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 — JH 11-21
- Sum drain lengths & Validate — JDH 10-29
- Enter Improvements into Posse — JDH 10-29
- Enter Drain Age into Posse — JH 11-21
- Sum drain length for Watershed in Posse — JH 11-21
- Stamp Plans — JDH 10-29
- Pull Source Documents for Scanning — JDH 10-29

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Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: BRIDLEWOOD DRAIN - SECTION 2

Drain Type:	Size:	Length (SURVEYORS FINAL REPORT)	Length (DB Query)	Length Reconcile	If Applicable Price:	Cost:
SSD	6"	3,257.96	3,257.96'	ø		
RCP	12"	597'	597'	ø		
	15"	353'	353'	ø		
	18"	253'	253'	ø		
	27"	223'	223'	ø		
	30"	728'	728'	ø		
	36"	473'	473'	ø		
	42"	1183'	1183'	ø		
CMP	24"	25'	25'	ø		
CONCRETE BOX CULVERT	24"	25'	25'	ø		
OPEN DITCH		160'	160'	ø		
Sum:		7,277.96'	7,277.96'	ø		

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, quanity 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 accuring 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.

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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

Kenton C. Ward
Hamilton County Surveyor

FILED
DEC 12 1988
HAMILTON COUNTY DRAINAGE BOARD
SECRETARY

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Irrevocable Letter of Credit

IndianaNational®

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

120300.00

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 [redacted] 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 notify the beneficiary without adding their confirmation.~~

Very truly yours,

Glenda C. Shreman

Advising Bank's Notification

Place/date/name/signature of advising bank.

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. 400

320-6320 Rev. 11-1-88

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ORIGINAL

BRIDLEWOOD Sec. II
Engineers Estimate for:
Drainage

Item No.	Description	Quantity	Unit	Price	Amount
1	Earthwork	5500	C.Y.	$1.70	$9,350.00
2	6" Sub Surface Drains	324	L.F.	$4.00	$1,296.00
3	SSD Access	27	Ea.	$30.00	$810.00
4	12"RCP	575	L.F.	$11.00	$6,325.00
5	15"RCP	353	L.F.	$13.00	$4,589.00
6	18"RCP	253	L.F.	$17.50	$4,427.50
7	27"RCP	223	L.F.	$32.50	$7,247.50
8	30"RCP	713	L.F.	$35.00	$24,955.00
9	36"RCP	473	L.F.	$47.00	$22,231.00
10	42"RCP	1183	L.F.	$52.50	$62,107.50
11	Yard Inlet	13	Ea.	$450.00	$5,850.00
12	Solid Lid Manhole	8	Ea.	$500.00	$4,000.00
13	Curb Inlet	13	Ea.	$450.00	$5,850.00
14	48" Metal End Section	1	Ea.	$225.00	$225.00
15	Rip Rap	6	Tons	$25.00	$150.00
16	Straw Bales	100	Ea.	$1.25	$125.00
17	Grass and Mulch	17600	S.Y.	$0.10	$1,760.00
				TOTAL	$161,298.50

F D
HA BOARD

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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

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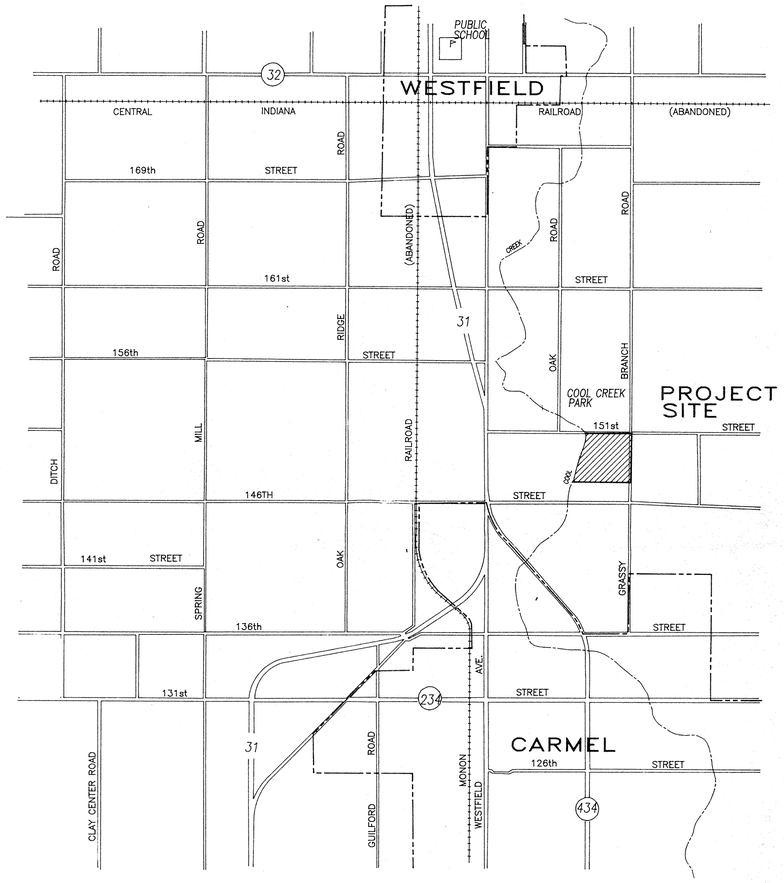
CONSTRUCTIONS PLANS FOR

