

Drain: JOHN OSBORN DRAIN **Drain #:** 162
Improvement/Arm: WINNERS GROVE-SECTION 2
Operator: JOH **Date:** 6-2-04
Drain Classification: Urban/Rural **Year Installed:** 2001

GIS Drain Input Checklist

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

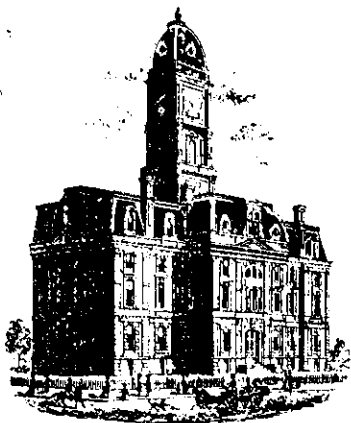
**Gasb 34 Footages for Historical Cost
Drain Length Log**

Drain-Improvement: JOHN OSBORN DRAIN - WINDSOR GRAVE - SECTION 2

Drain Type:	Size:	Length <i>sw. 2.0.1.1.2</i> REPORT	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	1,612	1,612	Ø		
RCP	12"	467'	467'	Ø		
	15"	382'	382'	Ø		
	18"	297'	297'	Ø		
	21"	603'	603'	Ø		
	24"	72'	72'	Ø		
Sum:		<u>3,433'</u>	<u>3,433'</u>	<u>Ø</u>		

Final Report: _____

Comments:



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

November 21, 2002

To: Hamilton County Drainage Board

Re: John Osborn Drain, Windsor Grove Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Windsor Grove Arm, John Osborn 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	1,594 ft	15" RCP	384 ft	21" RCP	671 ft
12" RCP	429 ft	18" RCP	310 ft		

The total length of the drain will be 3,388 feet.

The retention pond (lake) located in Common Area number 2 will be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance, such as mowing, of the pond (lake) 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. Only the main SSD lines, which are located within the right of way, are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

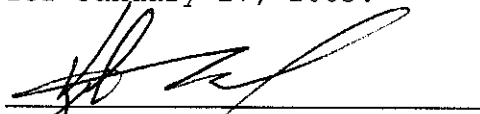
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$25.00 per lot, \$2.00 per acre with a \$25.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$512.00.

Parcels assessed for this drain may be assessed for the Williams Creek, Well Run or Springmill Run 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 Windsor Grove as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for January 27, 2003.



Kenton C. Ward
Hamilton County Surveyor

KCW/llm

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: **Windsor Grove**

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: *Jeffery W. Darling* Date: 12/30/03

Type or Print Name: Jeffery W. Darling

Business Address: Stooppelwerth & Associates, Inc.

9940 Allisonville Road, Fishers, Indiana 46038

Telephone Number: (317) 849-5935

SEAL

INDIANA REGISTRATION NUMBER

900017



FILED

JAN 02 2004

OFFICE OF HAMILTON COUNTY SURVEYOR



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

March 12, 2004

Re: John Osborn: Windsor Grove Arm

Attached are as-builts, certificate of completion & compliance, and other information for Windsor Grove. 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 November 21, 2002. The report was approved by the Board at the hearing held January 27, 2003. (See Drainage Board Minutes Book 6, Pages 528-529)

The changes are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Grade:	Original:	Difference:
812		875.28					
808	877.98	874.1	12	305	0.39	310	-5
811	877.03	875.08					
810	880.29	874.49	15	204	0.29 204	29	
810	880.29	874.49					
809	880.25	874.18	18	95	0.33	97	-2
809	880.25	874.18					
808	877.98	873.31	21	274	0.32	271	3
808	877.98	873.31					
807		873.05	24	72	0.36	76	-4
804	877.81	875.51					
803	878.08	874.95	15	148	0.38	150	-2
803	878.08	874.95					
802		872.91	21	329	0.62	324	5
806	881.64	875.69					
805	881.57	875.51	15	30	0.6		
805	881.57	875.51					
803	878.08	874.95	18	202	0.28	203	-1
803	878.08	874.95					
803A	880	875.13	12	52	0.3		
801		872.96					
800	875.75	872.2	12	110	0.65	119	-9

6" SSD Streets:

London Berry	1612
Total:	<u>1612</u>

RCP Pipe Totals:

12	467
15	382
18	297
21	603
24	72
Total:	<u>1821</u>

The length of the drain due to the changes described above is now **3433 feet**.

The non-enforcement was approved by the Board at its meeting on January 27, 2003 and recorded under instrument #200300011411.

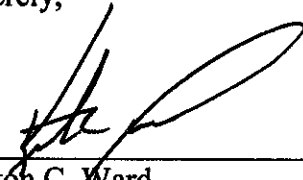
The following sureties were guaranteed by Union Planters Bank and released by the Board on its January 26, 2004 meeting.

Bond-LC No: L013698
Insured For: Storm Sewers
Amount: \$145,000.00
Issue Date: July 30, 2001

Bond-LC No: L013696
Insured For: Erosion Control
Amount: \$22,000.00
Issue Date: July 30, 2001

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

Sincerely,



Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

Asbuilt Structures

Drain: John Osborn
Improvement-Arm: English Oaks
Engineer: Paul I Cripe
Asbuilt Project #: 0990478-20000

Structure:	T.C.:	I.E.:	Pipe:	Length:	Grade:	Original:	Difference:
705		893.9					
704	896.41	892.7	12	249.14	-1		
704	896.41	892.1					
703	896.15	891.4	15	65	-0.8		
703	896.15	891.4					
702		890.5	15	135	-0.66		
706		894.5					
707	897.58	894.3	15	154.79	-0.2		
707	897.58	894.2					
708	897.59	894.2	15	26	-0.2		
708	897.59	894.1					
709		893.9	15	73.72	-0.22		
710	901.05	897.2					
711	901.14	896.8	15	25.91	-1		
711	901.14	896.8					
712	897.5	895.1	15	169.6	-1		
712	897.5	895.1					
713		894	15	228.29	-0.5		

6" SSD Streets:

English Oaks Ct	954
x2	
Total:	<u>1908</u>

6" SSD Lots:

Lots 16-20	662
Lots 8-11	180
Lot 27	255
Lots 20-24	723
Total:	<u>1820</u>

RCP Pipe Totals:

12	249.14
15	878.31
Total:	<u>1127.45</u>

Other Drain:	
8" cmp	10
Total:	<u>10</u>

Drain Total: 4865.45

Asbuilt Structures

Drain: John Osborn
 Improvement-Arm: Windsor Grove Arm
 Engineer: Stoepplewerth & Associates Inc.
 Asbuilt Project #: 33697

Structure:	T.C.:	I.E.:	Pipe:	Length:	Grade:	Original:	Difference:
812		875.28					
808	877.98	874.1	12	305	0.39	310	-5
811	877.03	875.08					
810	880.29	874.49	15	204	204	29	
810	880.29	874.49					
809	880.25	874.18	18	95	0.33	97	-2
809	880.25	874.18					
808	877.98	873.31	21	274	0.32	271	3
808	877.98	873.31					
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804	877.81	875.51					
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803	878.08	874.95					
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806	881.64	875.69					
805	881.57	875.51	15	30	0.6		
805	881.57	875.51					
803	878.08	874.95	18	202	0.28	203	-1
803	878.08	874.95					
803A	880	875.13	12	52	0.3		
801		872.96					
800	875.75	872.2	12	110	0.65	119	-9

6" SSD Streets:

London Berry	1612
Total:	<u>1612</u>

RCP Pipe Totals:

12	467
15	382
18	297
21	603
24	72
Total:	<u>1821</u>

Drain Total: 3433

Total: 1821

SCALE: 1" = 50'

BENCHMARK:

WASHINGTON 110
ISHC MAR. G-199
A BRONZE PLATE SET IN THE N. END OF THE E. CURB OF
THE TOWNSHIP LINE ROAD BRIDGE OVER I-465.

ELEV.=875.14

S.&A. #1
S. LINE OF CAMDEN WALK ON THE E. SIDE OF TOWNE ROAD
ON THE W. FACE OF POWER POLE.

ELEV.=870.46

S.&A. #2
100'± N. OF THE S. LINE ON THE E. SIDE OF TOWNE ROAD
ON THE W. FACE OF POWER POLE 131-B.

ELEV.=876.33

S.&A. #3
400'± W. OF TOWNE ROAD ON THE N. SIDE OF 106TH
STREET ON THE S. FACE OF POWER POLE 183-131A.

ELEV.=879.50

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)
(UNLESS OTHERWISE NOTED)
- 35 LOT NUMBER
- N.P. NO PAD TO BE CONSTRUCTED.
- PROPOSED 4" LATERAL
- PROPOSED 6" UNDERDRAINS
- ← EMERGENCY FLOOD ROUTE

EARTHWORK:

1. EXCAVATION

- A. 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.
- B. 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.

2. REMOVAL OF TREES

- A. 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.

3. PROTECTION OF TREES

- A. 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.
- B. 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.

4. REMOVAL OF TOPSOIL

- A. 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.

