

**Drain:** BRIDLEWOOD DRAIN **Drain #:** 66  
**Improvement/Arm:** BRIDLEWOOD-SECTION 2  
**Operator:** JDH **Date:** 10-29-03  
**Drain Classification:** Urban/Rural **Year Installed:** 1988

### GIS Drain Input Checklist

- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JDH 10-29
- Digitize & Attribute SSD JDH 10-29
- Digitize & Attribute Open Ditch JDH 11-21
- Sum drain lengths & Validate JDH 10-29
- Enter Improvements into Posse JDH 10-29
- Enter Drain Age into Posse JDH 11-21
- Sum drain length for Watershed in Posse JDH 11-21
- Stamp Plans JDH 10-29
- Pull Source Documents for Scanning JDH 10-29

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

Drain-Improvement: BRIDLEWOOD DRAIN - SECTION 2

Drain Type:	Size:	Length (SUBSURFACE (FINAL REPORT))	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	3257.96	3257.96'	∅		
RCP	12"	597'	597'	∅		
	15"	353'	353'	∅		
	18"	253'	253'	∅		
	27"	223'	223'	∅		
	30"	728'	728'	∅		
	36"	473'	473'	∅		
	42"	1183'	1183'	∅		
CMP	24"	25'	25'	∅		
CONCRETE BOX CULVERT	24"	25'	25'	∅		
OPEN DITCH		160'	160'	∅		

Sum: 7277.96'    7277.96'    ∅

Final Report: \_\_\_\_\_

Comments:

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SURVEYOR'S OFFICE  
**Hamilton County**

*Kenton C. Ward, Surveyor*

776-9626

*Noblesville, Ind. 46060* December 6, 1988

TO Hamilton County Drainage Board

RE: Bridlewood Drain, Section II

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Bridlewood Drain, Section II.

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 benefitted. The drain will consist of the following:

6" SSD	3822ft	27" RCP	223ft	Open Ditch	160ft
12" RCP	597ft	30" RCP	728ft	24" CMP	25ft
15" RCP	353ft	36" RCP	473ft	24" Conc. Box	
18" RCP	253ft	42" RCP	1183ft	Culvert	25ft

The total length of the drain will be 7852 feet.

The 24" CMP under 151st Street North of STR 13 and the 24" Conc. Box Culvert under Grassy Branch Road North East of STR 38 was included as part of the drain. Also, all the six (6") inch SSD was included, but the length may change with the "As Built".

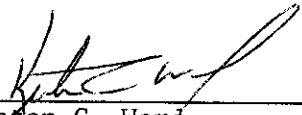
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I recommend a maintenance assessment of \$50.00 per lot, \$5.00 per acre for roadways, with a \$50.00 minimum.

With this assessment the total annual assessment for the drain/this section will be \$1410.85.

Upon approval at the hearing, I recommend the Board approve the non-enforcement request submitted by the Petitioner.

I recommend a hearing be set for February 1989.

KCW/no

  
\_\_\_\_\_  
Kepton C. Ward  
Hamilton County Surveyor

**FILED**

DEC 12 1988

HAMILTON COUNTY DRAINAGE BOARD  
  
SECRETARY

Irrevocable Letter of Credit

Indiana National®

The Indiana National Bank  
One Indiana Square, Suite 314  
Indianapolis, Indiana 46266



Date: March 23, 1988cw

SWIFT Address: INBI US 44 Telex Number: 02-7326 Phone: 266-6153

INB NO.  
**SB 034382**

Credit Number Advising Bank No.

Advising Bank

Applicant

Land Innovators, an Indiana Limited Partnership  
234 S. Franklin Road  
Indianapolis, IN 46219

Beneficiary

Hamilton County Commissioners, Hamilton  
County Drainage Board and The Westfield  
Town Board of Trustees-Westfield City  
Building-130 E. Penn St. Westfield, IN 46074

Amount

U.S.D. \$120,300.00

Expiration Date

April 1, 1989

THE INDIANA NATIONAL BANK  
12030000

We hereby issue in your favor this irrevocable letter of credit which is available against the following documents:

Drafts drawn at— sight

on The Indiana National Bank

bearing the clause; "Drawn under Irrevocable letter of credit No. **SB 034382**  
Other documents:

Beneficiary's signed certificate stating that the applicant has failed to  
construct the necessary storm sewers, lot grading and drainage improvements  
at the applicant's 10101 Woodlawn Subdivision in Hamilton County, Indiana.

Special Conditions:

We hereby engage with  You  drawers and/or bona fide holders that drafts  
drawn and negotiated in conformity with the terms of this credit will be duly honored  
on presentation and that drafts accepted within the terms of this credit will be duly  
honored at maturity.

The amount of each draft must be endorsed on the reverse of this credit by the  
negotiating bank.

~~THE ADVISING BANK IS REQUESTED TO HONOR THE BENEFICIARY WITHOUT ADDING THEIR  
CONFIRMATION.~~XX

Very truly yours,

*Glenda C. Stremmer*

Advising Bank's Notification

Place/date/name/signature of advising bank.

1983  
400  
Except so far as otherwise expressly stated, this documentary credit is subject to the  
"Uniform Customs and Practice for Documentary Credits" (1983 Revision) International Chamber of Commerce (Publication No. 300)



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*

July 23, 1996

TO: Hamilton County Drainage Board

RE: Bridlewood Drain-Section 2

Attached are As-Builts, Certificate of Completion and Compliance, and other information for Bridlewood Drain-Section 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 December 6, 1988. The changes are as follows:

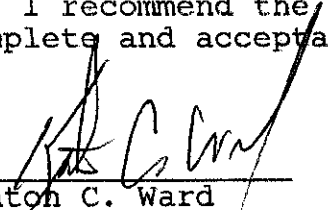
The correct total of six (6") inch SSD is 3257.96 feet

The length of the drain due to the changes described above is now 7,277.96 feet.

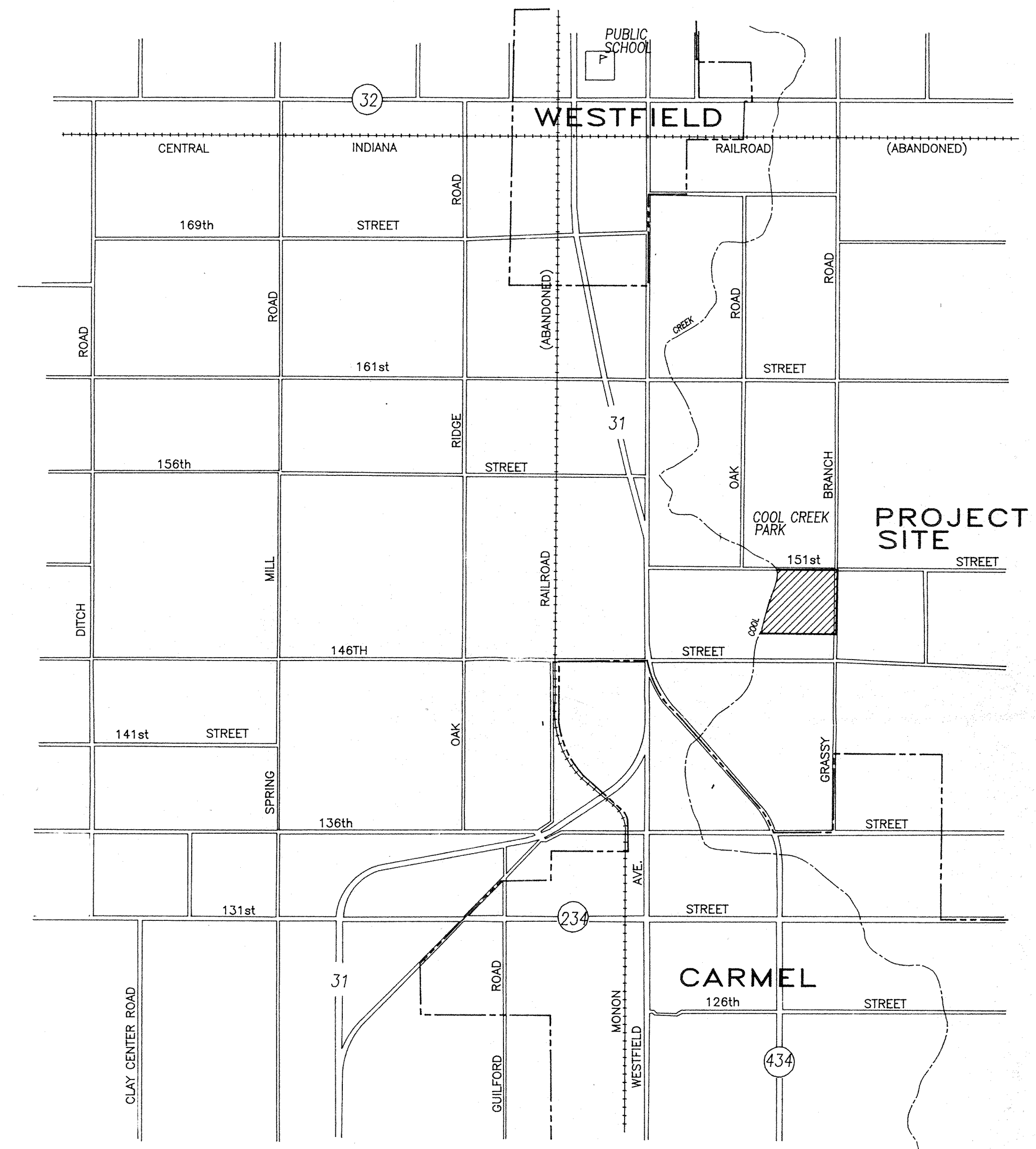
The non-enforcement was approved by the Board at its meeting on February 21, 1989.

The Bond or Letter of Credit from Indiana National Bank, number SB 034382, dated March 23, 1988, in the amount of \$120,300.00, has expired.

I recommend the Board approve the drains construction as complete and acceptable.

  
\_\_\_\_\_  
Kenton C. Ward  
Hamilton County Surveyor  
KCW/no

CONSTRUCTIONS PLANS FOR  
**BRIDLEWOOD**  
 SECTION II



SHEET INDEX

1. COVER SHEET
2. OVERALL SANITARY SEWER PLAN
3. FINAL PLAT - SECTION 2
4. SITE PLAN
5. EROSION CONTROL PLAN
6. HORSESHOE DRIVE
7. WINDMILL DRIVE and CIRCLE
8. CURRY LANE SANITARY SEWER
9. STORM SEWERS - STR'S. 48-54
10. STORM SEWERS - STR'S. 28-30, 37, 43-48
11. STORM SEWERS - STR'S. 31-42
12. STORM SEWERS - STR'S. 9-13, 26-27
13. INTERSECTION DETAILS
14. STANDARD SPECIFICATIONS
15. MISC. STANDARD DETAILS

**Evergreen**  
 Planners, Inc.  
 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219  
 317/353-6161

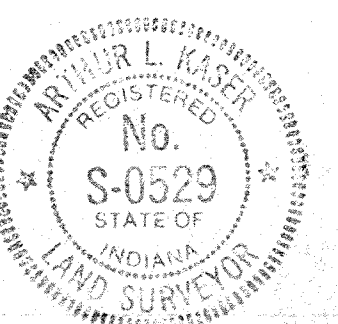
THESE PLANS PREPARED BY:

FILED

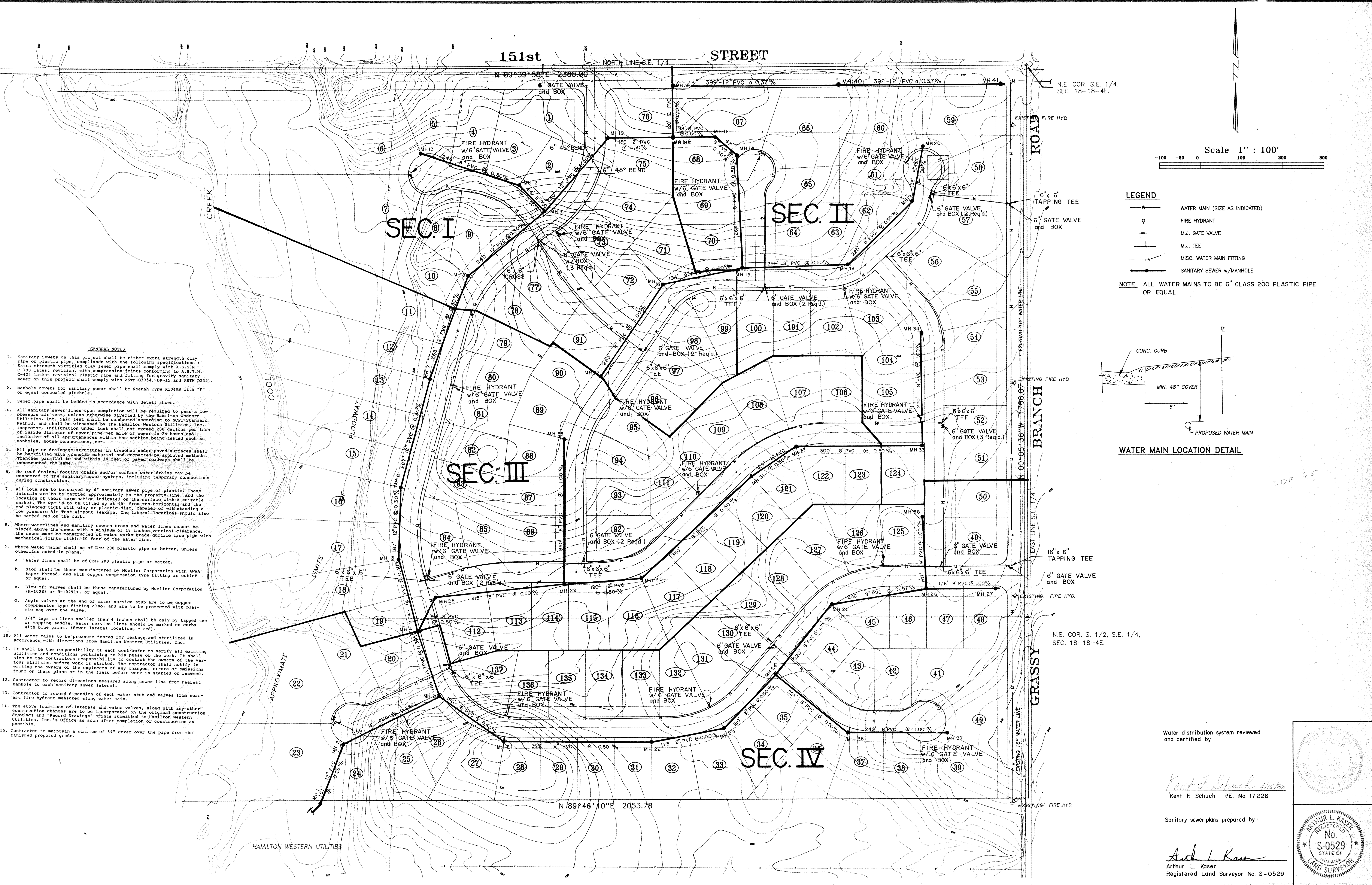
JUL 19 1988

OFFICE OF HAMILTON COUNTY SURVEYOR

*Arthur L. Kaser*  
 ARTHUR L. KASER  
 REGISTERED LAND SURVEYOR NO. S0529



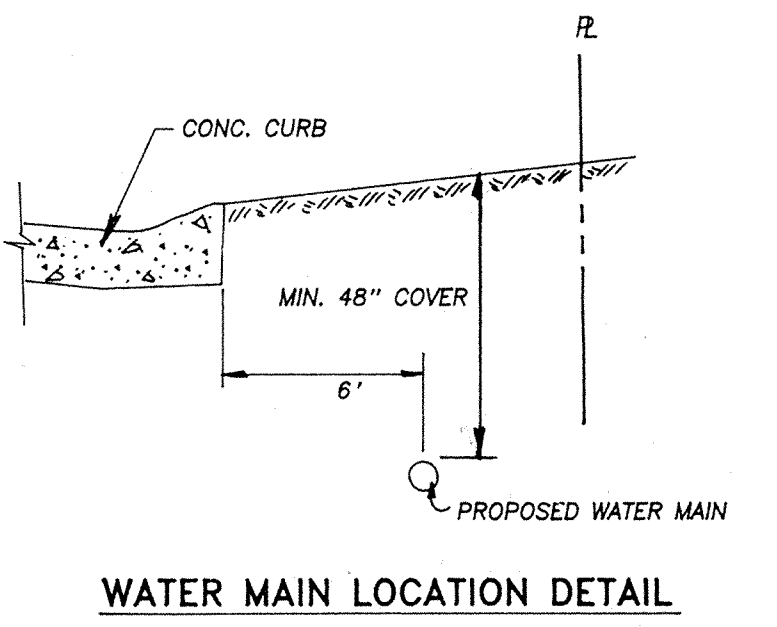
REVISED 6-28-88



**LEGEND**

- WATER MAIN (SIZE AS INDICATED)
- ⊕ FIRE HYDRANT
- ⊕ M.J. GATE VALVE
- ⊕ M.J. TEE
- MISC. WATER MAIN FITTING
- SANITARY SEWER w/ MANHOLE

