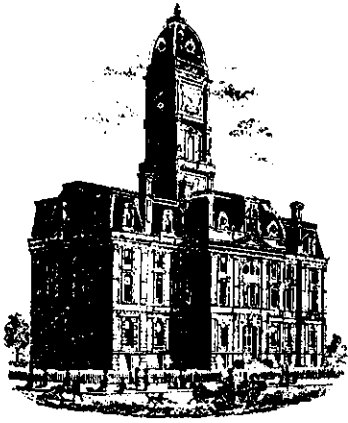


Drain: KINGSBOROUGH DRAIN **Drain #:** 297
Improvement/Arm: KINGSBOROUGH - SECTION 3
Operator: SLM/JOH **Date:** 1-9-04
Drain Classification: Urban/Rural **Year Installed:** 1998

GIS Drain Input Checklist

- Pull Source Documents for Scanning JOH 1-9
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains SLM/JOH 1-9
- Digitize & Attribute SSD SLM/JOH 1-9
- Digitize & Attribute Open Ditch N/A
- Stamp Plans SLM/JOH 1-9
- Sum drain lengths & Validate SLM/JOH 1-9
- Enter Improvements into Posse SLM/JOH 1-9
- Enter Drain Age into Posse JOH 1-22
- Sum drain length for Watershed in Posse JOH 1-22
- Check Database entries for errors SLM/JOH 1-9



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

TO: Hamilton County Drainage Board

October 15, 1998

RE: Kingsborough Drain, Section 3 arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Section 3 Arm, Kingsborough Drain. 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	4154 ft	27" RCP	300 ft
12" RCP	440 ft	42" RCP	224 ft
15" RCP	448 ft	48" RCP	24 ft
18" RCP	690 ft		

The total length of the drain will be 6280 feet.

Not included with the above length is a portion of 33" RCP storm sewer installed as part of Section 1. This storm sewer is under Newcastle Drive and will now consist of 77' of 24"x38" ERCP.

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 right of way are to be maintained as regulated drain. Laterals for the 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 Lot 58.

I reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend that 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 \$30.00 per lot, \$5.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for this section will be \$844.50.

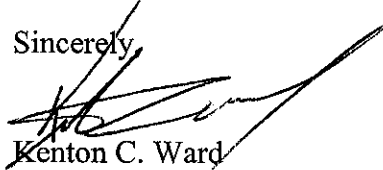
Parcels assessed for this drain may be assessed for the Collins-Osborn or Williams Creek Drain at sometime in the future.

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. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Kingsborough, Section 3 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 23, 1998.

Sincerely,



Kenton C. Ward
Hamilton County Surveyor

PNC Bank, National Association
International Division
201 East Fifth Street
Cincinnati, Ohio 45202-4117

TELEX: 214187
SWIFT: PNCCUS3C
FAX: 513-651-7182
PNCOHIO

* Released 12-27-99

FILED

SEP 07 1998

OFFICE OF HAMILTON COUNTY SURVEYOR



Date: **AUGUST 5, 1998**

PNCBANK

Irrevocable Letter of Credit # 41S-5545

Advised Through:

**BENEFICIARY: HAMILTON CO. BOARD OF COMMISSIONS, IN
ONE HAMILTON CO. SQUARE
NOBLESVILLE, IN 46060**

BY ORDER OF OUR CUSTOMER, ZARING HOMES, INC., 11300 CORNELL PARK DR., SUITE 500, CINCINNATI OHIO 45242, WE HEREBY ESTABLISH IN YOUR FAVOR OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO. 41S-5545 FOR AN AMOUNT NOT TO EXCEED USD114,085.00 (ONE HUNDRED FOURTEEN THOUSAND, EIGHTY-FIVE AND AND 00/100 UNITED STATES DOLLARS) AVAILABLE BY YOUR SIGHT DRAFT(S) ON US, WHICH SHOULD MAKE REFERENCE TO THIS LETTER OF CREDIT BY NUMBER, WHEN ACCOMPANIED BY:

1. YOUR SIGNED STATEMENT TO READ AS FOLLOWS:

"I, (NAME, TITLE), AN AUTHORIZED REPRESENTATIVE OF HAMILTON CO. BOARD OF COMMISSIONS, IN., DO HEREBY CERTIFY THAT THE AMOUNT OF THE ACCOMPANYING DRAFT IS DUE AND PAYABLE BECAUSE ZARING HOMES, INC. HAS FAILED TO CONSTRUCT THE SUBSURFACE DRAINAGE, STORM SEWERS, AND EROSION CONTROL FOR KINGSBOROUGH, SECTION 3, AS REQUIRED BY HAMILTON CO., IN."

2. THE ORIGINAL OF THIS LETTER OF CREDIT.

THIS LETTER OF CREDIT WILL EXPIRE AT OUR COUNTERS ON AUGUST 7, 1999.

IT IS A SPECIAL CONDITION OF THIS LETTER OF CREDIT THAT IT SHALL BE DEEMED AUTOMATICALLY RENEWED ANNUALLY FOR ONE YEAR FROM THE THEN EFFECTIVE EXPIRATION DATE UNLESS AT LEAST FORTY-FIVE (45) DAYS BEFORE ANY SUCH EXPIRATION DATE WE SHALL NOTIFY YOU BY REGISTERED MAIL, CERTIFIED MAIL OR OVERNIGHT COURIER AT THE ADDRESS GIVEN ABOVE THAT WE WILL NOT RENEW THIS LETTER OF CREDIT. YOU MAY DRAW ON THIS IRREVOCABLE LETTER OF CREDIT, ACCORDING TO THE TERMS SPECIFIED HEREIN, PRIOR TO THE EXPIRATION DATE IMMEDIATELY FOLLOWING SUCH NOTIFICATION.

ATTEST: _____
HAMILTON COUNTY AUDITOR

Very Truly Yours,
PNC Bank, National Association

Authorized Signature

BOARD OF COMMISSIONERS
OF THE COUNTY OF HAMILTON

PNC Bank, National Association
International Division
201 East Fifth Street
Cincinnati, Ohio 45202-4117

TELEX: 214187
SWIFT: PNCCUS3C
FAX: 513-651-7182
PNCOHIO

FILED

SEP 01 1998

OFFICE OF HAMILTON COUNTY SURVEYOR

Date: **AUGUST 5, 1998**

Irrevocable Letter of Credit # 418-5545

Advised Through:

PNCBANK

THIS IS AN INTEGRAL PART OF THE LETTER OF CREDIT

ALL DOCUMENTS PRESENTED TO US IN CONNECTION WITH ANY DEMAND FOR PAYMENT HEREUNDER, AS WELL AS ALL NOTICES AND OTHER COMMUNICATIONS TO US IN RESPECT OF THIS LETTER OF CREDIT, SHOULD BE IN WRITING AND ADDRESSED AND PRESENTED TO US AT 201 EAST FIFTH STREET, CINCINNATI, OHIO 45202-4117, ATTENTION: INTERNATIONAL DEPARTMENT-OPERATIONS MANAGER, AND SHOULD MAKE SPECIFIC REFERENCE TO THIS LETTER OF CREDIT NUMBER.

THIS LETTER OF CREDIT SETS FORTH IN FULL OUR UNDERTAKING, AND SUCH UNDERTAKING WILL NOT IN ANY WAY BE MODIFIED, AMENDED, AMPLIFIED OR LIMITED BY REFERENCE TO ANY DOCUMENT, INSTRUMENT OR AGREEMENT REFERRED TO HEREIN; AND ANY SUCH REFERENCE WILL NOT BE DEEMED TO INCORPORATE HEREIN BY REFERENCE ANY DOCUMENT, INSTRUMENT OR AGREEMENT EXCEPT AS SET FORTH BELOW.

WE HEREBY AGREE WITH THE DRAWERS, ENDORSERS AND BONA FIDE HOLDERS OF DRAFTS DRAWN UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS LETTER OF CREDIT, THAT SUCH DRAFTS DRAWN WILL BE DULY HONORED UPON PRESENTATION TO THE DRAWEE ON OR BEFORE THE EXPIRATION DATE.

ALL BANKING CHARGES OTHER THAN THOSE OF PNC BANK, OHIO, NATIONAL ASSOCIATION ARE FOR BENEFICIARY'S ACCOUNT.

