Drain: BRIOLEWOOD ORAIN	Drain #:66
Improvement/Arm: BRIPLEWOOD -SECTION 3	
Operator: JDH	Date: /0-28-03
Drain Classification: Urban/Rural	

## **GIS Drain Input Checklist**

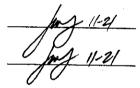
- Digitize & Attribute Tile Drains
- Digitize & Attribute Storm Drains
- Digitize & Attribute SSD
- Digitize & Attribute Open Ditch
- Sum drain lengths & Validate
- Enter Improvements into Posse
- Enter Drain Age into Posse
- Sum drain length for Watershed in Posse
- Stamp Plans
- Pull Source Documents for Scanning

998 10-28

<u>N/A</u>

10-29 10-29

14 10-29



10-29

97. 10-29

### <u>Gasb 34 Footages for Historical Cost</u> <u>Drain Length Log</u>

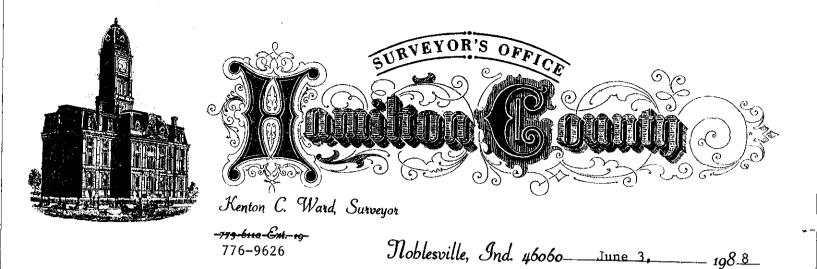
\_\_\_\_\_

## Drain-Improvement: BLIDE WOOD DRAW- SECTION 2

Drain Type:	Size:	Length SURVEY DEPUTS (AND AS BUNGTS)	Length (DB Query)	Length Reconcile	Price:	Cost:
SSO	6"	3805'	3805'	ø		
RCP	12"	638'	638'	ø		
	15"	367'	367	ø		
	18"	308'	308'	ø		
	36"	1532'	1532'	¢ :		
OPEN OTTCH		556.14	556.14	ø		
CONCRETE SWALE	24*	92'	92'	ø		
	· · · · · · · · · · · · · · · · · · ·					
<b></b>	Sum:	7,298,14'	7 Z98.14			<u> </u>

Final Report:\_\_\_\_

Comments:



TO: Hamilton County Drainage Board

RE: Bridlewood Drain-Section 1

Attached is a petition, non-enforcement request, calculations, quanity summary and a assessment roll for the Bridlewood Drain, Section 1.

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 accuruing to the owners of land likely to be benefitted. The drain will consist of the following:

				- :	
Open Ditch	556.14ft	36"	RCP	۰. <sub>1</sub> .	1477ft
12" RCP	638.00ft	36"	RCP	•	55ft
15" RCP	176.00ft	6"	SSD	•	3805ft
18" RCP	400.00ft			•	

The total length of the drain will be 7107.14 Lin. Ft.

Included in the above as open ditch is the portion of Cool Creek which borders the subdivision. The Mary Wilson Drain was not included as part of this drain. The existing 36" CMP under 151st Street, North of STR 24 was included as part of the drain. Also, all of the 6" SSD was included, but the length may change with the "As Builts".

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 \$1250.00.

I recommend a hearing be set for September 1988.

ton C. Ward

KCW/no

Kenton Hamilton COunty Surveyor

(Revised 2/1986)

STATE OF INDIANA ) ) COUNTY OF HAMILTON )

TO: HAMILTON COUNTY DRAINAGE BOARD % Hamilton County Surveyor, Courthouse, Noblesville, IN 46060

In the matter of BRIDLE WOOD Subdivision, Section I Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in\_\_\_\_\_\_ BRIDLEWOOD\_\_\_\_\_, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petetioner believes the proposed improvements will:

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

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

- 1. To provide the Drainage Board a Performance Bond for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 100% of the Engineers estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
- 2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.

- 3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain File.
- 4. The Petitioner shall instruct his Engineer to provide a reproducable print on a 24" x 36" mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
- 5. The Petitioner shall comply with the Erosion Control Plan as as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain.

x AM 2-Signed

R. N. THOMPSON Printed Name

Signed

Printed Name

RECORDED OWNER(S) OF LAND INVOLVED

DATE MAY 12, 1988

#### BRIDLEWOOD

Engineers Estimate for: Drainage

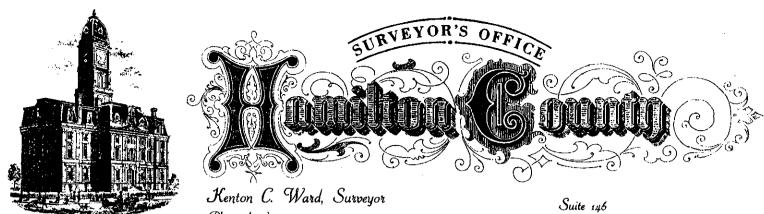
Item No.	Description	Quantity	Unit	Price	Amount
1	Earthwork	10400	C.Y.	\$1.70	\$17,680.00
2	6" Sub Surface Drains	280	L.F.	\$4.00	\$1,120.00
3	SSD Risen	2	Ea.	\$75.00	\$150.00
4	36" CMP	8	L.F.	\$45.00	\$360.00
5	12"RCP	538	L.F.	\$11.00	\$5,918.00
6	15"RCP	367	L.F.	\$13.00	\$4,771.00
7	18"RCP	400	Ι.Γ.	\$17.50	\$7,000.00
8	36"RCP	1484	L.F.	\$47.00	\$69,748.00
9	Yard Inlet	8	Ea.	\$450.00	\$3,600.00
10	Solid Lid Manhole	2	Ea,	\$500.00	\$1,000.00
11	Curb Inlet	10	Ea.	\$450.00	\$4,500.00
12	21" Metal End Section	1	Ea.	\$90.00	\$90.00
13	42" Metal End Section	1	Ea.	\$200.00	\$200.00
14	Ríp Rap	6	Tons	\$25.00	\$150.00
15	Sodding	900	S.Y./	\$1.50	\$1,350.00
16	Straw Bales	150	Ea.	\$1.25	\$187.50
17	Grass and Mulch	20000	S.Y.	\$0.10	\$2,000.00
18	Enosion Control Blanket	400	L.F.	\$1.00	\$400.00
				TOTAL	\$120,224.50



Page 1

Die Letter Indiana National® dit	The Indiana National Bank One Indiana Square, Suite 314 Indianapolis, Indiana 46266
	Date: December 1,1988kh INB NO. Credit Number Advising Bank No.
SWIFT Address: INBI US 44 Telex Number: 02-7326 Phone: 266-6153	SB034645
Advising Bank	Applicant Land Innovators, an Indiana Limited Partnership 234 S. Franklin Road Indianapolis, IN 46219
Beneficiary	Amount
Hamilton County Commissioners, Hamilton Count Drainage Board and The Westfield Town Board o Trustees - Westfield City Building 130 E. Penn St.	USD \$161.300.00
Westfield, IN 46074 We hereby issue in your favor this irrevocable letter of credit which is avai	
Drafts drawn at <u>Sight</u>	
on The Indiana National Bank, Indianapo	lis, Indiana
bearing the clause; "Drawn under irrevocable letter of credit No. ${f SB}$ 03 Other documents:	34645
Beneficiary's signed certificate stating the necessary drainage improvements at th Hamilton County, Indiana.	that the applicant has failed to construct
We hereby engage with I You       drawers and/or bona fide holders that drafts drawn and negotiated in conformity with the terms of this credit will be duly honored or 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.	
We hereby engage with Drou drawers and/or bona fide holders that drafts drawn and negotiated in conformity with the terms of this credit will be duly honored	Advising Bank's Notification
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.	
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Very truly yours,	
	Place/date/name/signature of advising bank.
320-6320 Revised 9/84 ORIGINAL	Place/date/name/signature of advising bank.
CRIGINAL	-
▲	

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Kenton L. Ward, Survey 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 1

Attached are As-Builts, Certificate of Completion and Compliance, and other information for Bridlewood Drain-Section 1. 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 June 3, 1988. The changes are as followed:

STR 22A was changed from 400 feet of 18 inch RCP to 308 feet of 18 inch RCP and 92 feet of 24 inch concrete swale.

STR 20 to 21 was missed on the original report. It consists of 191 feet of 15 inch RCP.

The length of the drain due to the changes described above is now 7,298.14 feet.

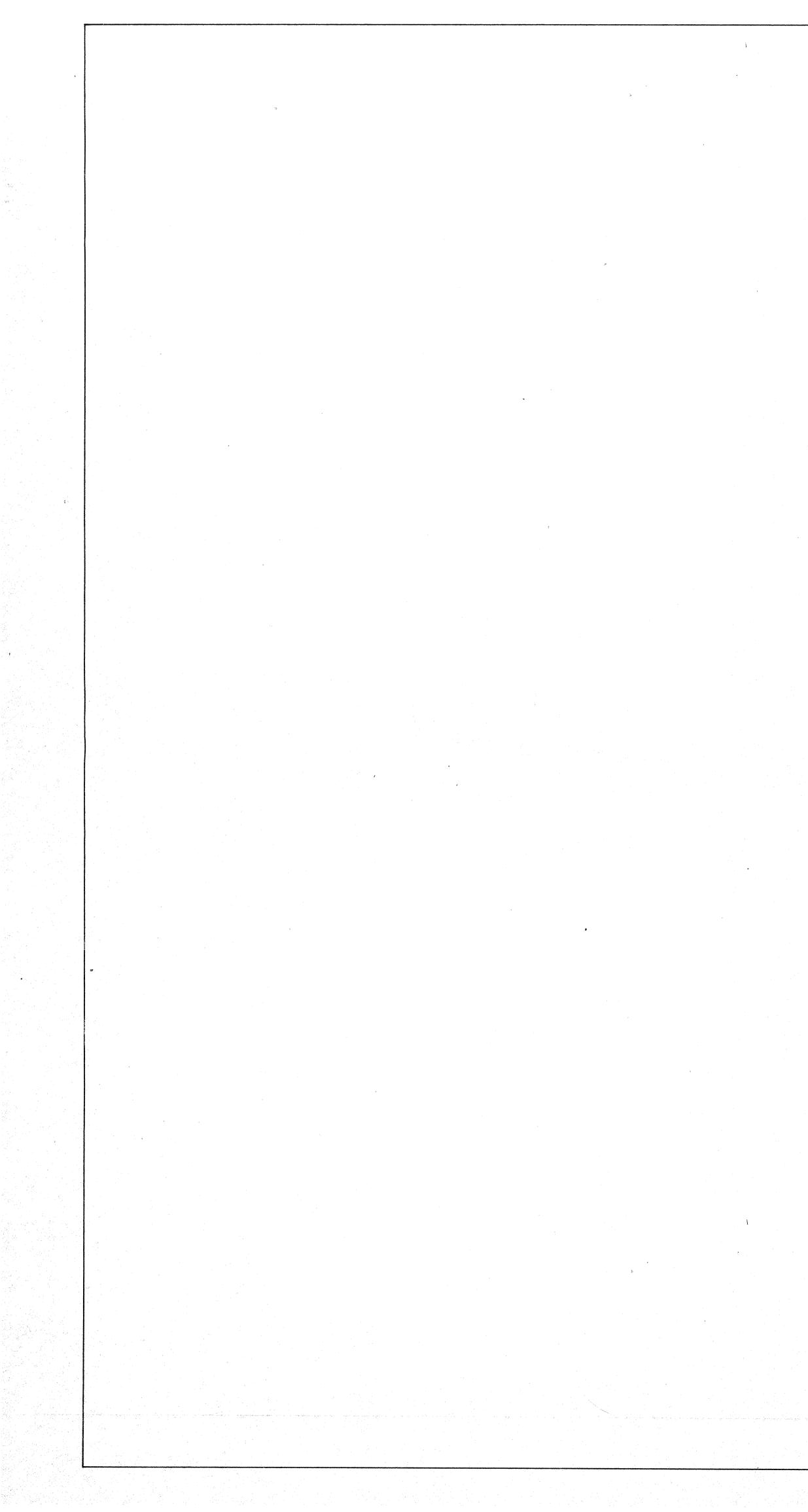
The non-enforcement request was approved by the Board at its meeting on July 24, 1989.

