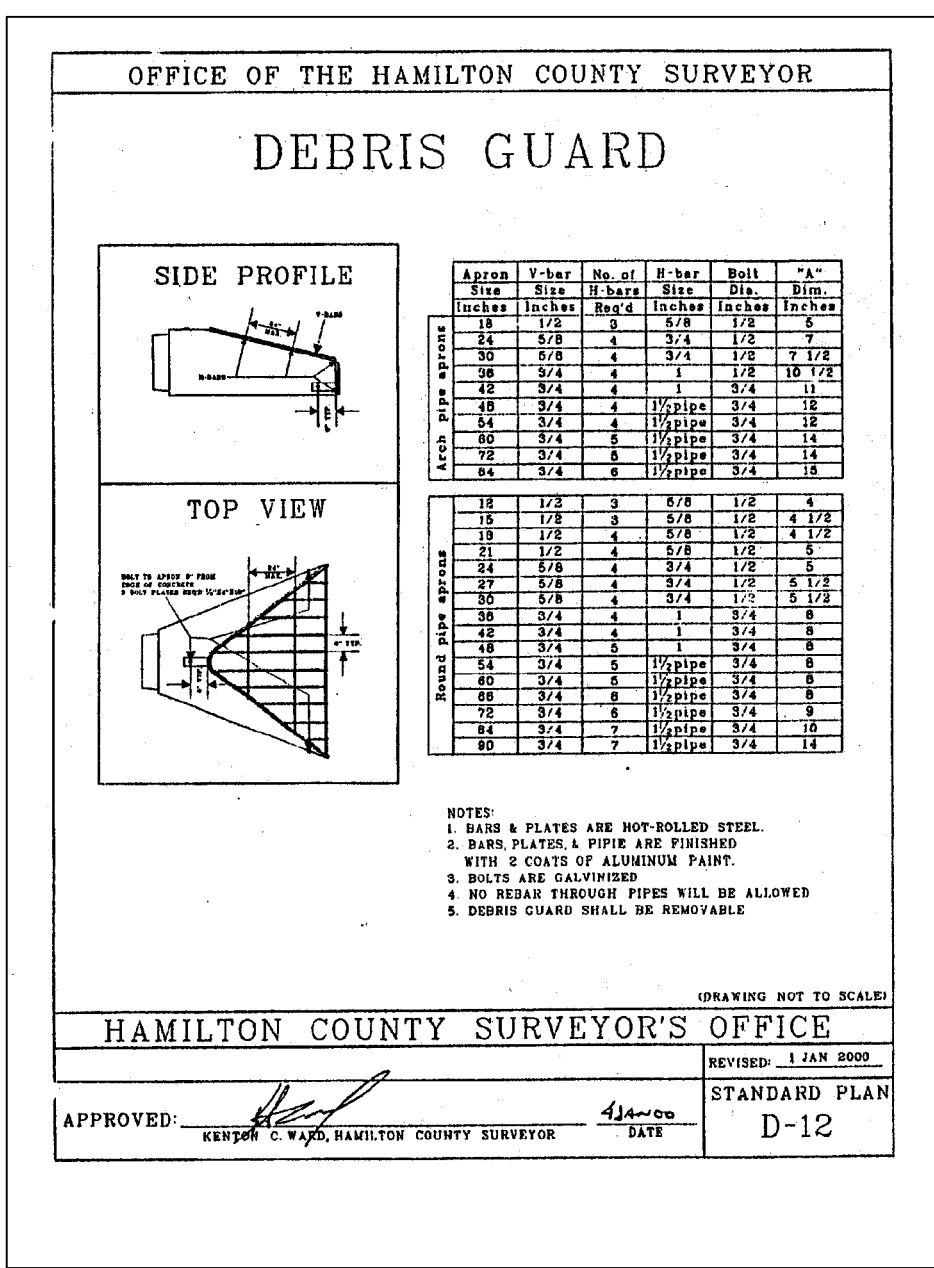
1. MISC REVISIONS 5-18-06



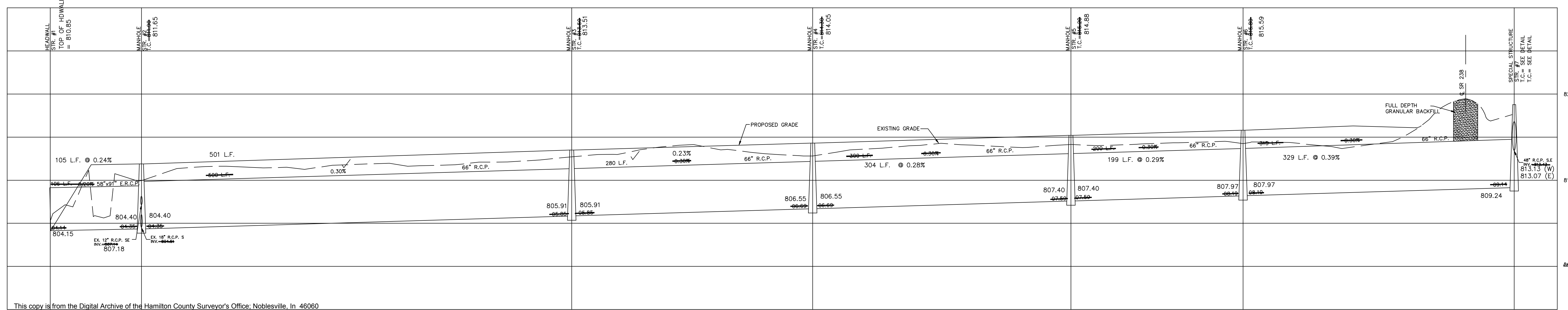
OFFICE OF THE HAMILTON COUNTY SURVEYOR  
STRUCTURE SIZING TABLE  
HAMILTON COUNTY SURVEYOR'S OFFICE  
APPROVED: [Signature] DATE: [Date] STANDARD PLAN D-18

PIPE SIZE (INCHES)	STRUCTURES LESS THAN 48" FROM T/C TO INVERT (INCHES)	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-300K	CASTING *R-501 TL & TE
18 TO 24	24 X 24	***	DESIGN APPROVAL	NO	YES	YES
18 TO 24	30 X 30	***	DESIGN APPROVAL	NO	YES	YES
18 TO 24	MH/BOX	***	DESIGN APPROVAL	YES	YES	YES
24 TO 30	24 X 36 OR 36 X 36	***	DESIGN APPROVAL	NO	NO	YES
18 TO 24	36 X 36	***	DESIGN APPROVAL	NO	NO	YES
24 OR LARGER	DESIGN APPROVAL	***	DESIGN APPROVAL	NO	NO	YES
24 OR LARGER	MH/BOX	***	DESIGN APPROVAL	YES**	YES	YES

\* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX.  
\*\* INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE.  
\*\*\* SPECIAL NOTE: STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.  
SPECIAL NOTE: STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES.  
SPECIAL NOTE: COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET TO IMPROVE ACCESS.



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



CERTIFIED: 8/22/05

DATE	BY	REVISIONS
8/22/05	[Signature]	DATE MARK

CONSULTING ENGINEERS - LAND SURVEYORS  
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942  
INDIANAPOLIS INDIANA

REGULATED DRAIN RECONSTRUCTION  
BRIGHTON KNOLL, SECTION 1  
NOBLESVILLE  
SHEET NO. C606  
JOB NO. 43400

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