THIS LETTER OF CREDIT IS SUBJECT TO THE UNIFORM CUSTOMS AND PRACTICE FOR DOCUMENTARY CREDITS (1993 REVISION), INTERNATIONAL CHAMBER OF COMMERCE PUBLICATION NO. 500 ("UNIFORM CUSTOMS"). TO THE EXTENT THAT SUCH LAWS ARE NOT IN CONFLICT WITH THE UNIFORM CUSTOMS, THIS LETTER OF CREDIT WILL BE GOVERNED BY THE LAWS OF THE STATE OF OHIO, INCLUDING WITHOUT LIMITATION THE UNIFORM COMMERCIAL CODE AS IN EFFECT IN SUCH STATE.

Very Truly Yours,
PNC Bank, National Association



Authorized Signature

FILED

DEC 11 1998

OFFICE OF HAMILTON COUNTY SURVEYOR

KINGSBOROUGH, SECTION 3
CERTIFICATE OF COMPLETION AND COMPLIANCE
STORM SEWER

Address of premises on which land alteration was accomplished 141ST Street & Ditch Road

Inspection Date(s): _____ Permit No. _____

Relative to plans prepared by: Stooppelwerth & Associates, Inc.
on January 9, 1998.

I hereby certify that:

To the best of my knowledge, information and belief such land alteration has been performed and completed in conformity with the improved plan, except STR 851 was to be a casting 4343 a 4243 was installed

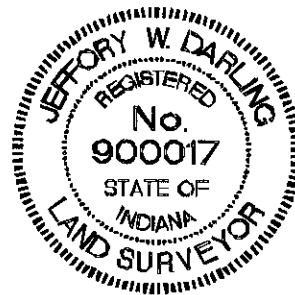
Signature Jeffery W. Darling Date: 12/10/1998

Type Name: Jeffery W. Darling Phone: (317) 849-5935

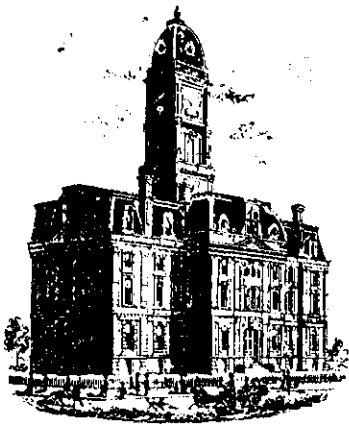
Business Address: 9940 Allisonville Road, Fishers, IN 46038

Surv. X Engr. _____ Arch. _____ Indiana Registration No. 900017

(SEAL)



FORMS/COMP&C



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

To: Hamilton County Drainage Board

February 11, 2002

Re: Kingsborough Drain: Sec. 3 Arm

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

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated October 15, 1998. The changes are as follows:

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

	844	889.93					
	843	889.8		15	134		
	843	889.8					
	840	889.37		15	85	86	-1
	840	889.37					
EX. Yard Inlet		889.13		18	147	149	-2
	842	888.91					
	841	888.78		12	30		
	841	888.78					
Ex. Manhole		889.64		15	164		
	861	890.22					
	860	889.01		42	220	224	-4
	860	889.01					
860C				48	21	24	-3
	851	890.96					
	850	891.59		27	134		
	850	891.59					
	849	891.56		27	30		
	849	891.56					
	846	892.36		27	41		

846	892.36					
847	892.4		18	151		
847	892.4					
848	892.38		15	33	34	-1
846	892.36					
EX. Yard Inlet	892.5		27	122	123	-1
EX. Yard Inlet	892.5					
852	892.68		18	315	314	1
852	892.68					
852A	893.78		12	250		
Ex. Manhole	893.73					
821	893.61		18	76		
821	893.61					
822	893.78		15	30		
822	893.78					
823	891.4		12	155	160	-5

6" SSD Streets:

KIRKLEES	915.5
WICKSWORTH WAY	815
NEW CASTLE DR	300
X2	2030.5

Total: 4061

6" SSD Lots:

58	120

Total: 120

RCP Pipe Totals:

12	435
15	446
18	689
27	327
42	220
48	21

Total: 2138

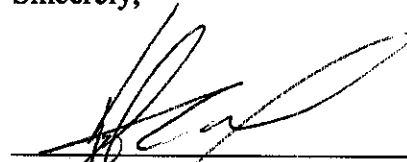
The length of the drain due to the changes described above is now ^{6319'}~~6,199~~ feet.

The non-enforcement was approved by the Board at its meeting on November 23, 1998 and recorded under instrument #9909924007.

The bond or letter of credit from PNC Bank, NA; number S903721OHO; dated August 5, 1998; in the amount of 114,085; was released January 10, 2000.

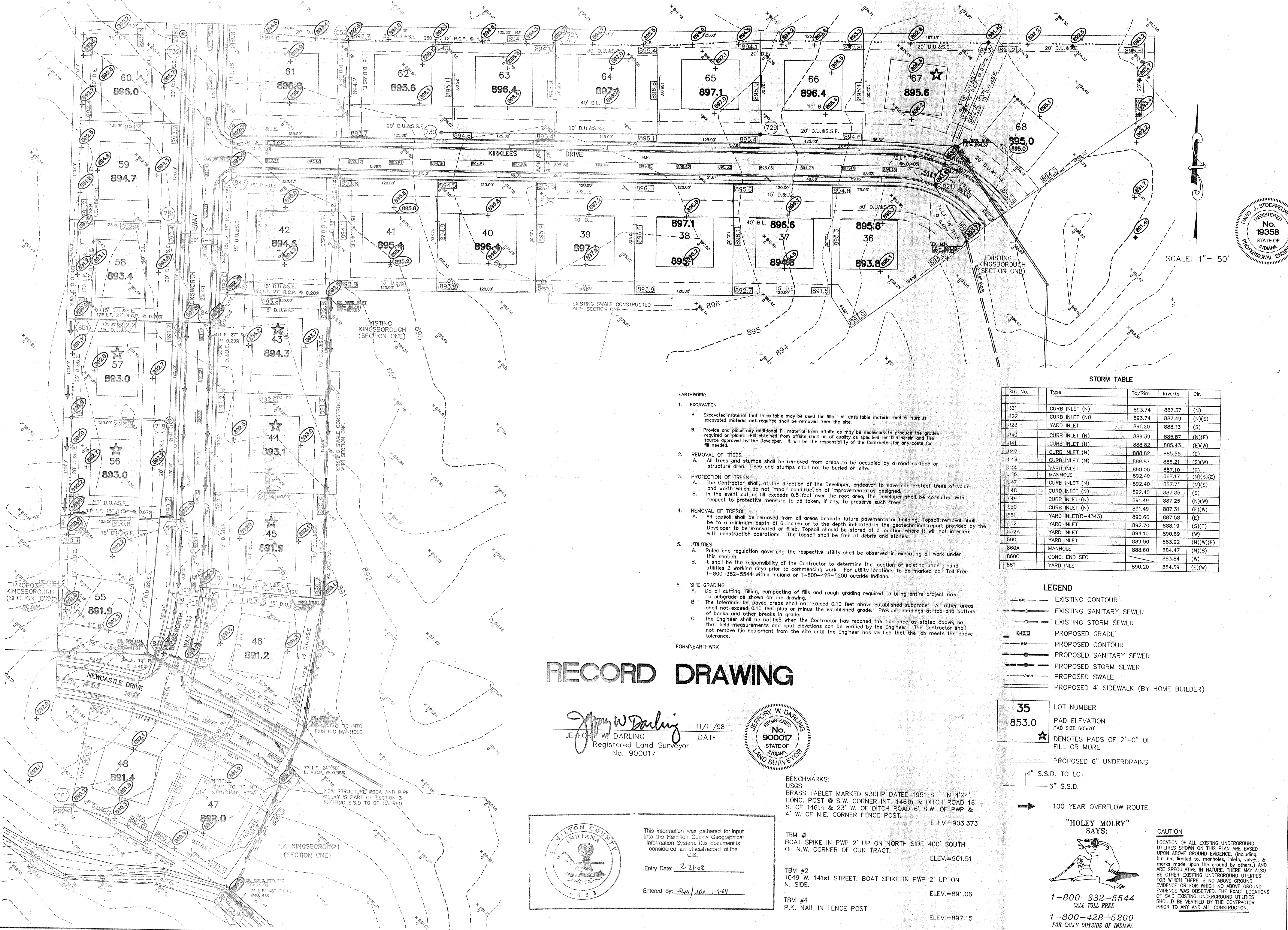
I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

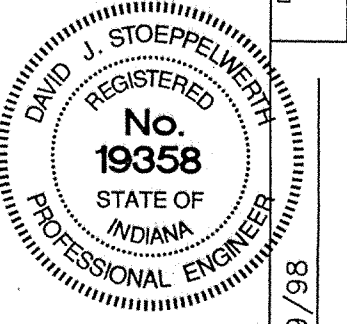
A handwritten signature in black ink, appearing to read 'Kenton C. Ward', is written over a horizontal line.