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:

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

FILED
JUL 19 1994
OFFICE OF HAMILTON COUNTY SURVEYOR

REVISED 6-28-88

ARTHUR L. KASER
REGISTERED LAND SURVEYOR NO. S0529

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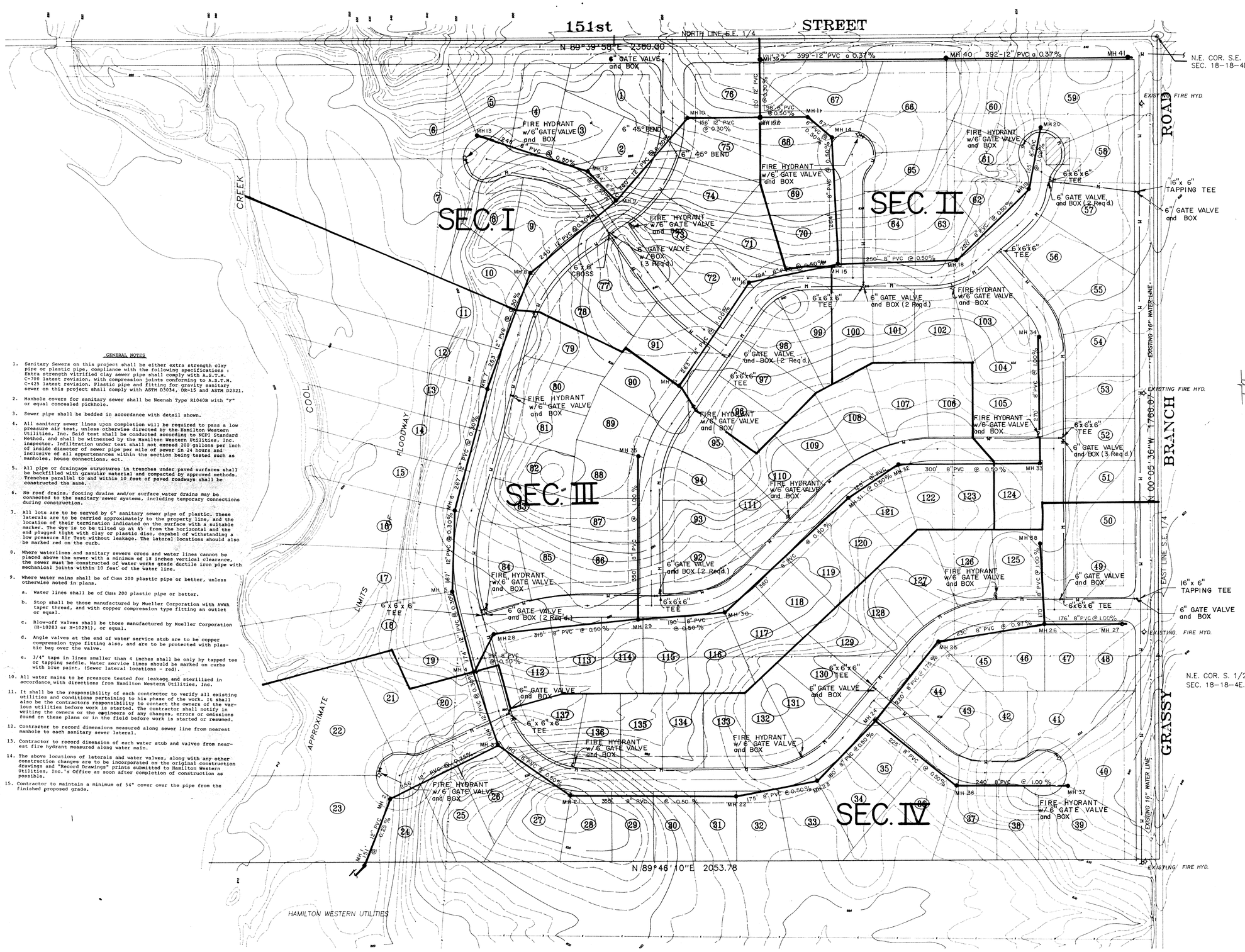


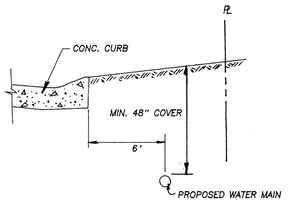
Scale 1" : 100'

-100 -50 0 100 200 300

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.