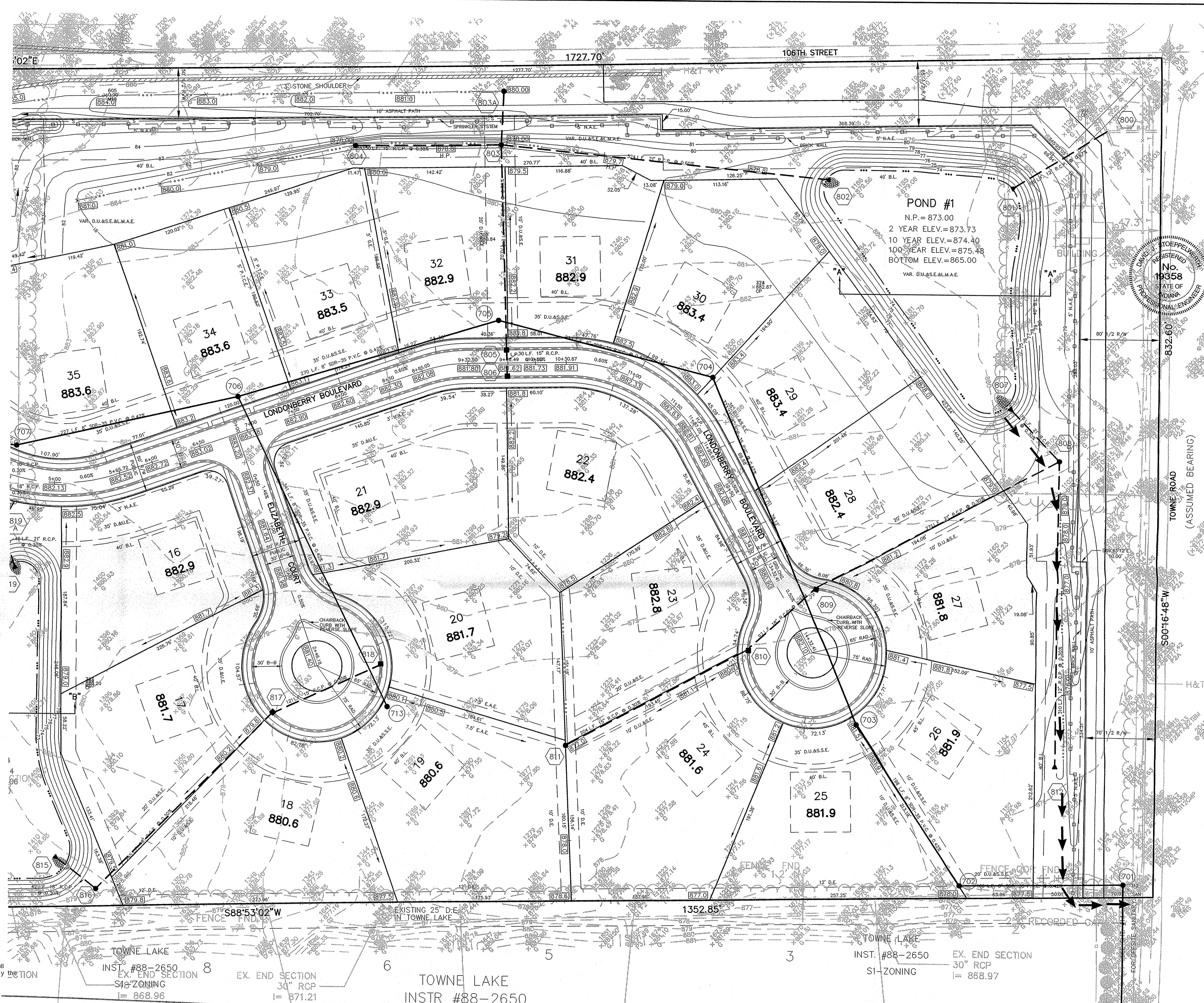
5. UTILITIES

- A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
- B. 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.

6. SITE GRADING

- A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
- B. 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.
- C. 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.

FORM EARTHWRK



HAMILTON COUNTY INDIANA

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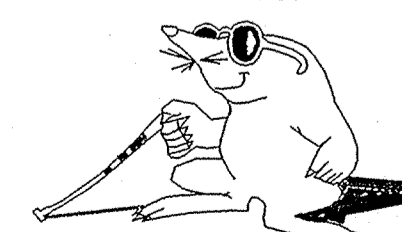
Entry Date: 6-2-04

Entered by: JOH

NOTE: THE PROPOSED STORM SEWER SYSTEM SHOULD INCORPORATE ANY TEMPORARY OR PERMANENTLY EXISTING FIELD DRAIN TILES DISCOVERED DURING CONSTRUCTION.

NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, LIGHT POLES OR OTHER SUCH AMENITIES WITHIN THE R.O.W. ARE TO BE APPROVED PRIOR TO INSTALLATION.

"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.

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

CERTIFIED: 4/30/01

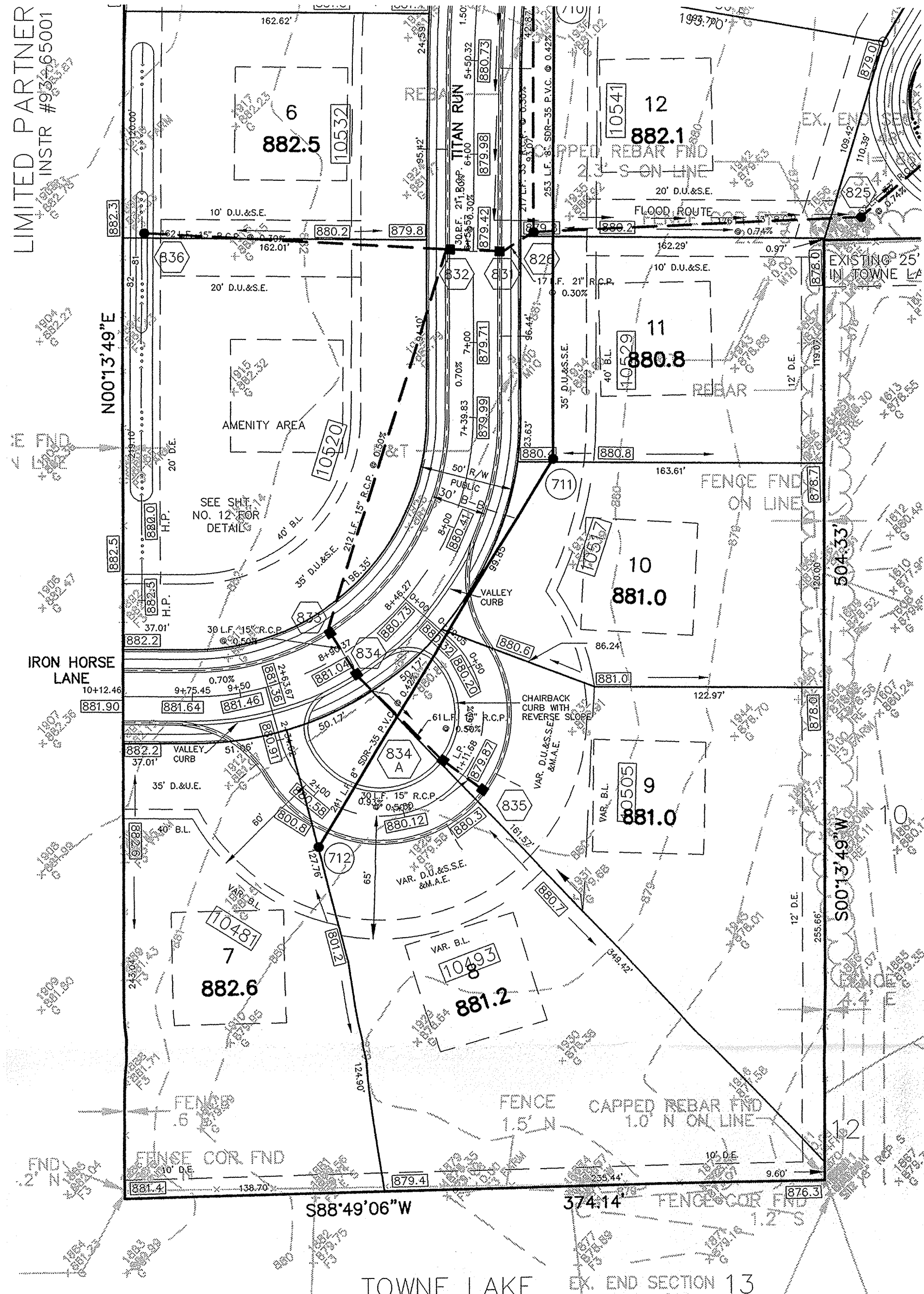
DATE: 4/30/01

MARK: [Signature]

REVISIONS:

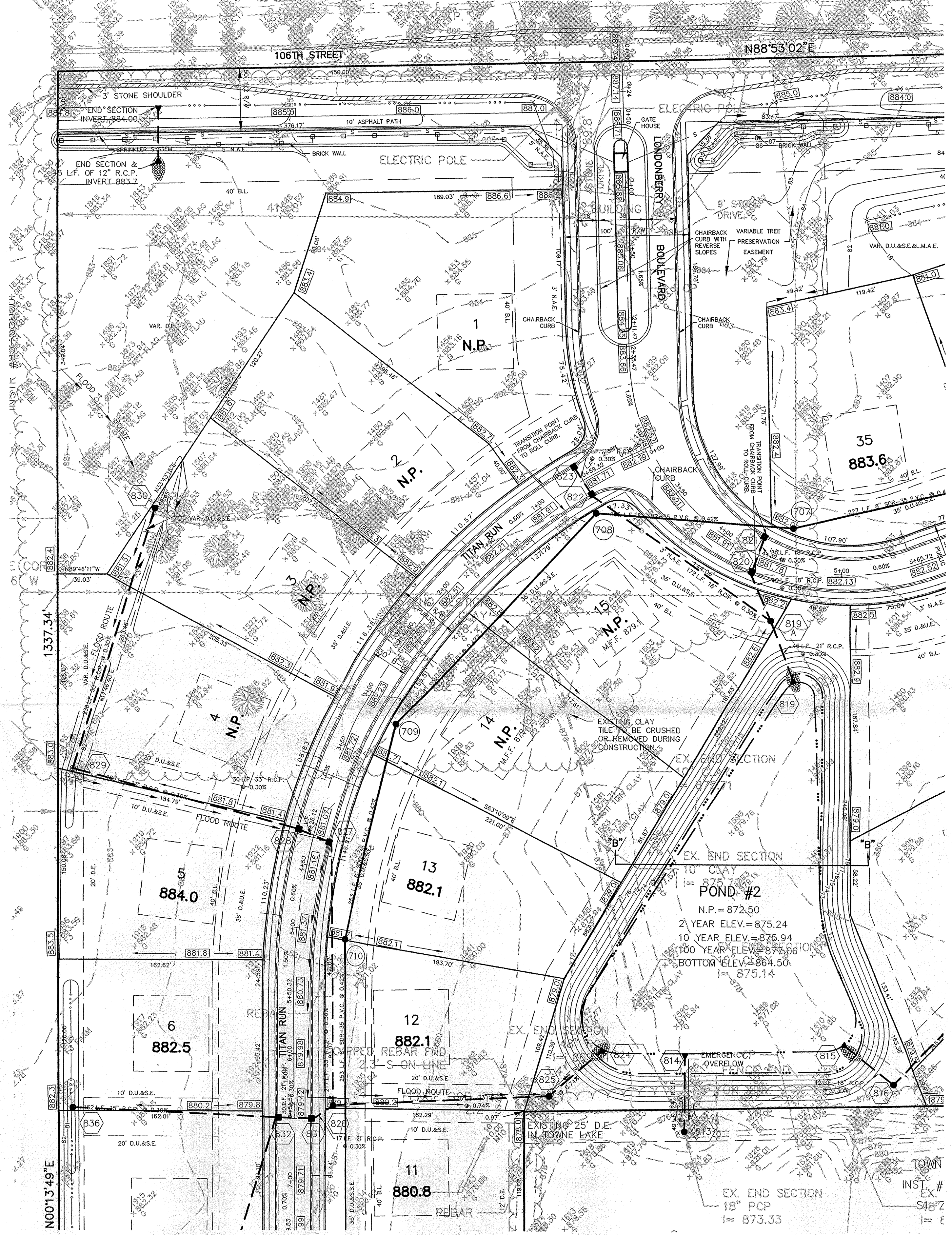
NO.	DATE	REVISIONS
1	7/19/01	REVISED PER FAC
2	8/02/01	REVISED PER FAC COMMENTS
3	9/12/01	REVISED PER OWNER
4	8/25/03	ADD REVISED EMERGENCY FLOOD ROUTE
5	9/23/04	STR. 800 MOVED, STR. 804X ADDED PER OWNER
6	9/23/04	RAISE BASIN WALL PER CONTRACTOR REQUEST