**NOTE:** ALL WATER MAINS TO BE 6" CLASS 200 PLASTIC PIPE OR EQUAL.



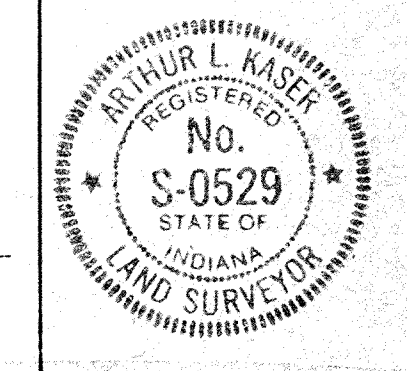
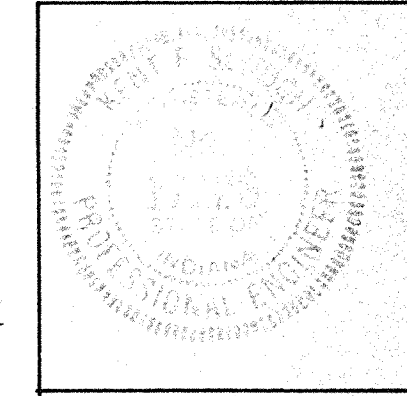
- GENERAL NOTES**
- Sanitary Sewers on this project shall be either extra strength clay pipe or plastic pipe, compliance with the following specifications: Extra strength vitrified clay sewer pipe shall comply with A.S.T.M. C-700 latest revision, with compression joints conforming to A.S.T.M. C-425 latest revision. Plastic pipe and fitting for gravity sanitary sewer on this project shall comply with ASTM D1034, DR-15 and ASTM D2321.
  - Manhole covers for sanitary sewer shall be Heenan Type R10408 with "r" or equal concealed pickhole.
  - Sewer pipe shall be bedded in accordance with detail shown.
  - All sanitary sewer lines upon completion will be required to pass a low pressure air test, unless otherwise directed by the Hamilton Western Utilities, Inc. Said test shall be conducted according to NCP Standard Method, and shall be witnessed by the Hamilton Western Utilities, Inc. Inspector. Infiltration under test shall not exceed 200 gallons per inch of inside diameter of sewer pipe per mile of sewer in 24 hours and inclusive of all appurtenances within the section being tested such as manholes, house connections, etc.
  - All pipe or drainage structures in trenches under paved surfaces shall be backfilled with granular material and compacted by approved methods. Trenches parallel to and within 10 feet of paved roadways shall be constructed the same.
  - No roof drains, footing drains and/or surface water drains may be connected to the sanitary sewer systems, including temporary connections during construction.
  - All lots are to be served by 6" sanitary sewer pipe of plastic. These laterals are to be carried approximately to the property line, and the location of their termination indicated on the surface with a suitable marker. The eye is to be tilted up at 45° from the horizontal and the end plugged tight with clay or plastic disc, capable of withstanding a low pressure air test without leakage. The lateral locations should also be marked red on the curb.
  - Where waterlines and sanitary sewers cross and water lines cannot be placed above the sewer with a minimum of 18 inches vertical clearance, the sewer must be constructed of water works grade ductile iron pipe with mechanical joints within 10 feet of the water line.
  - Where water mains shall be of Class 200 plastic pipe or better, unless otherwise noted in plans.
    - Water lines shall be of Class 200 plastic pipe or better.
    - Stop shall be those manufactured by Mueller Corporation with ANMA taper thread, and with copper compression type fitting an outlet or equal.
    - Blow-off valves shall be those manufactured by Mueller Corporation (H-10283 or H-10291), or equal.
    - Angle valves at the end of water service stub are to be copper compression type fitting also, and are to be protected with plastic bag over the valve.
    - 3/4" taps in lines smaller than 4 inches shall be only by tapped tee or tapping saddle. Water service lines should be marked on curbs with blue paint. (Sewer lateral locations - red).
  - All water mains to be pressure tested for leakage and sterilized in accordance with directions from Hamilton Western Utilities, Inc.
  - It shall be the responsibility of each contractor to verify all existing utilities and conditions pertaining to his phase of the work. It shall also be the contractor's responsibility to contact the owners of the various utilities before work is started. The contractor shall notify in writing the owners or the engineers of any changes, errors or omissions found on these plans or in the field before work is started or resumed.
  - Contractor to record dimensions measured along sewer line from nearest manhole to each sanitary sewer lateral.
  - Contractor to record dimension of each water stub and valves from nearest fire hydrant measured along water main.
  - The above locations of laterals and water valves, along with any other construction changes are to be incorporated on the original construction drawings and "Record Drawings" prints submitted to Hamilton Western Utilities, Inc.'s Office as soon after completion of construction as possible.
  - Contractor to maintain a minimum of 54" cover over the pipe from the finished proposed grade.

Water distribution system reviewed and certified by:

*Kent F. Schuch*  
 Kent F. Schuch P.E. No. 17226

Sanitary sewer plans prepared by:

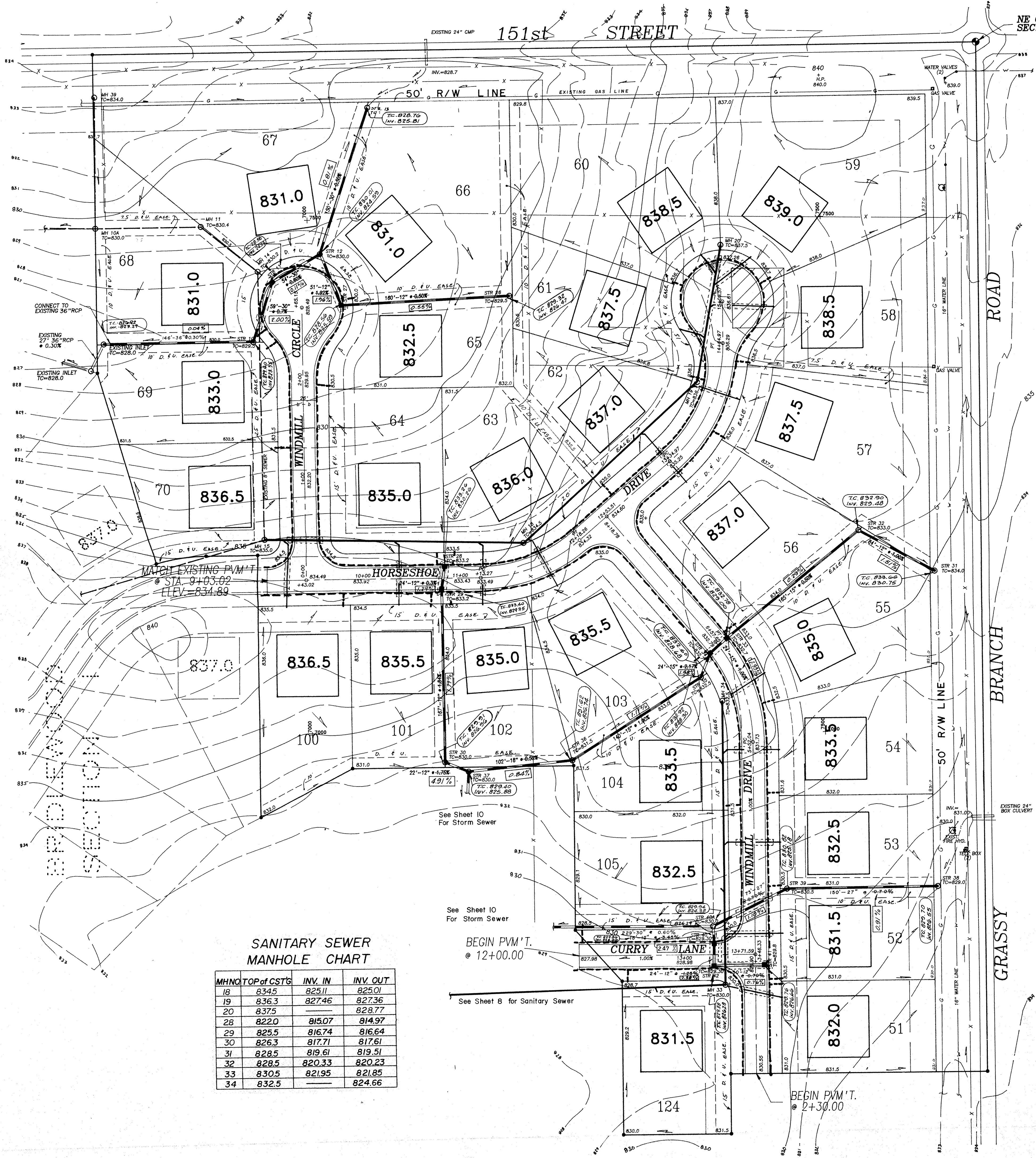
*Arthur L. Kaser*  
 Arthur L. Kaser  
 Registered Land Surveyor No. S-0529



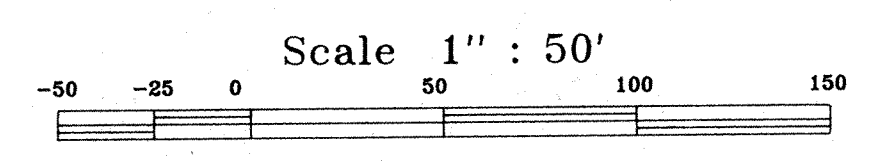
DATES AND REVISIONS		TITLE		Evergreen		DATE
		MASTER SEWER & WATER PLAN		Planners, Inc.		Dec., 1988
		BRIDLEWOOD		JUL 19 1988		JOB NO.
		DESIGN BY		234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46215		87-84
		DRAWN BY		317/353-6161		SCALE
		CHECKED				1" = 100'
		APPROVED				SHEET NO.
1-5-82 ADDED MH 40 & MH 41		ALK		HASP		3 of 12
8-8-88 MOVED WATER LINE IN CUR-DE-SACS						







NE COR. SE 1/4,  
SEC. 18-18-4E.



- LEGEND**
- 9 1/2" FULL DEPTH ASPHALT
  - 4" CONC. WALK
  - FULL DEPTH GRANULAR BACKFILL
  - PROPOSED SANITARY SEWER & MH.
  - PROPOSED STORM SEWER & INLET
  - PROPOSED 6" LATERAL
  - EXISTING SEWERS

**STORM SEWER  
STRUCTURE DATA**

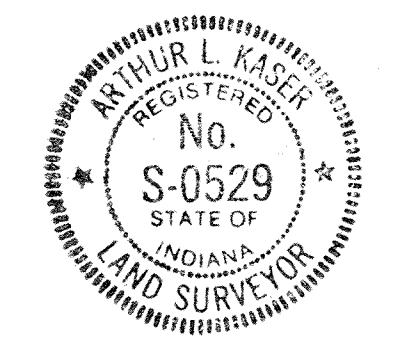
STR. No.	STRUCTURE TYPE	NEENAH CSTG. TYPE	IN-FLOW C.F.S.	AREA
10	Solid Lid MH	R-1077A		
11	Curb Inlet	R-3501-N	1.80	0.90
12	Solid Lid MH	R-1077A		
13	Yard Inlet	R-4343	2.40	1.20
26	Yard Inlet	R-4342	2.40	0.60
27	Curb Inlet	R-3501-N	1.20	0.60
28	Curb Inlet	R-3501-N	1.80	0.90
29	Curb Inlet	R-3501-N	1.48	0.74
30	Yard Inlet	R-4342	1.50	0.75
31	Yard Inlet	R-4343	3.32	1.66
32	Yard Inlet	R-4342	1.16	0.58
33	Curb Inlet	R-3501-N	1.80	0.90
34	Curb Inlet	R-3501-N	0.40	0.20
35	Solid Lid MH	R-1077A		
36	Yard Inlet	R-4342	0.88	0.44
37	Yard Inlet	R-4342	0.84	0.42
38	Yard Inlet	R-4343	25.42	27.69
39	Solid Lid MH	R-1077A		
40A	Solid Lid MH	R-1077A		
40	Curb Inlet	R-3501-N	0.88	0.44
41	Curb Inlet	R-3501-N	2.86	1.43
42	Curb Inlet	R-3501-N	1.00	0.50
43	Curb Inlet	R-3501-N	3.70	1.85
43A	Solid Lid MH	R-1077A		
44	Curb Inlet	R-3501-N	1.26	0.63
45	Solid Lid MH	R-1077A		
46	Yard Inlet	R-4342	2.30	1.15
47	Yard Inlet	R-4342	4.52	2.26
48	Yard Inlet	R-4342	1.08	0.54
49	Yard Inlet	R-4342	2.68	1.34
50	Yard Inlet	R-4342	1.66	0.83
51	Solid Lid MH	R-1077A		
52	Curb Inlet	R-3501-N	2.02	1.01
53	Curb Inlet	R-3501-N	2.76	1.38
54	Metal End Section			

**SANITARY SEWER  
MANHOLE CHART**

MH NO.	TOP OF CSTG.	INV. IN	INV. OUT
18	8345	825.11	825.01
19	8363	827.46	827.36
20	8375		828.77
28	8220	815.07	814.97
29	8255	816.74	816.64
30	8263	817.71	817.61
31	8285	819.61	819.51
32	8285	820.33	820.23
33	8305	821.95	821.85
34	8325		824.66

**"A5-BUILTS"**  
MAY, 1989

- 833.50 - A5-Built T.C. on Inv. E.
- 0.75% - A5-Built % Slope
- 0.25.59 on 0.63% - A5-Built-Consistent With Design.



12-1-88 REV. PIPE SIZE BETWEEN STR. 2 & 4  
REVISED 'G'-28-88

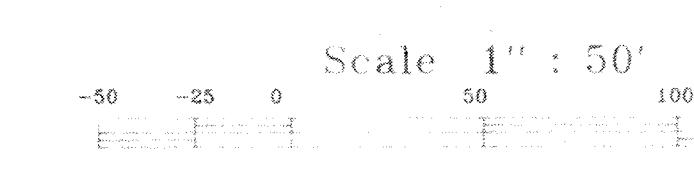
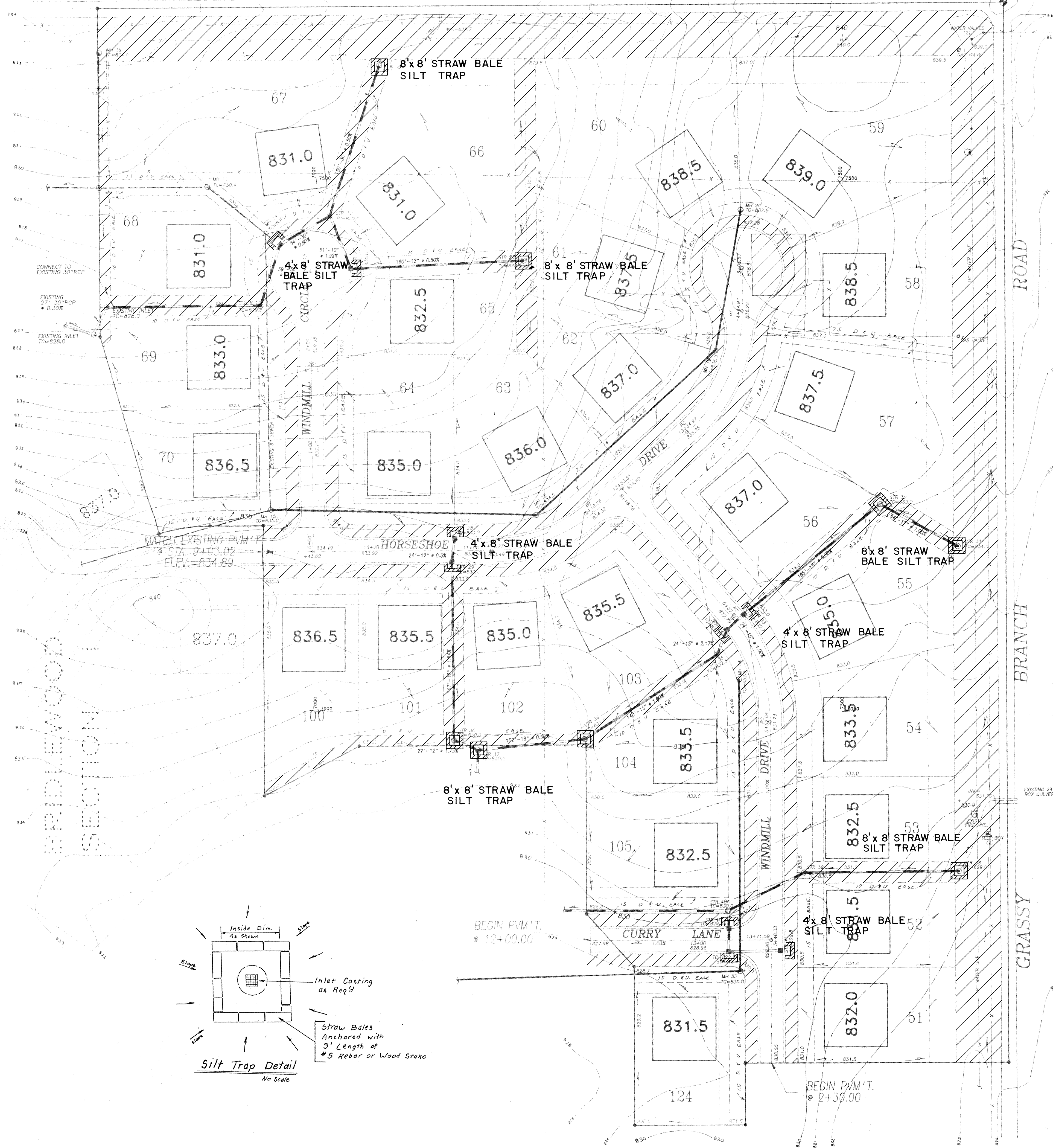
TITLE <b>SITE PLAN BRIDLEWOOD SEC. II</b>			
DESIGN BY ALK	DRAWN BY HASP	CHECKED	APPROVED

**Evergreen** Planners, Inc.  
OFFICE OF HAMILTON COUNTY SURV-YOR  
234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219  
317/353-6161