WATER MAIN LOCATION DETAIL

GENERAL NOTES

1. 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 D3034, DR-15 and ASTM D2321.
2. Manhole covers for sanitary sewer shall be Neenah Type R1040B with "P" or equal concealed pickhole.
3. Sewer pipe shall be bedded in accordance with detail shown.
4. 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 NCPI 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, ect.
5. 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.
6. No roof drains, footing drains and/or surface water drains may be connected to the sanitary sewer systems, including temporary connections during construction.
7. 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 wye is to be tilted up at 45° from the horizontal and the end plugged tight with clay or plastic disc, capabel of withstanding a low pressure Air Test without leakage. The lateral locations should also be marked red on the curb.
8. 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.
9. Where water mains shall be of Class 200 plastic pipe or better, unless otherwise noted in plans.
   a. Water lines shall be of Class 200 plastic pipe or better.
   b. Stop shall be those manufactured by Mueller Corporation with AWWA taper thread, and with copper compression type fitting an outlet or equal.
   c. Blow-off valves shall be those manufactured by Mueller Corporation (H-10283 or H-10291), or equal.
   d. 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.
   e. 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).
10. All water mains to be pressure tested for leakage and sterilized in accordance with directions from Hamilton Western Utilities, Inc.
11. 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 contractors 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.
12. Contractor to record dimensions measured along sewer line from nearest manhole to each sanitary sewer lateral.
13. Contractor to record dimension of each water stub and valves from nearest fire hydrant measured along water main.
14. 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.
15. 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 4/6/88

Kent F. Schuch P.E. No. 17226

Sanitary sewer plans prepared by:

Arthur L. Kaser

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

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

DATES AND REVISIONS	TITLE			
1-5-88 ADDED MH 40 & MH 41 DTP 8-8-88 MOVED WATER LINE IN CUL-DE-SACS	MASTER SEWER & WATER PLAN BRIDLEWOOD			
	DESIGN BY ALK	DRAWN BY HASP	CHECKED	APPROVED