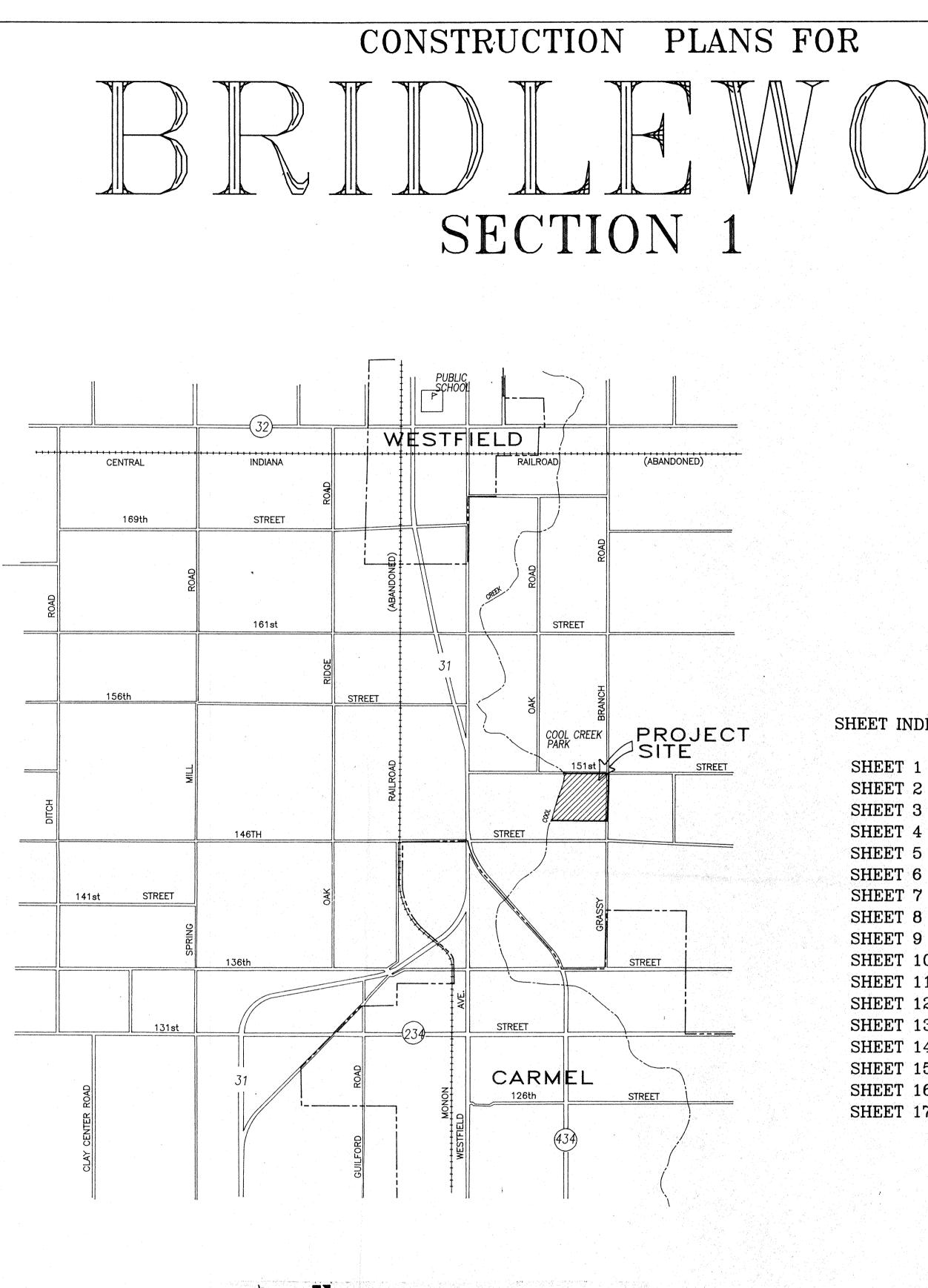
The Bond of Letter of Credit from Indiana National Bank, number SB 034645, dated December 1, 1988, in the amount of \$161,300, has expired.

Page #2

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

Kenton C. Ward Hamilton County Surveyor KCW/no







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HOALDEHDA GUINTY SURVEYOR , ARTHUR L. KASER - REGISTERED LAND SURVEYOR NO. S0529

Som

THESE PLANS PREPARED BY:

FILED

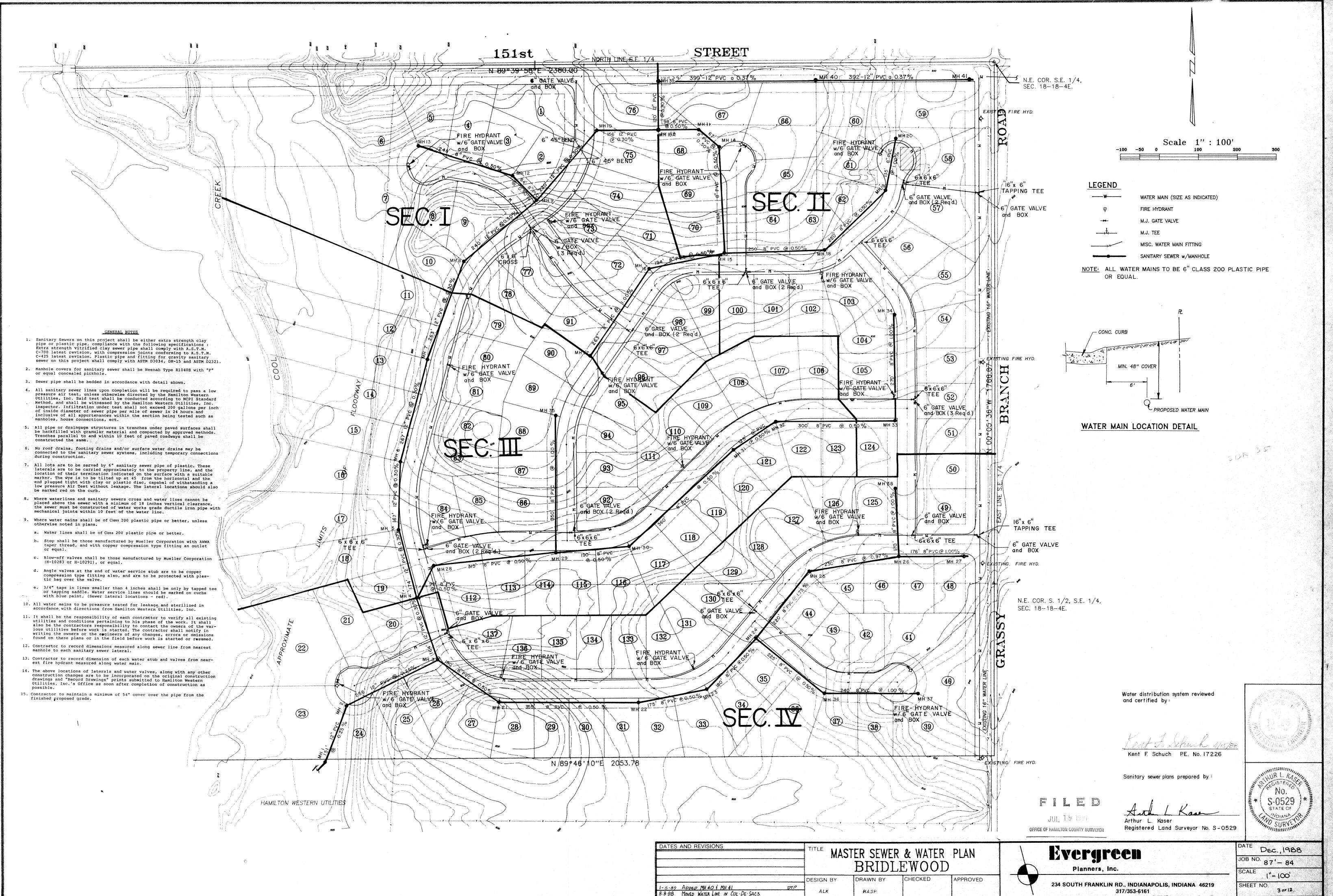
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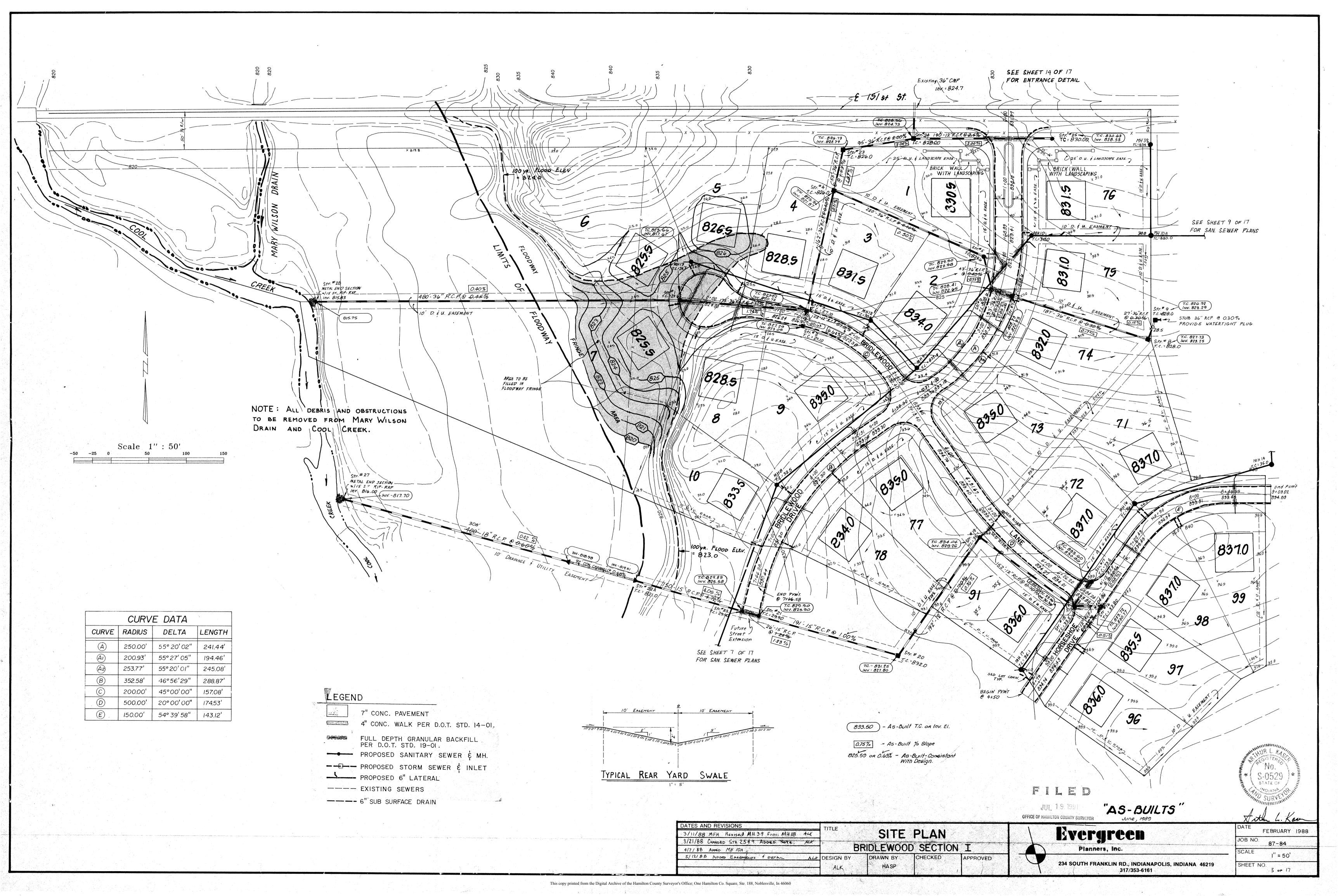
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COVER SHEET SHEET 2 OVERALL SEWER AND WATER PLAN SHEET 3 SITE PLAN SHEET 4 FLOODWAY GRADING PLAN SHEET 5 EROSION CONTROL PLAN SHEET 6 OFFSITE SANITARY SEWER PLAN SHEET 7 BRIDLEWOOD DRIVE PLAN AND PROFILE SHEET 8 BRIDLEWOOD DRIVE cont. / HORSESHOE DRIVE SHEET 9 WINDMMILL CIRCLE PLAN AND PROFILE SHEET 10 BRIDLEWOOD LANE PLAN AND PROFILE SHEET 11 STORM SEWER PLANS - STR. 1-4, 23-25 SHEET 12 STORM SEWER PLANS - STR. 4-9 & STR. CHART SHEET 13 STORM SEWER PLANS - STR. 16-22A INTERSECTION AND ENTRANCE DETAIL SHEET 14 SHEET 15 STANDARD SPECIFICATIONS SHEET 16 MISC. STANDARD DETAILS SHEET 17 SEWER DETAILS