DATE May 10, 1988  
JOB NO. 87-84  
SCALE 1" = 50'  
SHEET NO. 4 of 15

151st STREET

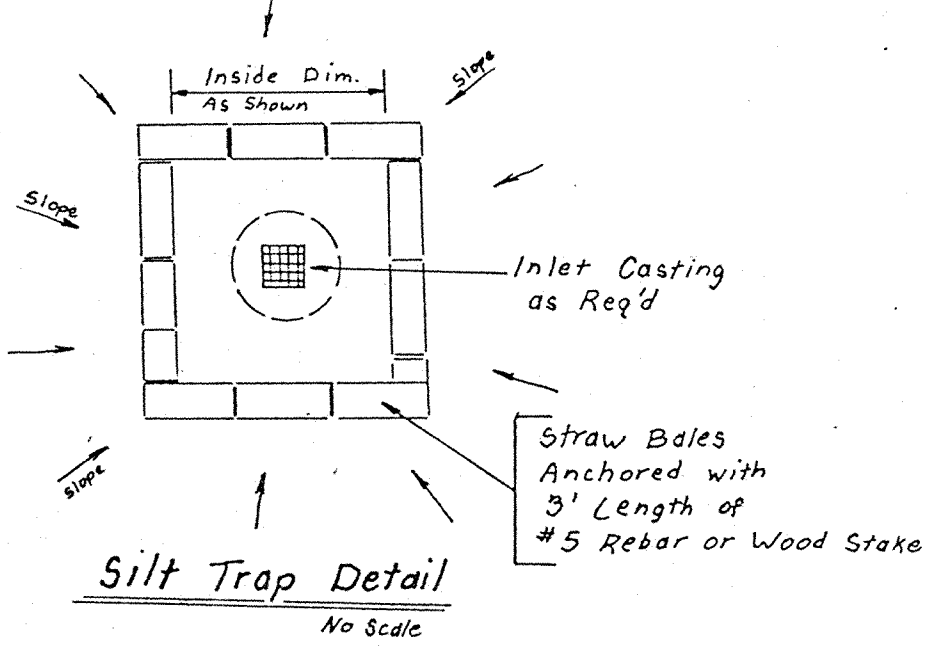
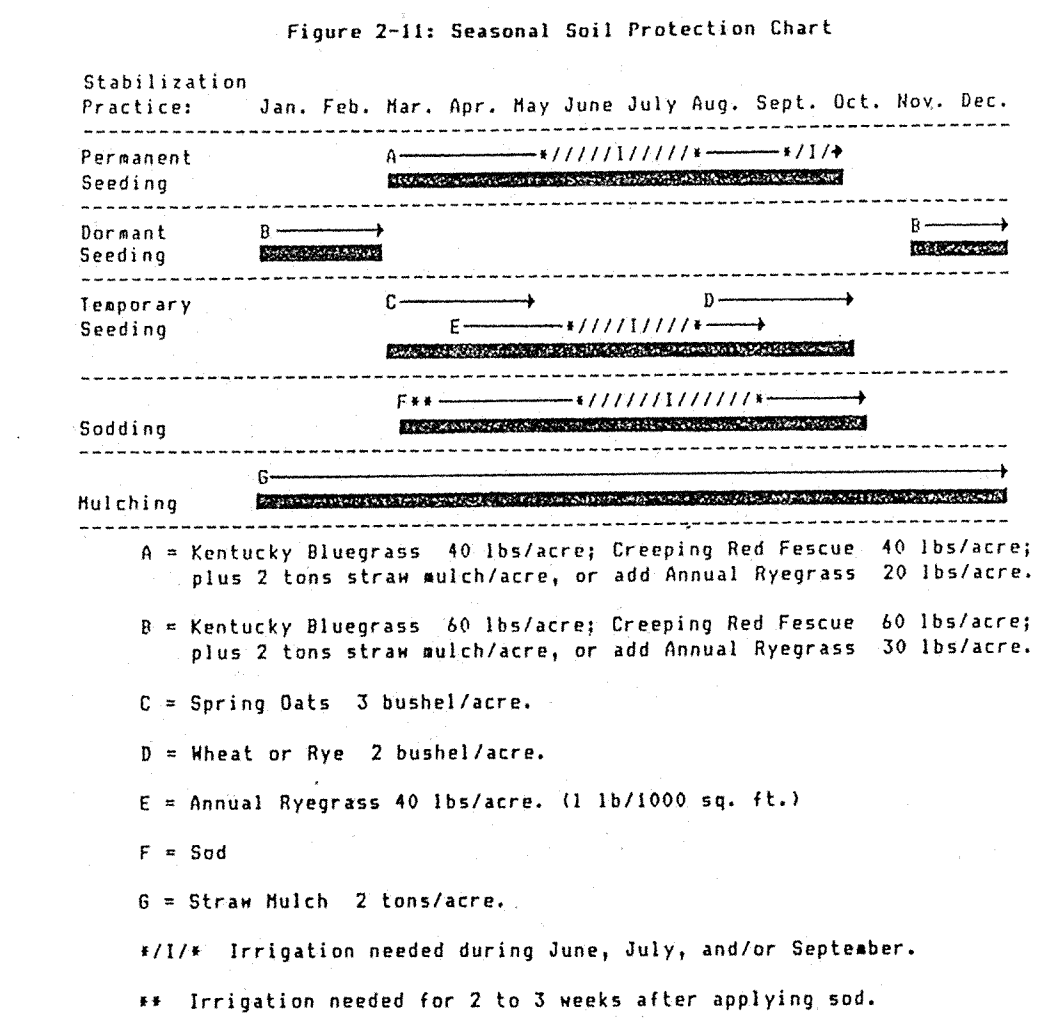
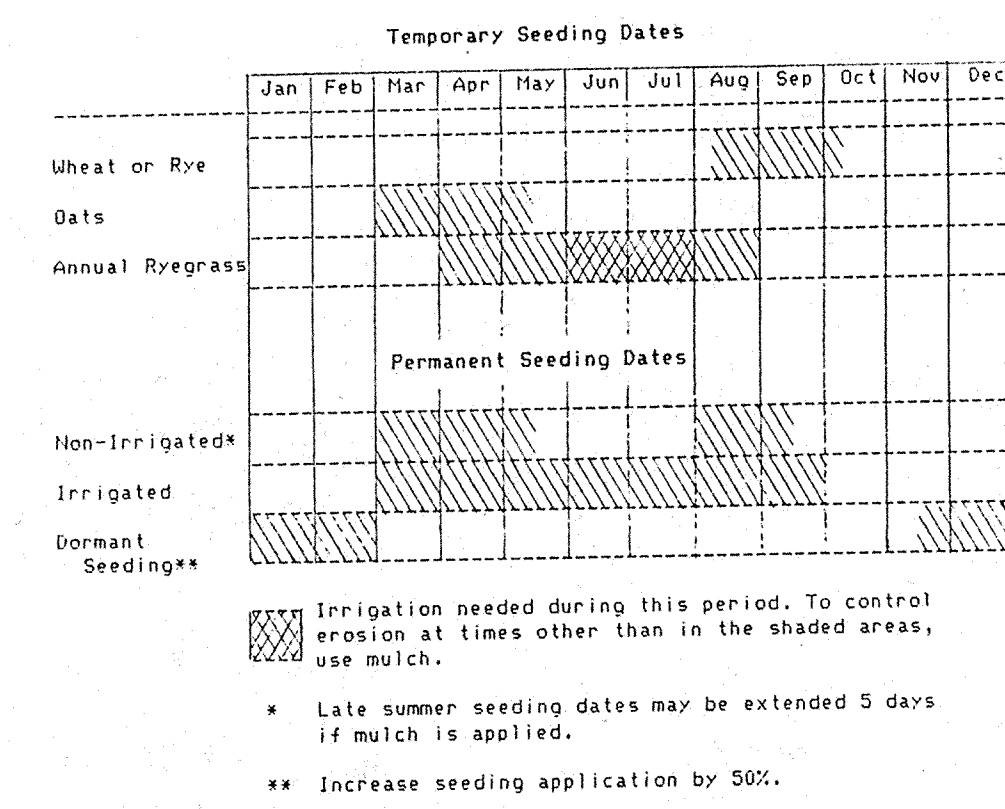
NE COR. SE 1/4,  
SEC. 18-18-4E.



- LEGEND**
- STRAW BALE SILT TRAP (SIZE AS INDICATED)
  - AREA TO BE SEEDDED w/ANNUAL RYE GRASS AND MULCHED
  - AREA TO BE SODDED
- ALL OTHER DISTURBED AREAS TO BE SEEDDED WITH WHEAT OR RYE

- SEEDING SPECIFICATIONS:**
- Swales / Grassed Waterways; permanent seeding shall take place between March 1 and May 15 or from August 10 to October 15 with the following per acre:  
25 lbs. Kentucky 31 Fescue  
15 lbs. Kentucky Blue Grass  
1000 lbs. Fertilizer  
3000 lbs. Mulch (straw)
  - If grades are established between October 15 and December 30, either rye (grain) or wheat may be used at the rate of 2 bushels/ac. Oats may be used for early spring planting at the rate of 3 bushels/ac. All grains should be cut at the time of permanent seeding. All grains should be cut prior seed maturing.
  - If grades are established between May 15 and August 10, a temporary seeding consisting of 40 lbs. of annual ryegrass shall be planted per acre.
  - If temporary seeding is established prior to permanent seeding, the mulch may be eliminated except in "bare" areas.
  - If grading occurs during December, January or February, no seeding to take place till spring planting; however it is imperative that all sediment filters and traps are in place prior to bulk earthmoving or clearing.

- SOIL EROSION CONTROL SUMMARY:**
- Contractor shall install sediment traps and straw bale filters as shown.
  - Mass grade the site (sides of swales, mounds and ponds to be sodded or seeded and mulched immediately upon completion). Temporary seeding shall be recommended for all swales and disturbed areas that cannot be final seeded within a time period that will prevent soil erosion. For temporary seeding the contractor shall utilize a fast growing seed of either oats, annual ryegrass, wheat or rye depending upon the time of the year. Disturbed area should be kept to a minimum at all times.
  - Contractor shall control mud accumulation on all streets surrounding the project by installing stone surface at all locations where construction traffic leaves the site. Dust shall be kept to a minimum by utilizing sprinkling, calcium chloride, vegetative cover, spray on additives or other approved methods.
  - Maintain all filters and traps during construction to prevent any blockages from accumulated sediment. Additional seeding and straw may be required during construction as specified by engineer or Soil Conservation Service. Rip rap shall be placed in areas of high velocity stream flow (minimum size 1/3 cu. ft.). Payment for additional straw bales and rip rap not shown on plans and seeding shall be on a unit basis.
  - Contractor shall install all storm sewer inlet filters as storm sewer system is installed.
  - All proposed street areas to be paved as soon as possible after subgrade is prepared.



TITLE <b>BRIDLEWOOD SEC. II EROSION CONTROL PLAN</b>		DATE May 10, 1988	
DESIGN BY: ALK		JOB NO. 87-84	
DRAWN BY: HASP		SCALE 1" = 50'	
CHECKED		SHEET NO. 5 of 15	
APPROVED		FILED	

**Evergreen**  
Planners, Inc.  
OFFICE OF HAMILTON COUNTY SURVEYOR

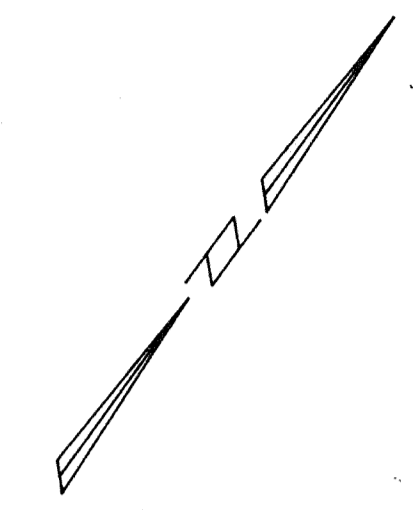
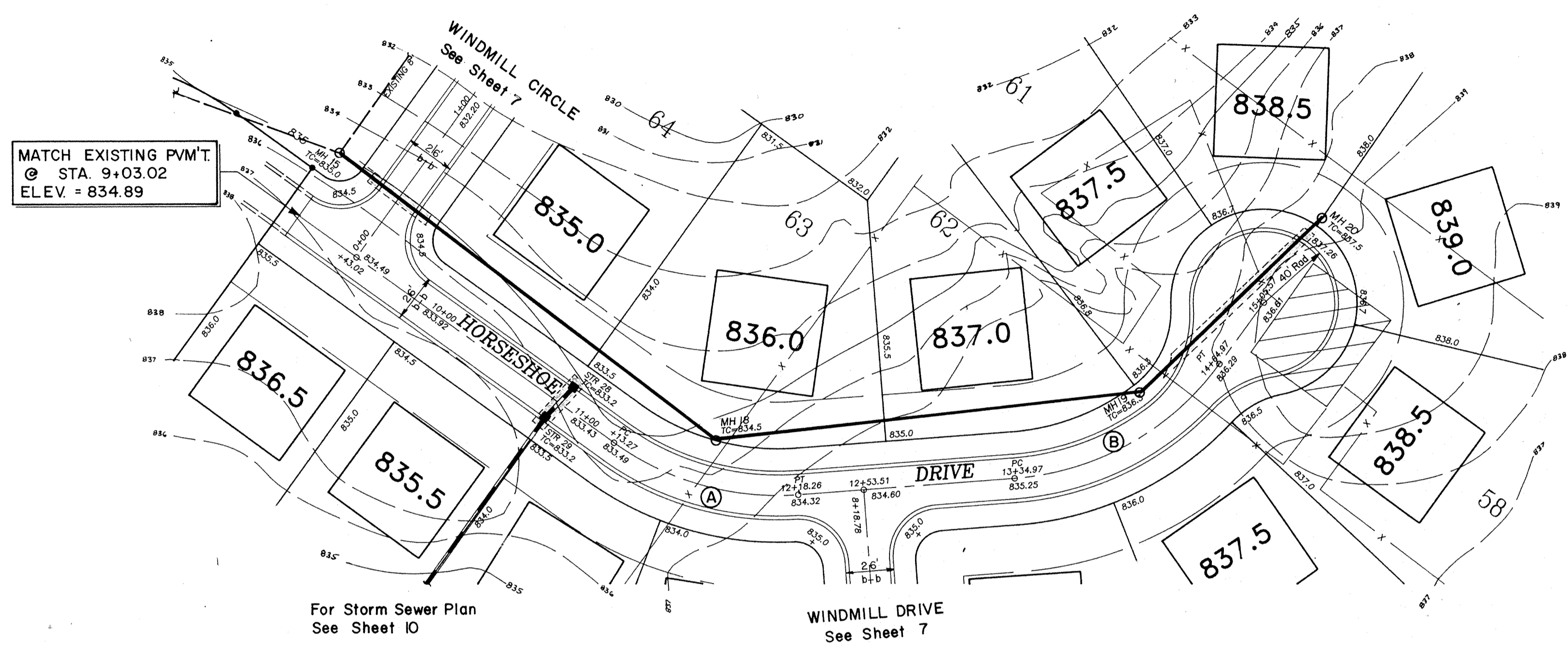
234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219  
317/353-6161

ARTHUR L. KASER  
REGISTERED  
No. S-0529  
STATE OF INDIANA  
LAND SURVEYOR

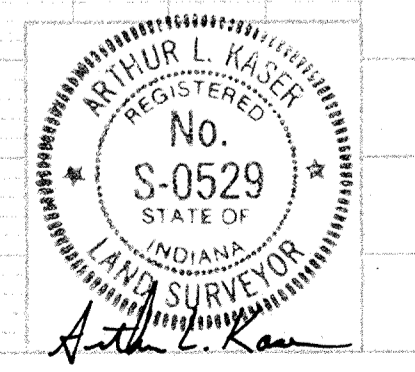
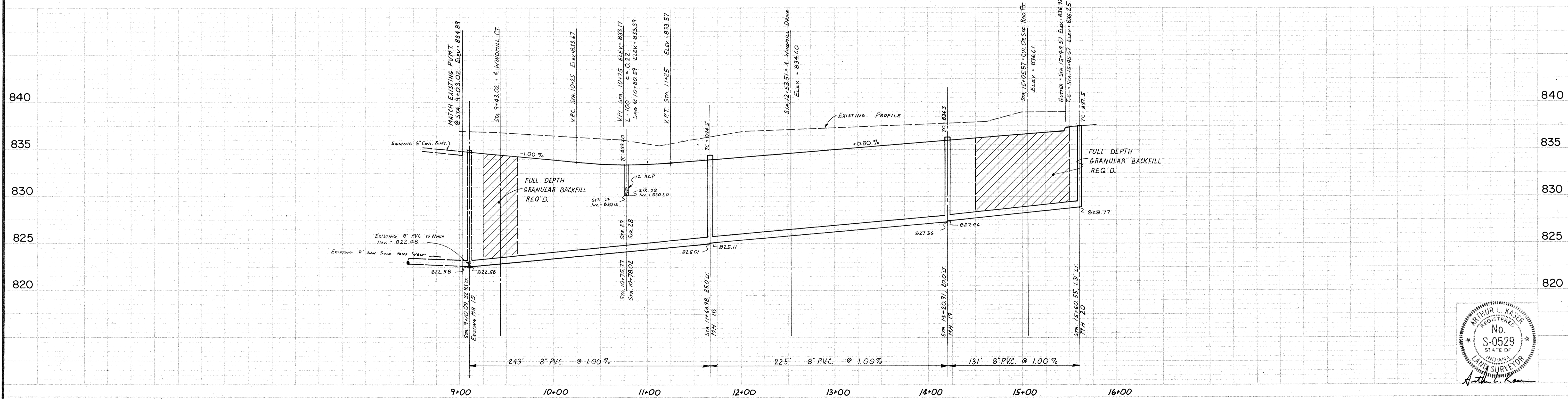
Arthur L. Kaser