Kenton C. Ward,
Hamilton County Surveyor

KCW/slm



SCALE: 1" = 50'



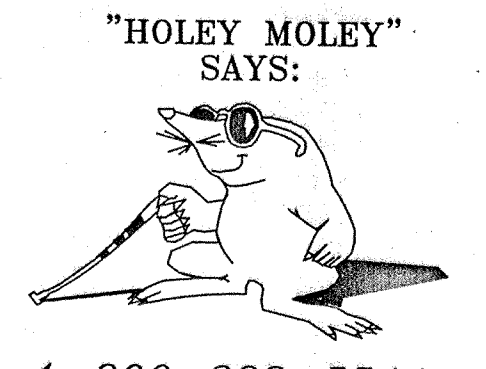
CERTIFIED: 1/9/98
 DWG. BY: [Signature]
 CDR: [Signature]
 DATE: 1/9/98

- EARTHWORK:**
- EXCAVATION**
 - Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
 - Provide and place any additional fill material from offsite as may be necessary to produce the grades required on plans. Fill obtained from offsite shall be of quality as specified for fills herein and the source approved by the Developer. It will be the responsibility of the Contractor for any costs for fill needed.
 - REMOVAL OF TREES**
 - All trees and stumps shall be removed from areas to be occupied by a road surface or structure area. Trees and stumps shall not be buried on site.
 - PROTECTION OF TREES**
 - The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
 - In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
 - REMOVAL OF TOPSOIL**
 - All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 6 inches or to the depth indicated in the geotechnical report provided by the Developer to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
 - UTILITIES**
 - Rules and regulation governing the respective utility shall be observed in executing all work under this section.
 - It shall be the responsibility of the Contractor to determine the location of existing underground utilities 2 working days prior to commencing work. For utility locations to be marked call Toll Free 1-800-382-5544 within Indiana or 1-800-428-5200 outside Indiana.
 - SITE GRADING**
 - Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
 - The tolerance for paved areas shall not exceed 0.10 feet above established subgrade. All other areas shall not exceed 0.10 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.
 - The Engineer shall be notified when the Contractor has reached the tolerance as stated above, so that field measurements and spot elevations can be verified by the Engineer. The Contractor shall not remove his equipment from the site until the Engineer has verified that the job meets the above tolerance.

STORM TABLE

Str. No.	Type	Tc/Rim	Inverts	Dir.
321	CURB INLET (N)	893.74	887.37	(N)
322	CURB INLET (NO)	893.74	887.49	(N)(S)
323	YARD INLET	891.20	888.13	(S)
340	CURB INLET (N)	888.39	885.87	(N)(E)
341	CURB INLET (N)	888.82	885.43	(E)(W)
342	CURB INLET (N)	888.82	885.55	(E)
343	CURB INLET (N)	889.87	886.21	(S)(W)
344	YARD INLET	890.00	887.10	(E)
345	MANHOLE	892.10	887.10	(N)(S)(E)
347	CURB INLET (N)	892.40	887.75	(N)(S)
348	CURB INLET (N)	892.40	887.85	(S)
349	CURB INLET (N)	891.49	887.25	(N)(W)
350	CURB INLET (N)	891.49	887.31	(E)(W)
351	YARD INLET(R-4343)	890.60	887.58	(E)
352	YARD INLET	892.70	888.19	(S)(E)
352A	YARD INLET	894.10	890.69	(W)
360	YARD INLET	889.50	883.92	(N)(W)(E)
360A	MANHOLE	888.60	884.47	(N)(S)
360C	CONC. END SEC.		883.84	(W)
361	YARD INLET	890.20	884.59	(E)(W)

- LEGEND**
- 885 — EXISTING CONTOUR
 - EXISTING SANITARY SEWER
 - EXISTING STORM SEWER
 - 885.0 — PROPOSED GRADE
 - PROPOSED CONTOUR
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM SEWER
 - PROPOSED SWALE
 - PROPOSED 4' SIDEWALK (BY HOME BUILDER)
- 35 LOT NUMBER
 853.0 PAD ELEVATION
 PAD SIZE 60'x70'
 ★ DENOTES PADS OF 2'-0" OF FILL OR MORE
 — PROPOSED 6" UNDERDRAINS
 4" S.S.D. TO LOT
 6" S.S.D.
- ➔ 100 YEAR OVERFLOW ROUTE



"HOLEY MOLEY" SAYS:
 1-800-382-5544
 CALL TOLL FREE
 1-800-428-5200
 FOR CALLS OUTSIDE OF INDIANA

CAUTION
 LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, & 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.

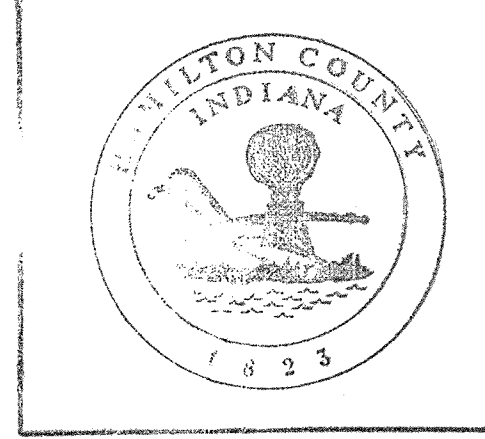
RECORD DRAWING

Jeffery W. Darling
 JEFFERY W. DARLING
 Registered Land Surveyor
 No. 900017



11/11/98
 DATE

Entry Date: 2-21-02
 Entered by: [Signature] 1-9-04



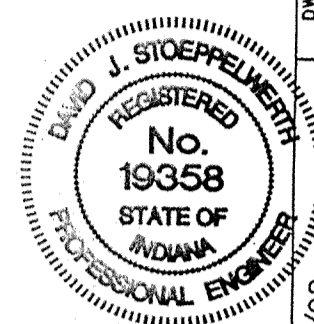
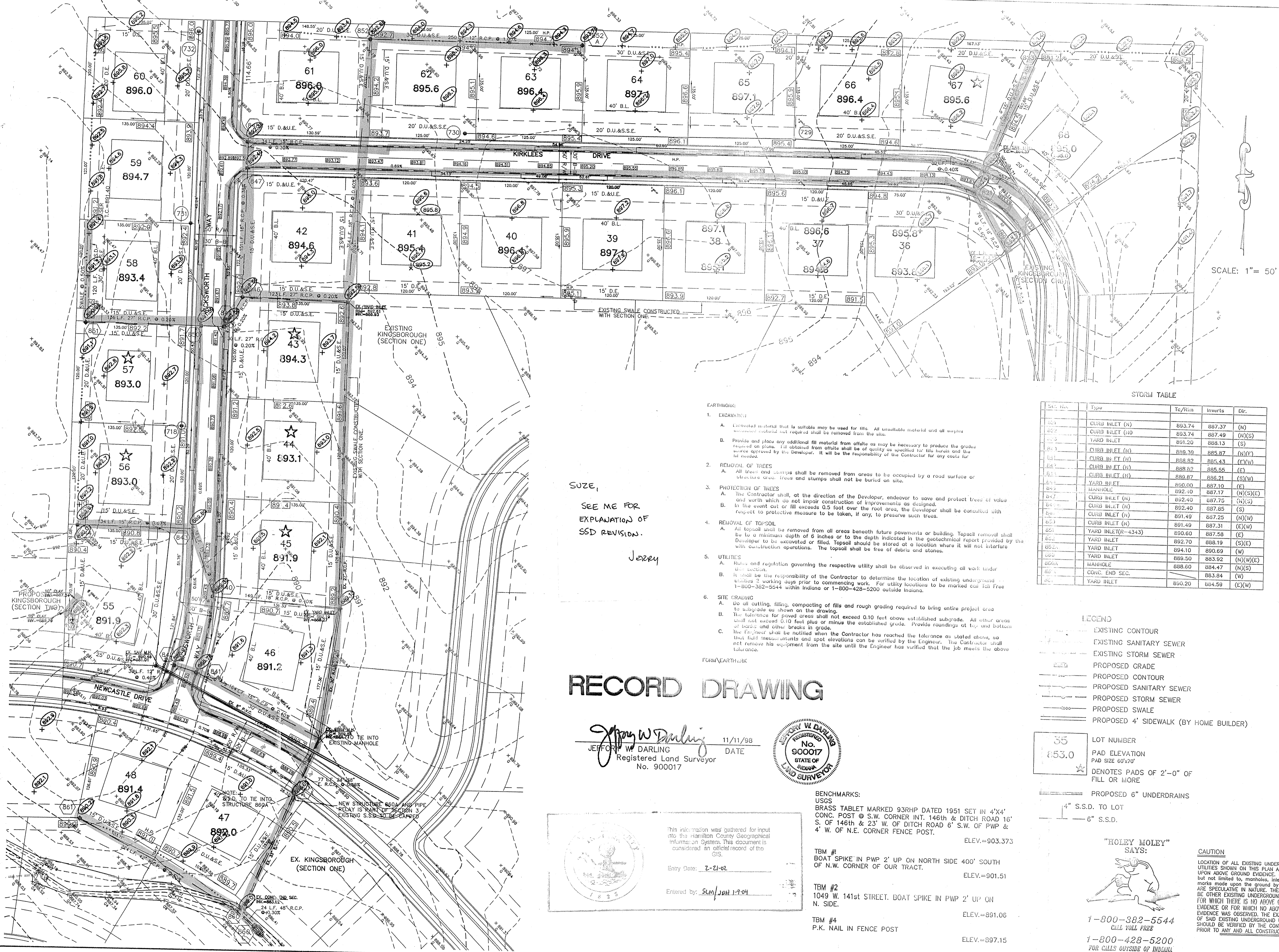
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