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

FILED JUL 19 1988 OFFICE OF HAMILTON COUNTY SURVEYOR

DATE	Dec., 1988
JOB NO.	87'-84
SCALE	1"=100'
SHEET NO.	3 of 12

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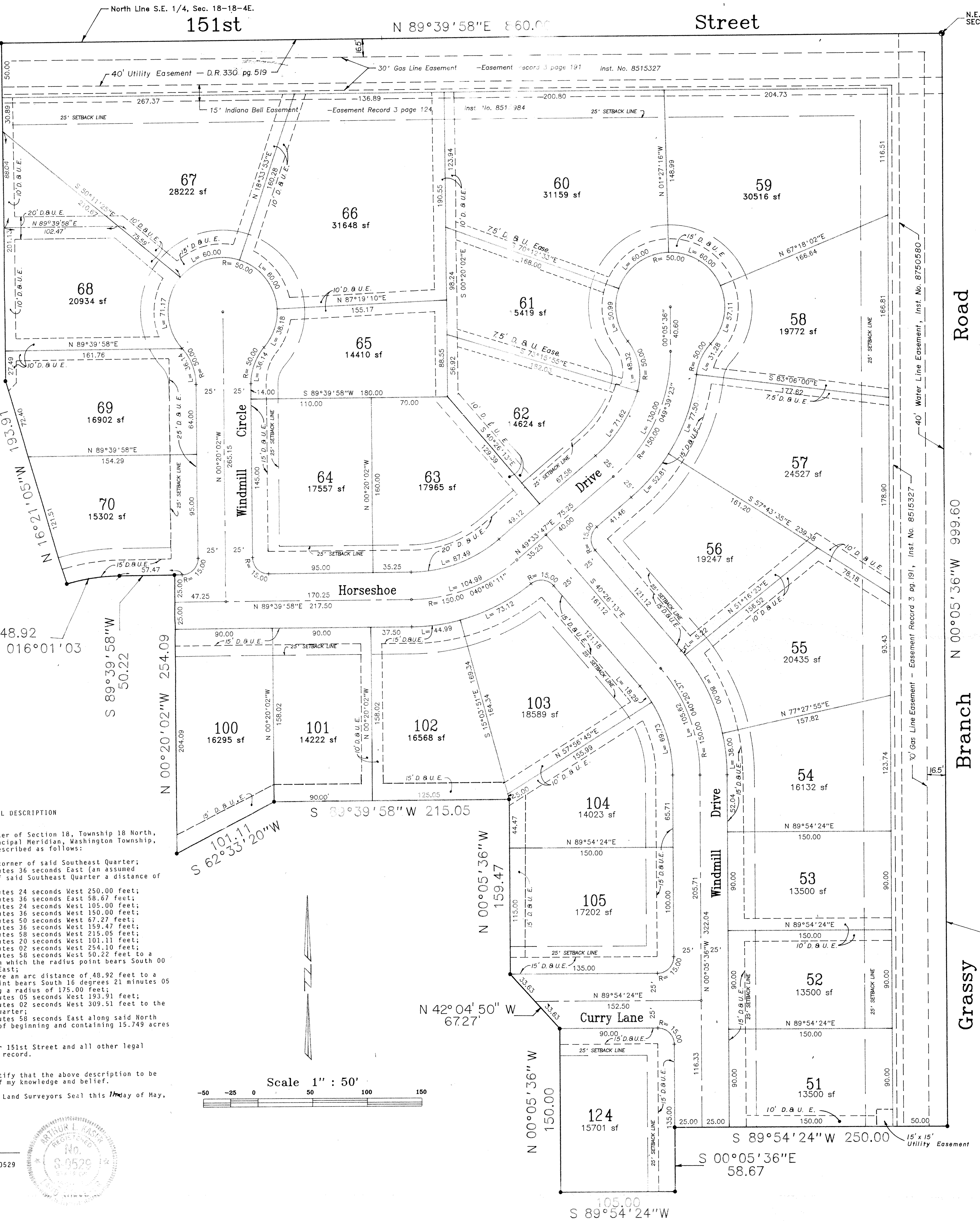
BRIDLEWOOD SEC. II



COVENANTS and RESTRICTIONS

The undersigned, R. N. THOMPSON & ASSOCIATES, INC., an Indiana Corporation, owner of the within described Real Estate, do hereby lay off, plat and subdivide the same into lots, public ways and easements in accordance with the plat and description.