PLAN  
 APPROVED  
 PLANNING  
 JUSTICE  
 COUNTY

PROFILE  
 APPROVED  
 PLANNING  
 JUSTICE  
 COUNTY

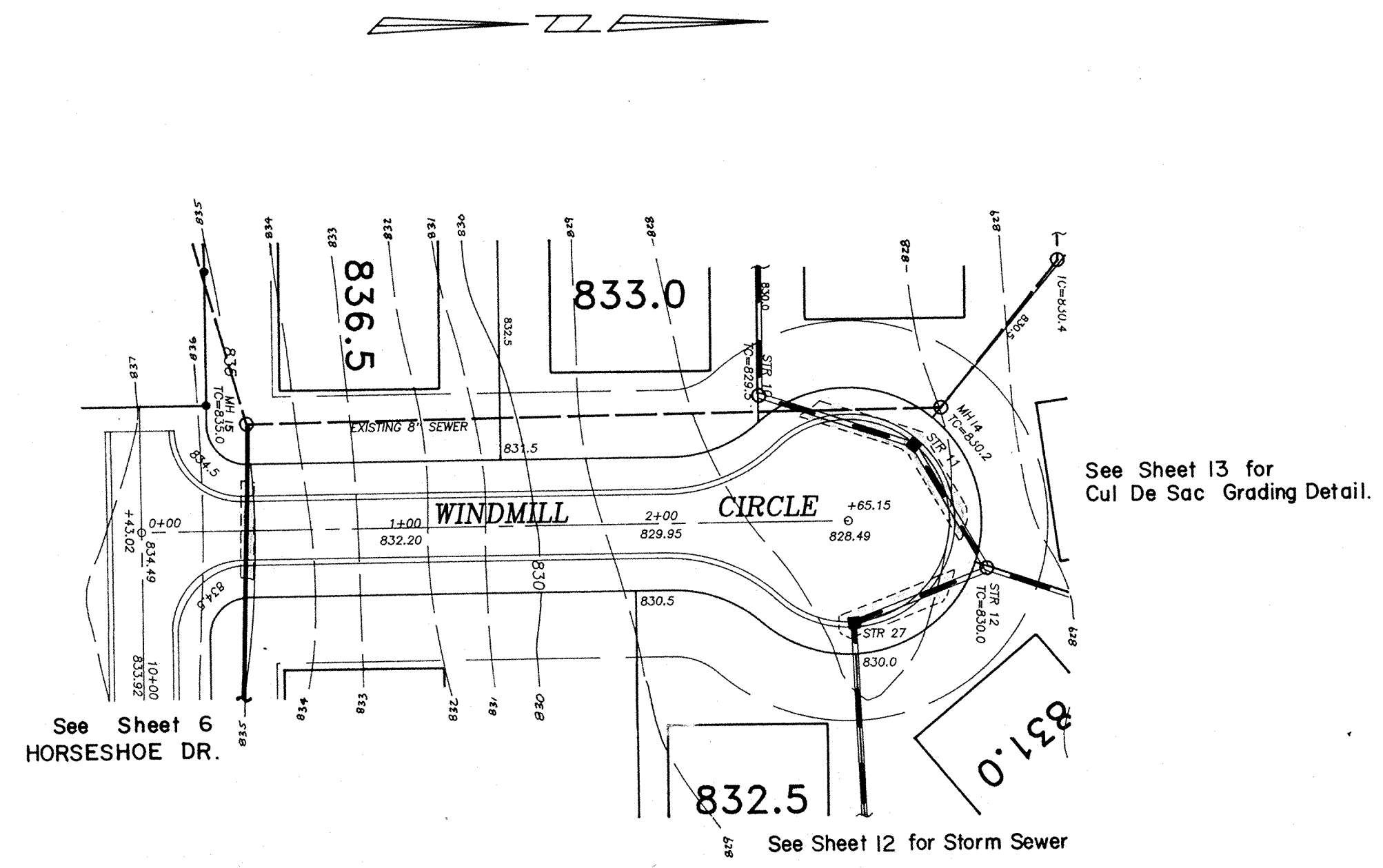


**HORSESHOE DRIVE**  
 Scale: Horz. 1" = 50'  
 Vert. 1" = 5'

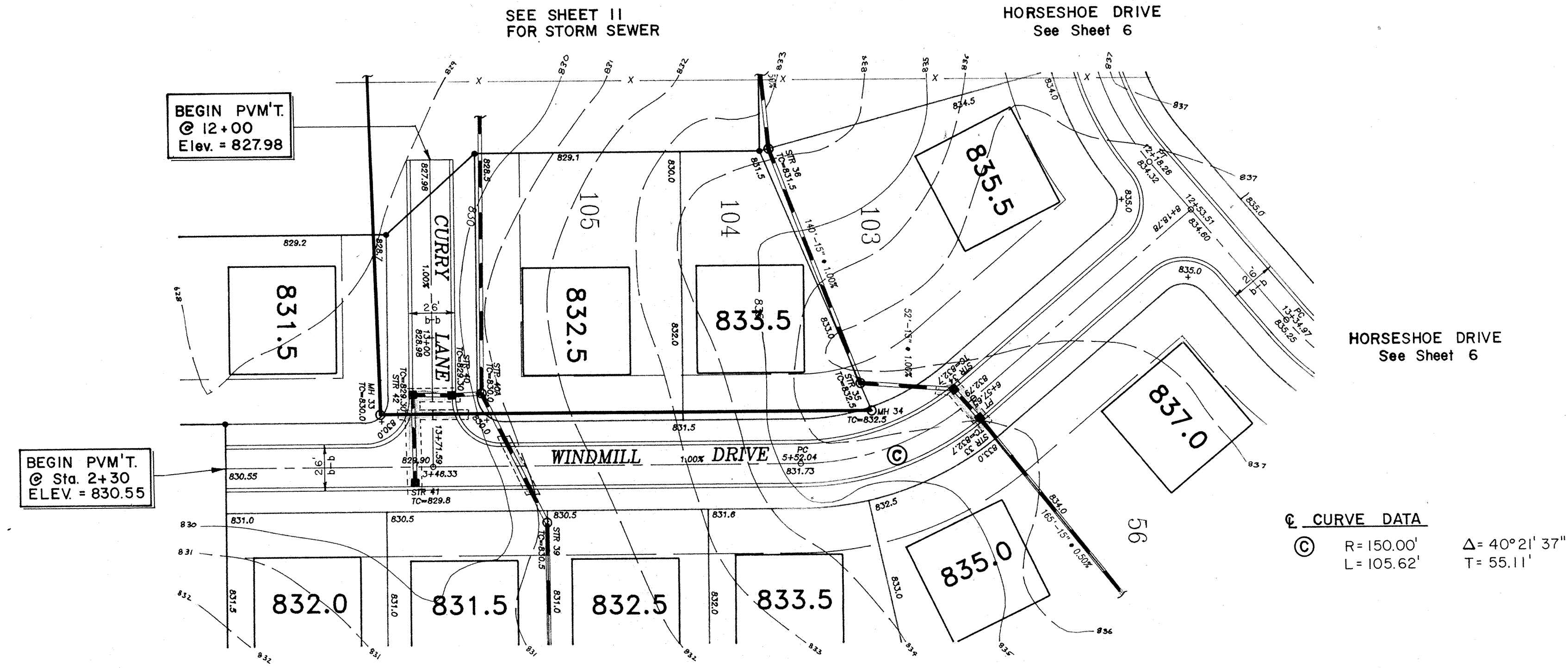


<b>DATES AND REVISIONS</b> _____ _____ _____		<b>TITLE</b> BRIDLEWOOD SEC. II Horseshoe Drive		<b>DATE</b> May, 1988	
<b>DESIGN BY</b> ALK		<b>DRAWN BY</b> HASP/ALK		<b>JOB NO.</b> 87-84	
<b>CHECKED</b> _____		<b>APPROVED</b> _____		<b>SCALE</b> _____	
<b>Evergreen Planners, Inc.</b> 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219 317/353-6161				<b>SHEET NO.</b> 6 of 15	

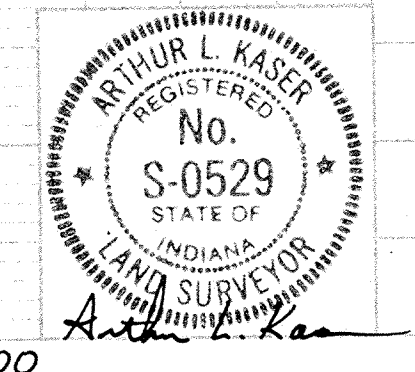
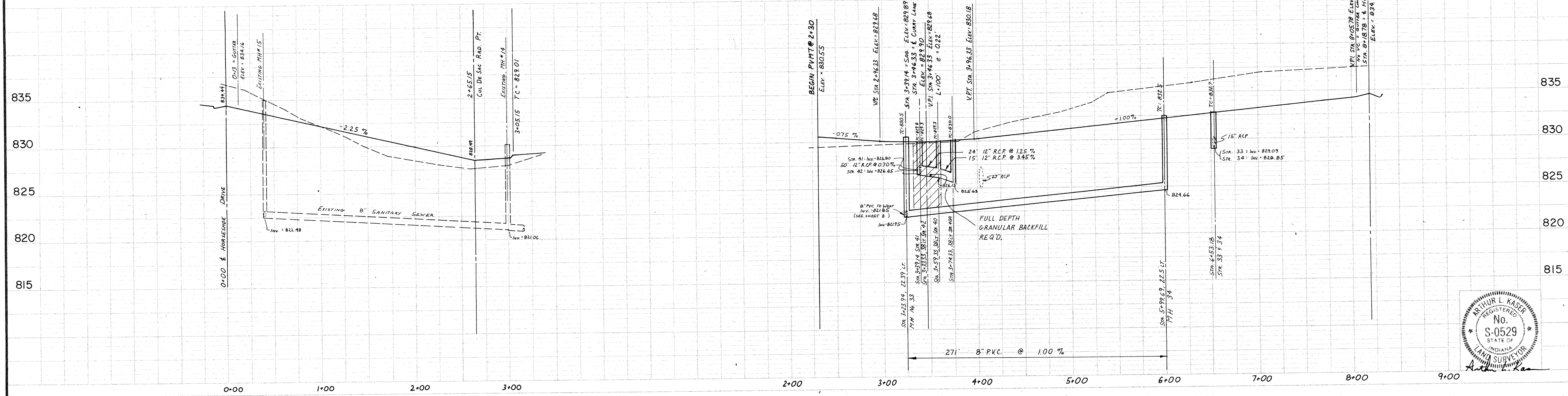
DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
IND.			



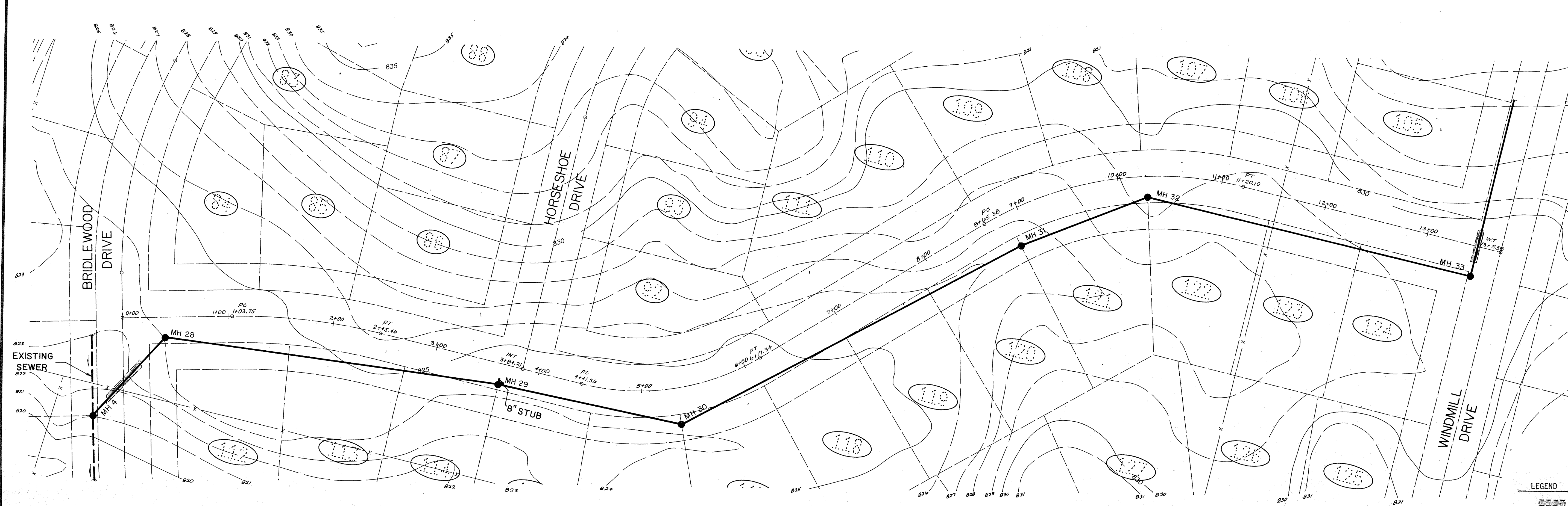
**WINDMILL CIRCLE**  
 Scale: Horz. 1" = 50'  
 Vert. 1" = 5'



**WINDMILL DRIVE**  
 Scale: Horz. 1" = 50'  
 Vert. 1" = 5'

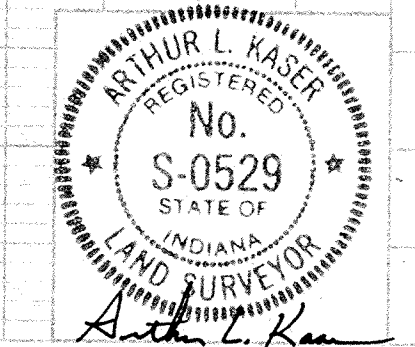
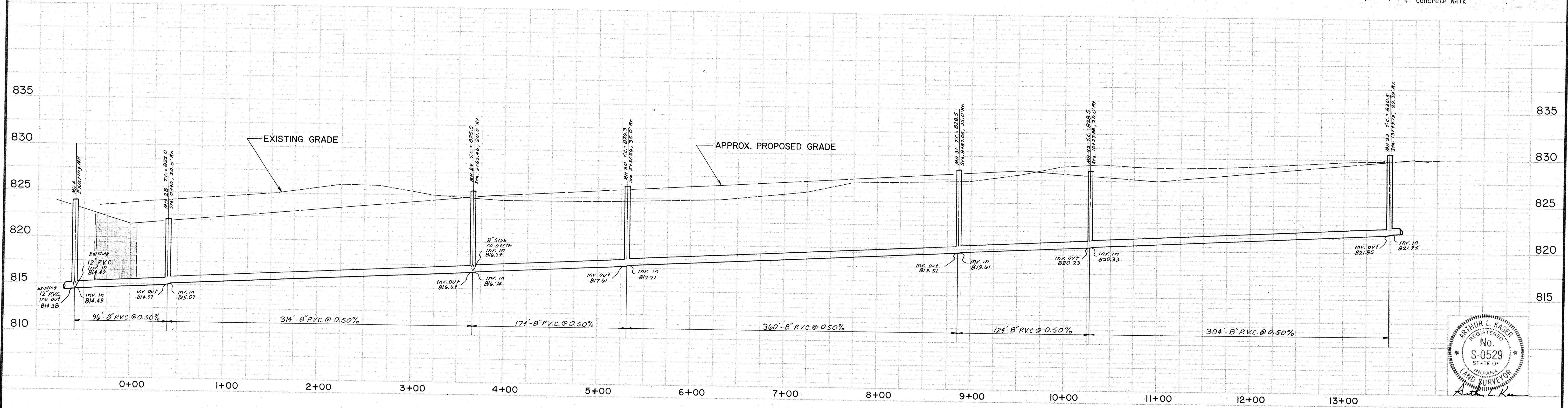


DATES AND REVISIONS				TITLE <b>BRIDLEWOOD SEC. II</b> Windmill Circle & Windmill Drive		 <b>Evergreen Planners, Inc.</b> OFFICE OF HAMILTON COUNTY SURVEYOR 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219 317/353-6161	DATE May, 1988	
				DESIGN BY ALK	DRAWN BY HASP/ALK		CHECKED	APPROVED
								JOB NO 87-84
								SCALE Horz. 1" = 50' Vert. 1" = 5'
								SHEET NO 7 of 15



- LEGEND**
- Full Depth Granular Backfill Required
  - Sanitary Sewer with Manhole and Wye
  - Storm Sewer with Inlet and Slope Wall
  - 4' Concrete Walk

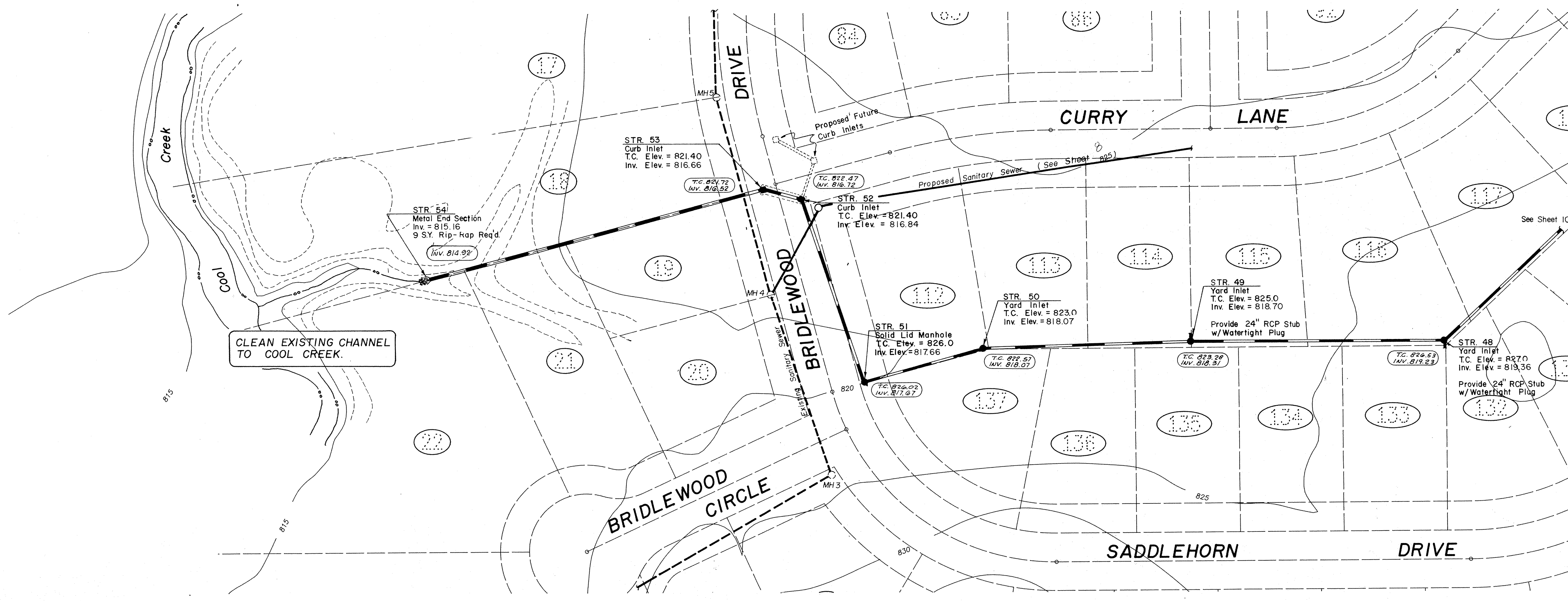
**CURRY LANE**



DATES AND REVISIONS		TITLE	
		<b>CURRY LANE SANITARY SEWER</b>	
		<b>BRIDLEWOOD</b>	
DESIGN BY	DRAWN BY	CHECKED	APPROVED
ALK	HASP/DTP		