SHEET INDEX





SEEDING SPECIFICATIONS:

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Swales / Grassed Waterways; permanent seeding shall take place between 1. March 1 and May 15 or from August 10 to October 15 with the following per acre:

-50 -25 0 Scale 1'': 50' 100 150

-820-----

....

CREEK

- 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 2. 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.
- 3. 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.
- 4. If temporary seeding is established prior to permanent seeding, the mulch may be eliminated except in "bare" areas.
- 5. 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.

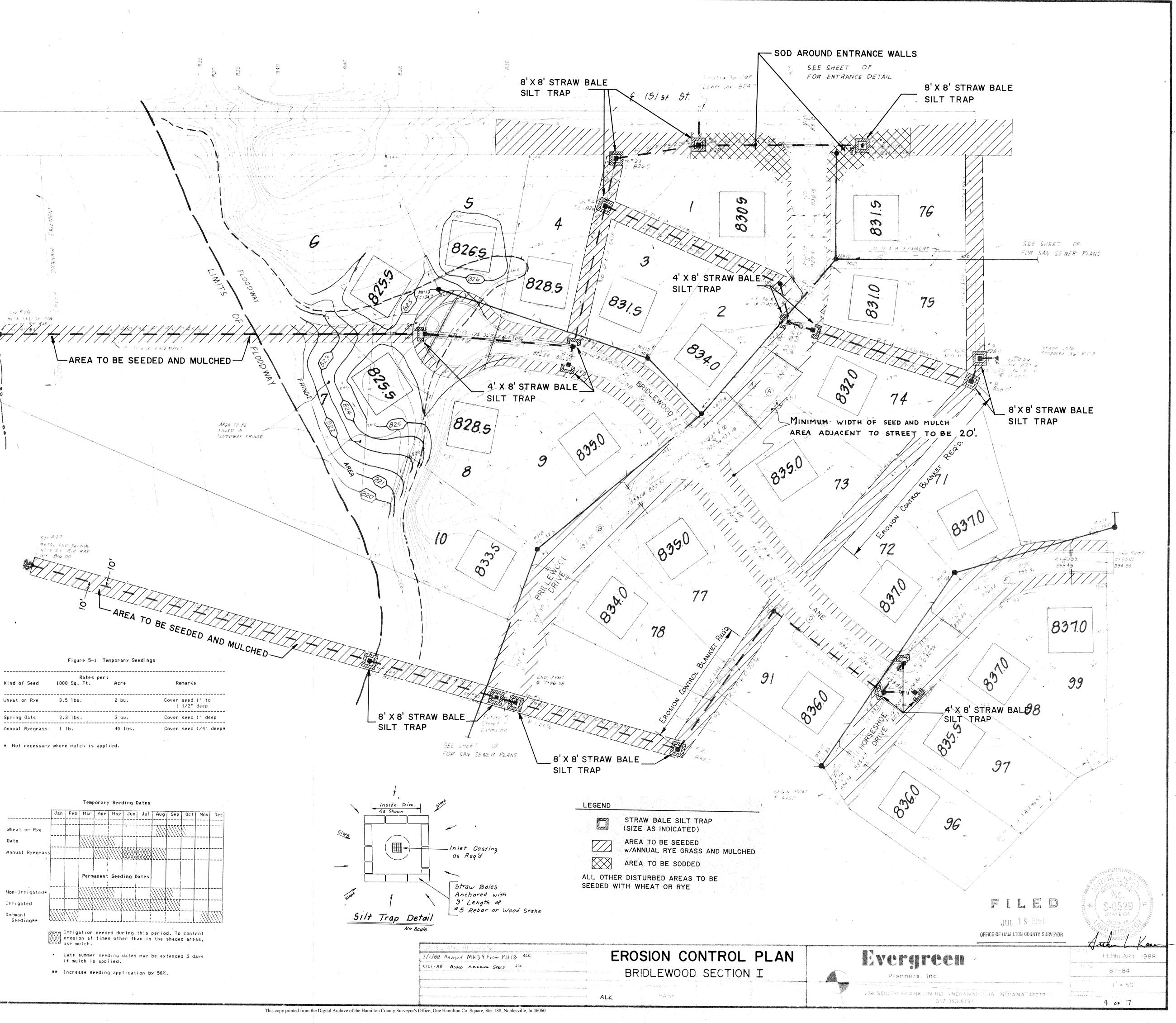
### SOIL EROSION CONTROL SUMMARY:

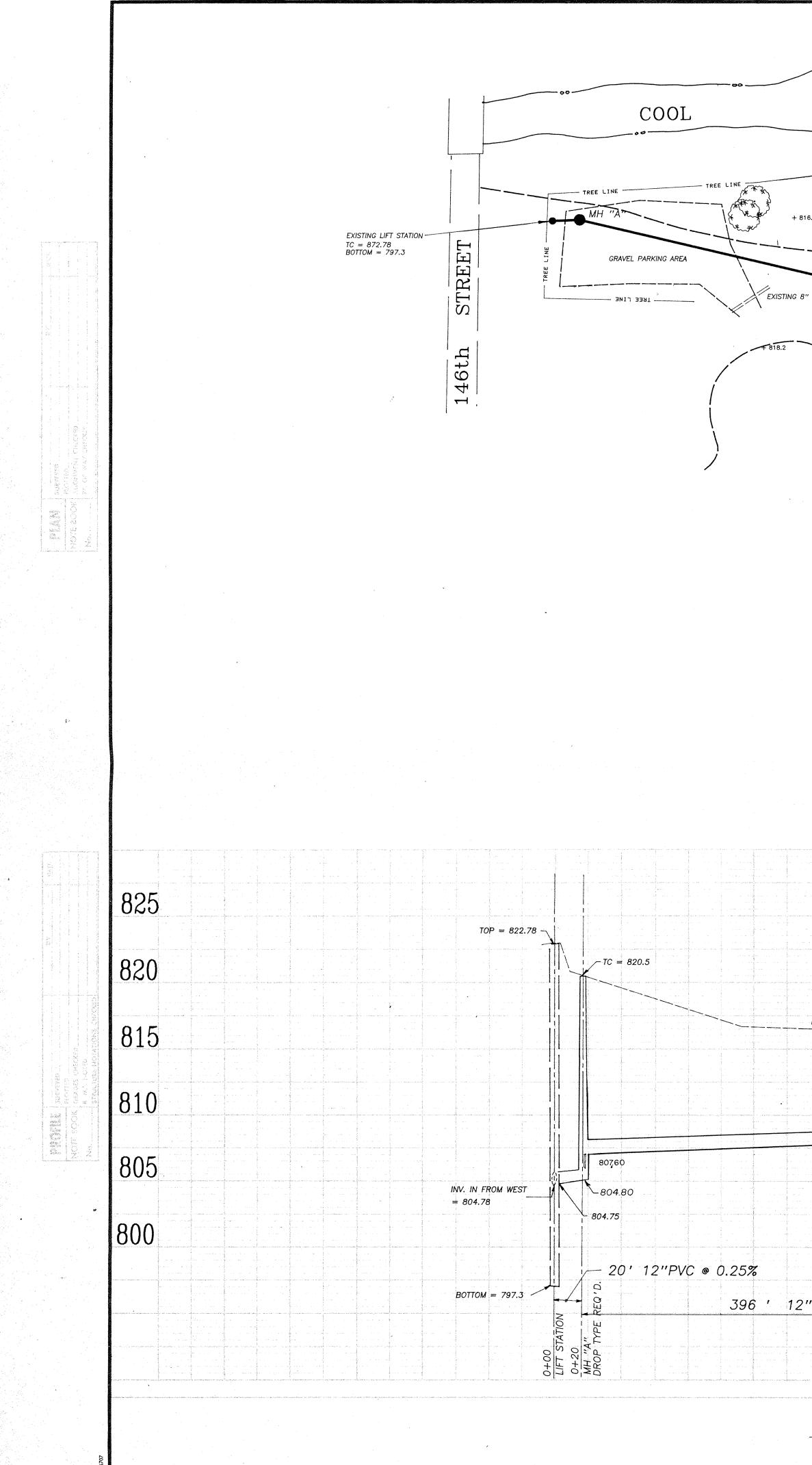
- 1. Contractor shall install sediment traps and straw bale filters as shown.
- Mass grade the sits (sides of swales, mounds and ponds to be sodded 2. or seeded and mulched immediately upon completion). Temporary seeding shall be recommended for all swales and disturbed areas that cannot be final seeded within a time period that will prevent soil erosion. For temporary seeding the contractor shall utilize a fast growing seed of either oats, annual rysgrass, 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 3. 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 al filters and traps during construction to prevent any 4. 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 addtional straw bales and rip rap not shown on plans and seeding shall be on a unit basis,
- 5. Contractor shall install all storm sewer inlet filters as storm sewer systen is installed.