- BENCHMARKS:**
 USGS
 BRASS TABLET MARKED 93RHP DATED 1951 SET IN 4'x4' CONC. POST @ S.W. CORNER INT. 146th & DITCH ROAD 16' S. OF 146th & 23' W. OF DITCH ROAD 6' S.W. OF PWP & 4' W. OF N.E. CORNER FENCE POST. ELEV.=903.373
- TBM #1**
 BOAT SPIKE IN PWP 2' UP ON NORTH SIDE 400' SOUTH OF N.W. CORNER OF OUR TRACT. ELEV.=901.51
- TBM #2**
 1049 W. 141st STREET. BOAT SPIKE IN PWP 2' UP ON N. SIDE. ELEV.=891.06
- TBM #4**
 P.K. NAIL IN FENCE POST ELEV.=897.15

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

SITE DEVELOPMENT PLAN
 KINGSBOROUGH SECTION THREE
 CARMEL INDIANA

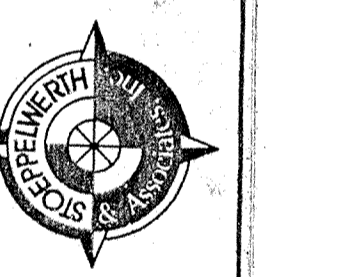
SHEET NO. 3
 OF 17 SHEETS
 JOB NO. 212258



DATE	BY	REVISIONS
1/9/98 <td>DAVID J. STAPP <td>DATE</td> </td>	DAVID J. STAPP <td>DATE</td>	DATE
6/9/98 <td>DAVID J. STAPP <td>DATE</td> </td>	DAVID J. STAPP <td>DATE</td>	DATE
6/20/98 <td>DAVID J. STAPP <td>DATE</td> </td>	DAVID J. STAPP <td>DATE</td>	DATE
8/17/98 <td>DAVID J. STAPP <td>DATE</td> </td>	DAVID J. STAPP <td>DATE</td>	DATE
9/22/98 <td>DAVID J. STAPP <td>DATE</td> </td>	DAVID J. STAPP <td>DATE</td>	DATE

CERTIFIED: 1/9/98
 David J. Stapp
 REGISTERED PROFESSIONAL ENGINEER
 No. 19358
 STATE OF INDIANA

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



SITE DEVELOPMENT PLAN
 KINGSBOROUGH SECTION THREE
 CARMEL INDIANA

SHEET NO. 3
 OF 17 SHEETS
 JOB NO. 212258

SCALE: 1" = 50'

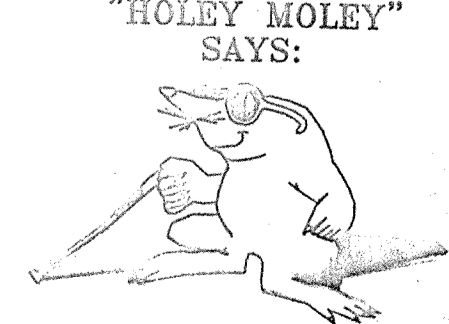
STORM TABLE

Sta. No.	Type	Tc/Rain	Inverts	Dir.
891	CURB INLET (N)	893.74	887.37	(N)
892	CURB INLET (H)	893.74	887.49	(N)(S)
893	YARD INLET	891.20	888.13	(S)
894	CURB INLET (N)	889.39	885.87	(N)(E)
895	CURB INLET (N)	888.82	885.43	(E)(W)
896	CURB INLET (N)	888.82	885.55	(E)
897	CURB INLET (N)	889.87	886.21	(S)(W)
898	YARD INLET	890.00	887.10	(E)
899	MANHOLE	892.10	887.17	(N)(S)(E)
900	CURB INLET (N)	892.40	887.75	(N)(S)
901	CURB INLET (N)	892.40	887.85	(S)
902	CURB INLET (N)	891.49	887.25	(N)(W)
903	CURB INLET (N)	891.49	887.31	(E)(W)
904	YARD INLET (R-4343)	890.60	887.58	(E)
905	YARD INLET	892.70	888.19	(S)(E)
906	YARD INLET	894.10	890.69	(W)
907	YARD INLET	889.50	883.92	(N)(W)(E)
908	MANHOLE	888.60	884.47	(N)(S)
909	CONC. END SEC.		883.84	(W)
910	YARD INLET	890.20	884.59	(E)(W)

LEGEND

- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED 4' SIDEWALK (BY HOME BUILDER)

35 LOT NUMBER
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 PAD SIZE 60'x70'
 ★ DENOTES PADS OF 2'-0" OF FILL OR MORE



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CAUTION
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 - The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
 - In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
 - REMOVAL OF TOPSOIL**
 - All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 8 inches or to the depth indicated in the geotechnical report provided by the Developer to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
 - UTILITIES**
 - Rules and regulation governing the respective utility shall be observed in executing all work under this section.
 - It shall be the responsibility of the Contractor to determine the location of existing underground utilities 2 working days prior to commencing work. For utility locations to be marked call Toll Free 1-800-382-5544 within Indiana or 1-800-428-5200 outside Indiana.
 - SITE GRADING**
 - Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
 - The tolerance for paved areas shall not exceed 0.10 feet above established subgrade. All other areas shall not exceed 0.10 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.
 - The Engineer shall be notified when the Contractor has reached the tolerance as stated above, so that field measurements and spot elevations can be verified by the Engineer. The Contractor shall not remove his equipment from the site until the Engineer has verified that the job meets the above tolerance.

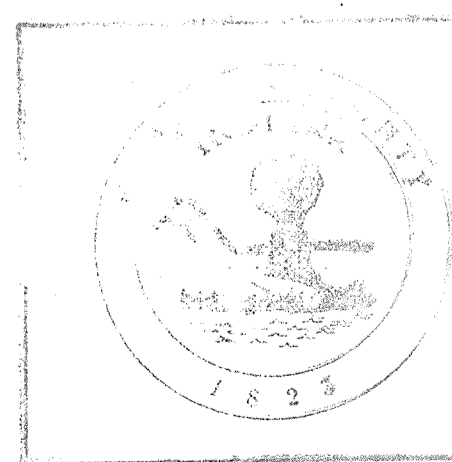
SEE ME FOR EXPLANATION OF SSD REVISION.
 Jerry