1. The foregoing plat shall be known and designated as BRIDLEWOOD SECTION II.
2. All numbered lots in this subdivision are reserved for residential purposes only
3. All streets shown and not heretofore dedicated are hereby dedicated to the public for its use.
4. No water of any type other than sanitary sewage effluent shall be permitted to flow in the sanitary sewer system; that is to say, no basement drains or roof drains or other sources of non-sanitary water or liquids, either during or after construction shall be permitted to flow into the sanitary sewer system.
5. Building lines on the plat measured in feet from the street property line are hereby established between which line and the street property line there shall be erected or maintained no building structure of any kind or part thereof.
6. Sideyard setback lines shall be not less than ten (10) feet from the side line of the lot.
7. The rear setback line shall be not less than thirty (30) feet from the rear property line.
8. No residence shall be erected or maintained on any lot in this subdivision having a finish floor area, exclusive of open porches, basements and attached garages, of less than 1500 square feet in the case of one-story structures and 900 square feet in the case of higher structures.
9. No fence, wall, hedge or shrub planting which obstructs site lines at elevations between 2 and 6 feet above the street shall be placed or permitted to remain in the triangular area formed by street property lines and a line connecting points 25 feet from the intersection of said street lines, The same site line limitation shall apply to any lot within 10 feet of the intersection of the street line with the edge of the driveway. No trees shall be permitted to remain within such distances of such intersections unless the foilage line is maintained at sufficent height to prevent obstruction of site lines.
10. All utility service to the Real Estate shall be extented underground with only such installations above ground as are required in accordance with the underground extensions thereof. Nothing contained herein shall require the removal of above ground utility service installations existing on the Real Estate as of the date of the execution of these commitments and installed prior to the development of the Real Estate.
11. Architectural Design and Environmental Control: No building, fence, walls or other structure shall be erected, placed and altered on any buiiding lot in this Subdivision until the building plans, specifications and plot plan showing the location of such structures have been approved as to the conformity and harmony of external design with existing structure herein and as to the building with respect to topography and finished ground elevations by an Architectural and Environmental Control Committee. The destruction of trees and vegetation and any other such matter as may affect the environment and ecology of the "Bridlewood" area shall be the proper concern of the Committee. This Committee shall be composed of the undersigned owners of the herein described real estate, or by their duly authorized representatives. The Committee's approval, or disapproval, as required in this covenant shall be in writing, In the event that said written approval is not received from the Committee within 14 days from the sate of submission, it shall be deemed that the Committee had approved the presented plan. Neither the Committee members nor the designated representatives shall be entitled to any compensation for services performed pursuan to this covenant.
12. Violation or threatened violation of these covenants and restrictions shall be ground for an action by Developer, any person or entity having any right, title or interest in the Real Estate (or any part thereof), or any persons or entity having any right, title or interes in a lot in the Subdivision and all persons or entities claiming under them, against the person or entity violating or threating to violate any such covenants or restrictions. Available relief in any such action shall include recovery of damages or other sums due for such violation, declaratory relief, and the recovery of costs and attorneys' fees incurred by any party successfully enforcing these covenants and restrictions; provided, however, that the Developer shall be liable for damages of any kind to any person for failing to enforce or carry out such covenants or restrictions.
13. There are strips of ground as shown on the plat marked as drainage and/or utility easements which are reserved as easements for the use of the municipality in which this addition is located and public utility companies for the installation, maintenance, use, repair and removal of sewers, water mains, gas mains, utility poles, wires and othe facilities and utilities necessary or incident to the common welfare and the ues and occupance of residential purposes of the houses to be erected in this addition. No buildings or other structure except walks or driveways shall be erected or maintained upon, over, under or across any such utility strip for any use except as set forth herein and owners in this addition shall take title to the land contained in such utility strips subject to the perpetual easements hereby reserved.
14. If the parties hereto, or any of them, their heirs, or assigns shall violate or attempt to violate any of the covenants, restrictions, provisions, terms or conditions herein, it shall be lawful for any person, owning real estate in this subdivision, to prosecute any proceeding at law or in equity against any persons violating or attempting to violate any such covenants and to recover damages or other remidies for such violations.
15. The restrictions, covenants and provisions set forth herein shall run with the land and shall remain in full force and effect untill January 1, 2010, at which time said covenants shall automatically be extended for successive periods of ten (10) years, unless by vote of a majority of the then owners of said lots in this subdivision it is agreed to change said covenants in whole or in part.
16. The invalidity of any of the foregoing covenants, restrictions, provisions, terms or conditions by judgement or court order shall in no wise affect any of the other provisions which shall remain in full force and effect.
17. The owner of this subdivision, R. N. THOMPSON & ASSOCIATES, or any person to whom the right of such approval has been assigned by Owner, reserve the right to review and approve or reject any and all house plans so as to maintain conformity and harmony of external design and location with existing structures in the subdivision and as to the topography and finished ground elevations of such lot; PROVIDED, however that such requirement shall be conclusively deemed satisfied for all purposes if any such building or alteration is substantially completed without the filing by Owner or any such assignee of an action to enjion such building or alteration. The requirements set forth in this paragraph may be assigned only in writing by Owner to any person or entity and may be waived in writing by Owner to any successor or assign with respect to any lot or lots.

In witness whereof, R. N. THOMPSON & ASSOCIATES, INC, BY R.N. THOMPSON, PRESIDENT, AS HEREUNTO CAUSED HIS NAME TO BE SUBSCRIBED THIS 11TH DAY OF MAY, 1988.

R. N. THOMPSON & ASSOCIATES

R. N. Thompson, President

STATE OF INDIANA)
)SS:
COUNTY OF MARION)

Before me, the undersigned, a Notary Public in and for said County and State, personally appeared R. N. Thompson and Associates, Inc., by R. N. Thompson, President who aknowledged the execution of the foregoing instrument as its voluntary act and deed, for the purposes therein expressd, and affixed his signature thereto.
Witness my hand and Notarial Seal this 11 day of MAY, 1988.

Judy K. Seeley

My Commission Expires : APRIL 6, 1990
Notary resides in Marion County

LEGAL DESCRIPTION

A part of the Southeast Quarter of Section 18, Township 18 North, Range 4 East of the Second Principal Meridian, Washington Township, Hamilton County, Indiana and described as follows:

Beginning at the Northeast corner of said Southeast Quarter; thence South 00 degrees 05 minutes 36 seconds East (an assumed bearing) along the East line of said Southeast Quarter a distance of 999.60 feet;
thence South 89 degrees 54 minutes 24 seconds West 250.00 feet;
thence South 00 degrees 05 minutes 36 seconds East 58.67 feet;
thence South 89 degrees 54 minutes 24 seconds West 105.00 feet;
thence North 00 degrees 05 minutes 36 seconds West 150.00 feet;
thence North 42 degrees 04 minutes 50 seconds West 67.27 feet;
thence North 00 degrees 05 minutes 36 seconds West 159.47 feet;
thence South 89 degrees 39 minutes 58 seconds West 215.05 feet;
thence South 62 degrees 33 minutes 20 seconds West 101.11 feet;
thence North 00 degrees 20 minutes 02 seconds West 254.10 feet;
thence South 89 degrees 39 minutes 58 seconds West 50.22 feet to a tangent curve to the left, from which the radius point bears South 00 degrees 20 minutes 02 seconds East;
thence Westerly along said curve an arc distance of 48.92 feet to a point from which the radius point bears South 16 degrees 21 minutes 05 seconds East, said curve having a radius of 175.00 feet;
thence North 16 degrees 21 minutes 05 seconds West 193.91 feet;
thence North 00 degrees 20 minutes 02 seconds West 309.51 feet to the North line of said Southeast Quarter;
thence North 89 degrees 39 minutes 58 seconds East along said North line 860.00 feet to the point of beginning and containing 15.749 acres more or less.

Subject to the right of way for 151st Street and all other legal easements and rights of way or record.

I, the undersigned, hereby certify that the above description to be true and correct to the best of my knowledge and belief.

WITNESS my hand and Registered Land Surveyors Seal this 11th day of May, 1988.

Arthur L. Kaser
Registered Land Surveyor No. S0529

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

PLAN COMMISSION CERTIFICATE

UNDER AUTHORITY PROVIDED BY TITLE 36, ARTICLE 7, CHAPTER 4, ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF INDIANA, AND ALL ACTS AMENDATORY THERETO, AND AN ORDINANCE ADOPTED BY THE TOWN BOARD OF TRUSTEES OF THE TOWN OF WESTFIELD, INDIANA AS FOLLOWS :

APPROVED BY THE WESTFIELD-WASHINGTON TOWNSHIP PLAN COMMISSION AT A MEETING HELD May 23, 1988.

WESTFIELD-WASHINGTON TOWNSHIP PLAN COMMISSION

PRESIDENT

SECRETARY

COUNTY COMMISSIONERS' CERTIFICATE

UNDER AUTHORITY PROVIDED BY TITLE 36, ARTICLE 7, CHAPTER 3, ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF INDIANA, AND ALL ACTS AMENDATORY OR SUPPLEMEMTARY THERETO. THIS PLAT WAS GIVEN APPROVAL BY THE BOARD OF COMMISSIONERS OF COUNTY OF HAMILTON, AT A MEETING HELD ON 12/5/88.

Peg L. Goldberg

Jere Roudebush

Phil Henderson

ATTEST Polly Pearce
County Auditor

DULY ENTERED FOR TAXATION
Subject to final acceptance for transfer
7 day December 19 88
Polly Pearce Auditor Hamilton County
Parcel # 10-18-00-00-043.001

8826060
RECEIVED FOR RECORD
DEC 7 8 45 AM '88
SHARON K. CHERRY RECORDER HAMILTON CO. IN
Book 16 pg 92

FILED
JUL 19 1991
OFFICE OF HAMILTON COUNTY SURVEYOR

This Instrument Prepared By Arthur L. Kaser L.S.