6. All proposed street areas to be paved as soon as possible after subgrade is prepared.

METAL END SECTION CN-15 SY BIP RAP Inr 816 00

	Figure 5-1	Temporary Seed	ings
ind of Seed	Rates pe 1000 Sq. Ft.	r: Acre	
neat or Rye	3.5 lbs.	2 bu.	
oring Oats	2.3 lbs.	3 bu,	
nnual Ryegrass	1 lb.	40 lbs.	





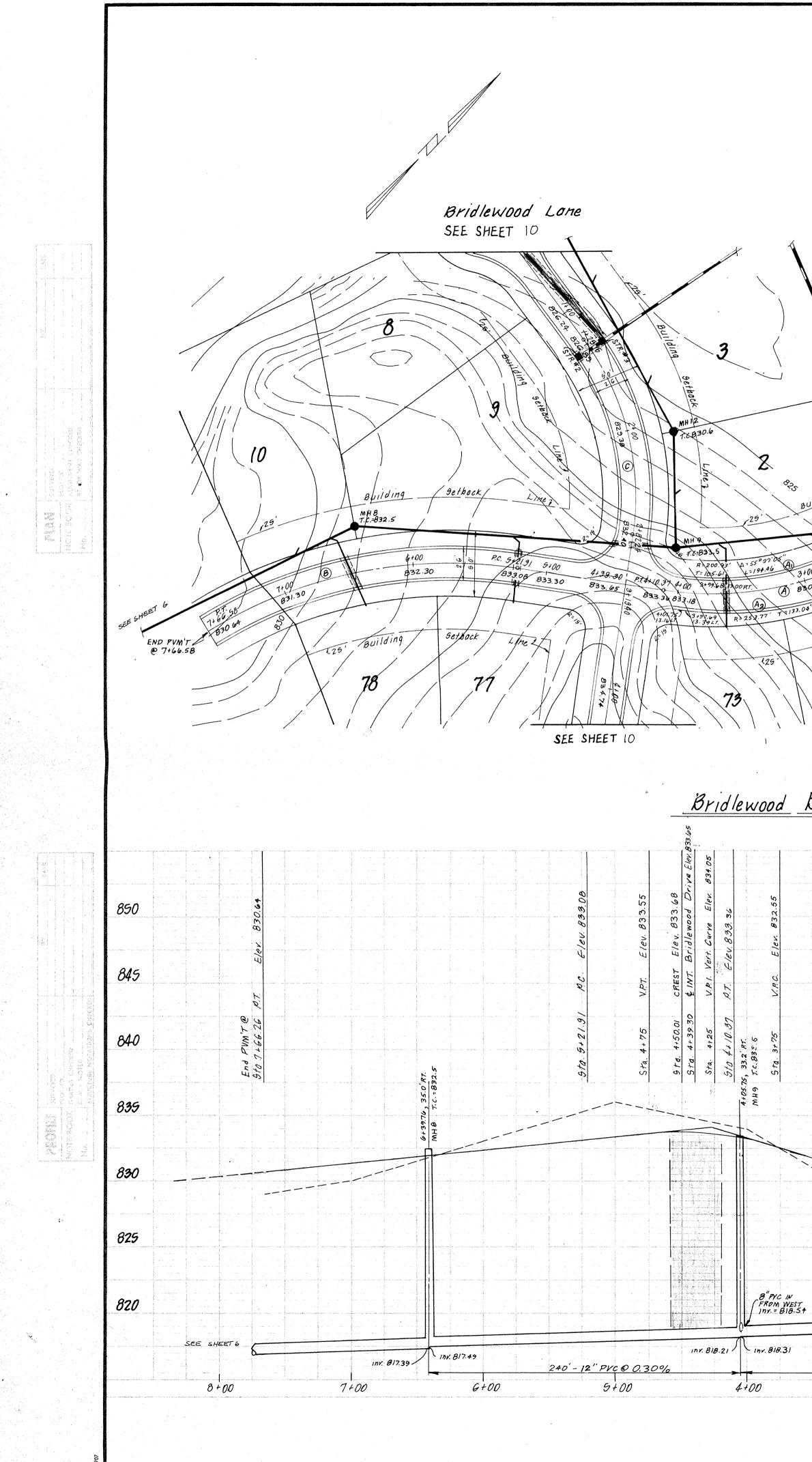
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<u>NOTE</u> : Inverts of MH's "A" and "B" were lowered per request by Stoeppelwerth Engineers to accommodate the proposed Village Park Estates development.	DATES AND REVISIONS	TITLE OFFSITE SANITARY SEWER	UL 19 1901 OFFICE OF HAMILTON COUNTY SURVEYOR EVErgreen	DATE April 7, 1988
Estates development.		BRIDLEWOOD DESIGN BY DRAWN BY CHECKED APPROVED	Planners, Inc.	JOB NO 87-84 SCALE 1"=50'
	<b>4</b> -20-88 Rev. Inv. MH's A & B (See Note) ice; One Hamilton Co. Square, Ste. 188, Noblesville, In 46060	ALK	234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219 317/353-6161	SHEET NO. 5 of 17

NOTE : Inverts of MH's "A" and "B"		· · · · · · · · · · · · · · · · · · ·	DATES AND REVISIONS		
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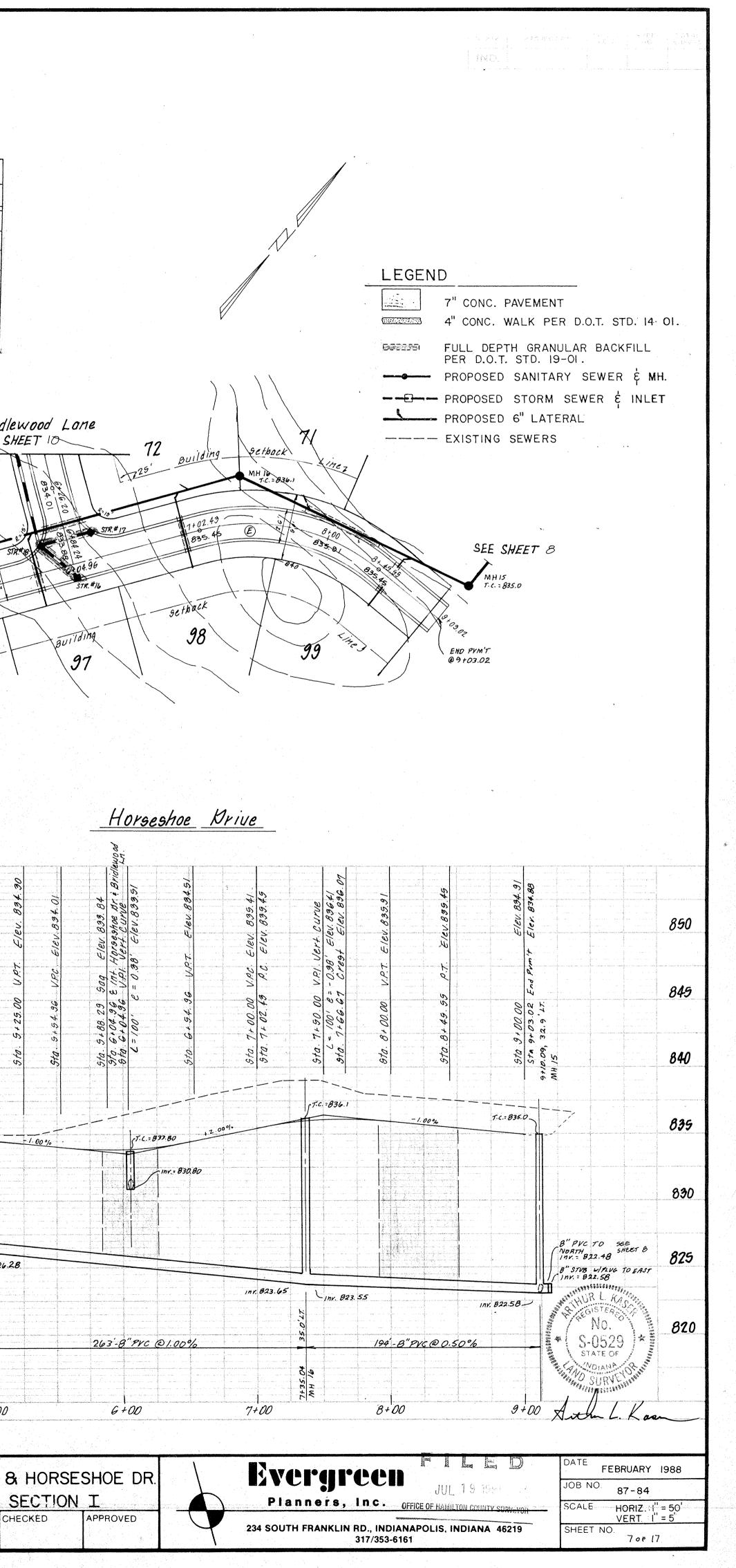
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<u>164'-12" P.Y.C.@ 330%</u> <u>174'-12" P.Y.C.@ 0.30%</u> 5+00 6+00 7+00	No7'-12" RV.C. @ 0.30%         267'-12" RV.C.@ 0.30%           8+00         9+00         10+00         11+00         12+0	Electric Hereit
	DATES AND REVISIONS       TITLE       SANITARY SEWER PLANS         BRIDLEWOOD       BRIDLEWOOD         DESIGN BY       DRAWN BY       CHECKED         ALK       HASP/ALK/DTP       CHECKED	DATE         DATE         JUL 19 1991         JUL 19 1991         JUL 19 1991         JOB NO.         87-84         SCALE         HORIZ.1" = 50'         VERT.1" = 5'         SHEET NO.         6 of 17