RECORD DRAWING

Jeffrey W. Darling
 JEFFREY W. DARLING
 Registered Land Surveyor
 No. 900017



11/11/98
 DATE



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Entry Date: 7-21-02

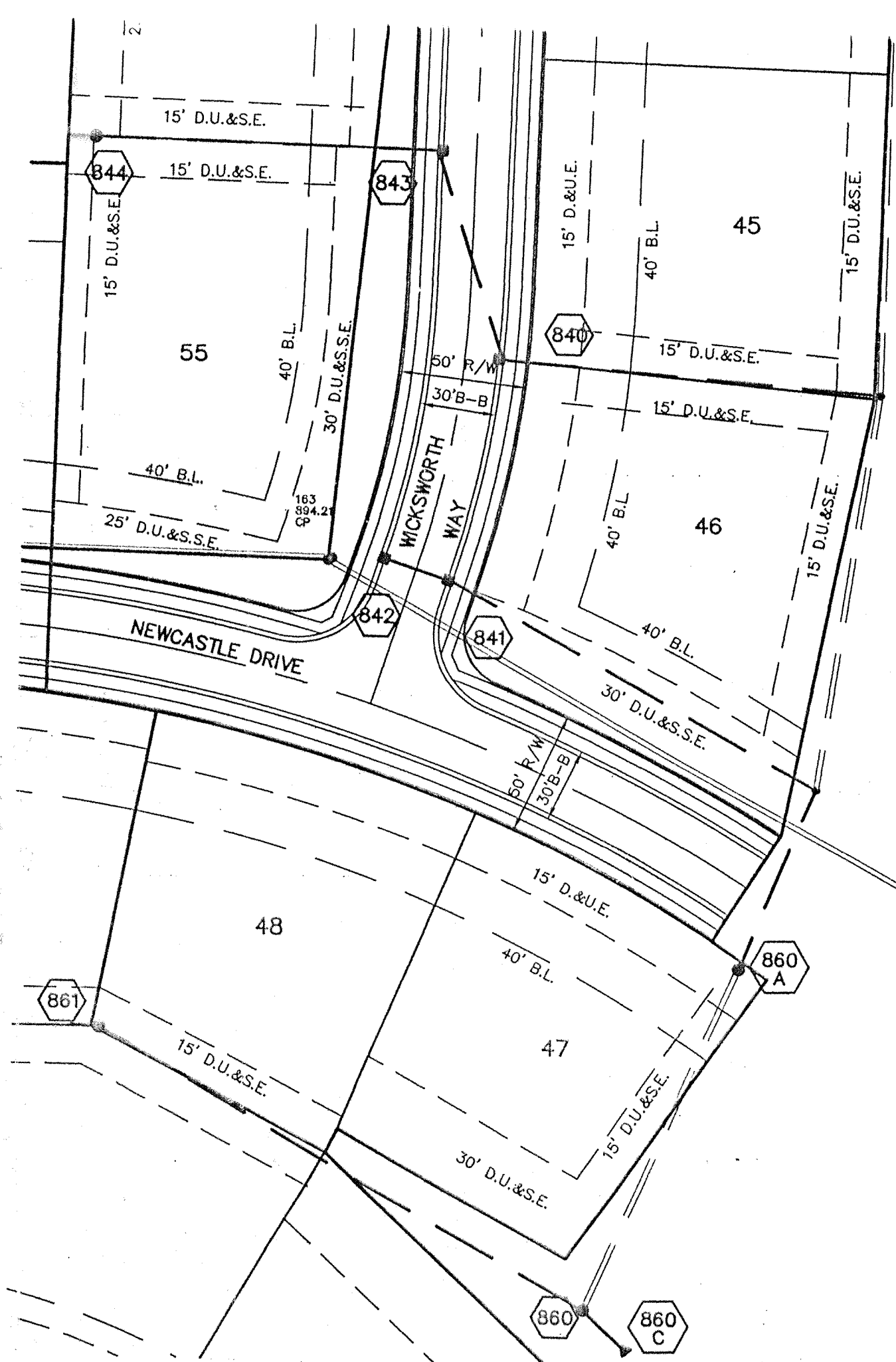
Entered by: SUM/JAN 17-04

BENCHMARKS:
 USGS BRASS TABLE MARKED 33RHP DATED 1951 SET IN 4'x4' CONC. POST @ S.W. CORNER INT. 146th & DITCH ROAD 16' S. OF 146th & 23' W. OF DITCH ROAD 6' S.W. OF PWP & 4' W. OF N.E. CORNER FENCE POST.
 ELEV.=903.373

TBM #1
 BOAT SPIKE IN PWP 2' UP ON NORTH SIDE 400' SOUTH OF N.W. CORNER OF OUR TRACT.
 ELEV.=901.51

TBM #2
 1049 W. 141st STREET. BOAT SPIKE IN PWP 2' UP ON N. SIDE.
 ELEV.=891.06

TBM #4
 P.K. NAIL IN FENCE POST
 ELEV.=897.15



CURB INLET TABLE

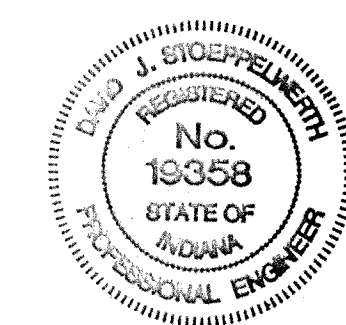
PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	2'x2'		DESIGN APPROVAL	No	Yes	Yes
18" or 21"		MH/BOX	DESIGN APPROVAL	Yes	Yes	Yes
21" or 27"	2'x3'*		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 16" 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 12" FROM T/C TO INVERT WILL BE A MH OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.

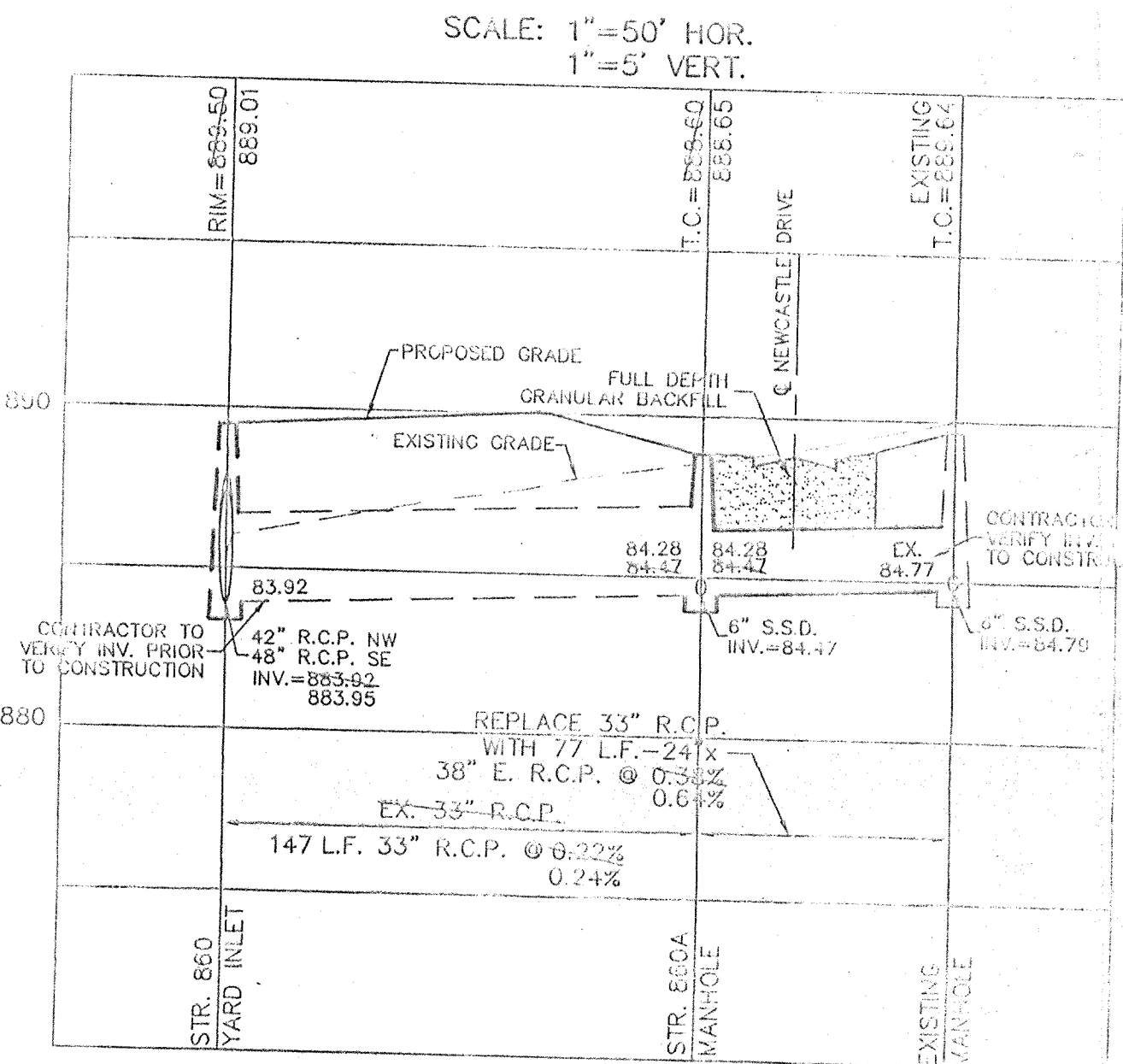
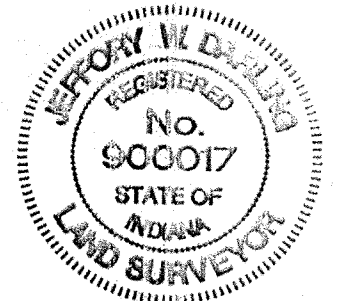
SPECIAL NOTE:
 STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES

SPECIAL NOTE:
 COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.