SHEET NO. 4 OF 28 SHEETS
JOB NO. 33697
OFFICE OF HAMILTON COUNTY SURVEYOR
JAN 02 2004



TOWNE LAKE EX. END SECTION 13
STORM TABLE 18" RCP

Str. No.	Type	To/Rim	Inverts	Dir.
800	MANHOLE	887.75	872.50	(SW)
801	CONC. END SECTION		873.00	(NE)
802	CONC. END SECTION		873.00	(NW)
803	YARD INLET	878.00	874.97	(W)(SE)(S)
804	YARD INLET	878.00	875.42	(E)
805	CURB INLET	881.62	875.61	(N)(S)
806	CURB INLET	881.62	875.70	(N)
807	CONC. END SECTION		873.00	(SE)
808	YARD INLET	878.70	874.24, 873.24	(NW)(SW)(S)
809	CURB INLET	880.51	874.05	(NE)(SW)
810	CURB INLET	880.35	874.34	(NE)(SW)
811	YARD INLET	877.00	874.95	(NE)
812	CONC. END SECTION		875.17	(N)
813	YARD INLET	874.70	869.51	(N)
814	CONC. END SECTION		872.50	(S)
815	CONC. END SECTION		872.50	(SE)
816	MANHOLE	879.50	872.63	(NE)(NW)
817	CURB INLET	879.50	873.37	(NE)(SW)
818	CURB INLET	879.62	873.75	(SW)
819	CONC. END SECTION		872.50	(NW)
819A	MANHOLE	882.40	872.64	(NW)(SE)
820	CURB INLET	881.78	872.76	(SE)(NE)
821	CURB INLET	881.78	872.86	(SW)
822	CURB INLET	881.71	873.16	(NW)(SE)
823	CURB INLET	881.88	873.25	(SE)
824	CONC. END SECTION		872.50	(SW)
825	MANHOLE	878.50	872.88	(W)(NE)
826	MANHOLE	880.00	874.19	(E)(SW)(N)
827	CURB INLET	881.07	874.84	(NW)(S)
828	CURB INLET	881.07	874.93	(NW)(SE)
829	YARD INLET	881.50	875.49	(NE)(SE)
830	YARD INLET	880.60	876.18	(SW)
831	CURB INLET	879.42	874.24	(NE)(W)
832	CURB INLET	879.42	874.33	(SW)(W)(E)
833	CURB INLET	881.04	875.39	(SE)(NE)
834	CURB INLET	881.21	875.54	(SE)(NW)
834A	CURB INLET	880.04	875.85	(SE)(NW)
835	CURB INLET	879.87	876.00	(NW)
836	YARD INLET	880.50	874.82	(E)



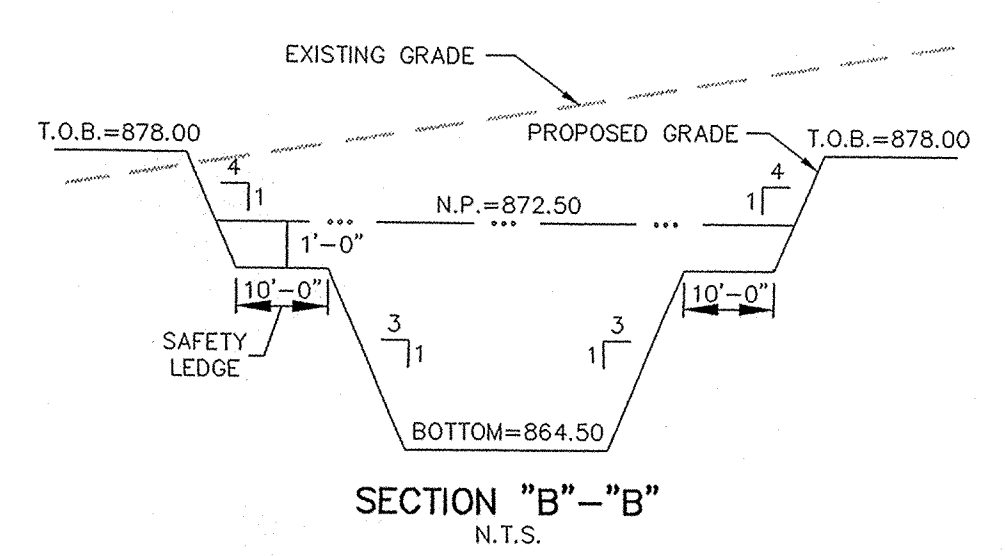
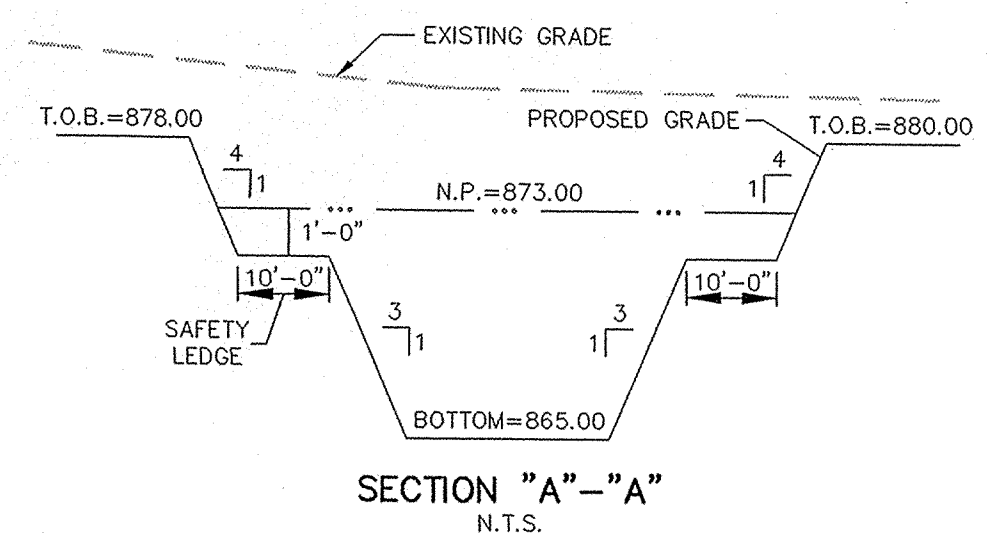
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SCALE: 1" = 50'