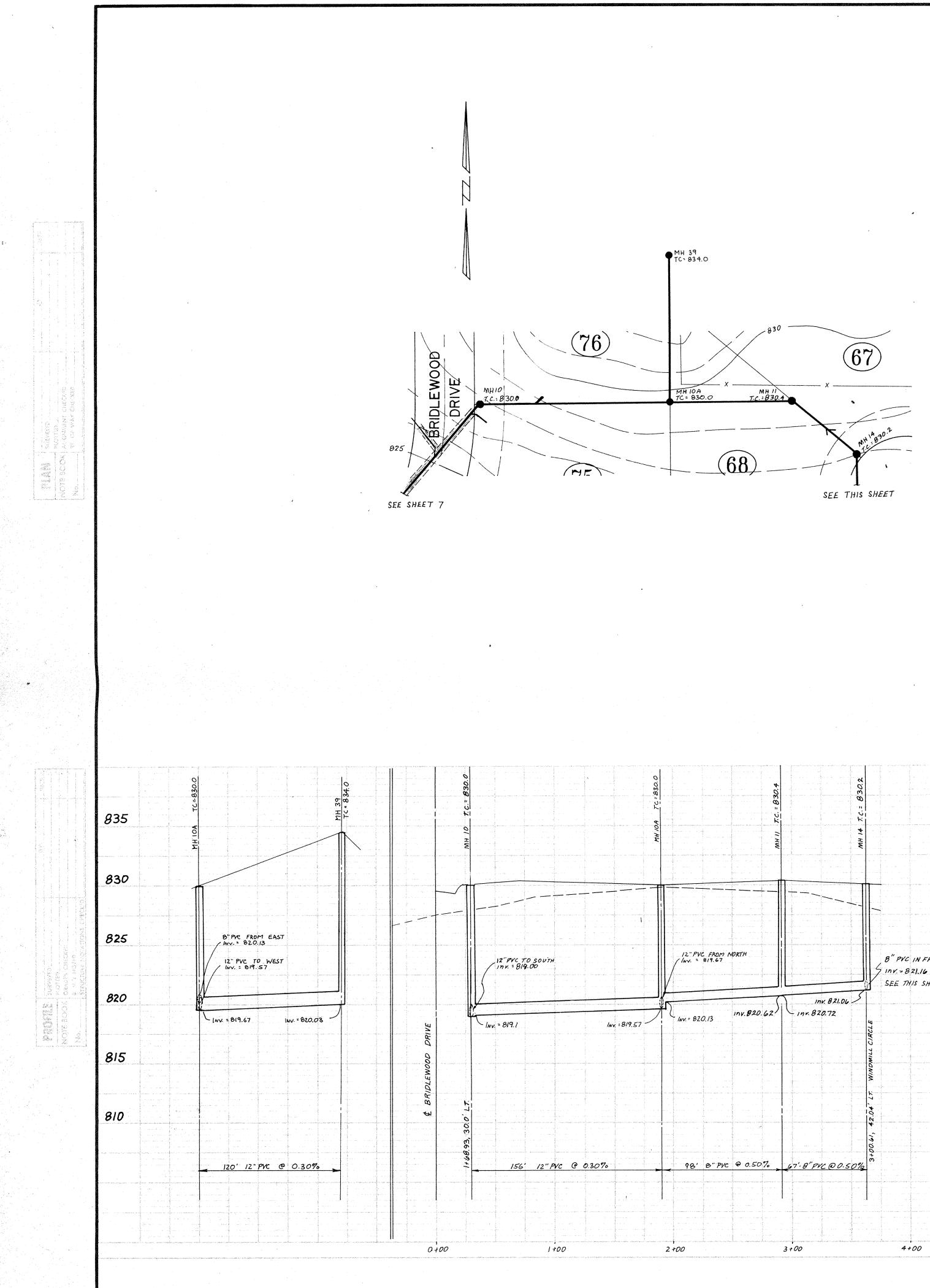
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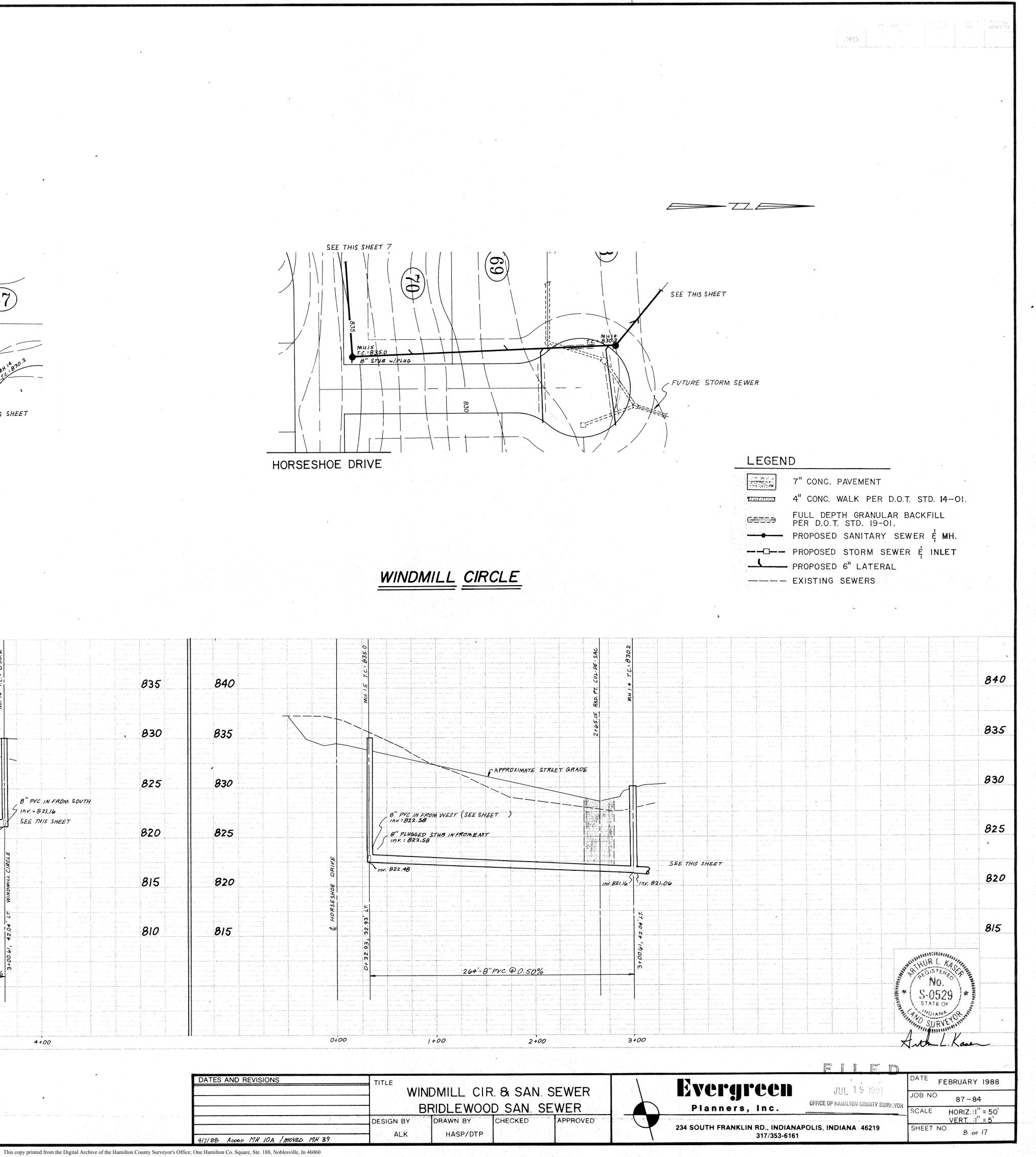


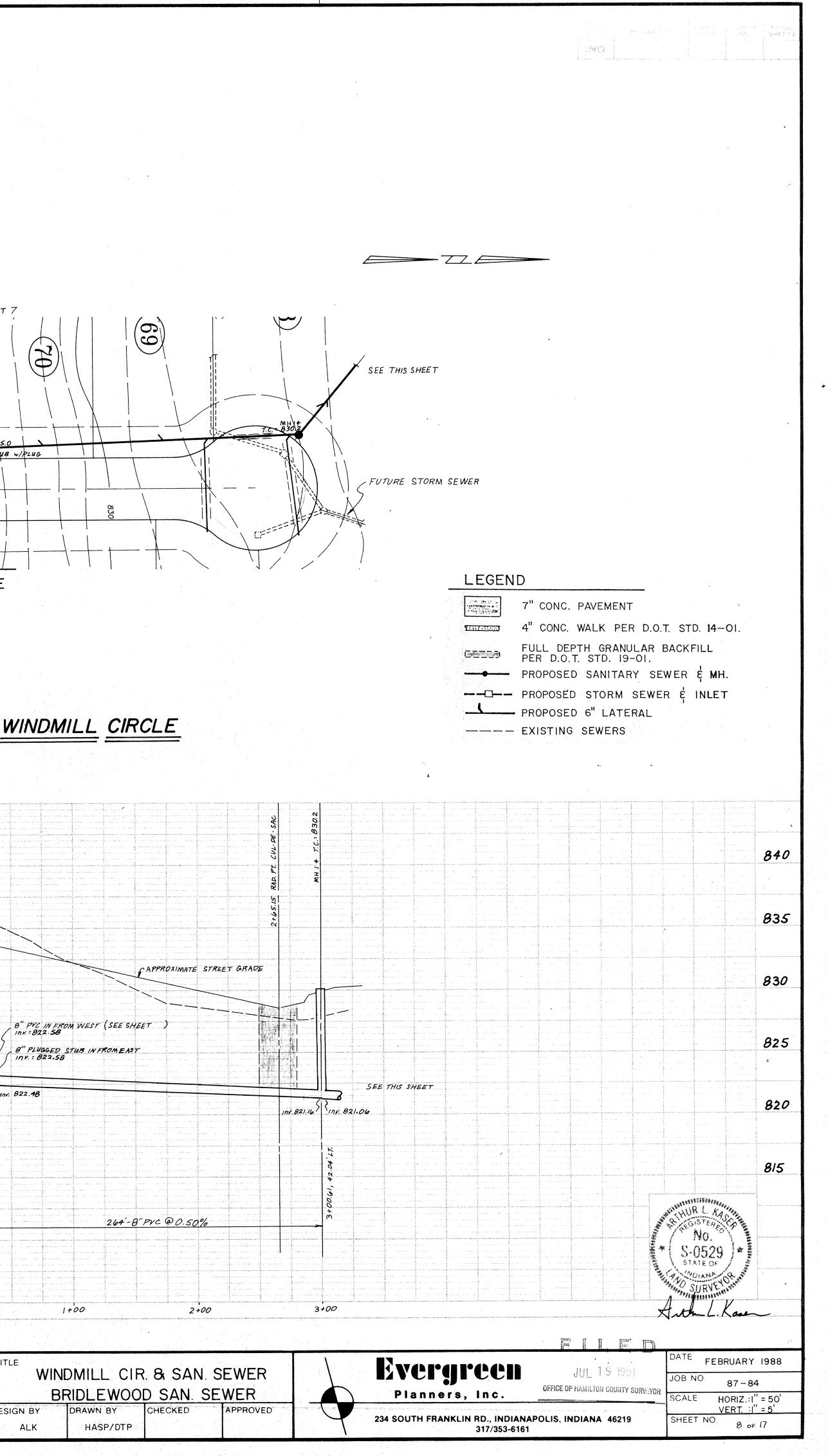
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	417/88 ADDED MH 10A / Moved MH 39	그는 것 사람을 입장했다. 이 영화인증의 모양이 관계했다.
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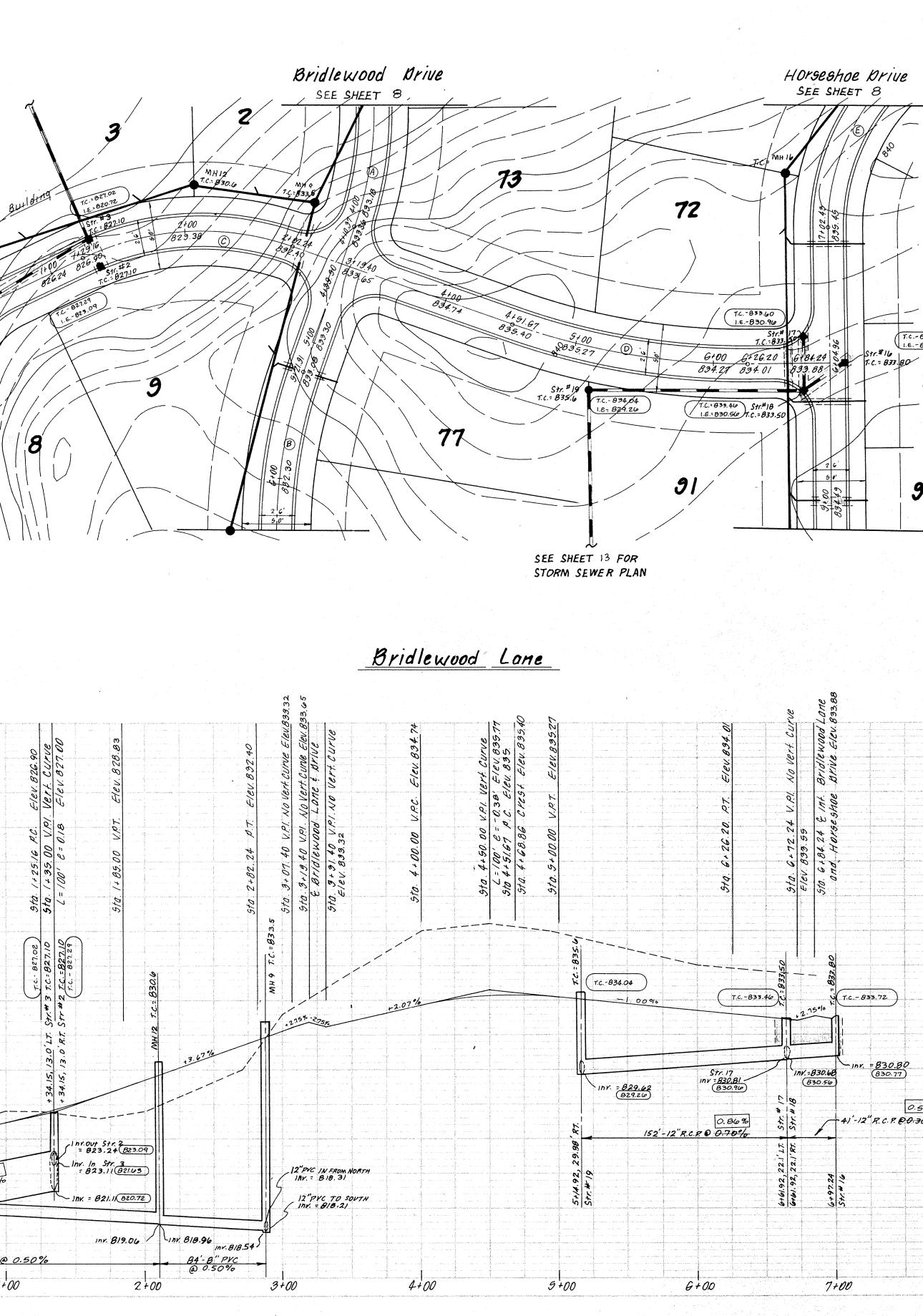