**Evergreen** Planners, Inc.  
 OFFICE OF HAMILTON COUNTY SURVYOR  
 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219  
 317/353-6161

DATE	APRIL 27, 1988
JOB NO	87-84
SCALE	HORIZ: 1" = 50'
	VERT: 1" = 5'
SHEET NO	8 of 15



Scale: Horiz. 1" = 50'  
Vert. 1" = 5'

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

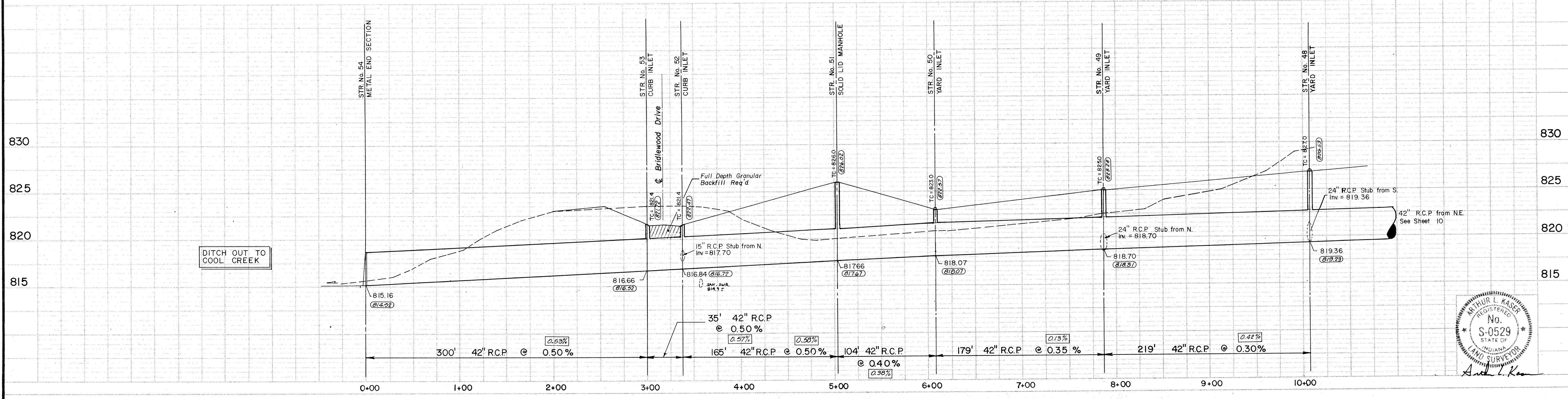
Entry Date: 10-22-03  
Entered by: JDH

**"AS-BUILT"**

833.50 - As-Built T.C. or Inv. E.

0.75% - As-Built % Slope

825.50 on 0.63% - As-Built Constant With Design.



ARTHUR L. KASER  
REGISTERED  
No. S-0529  
STATE OF INDIANA  
LAND SURVEYOR

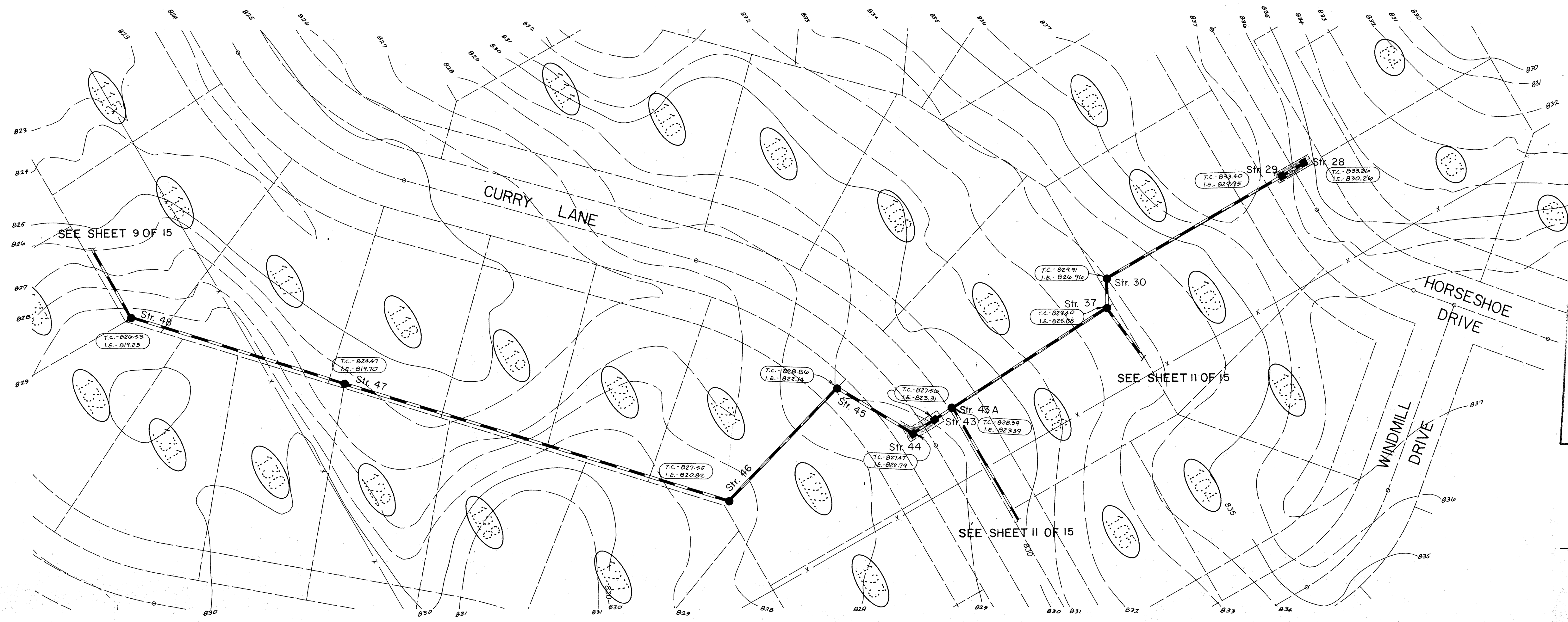
DATE	REVISIONS

TITLE STORM SEWER - STR'S. 48 thru 54 <b>BRIDLE WOOD</b>			
DESIGN BY ALK	DRAWN BY ALK	CHECKED	APPROVED

**Evergreen**  
Planners, Inc.  
OFFICE OF HAMILTON COUNTY SURVEYOR

234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219  
317/353-6161

DATE	April 27, 1988
JOB NO.	87-84
SCALE	1" = 50'
SHEET NO.	9 of 15



HAMILTON COUNTY INDIANA  
1825

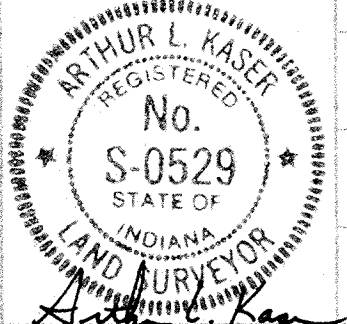
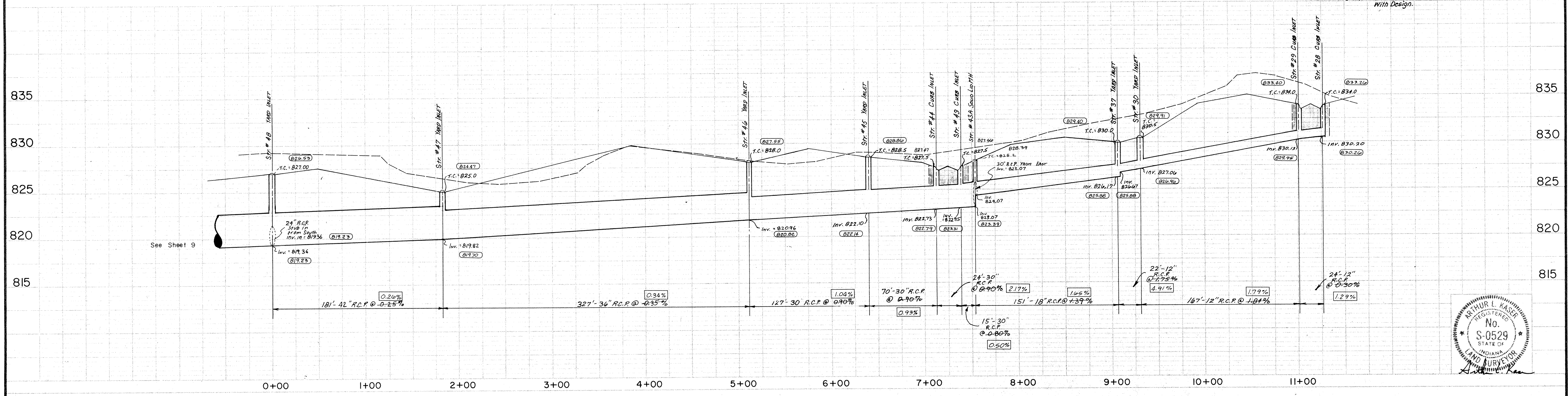
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 10-24-03

Entered by: J.D.H.

**"AS-BUILT"**

- LEGEND**
- Full Depth Granular Backfill Required
  - Sanitary Sewer with Manhole and Wye
  - Storm Sewer with Inlet and Slope Wall
  - 4' Concrete Walk
  - 833.50 - As-Built TC on Inv. El.
  - 0.75% - As-Built % Slope
  - 0.25.59 on 0.63% - As-Built Consistent With Design



DATES AND REVISIONS		TITLE			
		<b>STORM STRS 28-30,37,43-48</b>			
		BRIDLEWOOD			
DESIGN BY	DRAWN BY	CHECKED	APPROVED		
ALK	HASP/DTP				

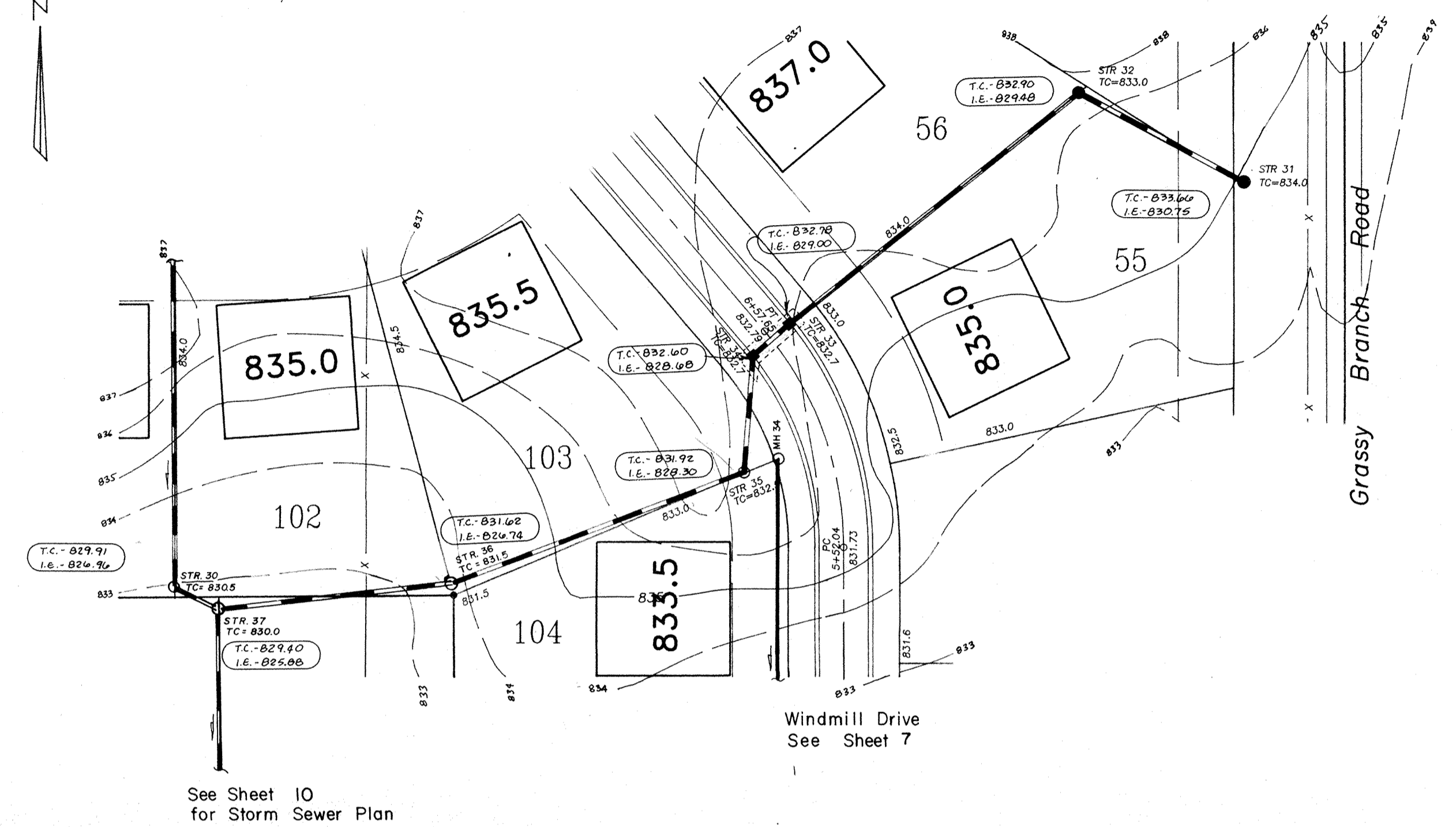
**Evergreen**  
Planners, Inc.

234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219  
317/353-6161

DATE	APRIL 28, 1988
JOB NO	87-84
SCALE	HORIZ. : 1" = 50'
VERT. :	1" = 5'
SHEET NO	10 of 15



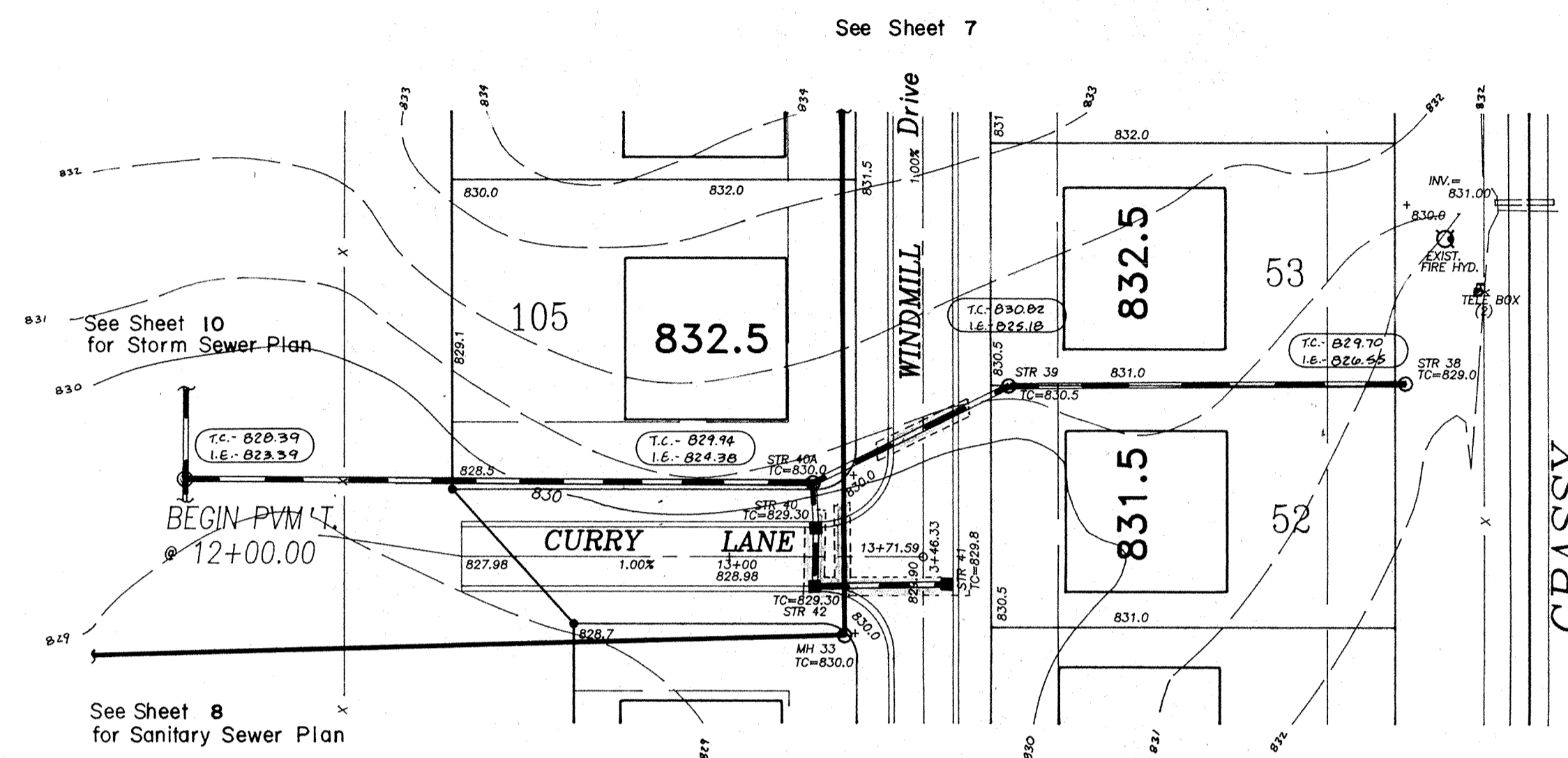
PLAN  
 DRAWN BY: JPH  
 CHECKED BY: JPH  
 DATE: 10-21-02



See Sheet 10  
for Storm Sewer Plan

Windmill Drive  
See Sheet 7

Grassy Branch Road



See Sheet 8  
for Sanitary Sewer Plan

See Sheet 7

GRASSY



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

Entry Date: 10-21-02

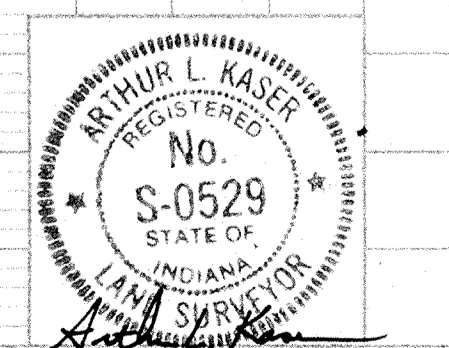
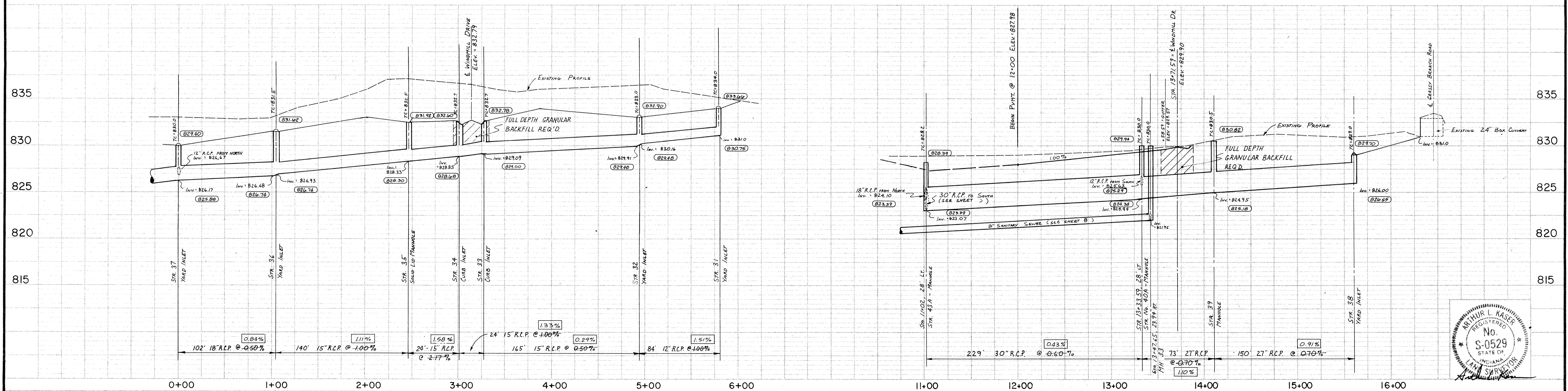
Entered by: JPH

Scale: Horz. 1" = 50'  
Vert. 1" = 5'

"AS-BUILT"

- 833.50 - As-Built T.C. on Inv. El.
- 0.76% - As-Built % Slope
- 825.50 or 0.63% - As-Built-Consistent With Design.