RECORD DRAWING

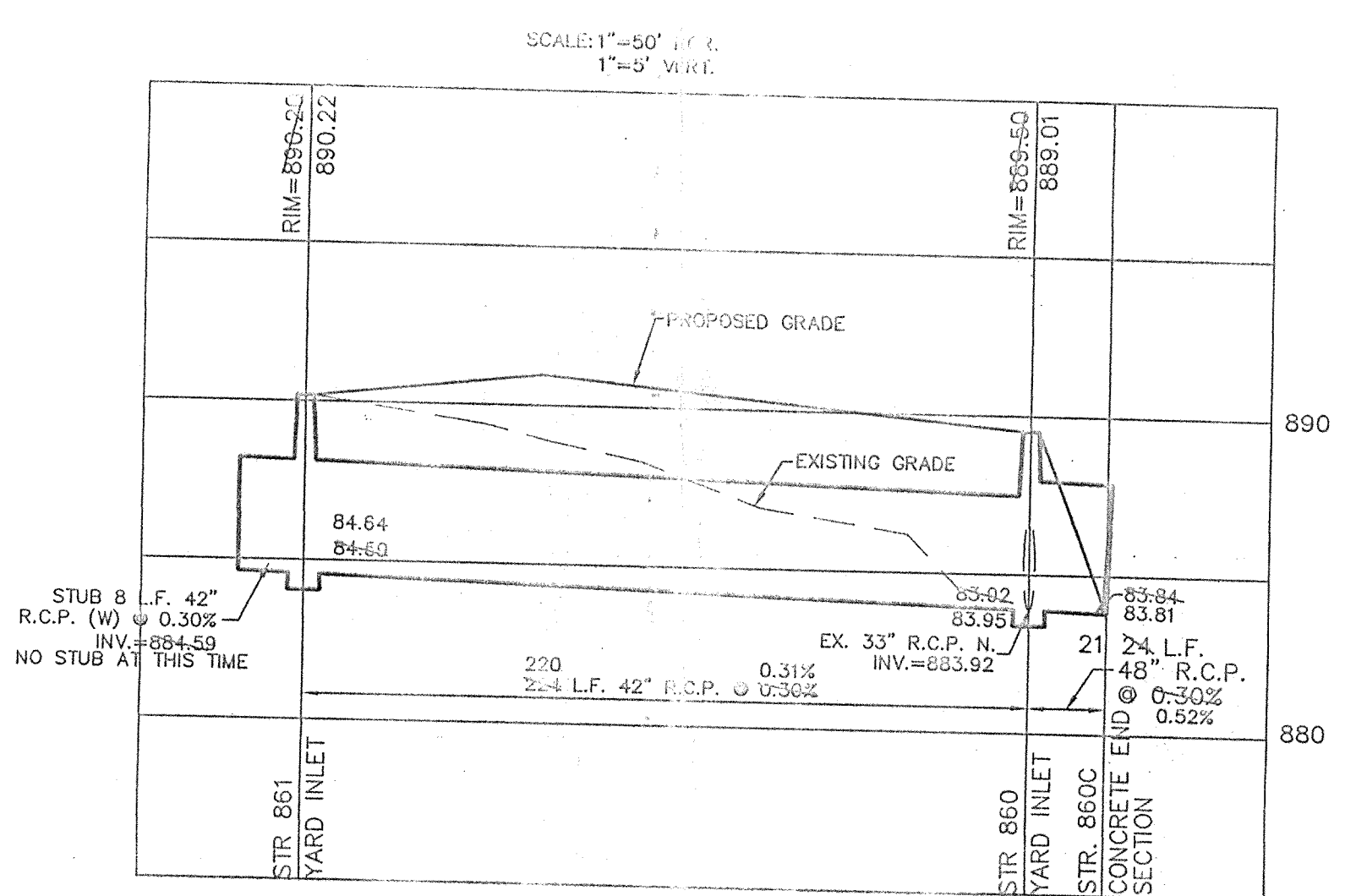
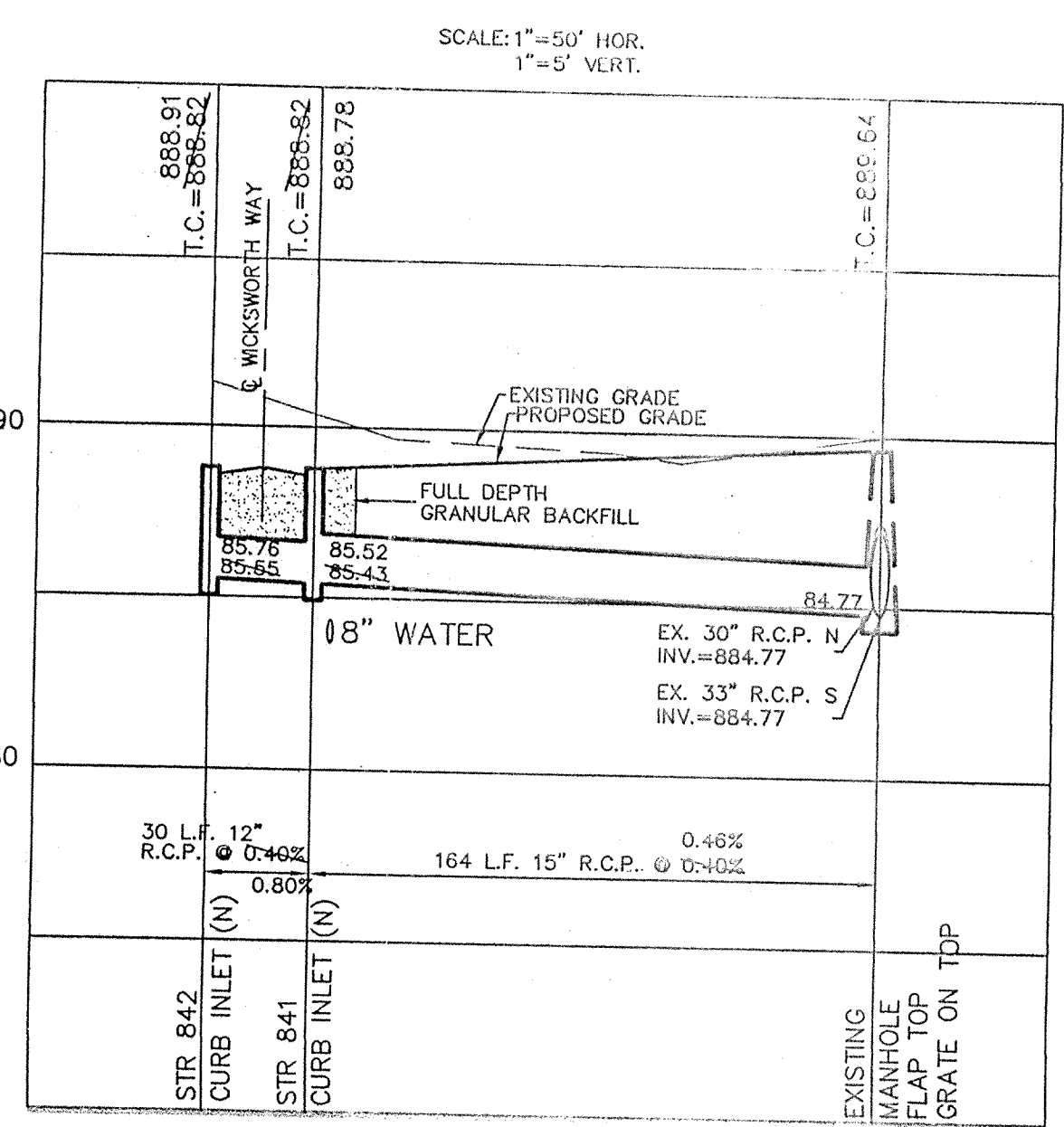
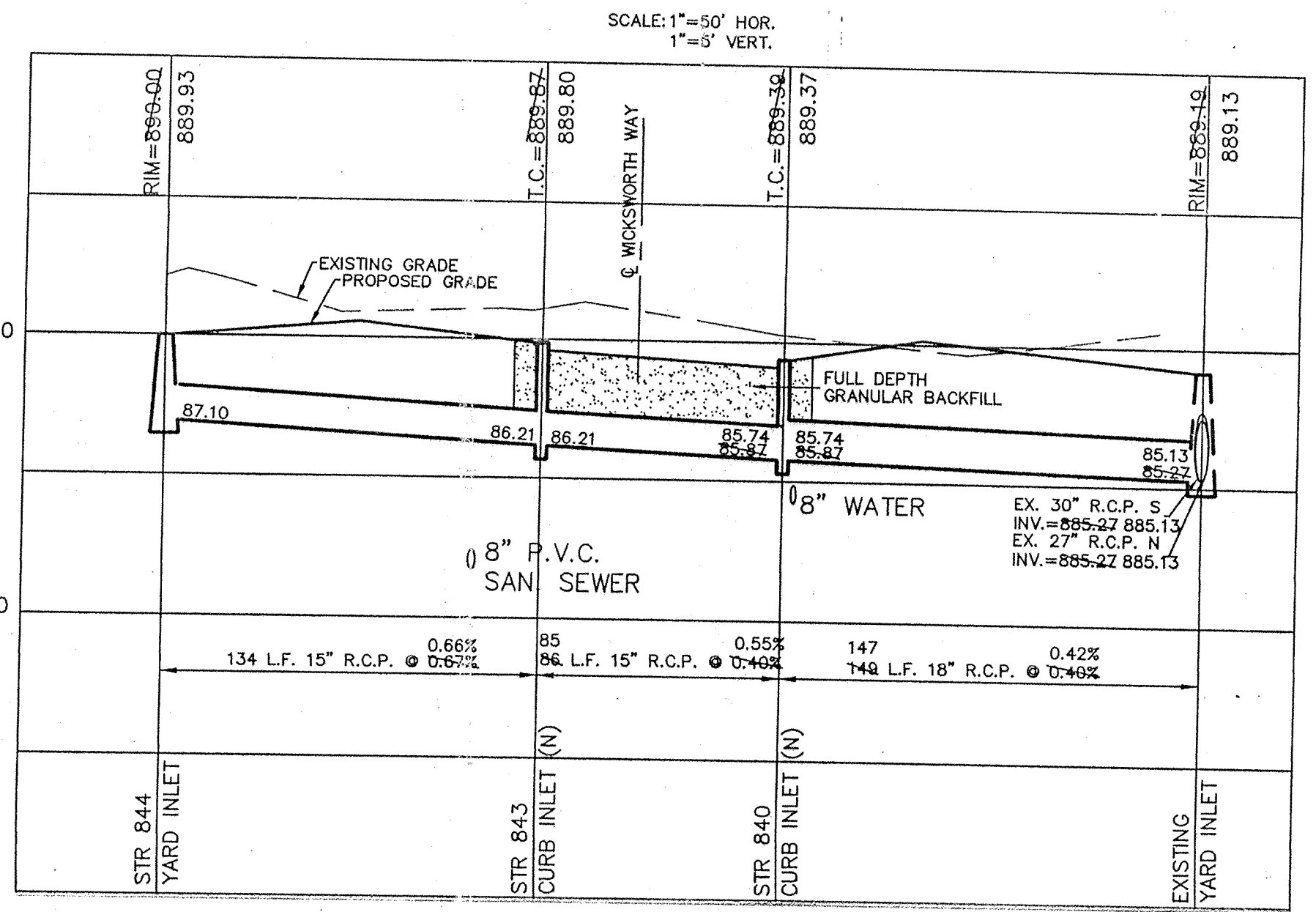
Jeffrey W. Dakling
 JEFFREY W. DAKLING
 Registered Land Surveyor
 No. 900017