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	ALK	HASP/CMB/DTP	
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CURVE	RADIUS	DELTA	LENGTH						
A	250.00'	55° 20' 02"	241.44'						
(AI)	200.93'	55° 27' 05"	194.46'						
(A2)	253.77'	55° 20' 01"	245.08'						
B	352.58	46°56'29"	288.87'						
C	200.00'	45°00'00"	157.08'						
	500.00'	20°00'00"	174.53'						
E	150.00'	54° 39' 58"	143,12' -						

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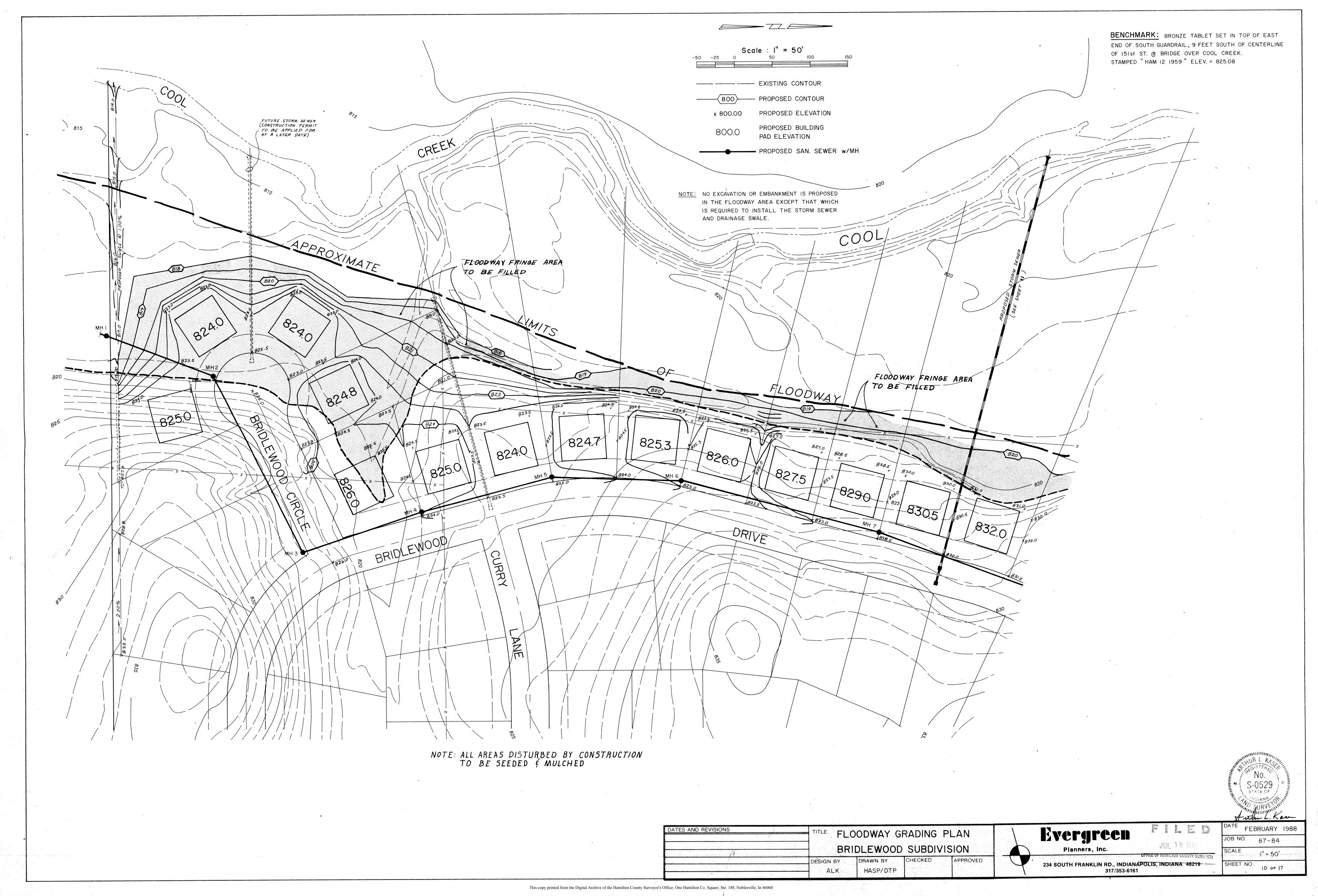
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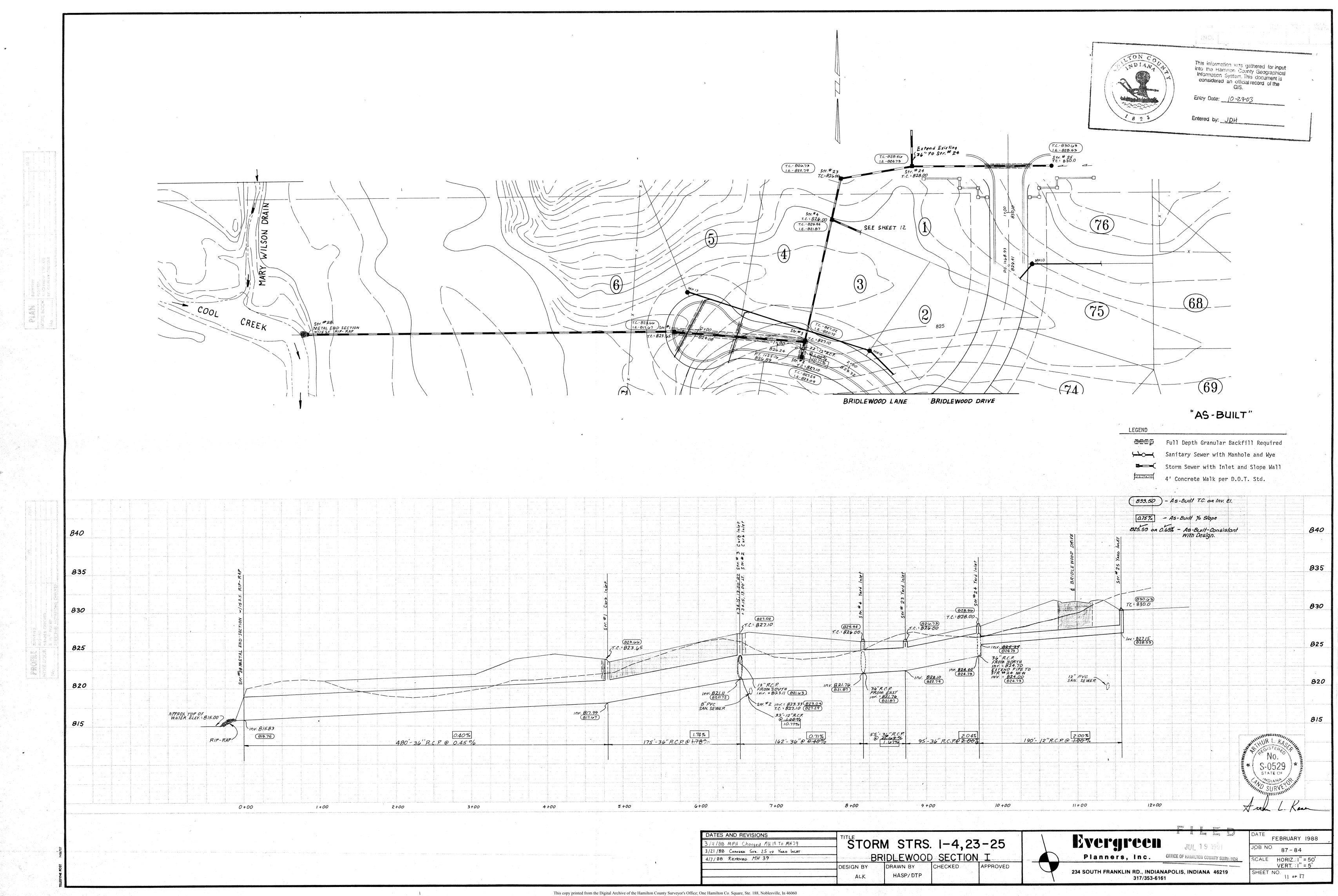
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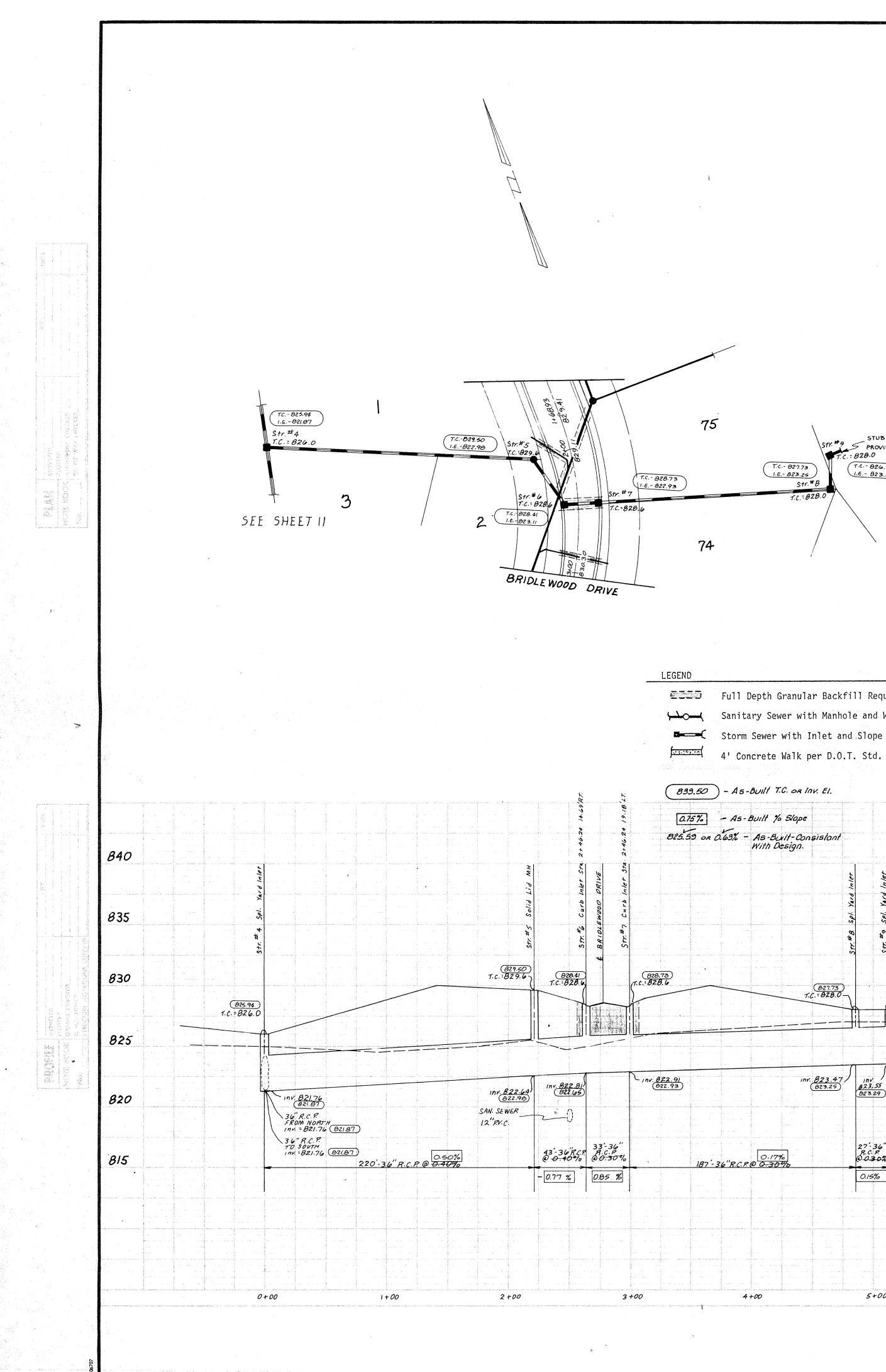
		DATE FEBRUARY 1988
OD LANE		JOB NO. 87-84
SECTION I	OFFICE OF HAMILTON COUNTY SUDI-	SCALE HORIZ.: I" = 50' VERT. I" = 5'
	234 SOUTH FRANKLIN RD., INDIANAPOLTS, INDIANA 46219 317/353-6161	SHEET NO. 9 OF 17