PROFILE  
 DRAWN BY: JPH  
 CHECKED BY: JPH  
 DATE: 10-21-02



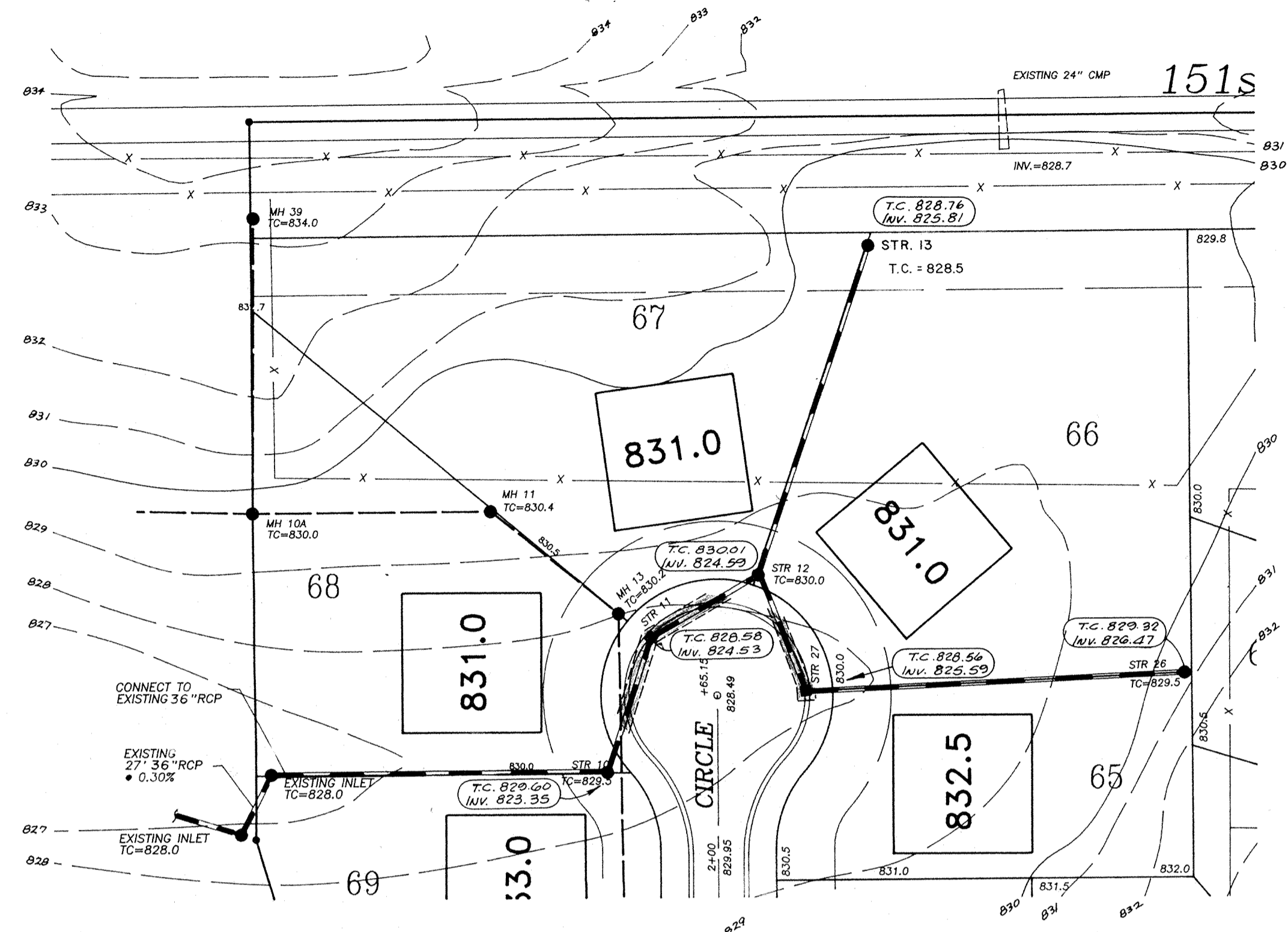
DATES AND REVISIONS		TITLE	
		STORM STRS. 31-42	
		BRIDLEWOOD	
DESIGN BY	ALK	DRAWN BY	HASP/DTP
CHECKED		APPROVED	

**Evergreen** PLANNERS, INC.  
 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219  
 317/353-6161

DATE	APRIL 28, 1988
JOB NO.	87-84
SCALE	HORIZ. 1" = 50'
	VERT. 1" = 5'
SHEET NO.	11 of 15

PLAN  
 NO. 10-29-83

PROFILE  
 No. 10-29-83



WINDMILL CIRCLE  
 See Sheet 7

828.50 - As-Built T.C. on Inv. El.  
 0.75% - As-Built % Slope  
 825.50 on 0.63% - As-Built-Consistent With Design.

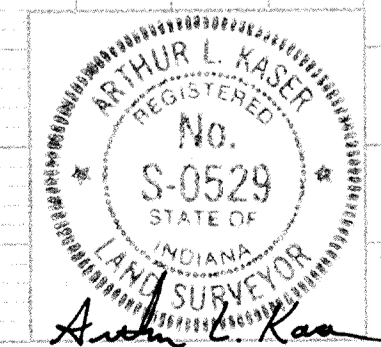
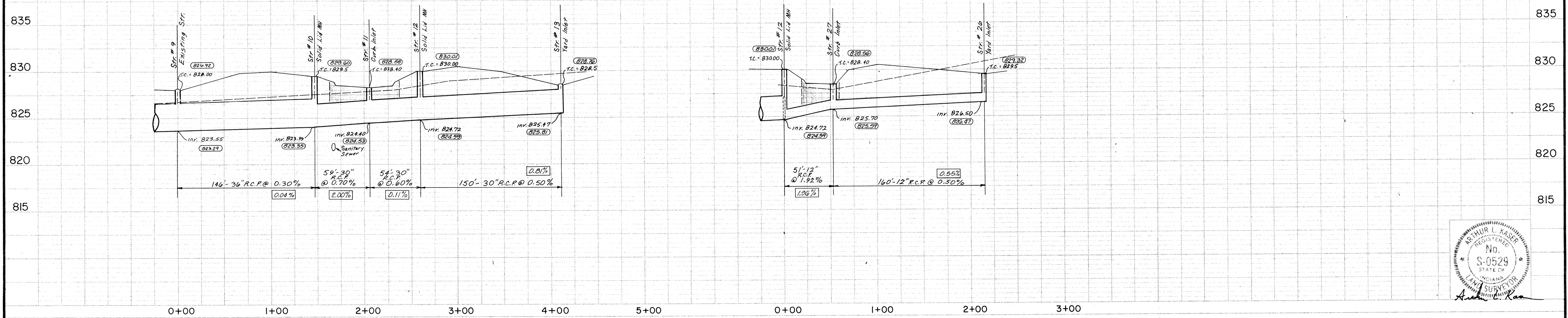
- LEGEND
- Full Depth Granular Backfill Required
  - Sanitary Sewer with Manhole and Wye
  - Storm Sewer with Inlet and Slope Wall
  - 4' Concrete Walk per D.O.T. Std.

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

Entry Date: 10-29-83

Entered by: JPH

"AS-BUILT"

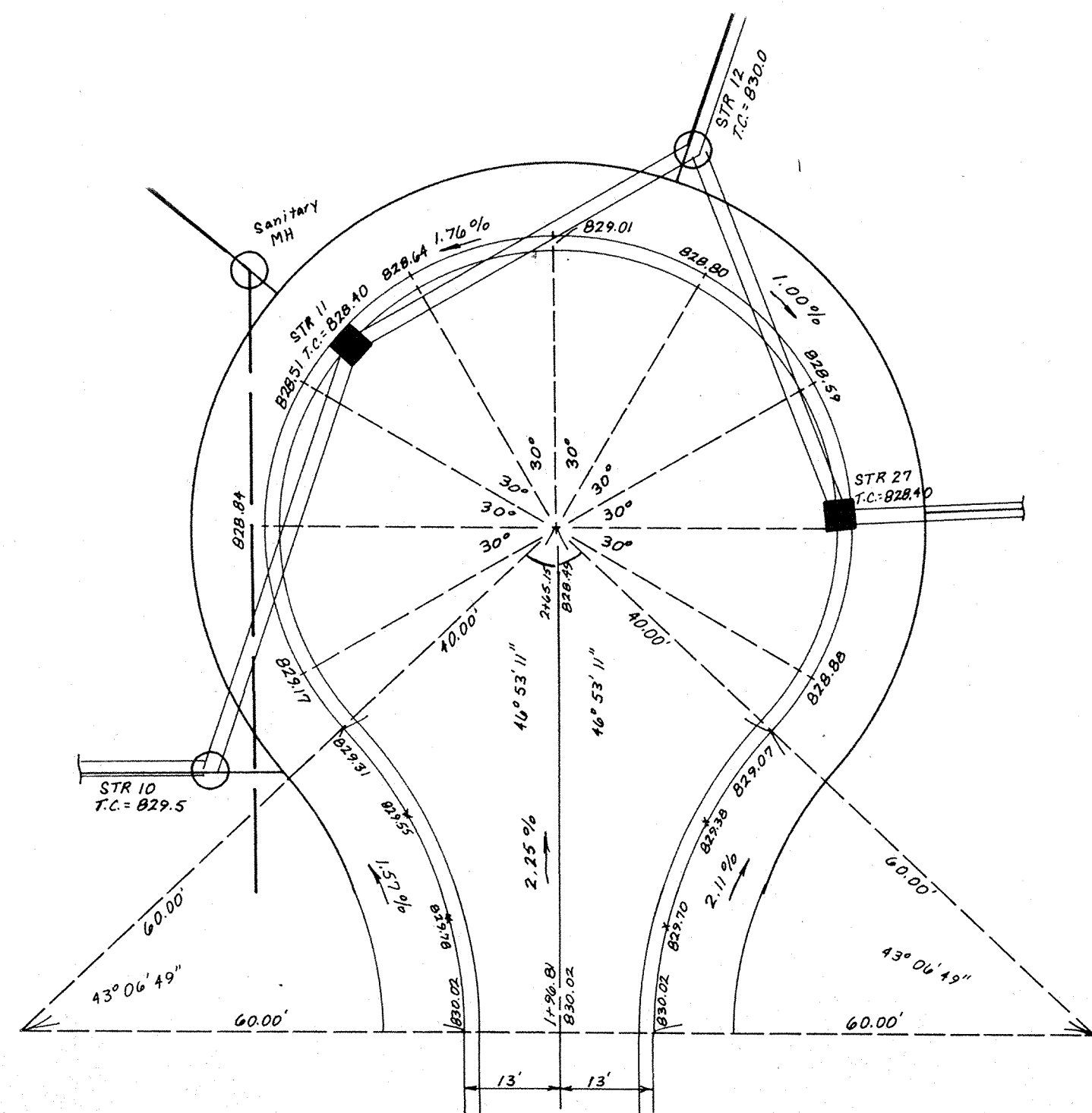


DATES AND REVISIONS		TITLE	
		STORM STRS. 9-13, 26-27	
		BRIDLEWOOD	
DESIGN BY	DRAWN BY	CHECKED	APPROVED
ALK	HASP/DTP		
12-1-88 REV. PIPE SIZE BETWEEN STR. 8+4			

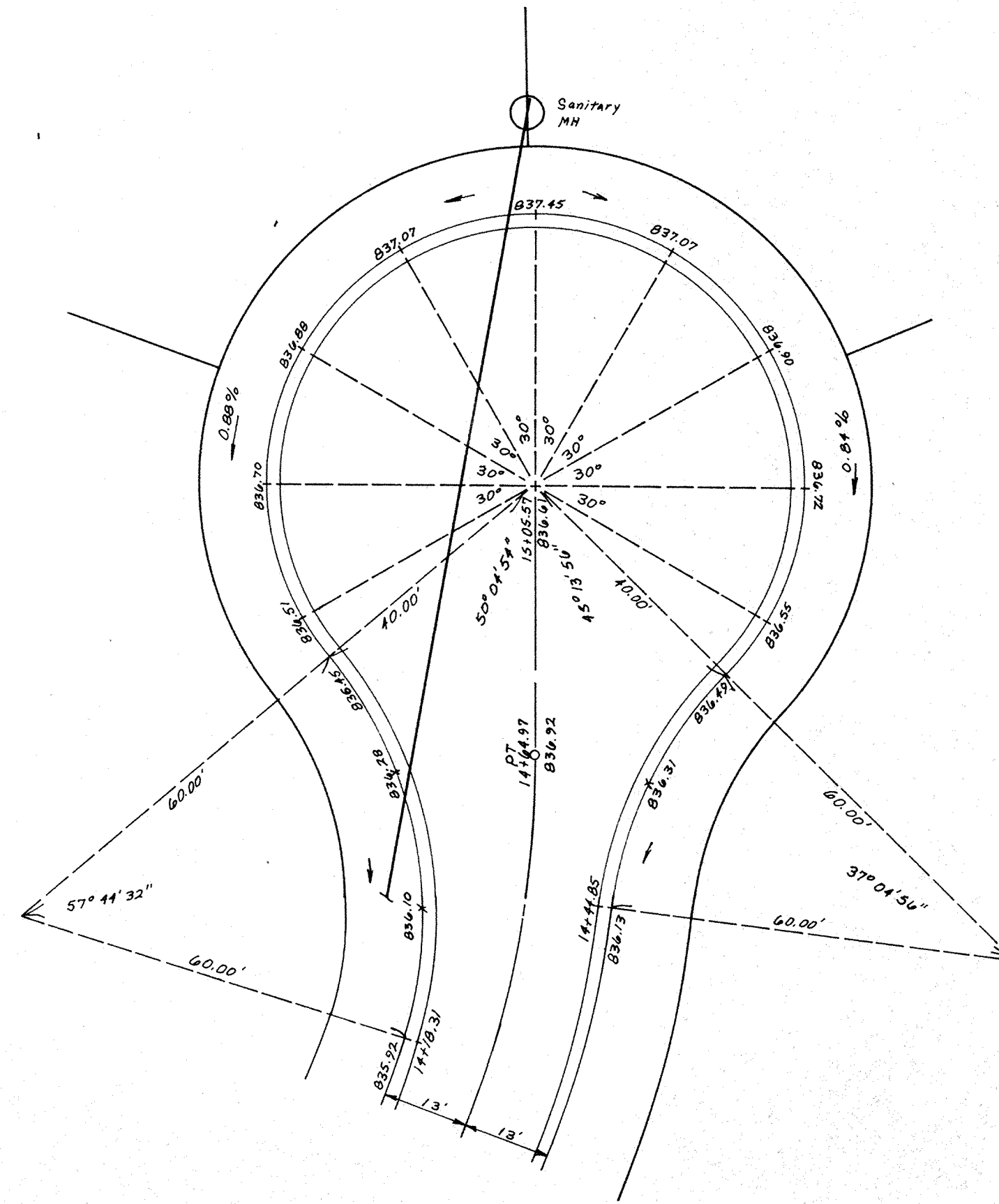
**Evergreen Planners, Inc.**  
 OFFICE OF HAMILTON COUNTY SURV.-YOR