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

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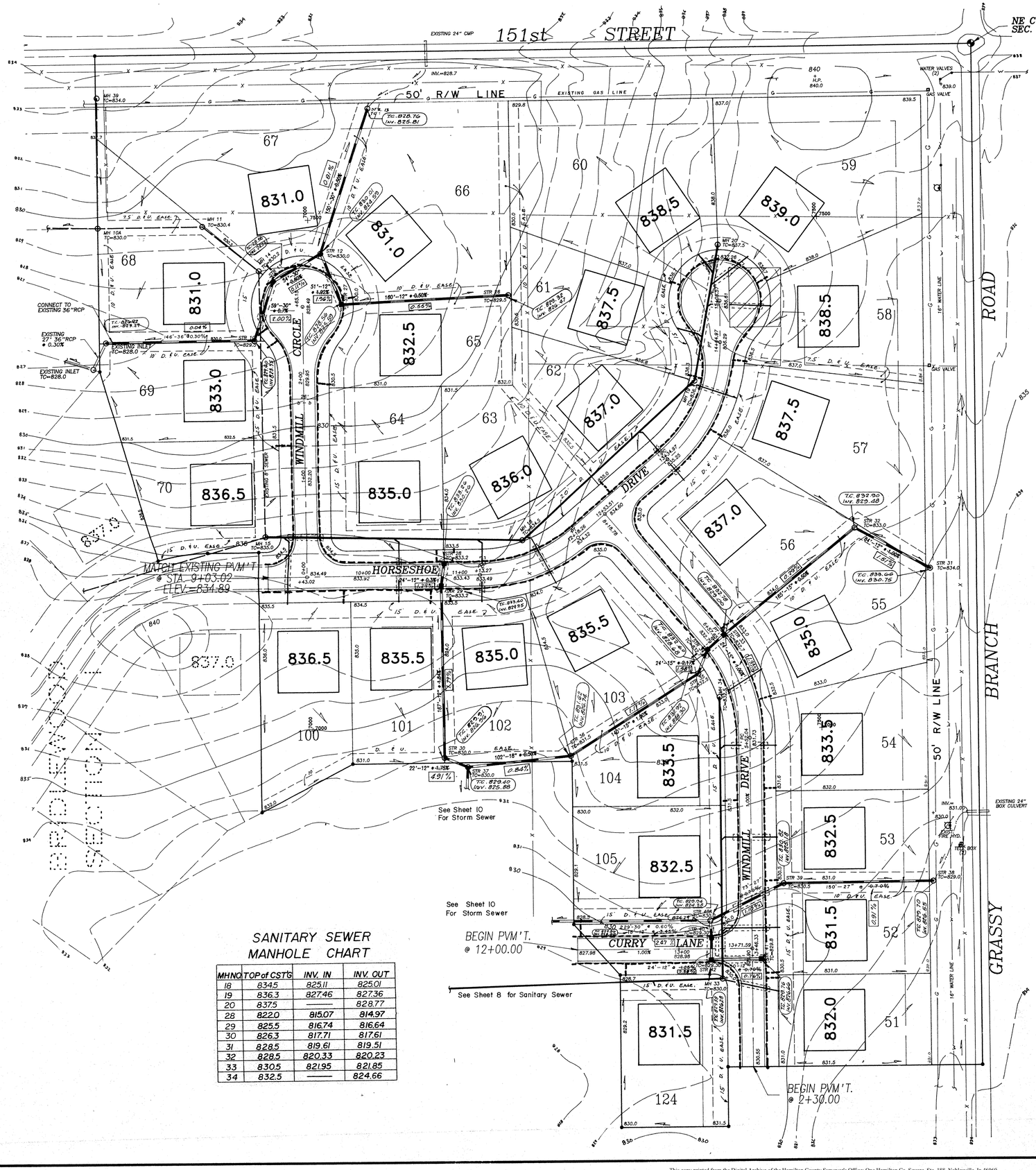

LEGEND

- 9½" 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	29.75	33.5
26	Yard Inlet	R-4342	2.40	1.20
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	834.5	825.11	825.01
19	836.3	827.46	827.36
20	837.5	—	828.77
28	822.0	815.07	814.97
29	825.5	816.74	816.64
30	826.3	817.71	817.61
31	828.5	819.61	819.51
32	828.5	820.33	820.23
33	830.5	821.95	821.85
34	832.5	—	824.66

"AS-BUILTS"
MAY, 1989

(833.50) - As-Built T.C. or Inv. El.

[0.75%] - As-Built % Slope

825.50 or 0.63% - As-Built-Consistant With Design.