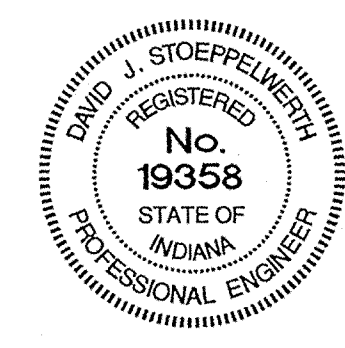
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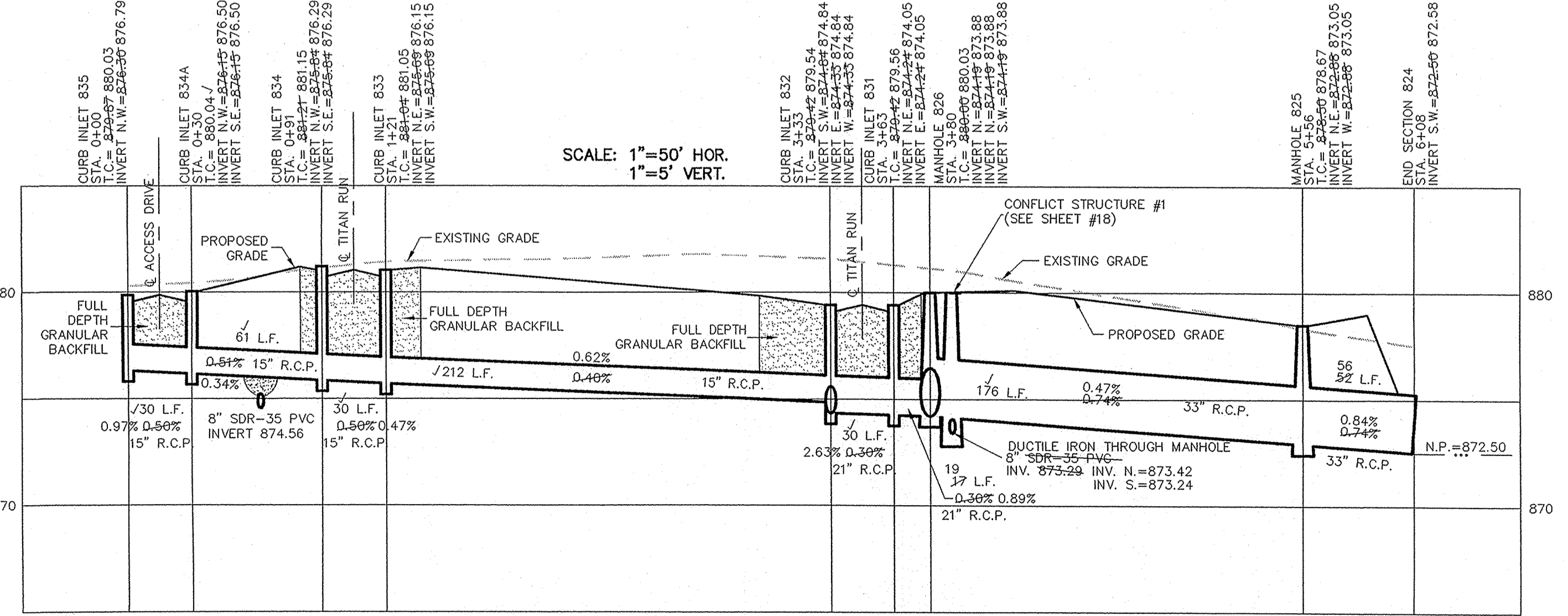
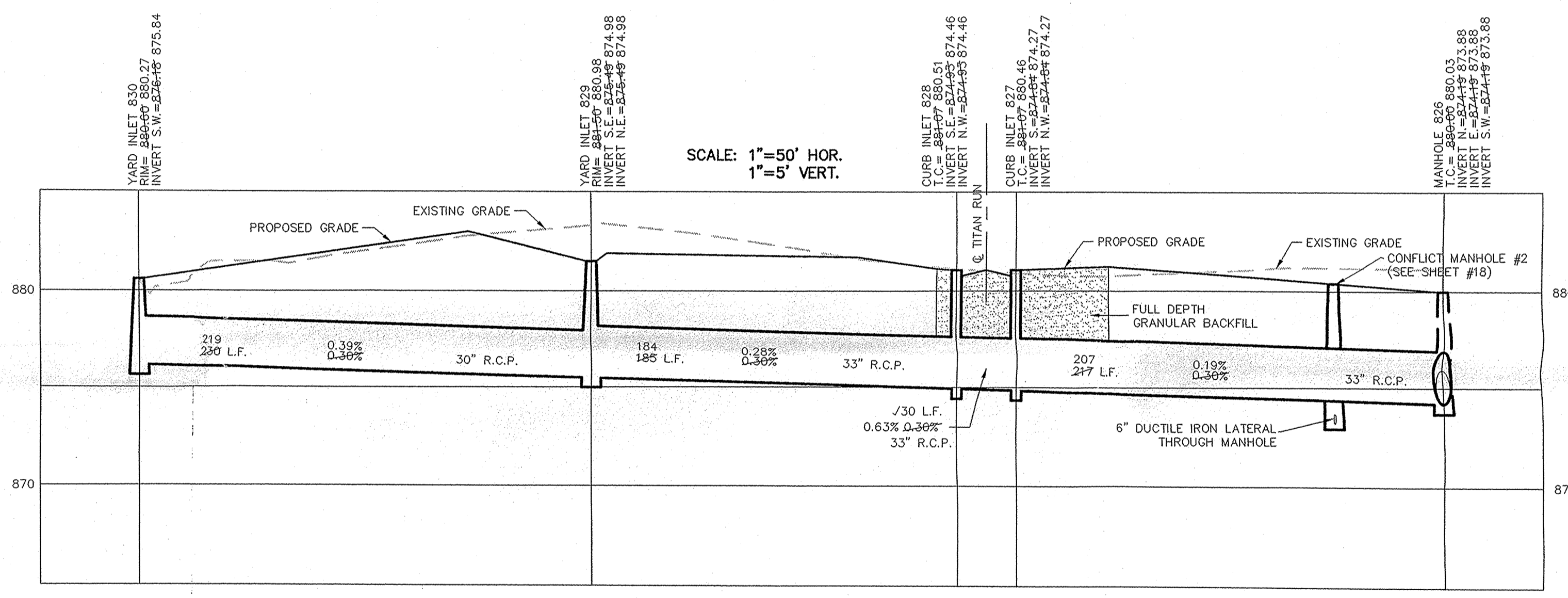
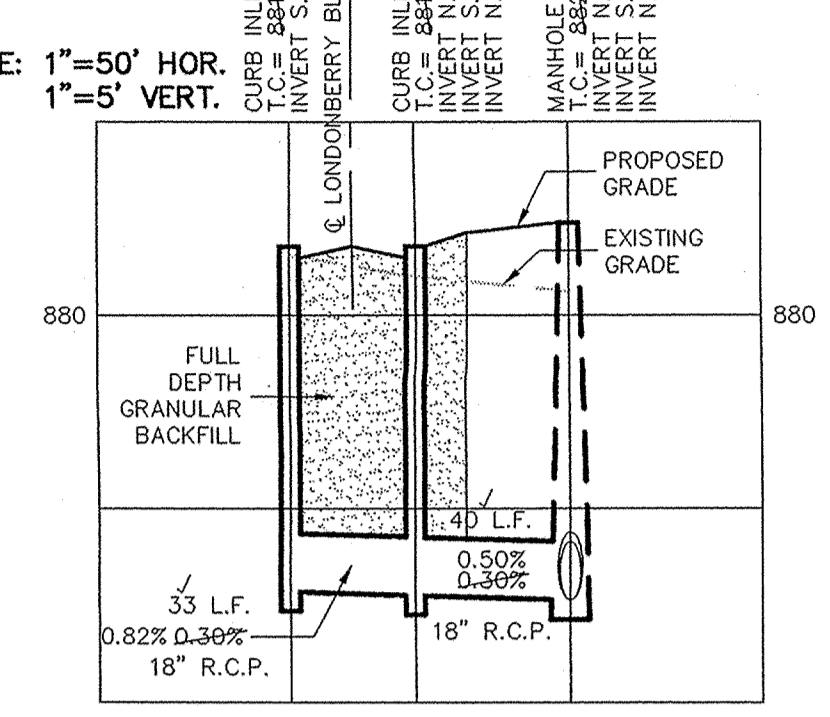
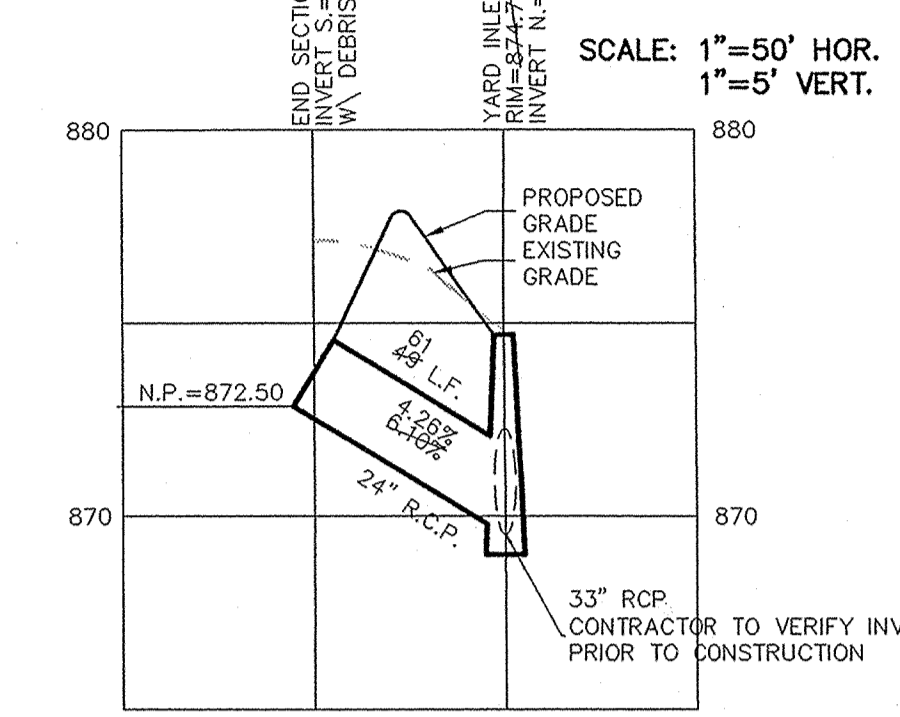
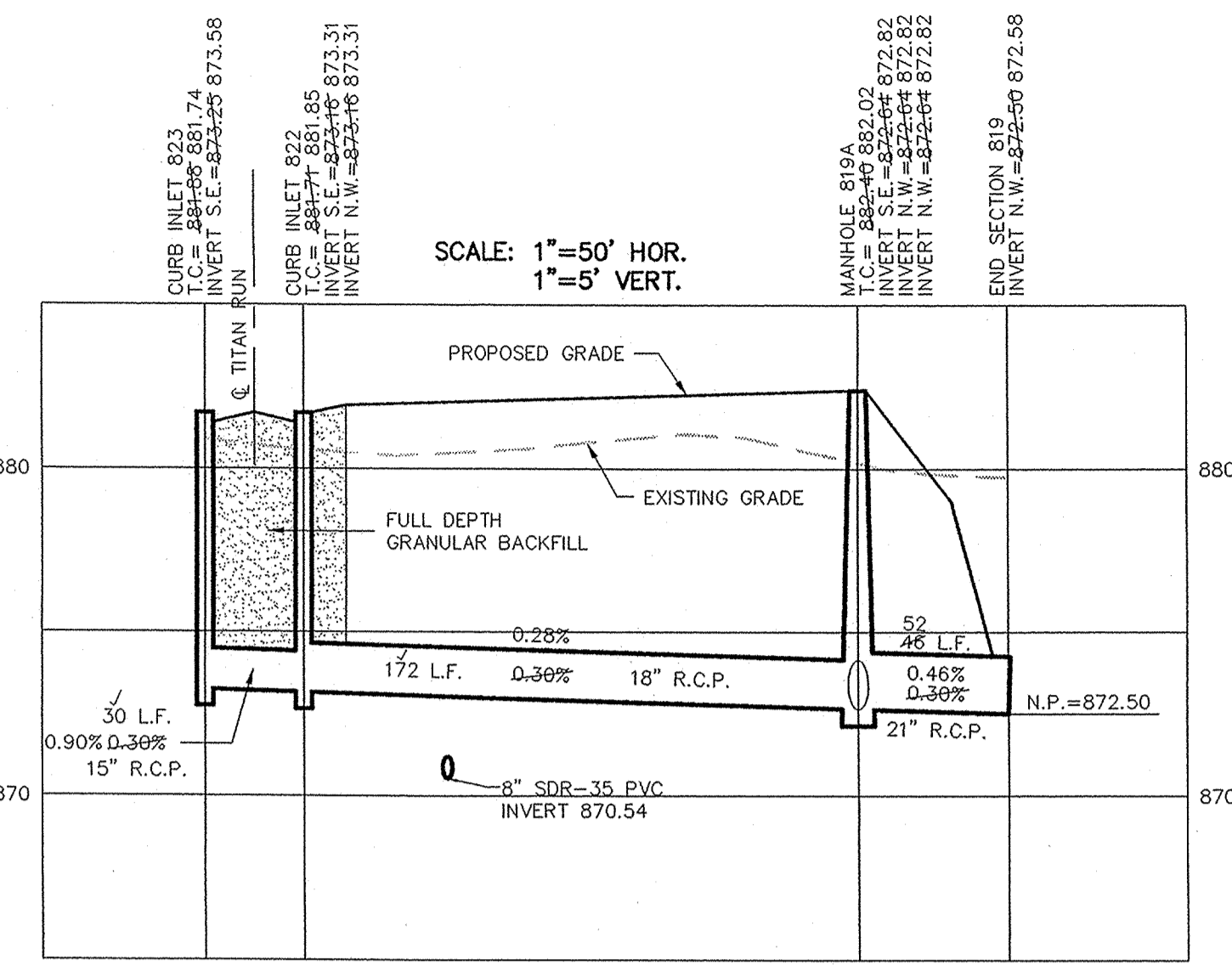
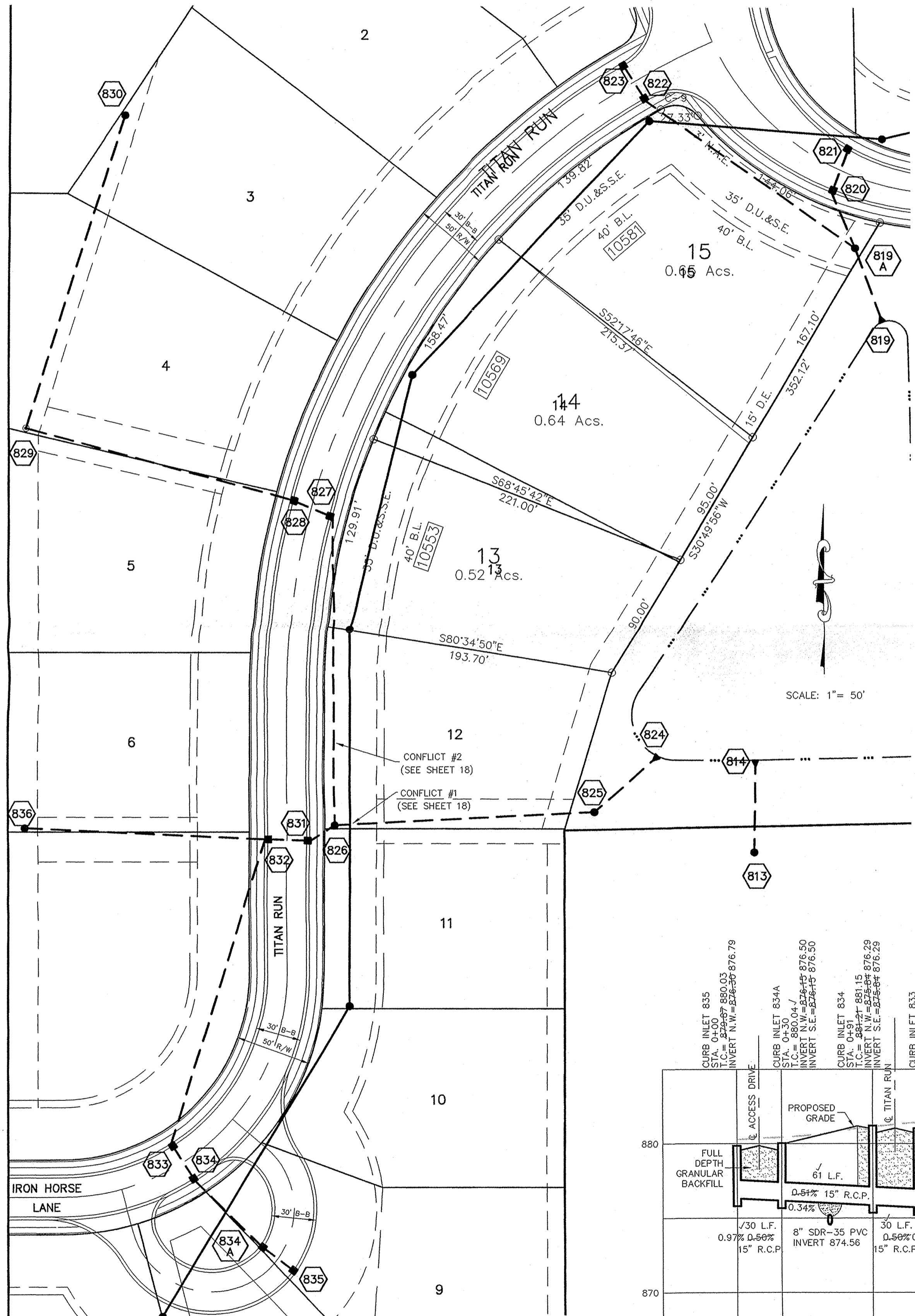
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CERTIFIED: 4/30/01
CONSULTING ENGINEERS - LAND SURVEYORS
(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942
INDIANAPOLIS INDIANA
SITE DEVELOPMENT PLAN
WINDSOR GROVE
CARMEL INDIANA
SHEET NO. 5 OF 28 SHEETS
JOB NO. 28310R COUNTY SURVEYOR
33697