234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219  
 317/353-6161

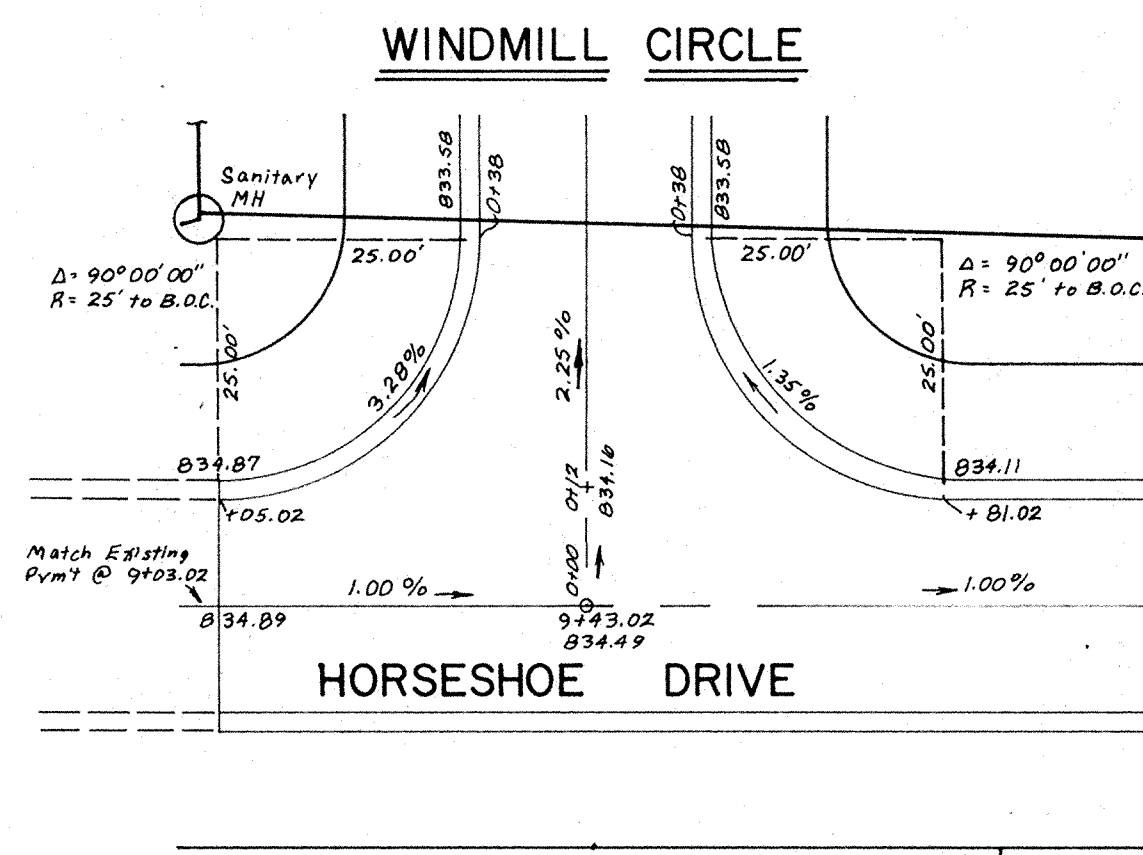
DATE	APRIL 28, 1988
JOB NO	87-84
SCALE	HORIZ. 1" = 50'
	VERT. 1" = 5'
SHEET NO.	12 of 15



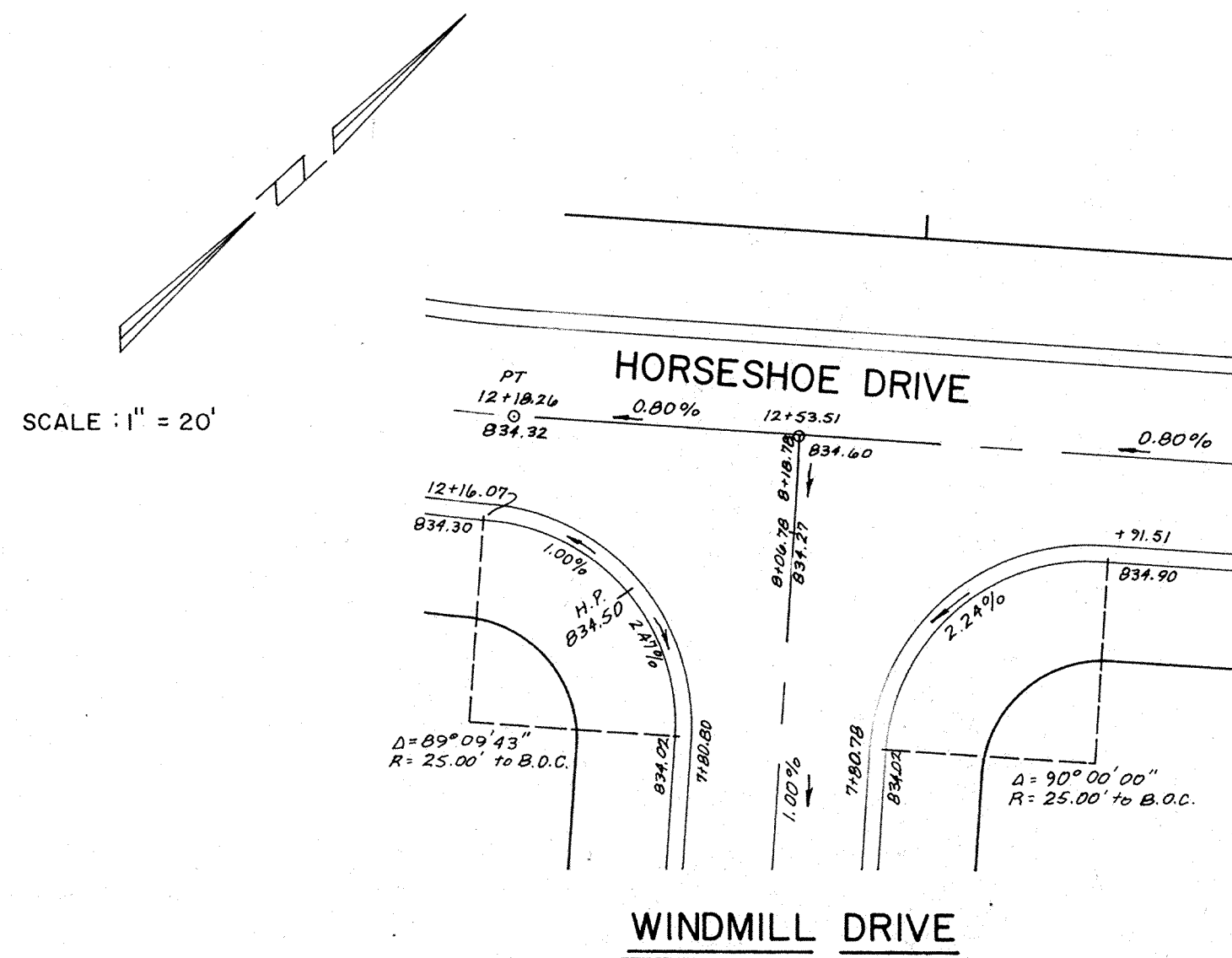
**WINDMILL CIRCLE**  
SCALE: 1" = 20'



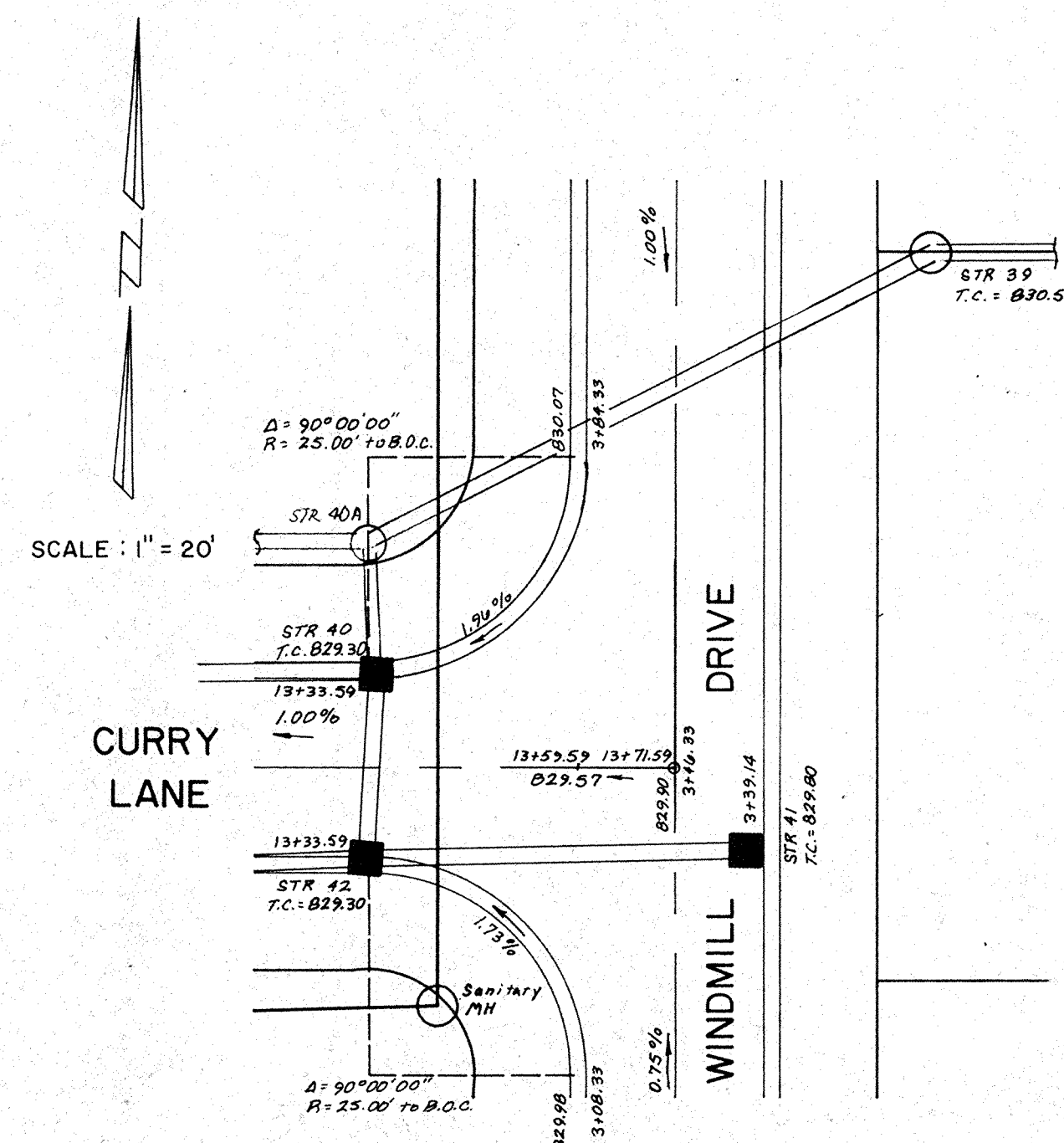
**HORSESHOE DRIVE**  
SCALE: 1" = 20'



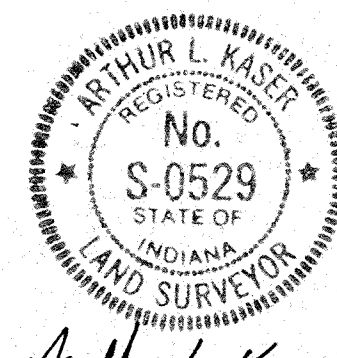
SCALE: 1" = 20'



SCALE: 1" = 20'



SCALE: 1" = 20'



*Arthur L. Kaser*

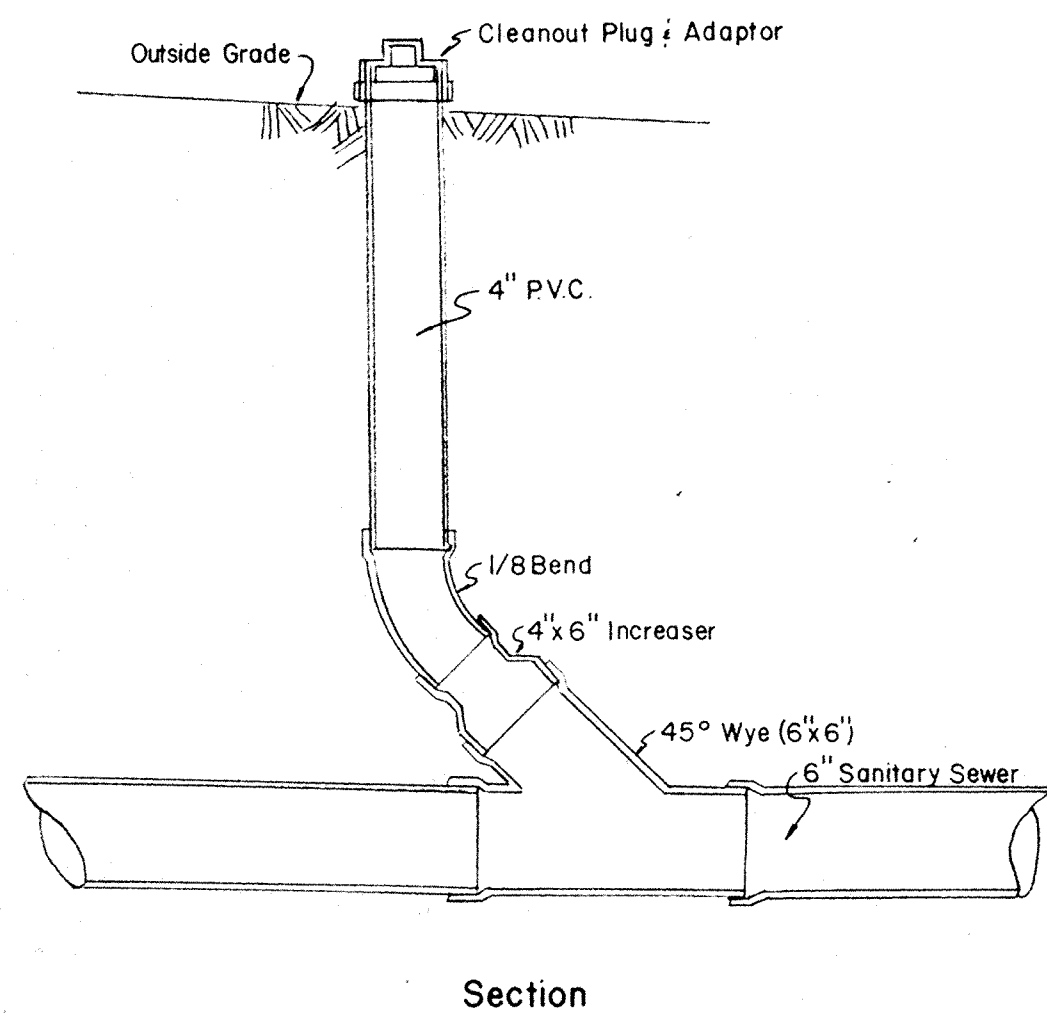
DATES AND REVISIONS		TITLE			
		<b>INT. &amp; CUL-DE-SAC DETAILS BRIDLEWOOD SEC. II</b>			
DESIGN BY	ALK	DRAWN BY	HASP/DTP	CHECKED	APPROVED

**Evergreen**  
Planners, Inc.

OFFICE OF HAMILTON COUNTY SURVEYOR

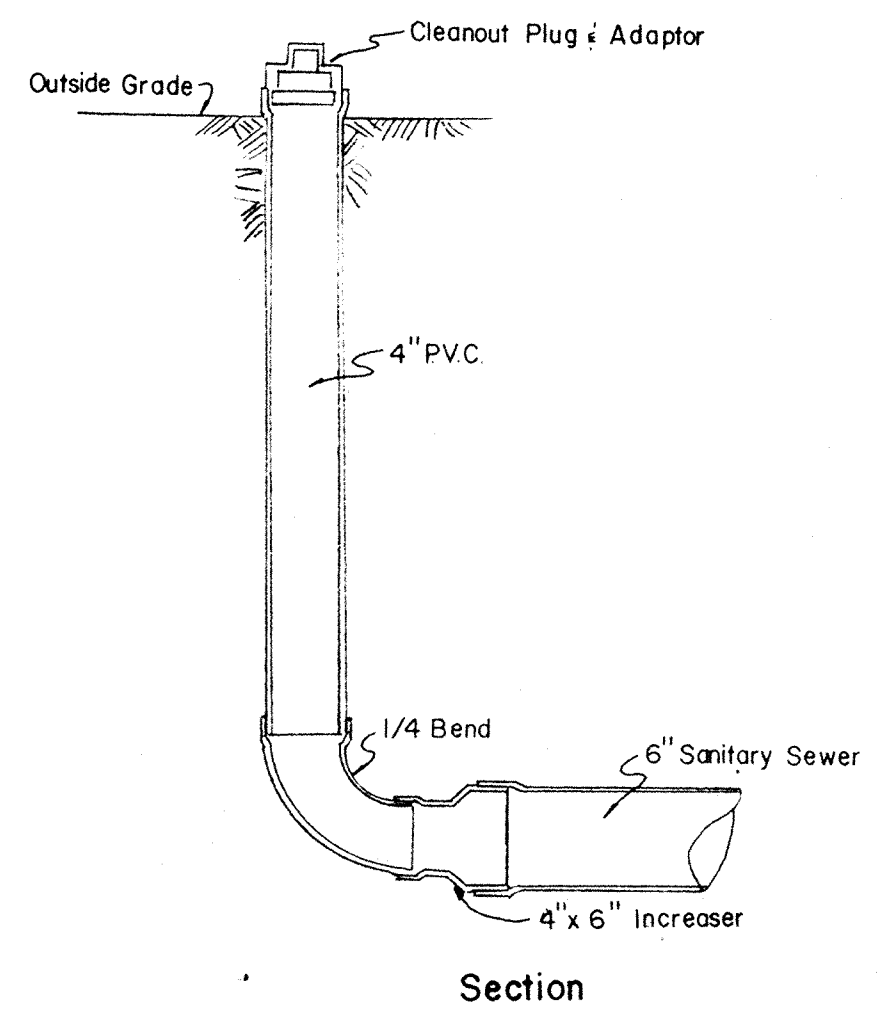
234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219  
317/353-6161