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Entry Date: 2-27-02

Entered by: SLM/JDH 1-9-04



DATE	1/9/98	DATE	1/9/98	DATE	1/9/98	DATE	1/9/98	DATE	1/9/98
BY	BY	BY	BY	BY	BY	BY	BY	BY	BY
REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS	

CERTIFIED: 1/9/98

David J. Stapp

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

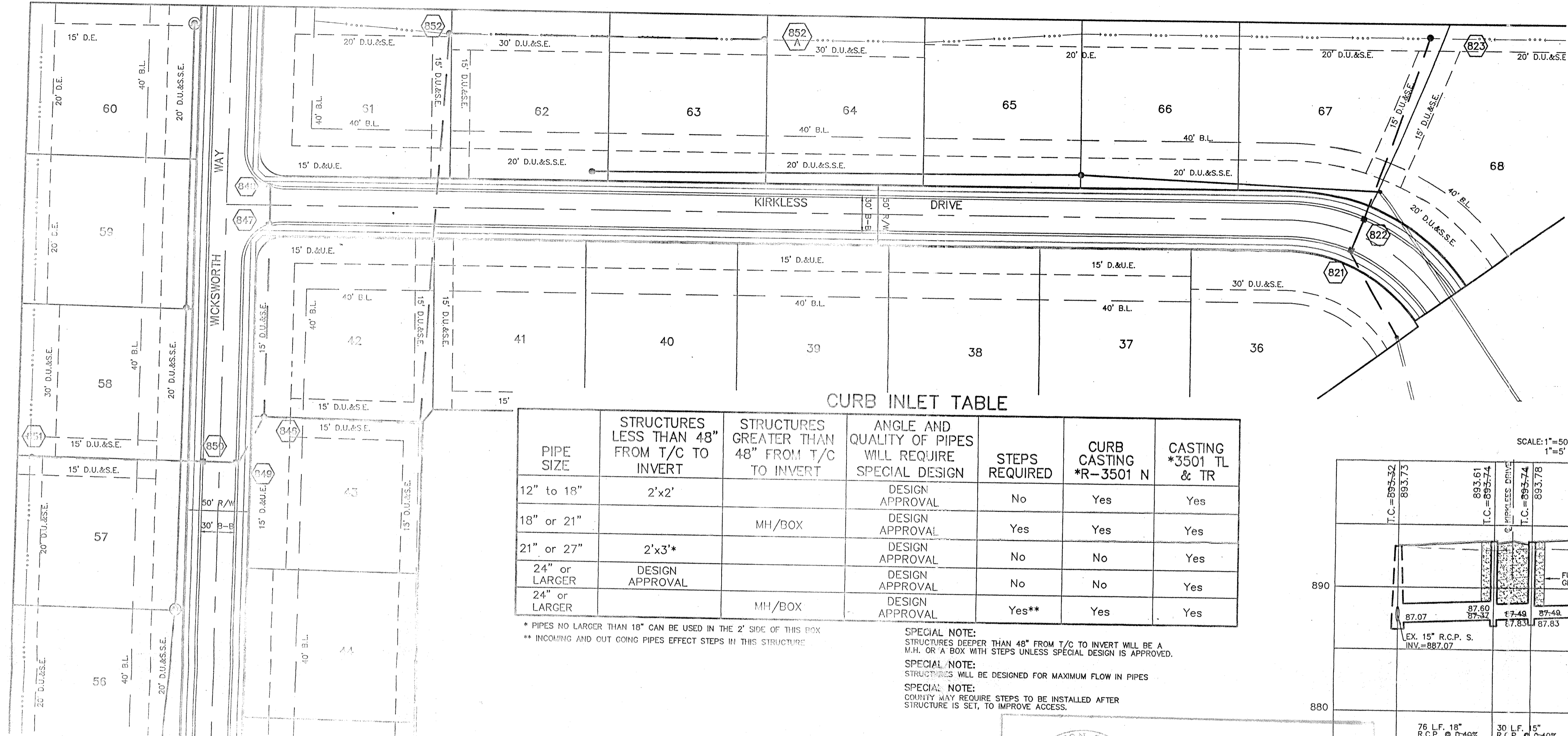
INDIANAPOLIS INDIANA

STORM SEWER PLAN & PROFILE
KINGSBOROUGH SECTION THREE

CARMEL INDIANA

SHEET NO.
12
 OF 17 SHEETS

JOB NO. 21225B

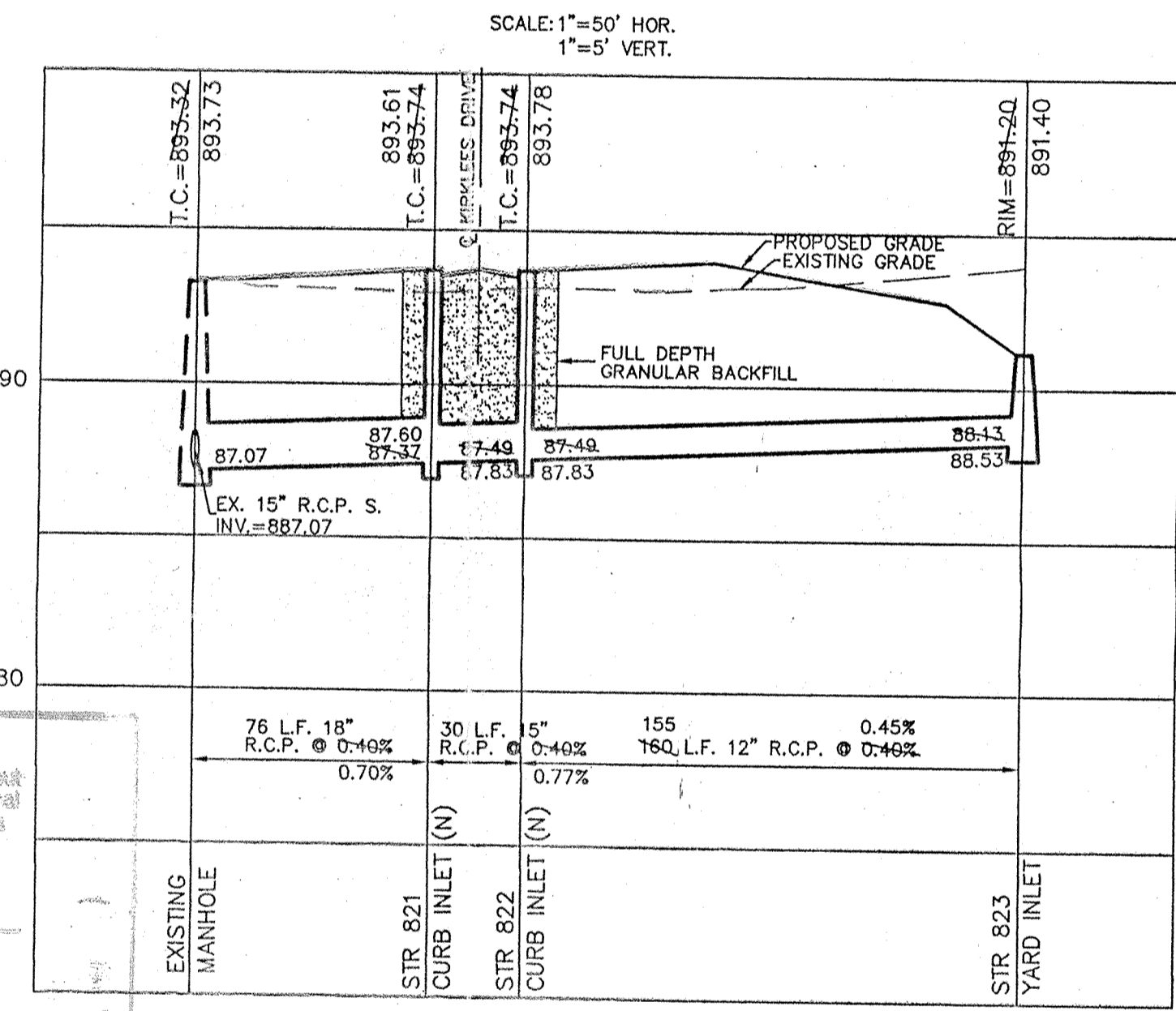


CURB INLET TABLE