RECORD DRAWING

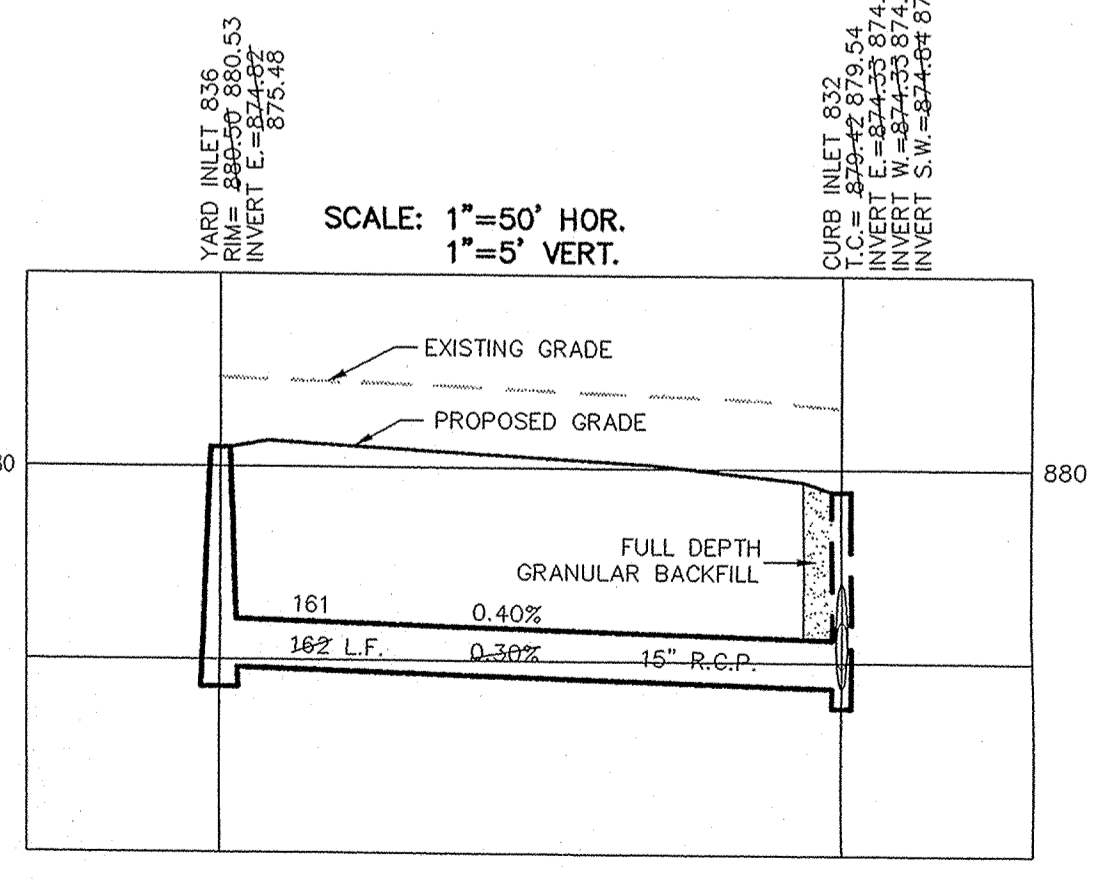
Jeffory W. Darling
 JEFFORY W. DARLING 12/27/01
 Registered Land Surveyor DATE
 No. 900017



INDIANA
 PROFESSIONAL ENGINEER
 No. 19358
 DAVID J. STOEPELWITZ
 REGISTERED
 PROFESSIONAL ENGINEER
 STATE OF INDIANA

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Entry Date: 6-2-04
 Entered by: JDH