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DATES AND REVISIONS		ODWAY O	
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	DESIGN BY	DRAWN BY	CHEC
	ALK	HASP/DTP	





# STORM SEWER STRUCTURE CHART

STR. NO.	STRUCTURE T YPE	NEENAH CST'G TYPE	CASTING CAPACITY	IN-FLOW CFS	AREA
1	Curb Inlet	R-3501-N	3.45	3.00	1.5
2	Curb Inlet	R-3501-N	3.45		
3	Curb Inlet	R-3501-N	3.45	0.66	0.33
4	Yard Inlet	R-4343	7.54	1.60	0.80
5	Solid Lid MH	R-1772-A			
6	Curb Inlet	R-3501-N	3.45	1.20	0.60
7	Curb Inlet	R-3501-N	3.45	1.80	0.90
8	Yard Inlet	R-4343	7.54	2.60	1.30
9	Solid Lid MH	R-1772-A		·	
16	Curb Inlet	R-3501-N	3.45	0.80	0.40
17	Curb Inlet	R-3501-N	3.45	1.20	0.60
18	Curb Inlet	R-3501-N	3.45	1.00	0.50
19	Yard Inlet	R-4343	7.54	3.40	1.70
20	Yard Inlet	R-4343	7.54	3.40	1.70
21	Curb Inlet	R-3501-N	3.45	1.20	0.60
22	Curb Inlet	R-3501-N	3.45	1.20	0.60
22A	Yard Inlet	R-4343	7.54		
23	Yard Inlet	R-4343	7.54	1.00	0.50
24	Yard Inlet	R-4343	7.54	0.60	0.30
25	Yard Inlet	R- <b>4343</b>	7.54	0.40	0.20
26					
27	Metal End Section				
28	Metal End Section				•

Full Depth Granular Backfill Required Sanitary Sewer with Manhole and Wye Storm Sewer with Inlet and Slope Wall

STV. #9 STUB 36" R.C.P. @ 0.307. PROVIDE WATERTIGHT PLUG T.C.: 828.0

(T.C. - 826.92 I.E. - 823.29

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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: 10-29-03

Entered by: JDH

# SANITARY SEWER MANHOLE CHART

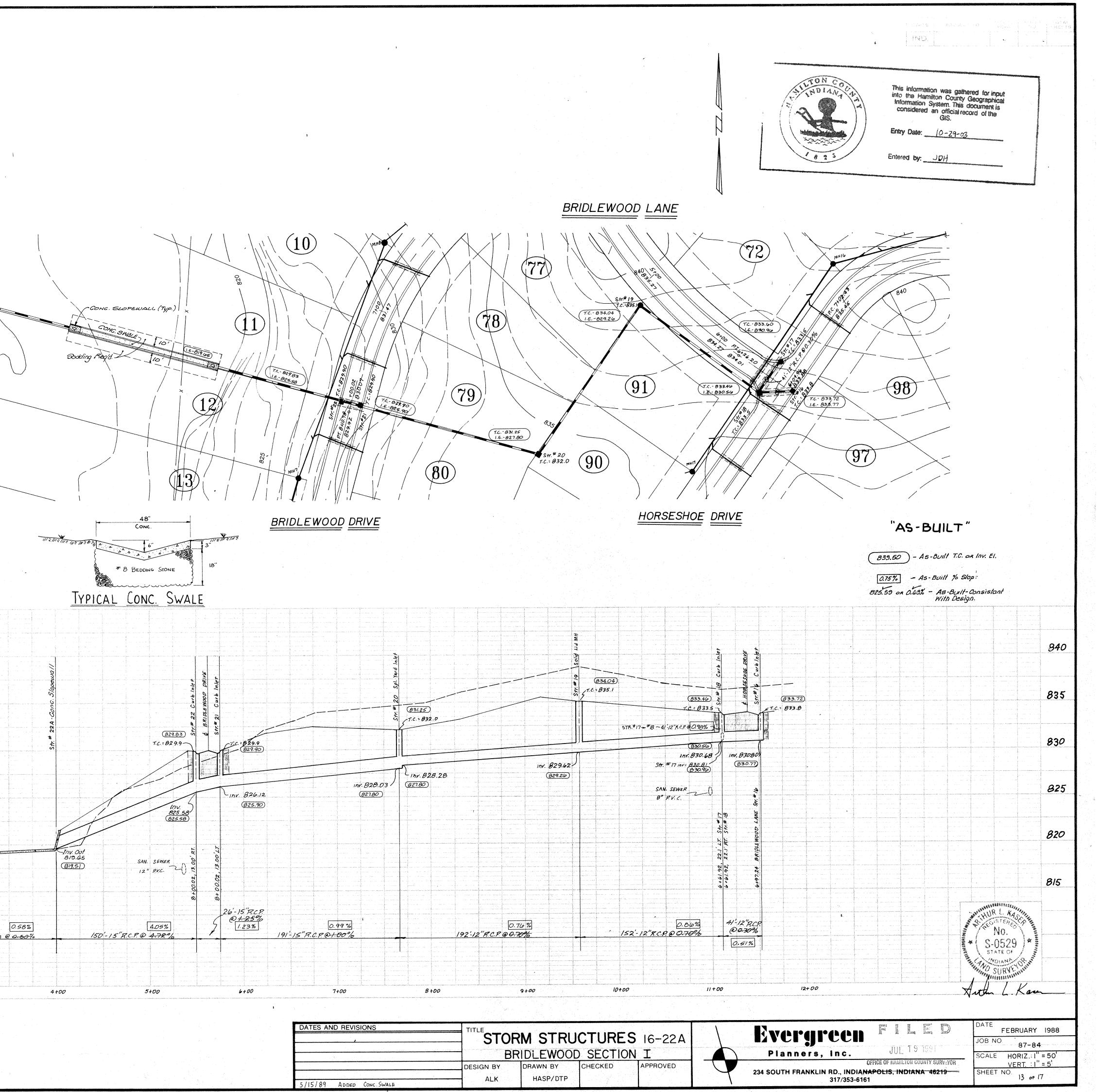
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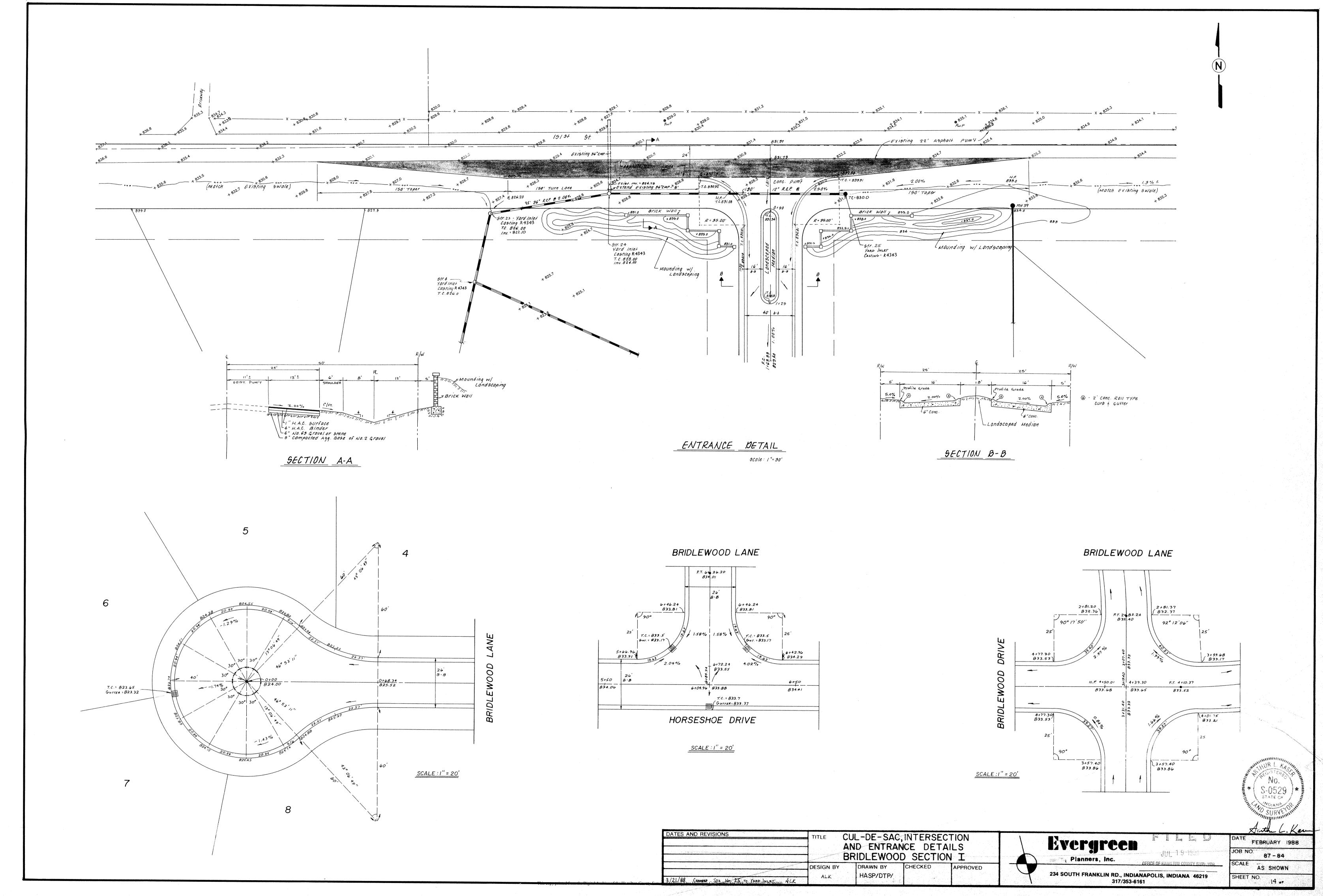
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GENERAL SITE WORK NOTES