PIPE SIZE	STRUCTURES LESS THAN 48" FROM T/C TO INVERT	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501 N	CASTING *3501 TL & TR
12" to 18"	2'x2'		DESIGN APPROVAL	No	Yes	Yes
18" or 21"		MH/BOX	DESIGN APPROVAL	Yes	Yes	Yes
21" or 27"	2'x3'		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.

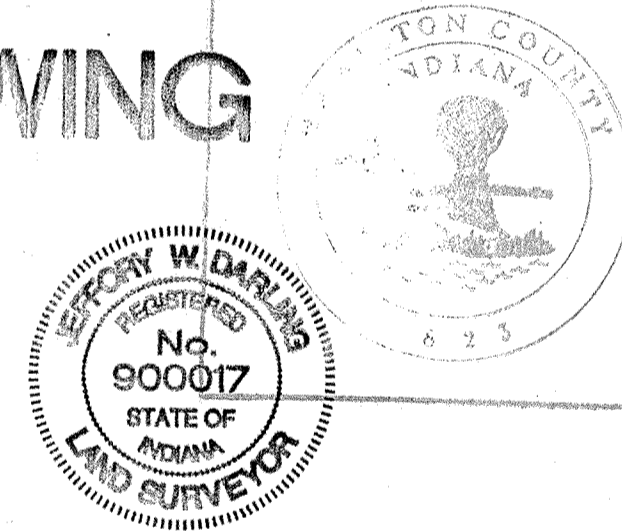


SCALE: 1"=50' HOR.
 1"=5' VERT.

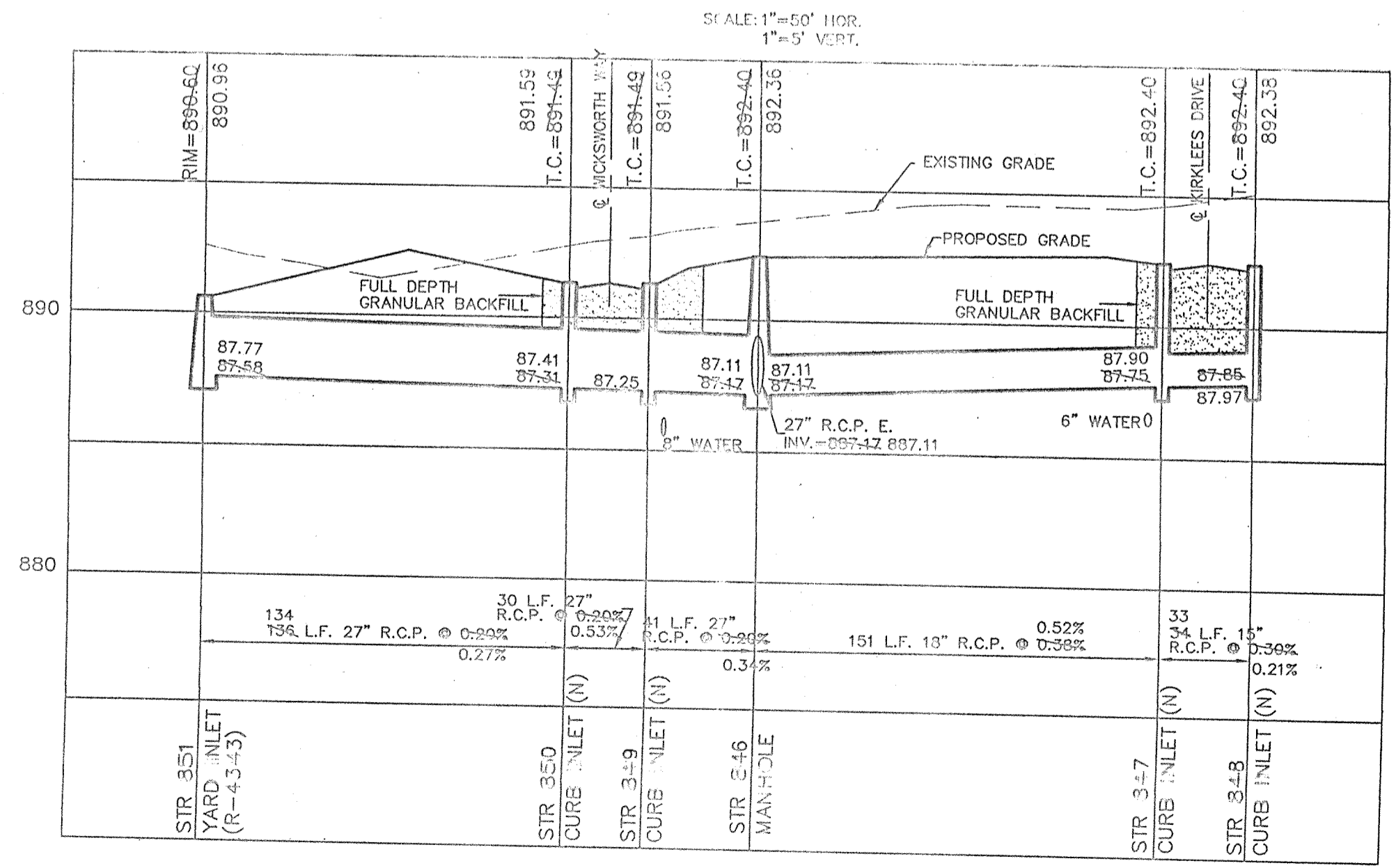
RECORD DRAWING

JEFFORY W. DARLING
 Registered Land Surveyor
 No. 900017

DATE 11/11/98



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 Entry Date: 2-24-02
 Entered by: SM/2011/1904



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