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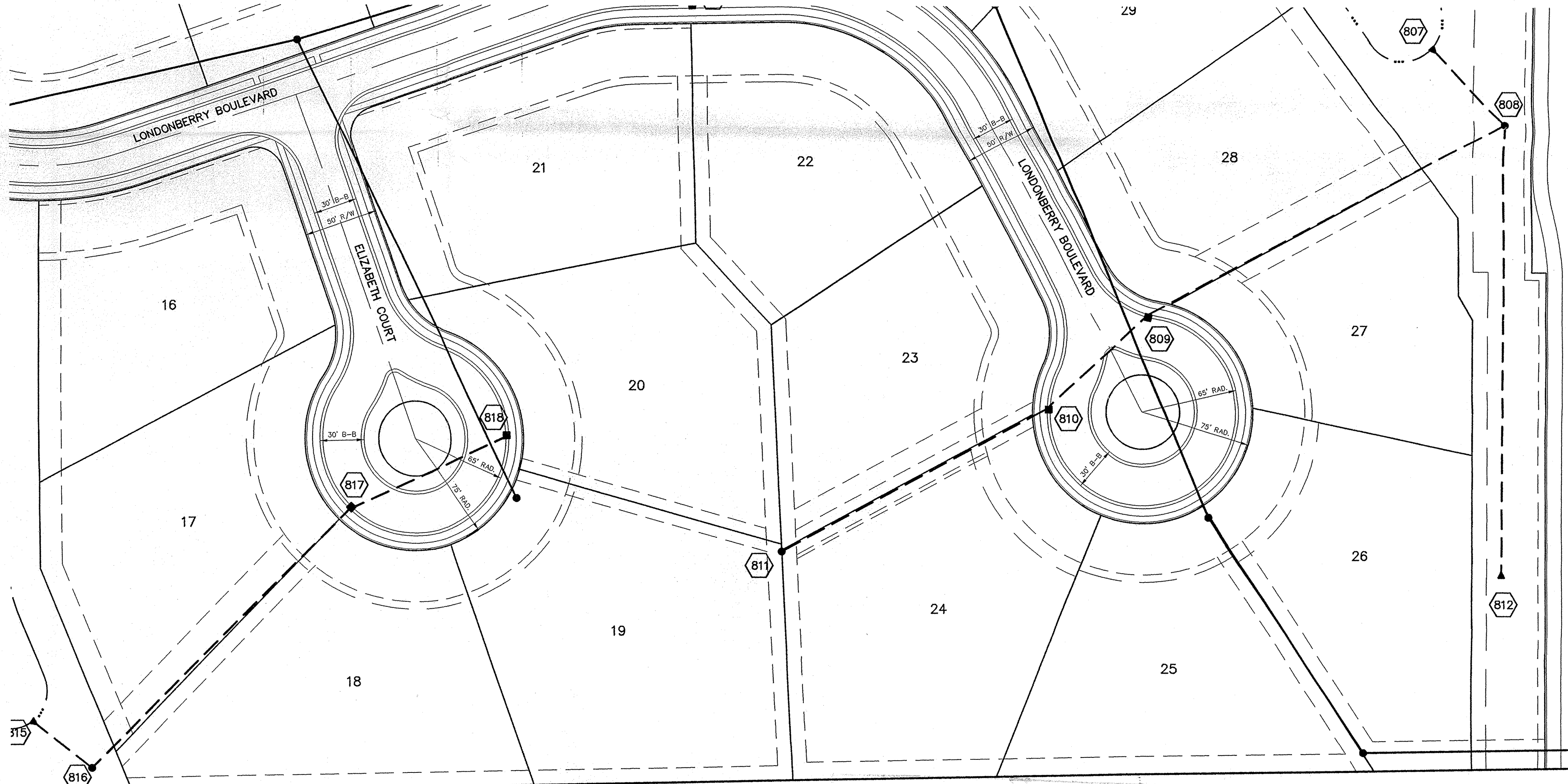
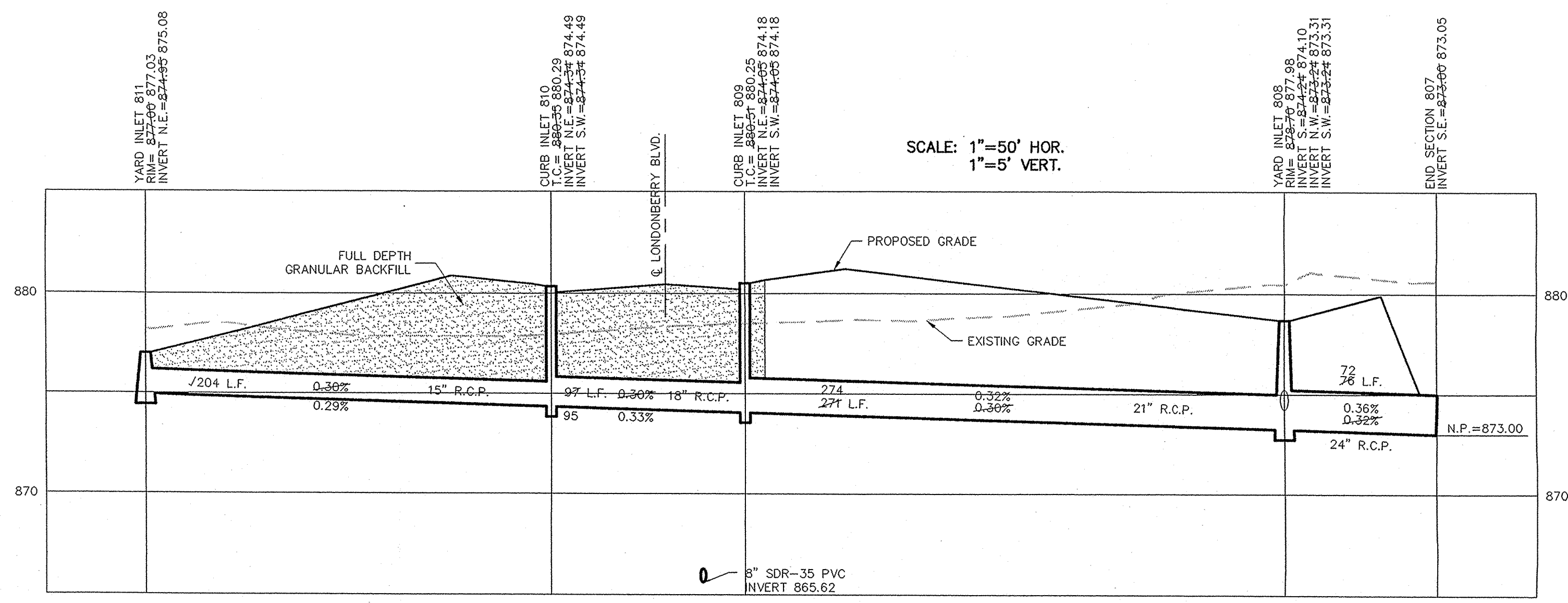
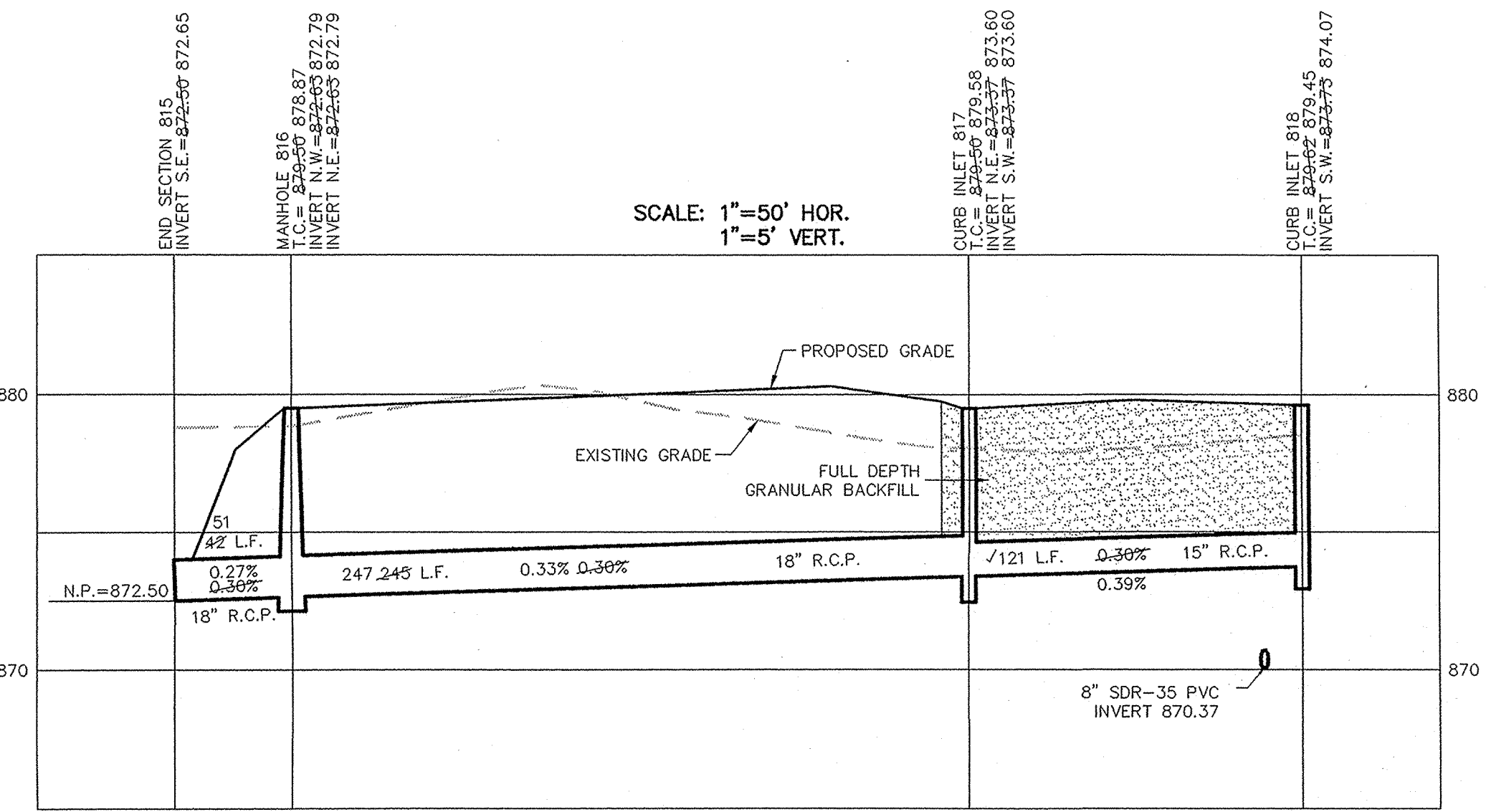
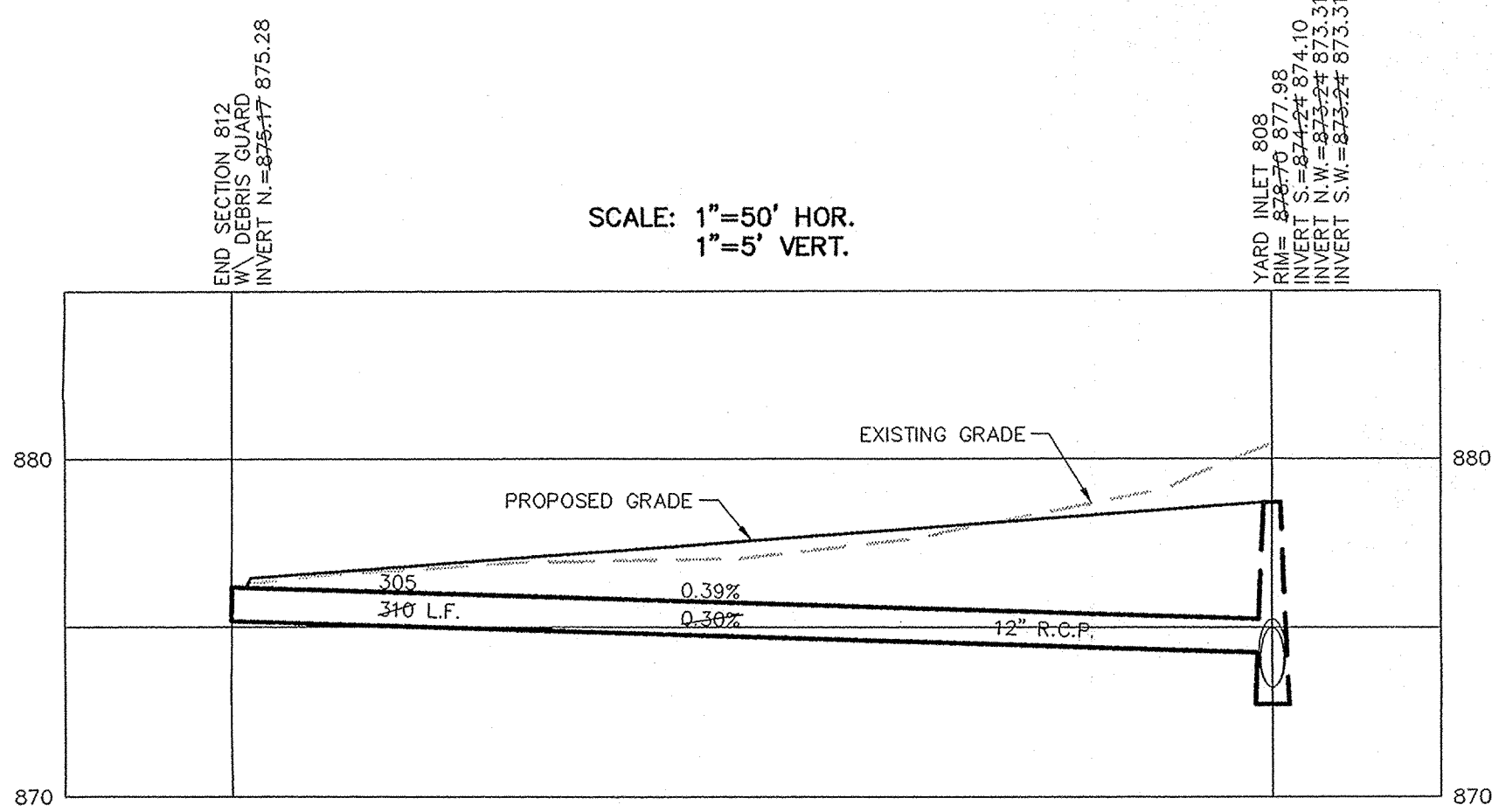
CERTIFIED: 4/30/01
 David J. Stoppelwitz
 CONSULTING ENGINEERS - LAND SURVEYORS
 INDIANAPOLIS, INDIANA
 (317) 849-5935 1-800-728-6917 FAX: (317) 849-5942
 INDIANA