DATE	APRIL 29, 1988
JOB NO.	87-84
SCALE	1" = 20'
SHEET NO.	13 of 15



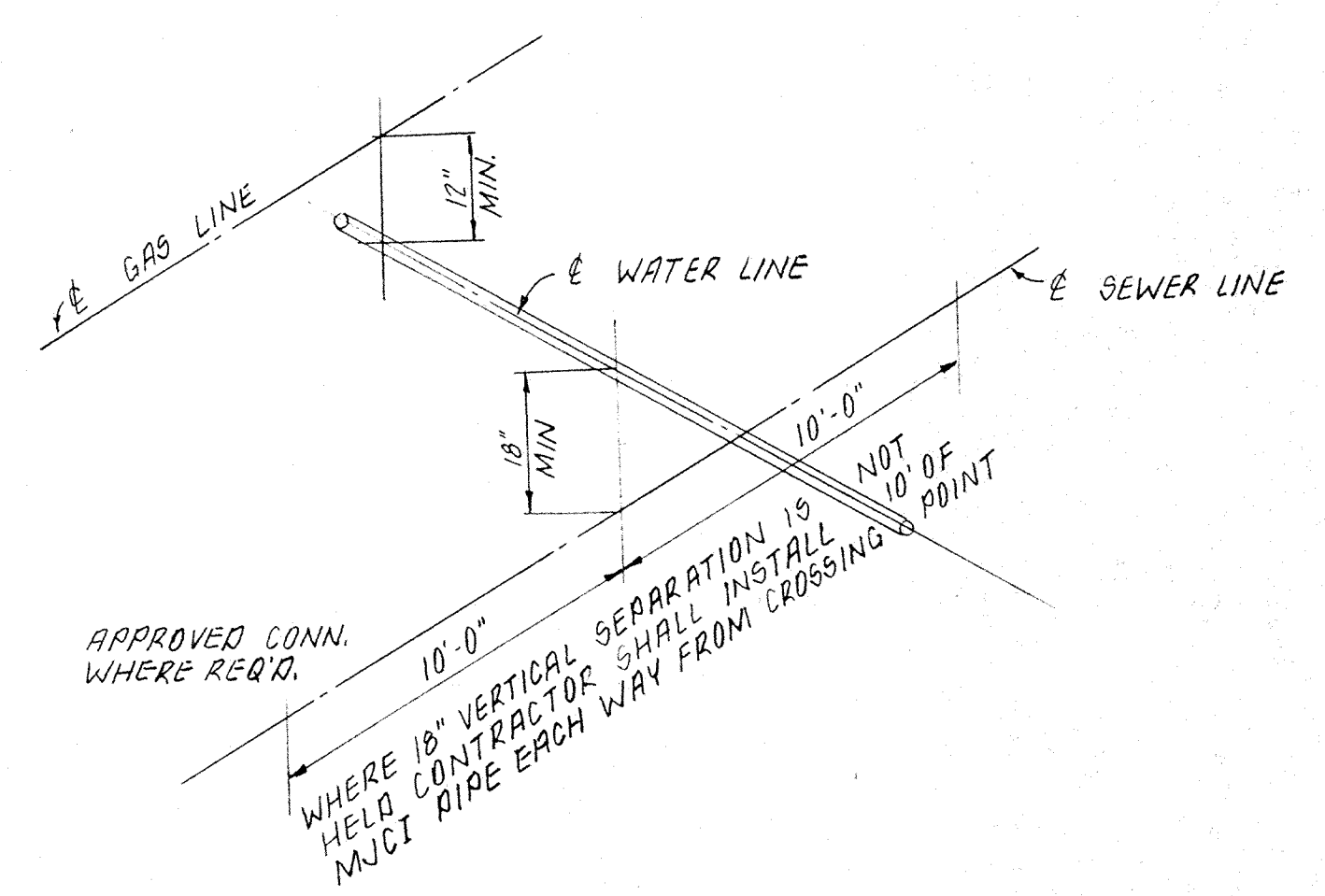
Section

**CLEAN OUT - TYPE I**

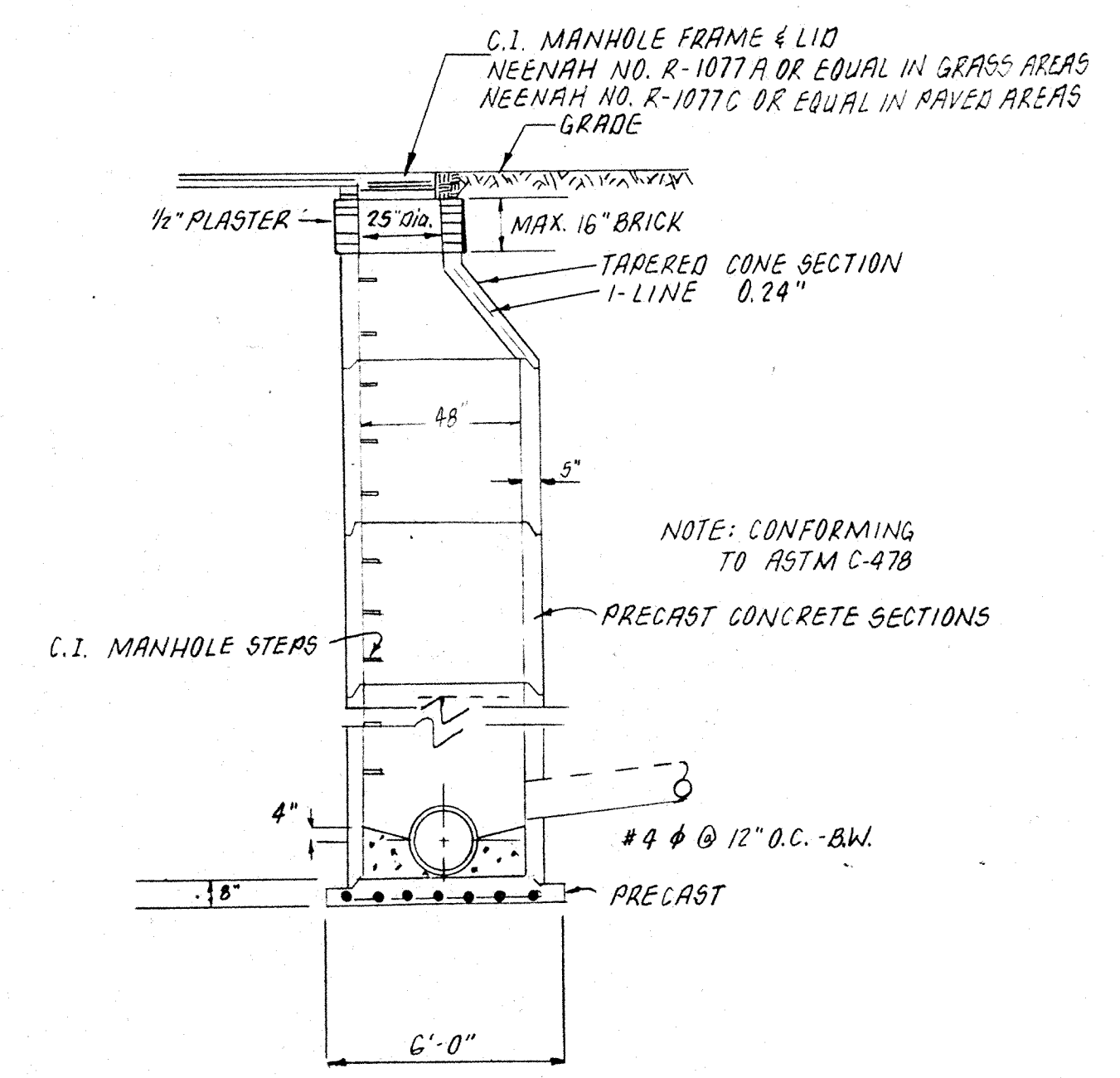


Section

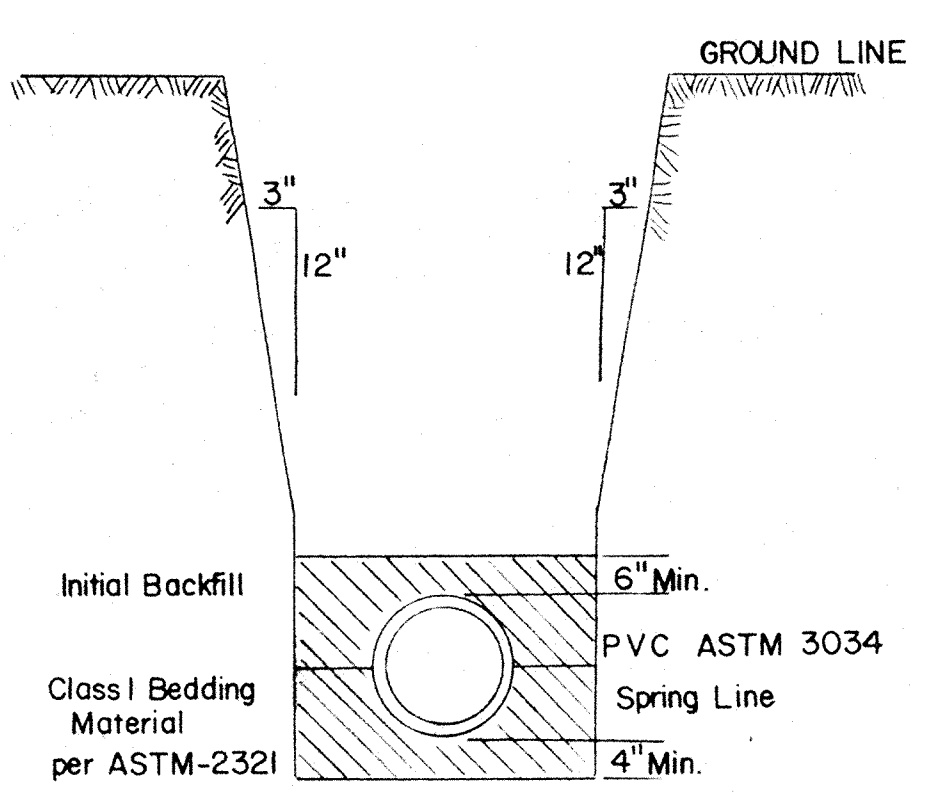
**CLEAN OUT - TYPE II**



**UTILITY CROSSING DETAIL**

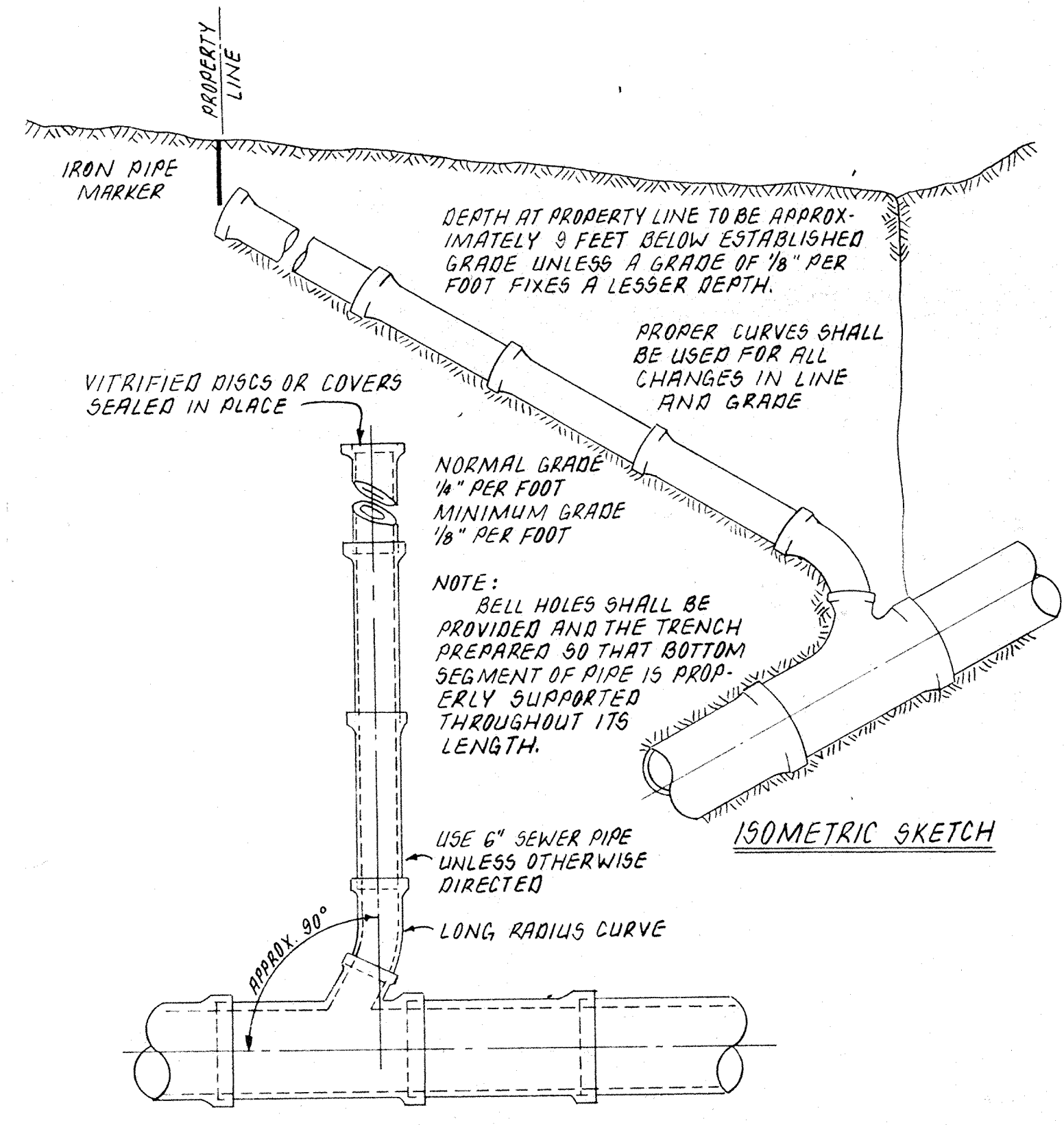


**STANDARD MANHOLE FOR SEWERS LESS THAN 24" DIA.**



**TRENCH SECTION**  
PVC ASTM 3034

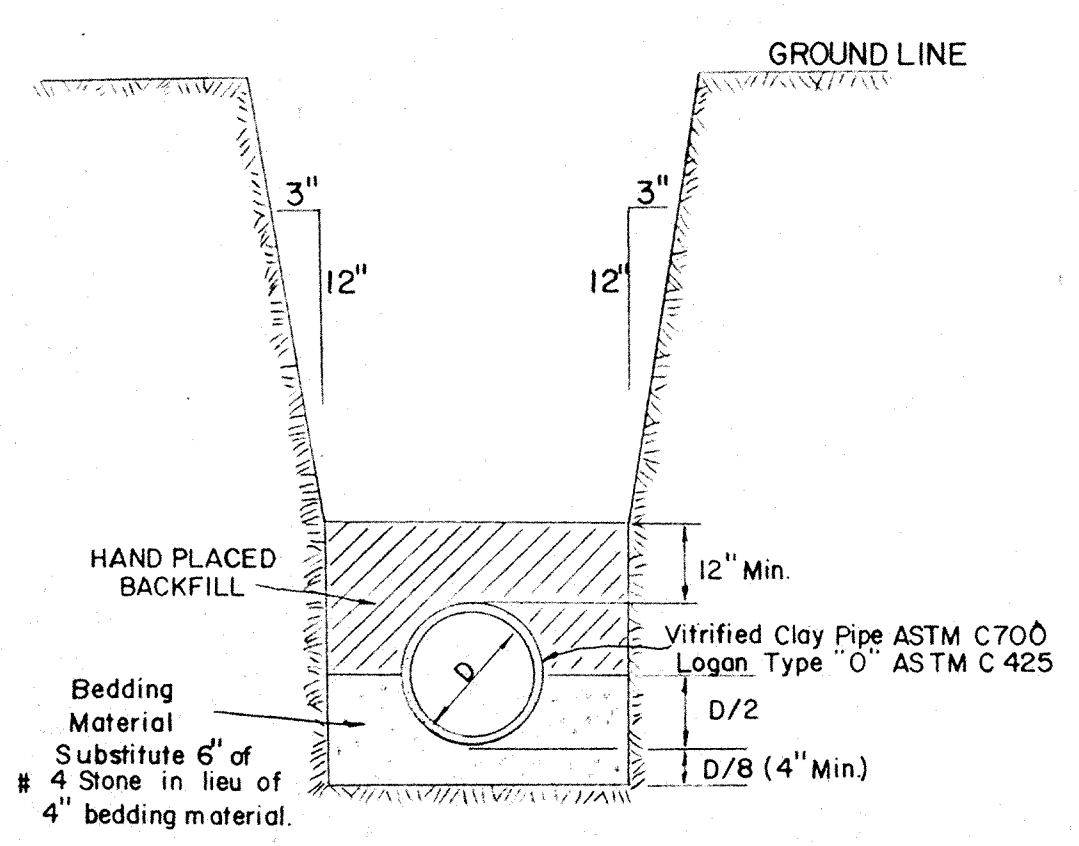
PVC ASTM 3034 is an acceptable alternative to VCP. If flexible conduit shall be Class I Bedding Material as per ASTM-2321 (I.D.O.T. No. 4 stone is acceptable class I Bedding Material). Bedding and Initial Backfill Material will extend from a minimum of 4" below bottom of pipe to a minimum of 6" above the top of the pipe.



**PLAN VIEW**  
**HOUSE CONNECTION TO MAIN SEWER**

**GENERAL NOTES:**

- Utility Companies  
 Electric - Public Service Indiana General Office 839-9611  
 Water and Sewer - Hamilton Western Utilities 846-6561  
 Telephone - Indiana Bell Telephone Company Buried Cable 800-382-5544  
 Gas - Indiana Gas General Office 926-3351  
 Citizens Gas - Attention Max Howard General Office 924-3341  
 Underground Location 800-382-5544
- Contractor shall contact all utility companies to have underground facilities located prior to any excavation work.
- Elevations at structures are pipe inverts (Inv) or top of casting (T.C.).
- Infiltration/exfiltration testing shall be performed in accordance with the requirements of the Indiana State Board of Health.
- Granular backfill is required for all utility trenches under paved areas.



**TRENCH SECTION**

FILED  
JUL 19 1985

DATES AND REVISIONS		TITLE				<b>Evergreen</b> Development Corporation 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219 317/353-6161	DATE	Feb. 27, 1985
		DESIGN BY	DRAWN BY	CHECKED			APPROVED	JOB NO.
						SCALE	As shown	
						SHEET NO.	15 of 15	