- 1. All construction work and material shall meet the specifications of the Indiana Department of Highways 1988.
- 2. All trenches under or within five (5) feet of the street pavement shall be backfilled to the subgrade with granular material as directed by the engineer. Backfill shall be compacted per Section 211.
- 3. Before earthwork is commenced, the contractor shall remove the topsoil in the area of the street and house pads that require fill. This topsoil shall be stockpiled as directed by the engineer in sufficient quantity so as to allow for the placement of at least three (3) inches over all disturbed areas before mulch seeding. The remainder of the topsoil shall be distributed in the front and rear yards.
- it fills placed under paved areas and house pads are to be 55 representively standard proctor (ASTM D-698) 4

\* Minimum elevation for the top of the slab of slab type structures or  $\,$  \* \* if a crawl space or basement is used, the flood protection grade

- \* would pertain to the lowest land grade around the exterior of the \* \* building, is two (2) feet above the 100-year flood elevation.
- 5. Temporary silt settlement basins, two feet in depth shall be excavated at the entrance to storm structures, as directed by the engineer.
- 6. Storm and Sanitary sewer material and installation shall be in direct accordance with the STANDARD SPECIFICATIONS FOR STORM AND SANITARY SEWER CONSTRUCTION IN MARION COUNTY, INDIANA as approved on the 20th day of June, 1974. The sanitary sewer contractor shall furnish to the owner certified infiltration tests showing that the leakage outward or inward (exfiltration or infiltration), by an air test (ASTM C828 preferred) shall not exceed 200 gallons per inch of pipe diameter per mile per day and deflection tests for PVC or Truss pipe for 100% of the project and any other tests required for acceptence of sewers by the Department of Public Works.
- 7. Pavement is to be placed on a prepared subgrade with no traffic on the subgrade prior to paving, as per 1988 I.D.O.H. Specifications, Section 207.
- 8. Concrete pavement to be placed as per 1988 I.D.O.H. Specifications, Section 500.

Asphalt pavement to be placed as per 1988 I.D.O.H. Specifications, Section 400. For additional information see Street Detail Sheet.

- 9. All construction within the dedicated right of way or in areas dedicated to the public shall conform to the City of Indianapolis, Department of Transportation's STANDARDS for STREET & BRIDGE DESIGN and CONSTRUCTION as adopted on the 17th day of May 1972 and its periodic revisions.
- 10. All natural areas which are disturbed by site development construction shall be seeded with a mixture of 60 pounds per acre of Perrenial Rye grass and 60 pounds per acre of Kentucky 31 Fescue or Alta Fescue.
- Driveways and sidewalks, unless otherwise noted, are not to be installed as part of these plans and are the responsibility of the 11 idual home builder.
- Prior to start of construction, a pre-construction conference be scheduled on site with Contractor, Subcontractor, 12 beveloper, Engineer for the Developer, or City Engineer (844-8900), and Utilities Department.
- 13. All City of Lawrence permits shall be obtained prior to start of construction.

ELECTRIC AND TELEPHONE

- 1. Conduit shall be required for all crossings under pavement areas.
- 2. Granular backfill shall be required for all crossings under pavement areas.
- and compacted per Section 211. 3. Concrete pads for electric and telephone transformers shall be set at the approximate ground grade as shown on the Site Development Grading Plans for the respective locations.

CONCRETE CURB AND WALKS

- 1. See Detail Sheet for type and details. Curbs and walks within existing or proposed right of way shall be constructed in accordance with General Ordinance No. 49, 1972.
- 2. Concrete shall be ready mix Portland cement conforming to A.S.T.M. C-150, and water. Aggregate shall conform to A.S.T.M. C-33. Compressive strength of concrete at 28 days shall be 4000 p.s.i. Where required, reinforcement shall be welded steel wire fabric conforming to A.S.T.M. A-185.

### A. Application

- A. Place concrete only on a moist, compact subgrade or base free from loose material. Place no concrete on muddy or frozen subgrade.
- 8. Concrete shall be deposited so as to require as little rehandling as practical. When concrete is to be placed at an atmospheric temperature of 35 F. or less, Paragraph 702.10 of the I.D.O.H. Specifications, 1985 edition, shall apply.
- C. Except as otherwise specified, cure all concrete by one of the methods described in Section 501.17 of the I.D.O.H. Specifications, 1985 edition.

SANITARY SEWER SPECIFICATIONS

- 1. Current City of Indianapolis Sanitary Sewer District, County and State specifications shall prevail as to materials and methods of construction.
- 2. Sanitary sewers shall be installed in accordance with the Indiana State Board of Health requirements.
- 3. Sanitary sewers shown on the construction plans may be Poly-Vinyl Chlorine Pipe in accordance with A.S.T.M. D-3034 (S.D.R. 35),
  - or A.B.S. Truss Pipe, where applicable, in accordance with A.S.T.M. D-2680 (8"-15" pipe and fittings), D-2751 (6" pipe and fittings).
- 4. Construction of the sanitary sewers will not be allowed to commence until a valid SPC-15 permit is obtained from the Department of
- Environmental Management. 5. Sanitary manholes shall be precast concrete in accordance with A.S.T.M. C-478. Manhole joints shall be O-RING type.
- 6. Plastic sanitary sewers shall be marked for easy identification.
- 7. Water and sewer line crossings and separations shall be in accordance with Ten States Standards and local codes.
  - a. Where water lines and sewer lines cross and the water line cannot be placed above the sewer line a minimum of 18" with a minimum cover of 48", the sewer line shall be constructed of waterworks grade cast iron pipe with mechanical joints.
  - b. Where water lines and sanitary sewer lines run parallel with one another, a minimum of 10<sup>7</sup> horizontal separation shall be maintained.
- 8. Buildings shall be serviced by a 6" minimum sanitary sewer lateral. The sewer laterals' termination shall be indicated on the surface with a post set immediately above said termination point. The ends shall be plugged and sealed with a water tight clay or plastic disc. Wyes are to be tilted up to 45 degrees from the horizontal, with suitable fittings for all changes in direction. Identified with locator tope.
- 9. The Contractor shall provide the Engineer with "as-built" locations and information for all sanitary sewers and laterals including elevations within ten days after completion.
- 10. Manhole sections shall have "O" rings in case of wet conditions, larger stone shall be used for bedding.
- 11. Truss Pipe To Have Gasket Type Joints. No Glue Joints Allowed.

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#### STORM SEWERS

- 1. Storm sewer structures shall comply with current specifications of the City, County and all agencies in respect to desugn and quality of construction.
- 2. All storm sewer construction inside public right of way, either existing or to be dedicated, shall be in accordance with General Ordinance 49, 1972. Contractor shall notify the Indianapolis Department of Transportation fourty-eight hours prior to commencement of storm sewer construction.
- 3. Where reinforced concrete pipe is shown on the construction plans it shall be in accordance with A.S.T.M. C-76 Class III Wall "B", unless otherwise specified on the plans.
- 4. Where corrugated metal pipe is shown on the construction plans, it shall be 16 guage unless otherwise specified and shall have the connecting bands and seals as specified by the manufacturer. C.M.P. may be either aluminum pipe or zinc coated steel sheets in accordance with A.S.T.M. A-444.
- 5. Manholes, catchbasins, and inlets may be precast concrete, brick or block.
- 6. Precast concrete and steel for manholes and inlets shall be in accordance with A.S.T.M. C-478.
- 7. Castings shall be as shown on the Structure Data Table for the manufacturer, type, and model number.
- 8. Granular Backfill shall be required for all crossings under pavement areas per D.O.T. Standard 19-01. Granular Backfill shall be compacted per Section 211.

NOTE Section References refer to 1988 IDOH Standard Specifications.

HASP

Development Corporation OFFICE OF HAMILTON COUNTY SURVISION 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219

317/353-6161

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