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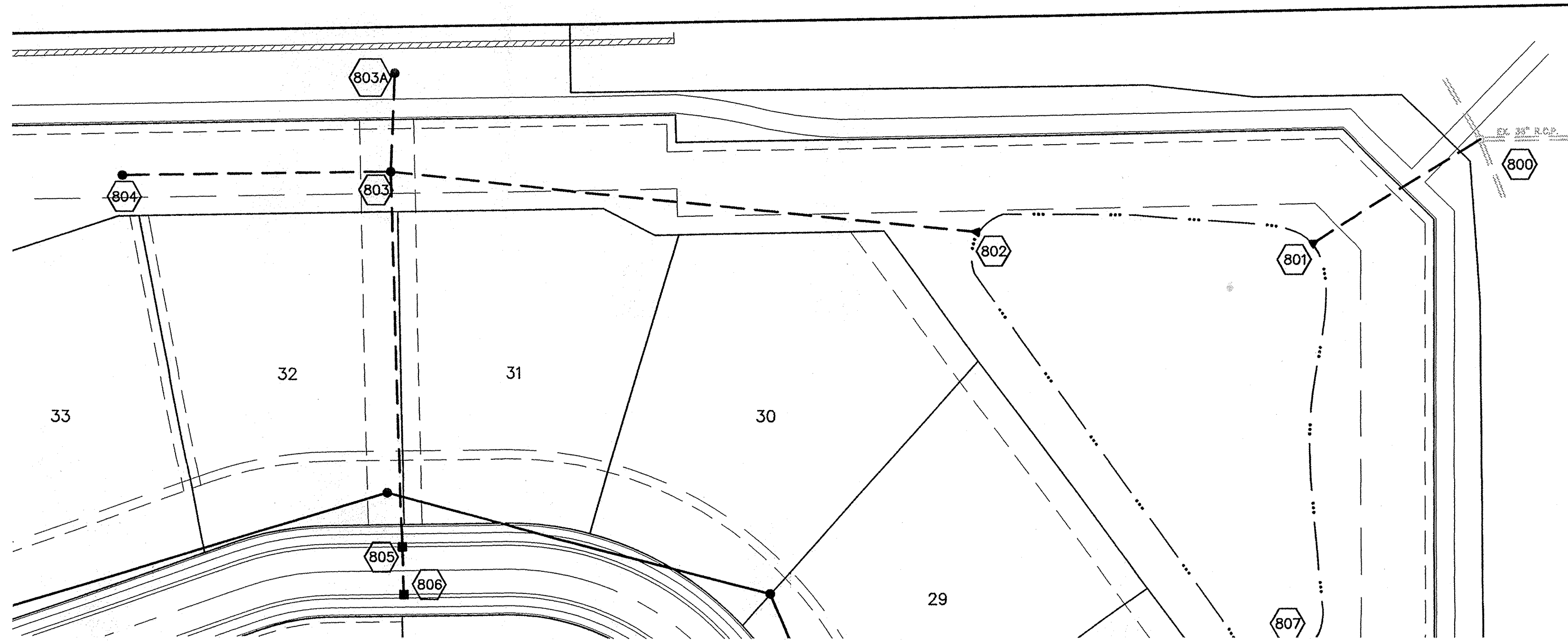
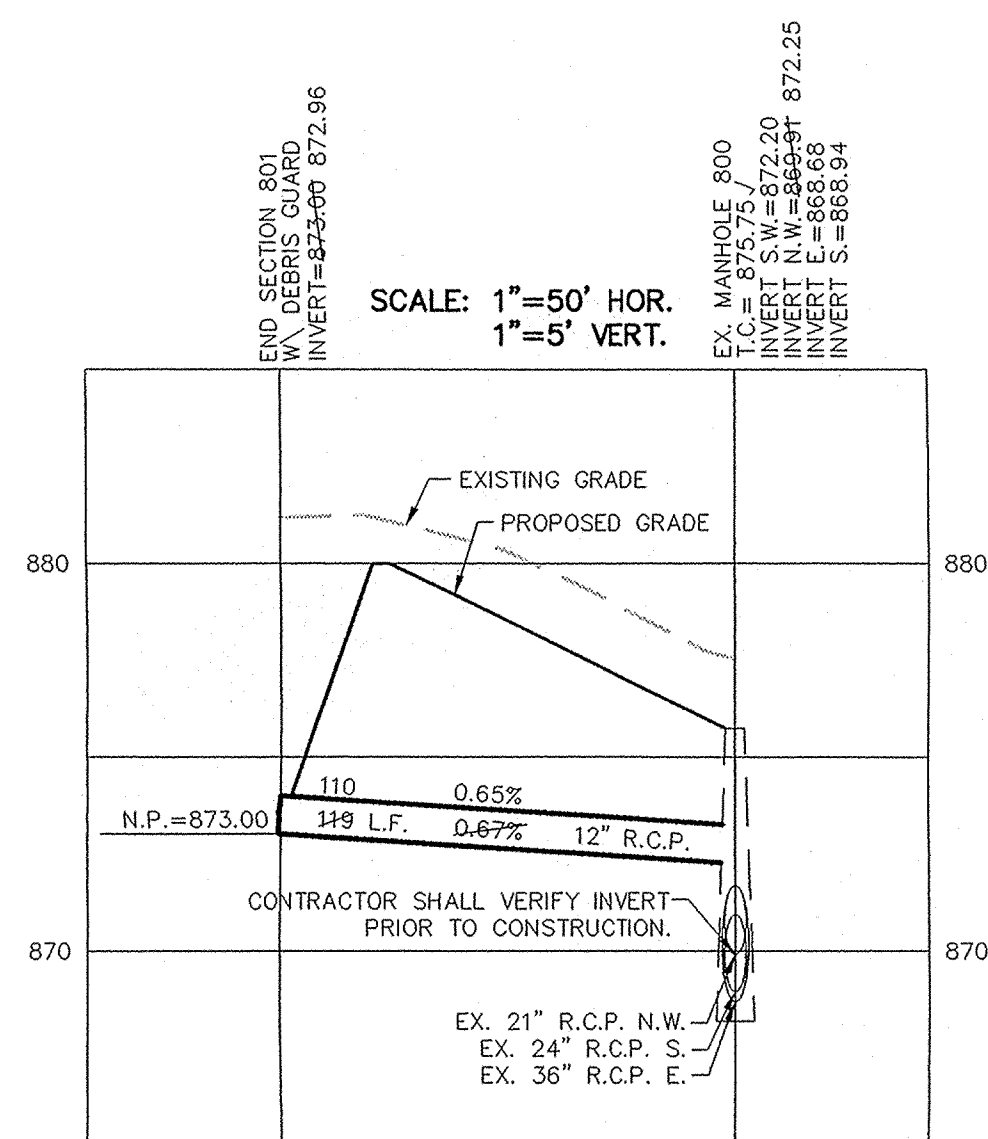
Jeffery W. Darling
 JEFFERY W. DARLING 12/27/01
 Registered Land Surveyor DATE
 No. 900017



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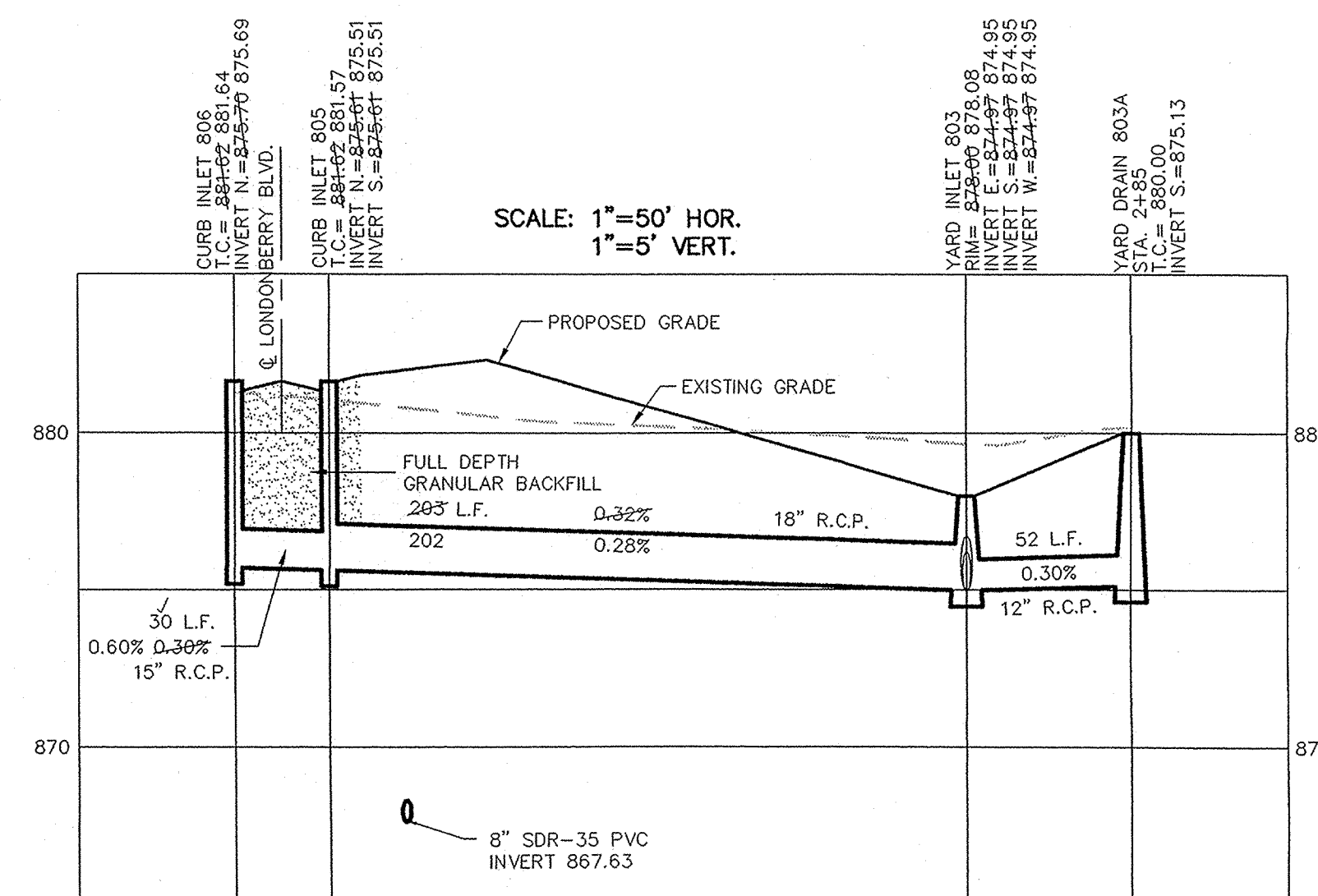
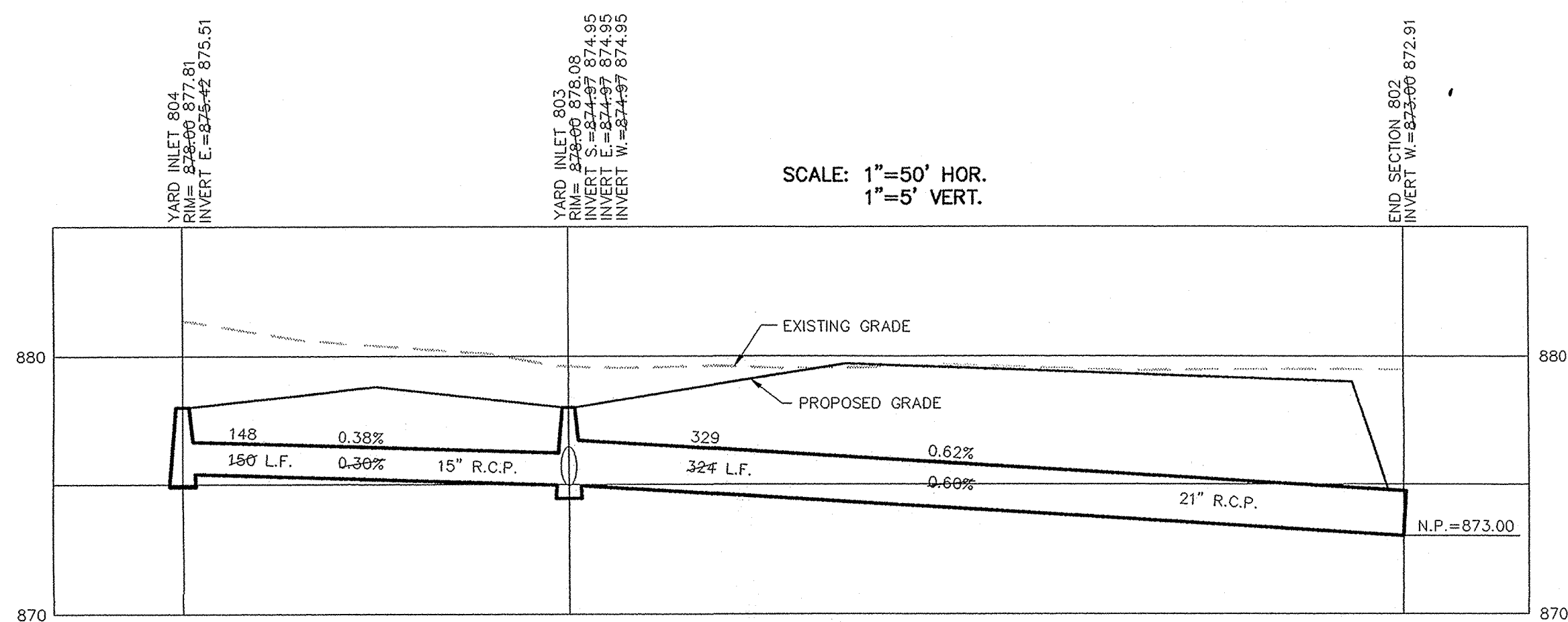
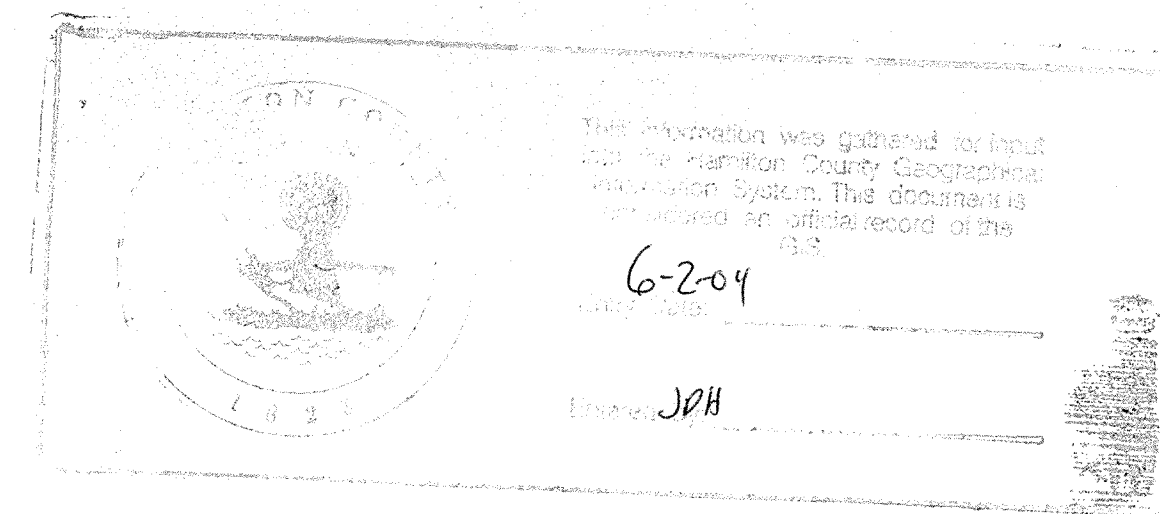
CONSULTING ENGINEERS - LAND SURVEYORS (317) 849-5935 1-800-728-6917 FAX (317) 849-5942 INDIANAPOLIS INDIANA		REGISTERED PROFESSIONAL ENGINEER No. 19358 STATE OF INDIANA David J. Stoppelweh		DATE: 4/30/01	MARK:	REVISIONS:
OWN. BY:	SCS	OK BY:	JOR	SCALE:	DATE:	
				1"=50'	12/27/01	
					7/19/01	
STORM SEWER PLAN & PROFILE			INDIANA			
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Jeffery W. Darling
JEFFERY W. DARLING
Registered Land Surveyor
No. 900017

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(317) 849-5935 1-800-728-6917 FAX: (317) 849-5942
INDIANAPOLIS

CERTIFIED: 4/30/01
David J. Stappeler
REGISTERED PROFESSIONAL ENGINEER
No. 19358
STATE OF INDIANA

DATE	MARK	REVISIONS	BY
4/30/01			MF
9/07/02			MF
12/27/01			CRH
9/13/01			MF
7/19/01			MF

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