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

12-1-88 REV. PIPE SIZE BETWEEN STR. 8 & 9
REVISED 6-28-88

FILED JUL 19 1989 OFFICE OF HAMILTON COUNTY SURVEYOR

TITLE			
SITE PLAN BRIDLEWOOD SEC. II			
DESIGN BY ALK	DRAWN BY HASP	CHECKED	APPROVED

Evergreen Planners, Inc.
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

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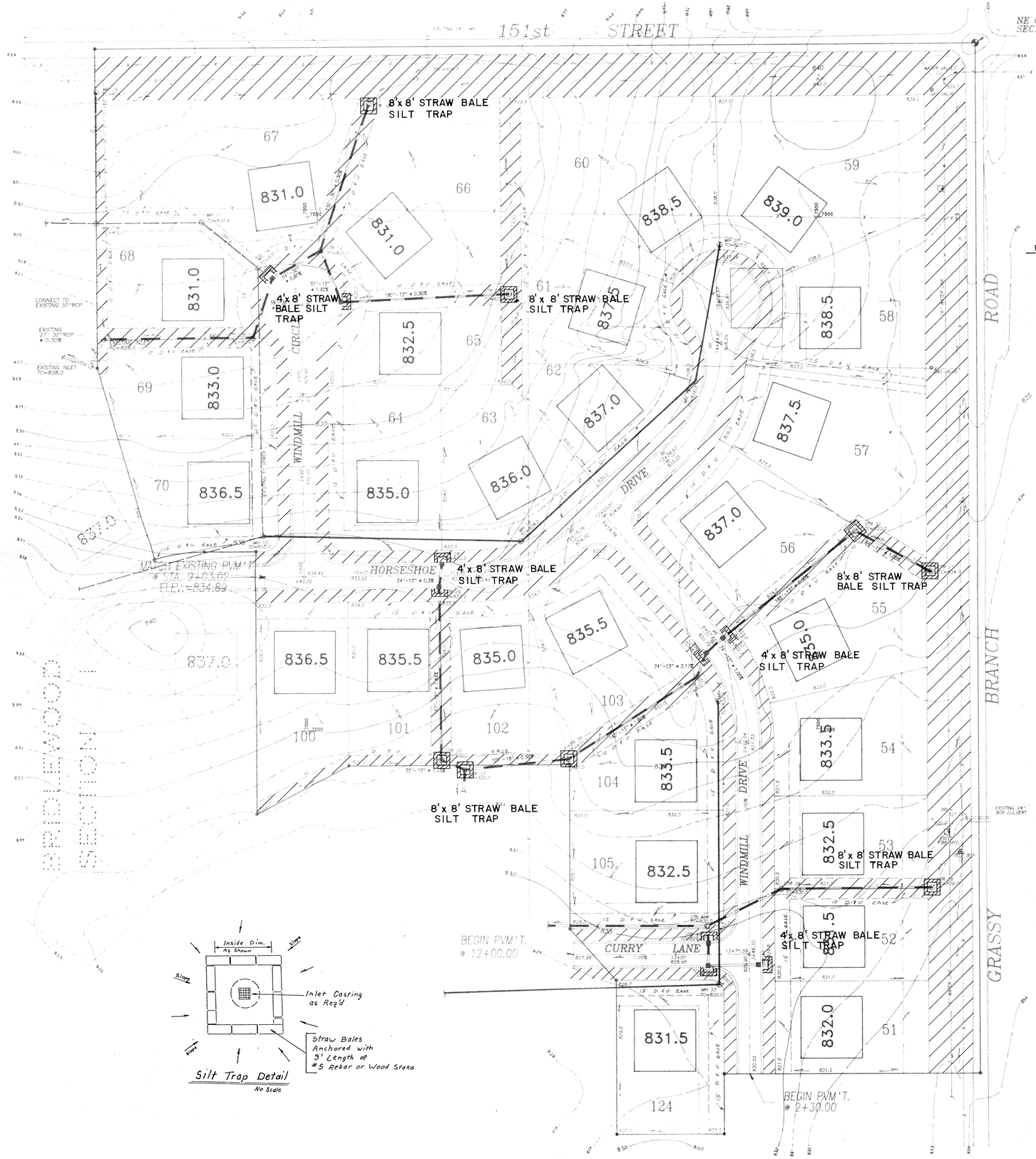


LEGEND

- STRAW BALE SILT TRAP (SIZE AS INDICATED)
- AREA TO BE SEEDED w/ANNUAL RYE GRASS AND MULCHED
- AREA TO BE SODDED

ALL OTHER DISTURBED AREAS TO BE SEEDED WITH WHEAT OR RYE

SEEDING SPECIFICATIONS:

1. 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)

2. 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.

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.

2. 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.

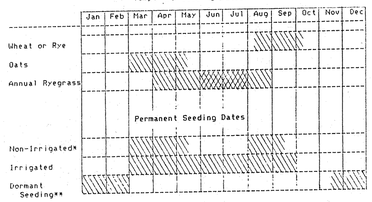
3. Contractor shall control mud accumulation on all streets surrounding the project by installing stone surface at all locations where construction traffic leaves the site. Dust shall be kept to a minimum by utilizing sprinkling, calcium chloride, vegetative cover, spray on additives or other approved methods.

4. Maintain al 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.

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.

Temporary Seeding Dates

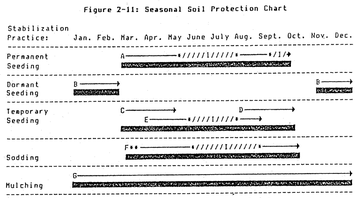


Irrigation needed during this period. To control erosion at times other than in the shaded areas, use mulch.

* Late summer seeding dates may be extended 5 days if mulch is applied.

** Increase seeding application by 50%.

Figure 2-11: Seasonal Soil Protection Chart



A = Kentucky Bluegrass 40 lbs/acre; Creeping Red Fescue 40 lbs/acre; plus 2 tons straw mulch/acre, or add Annual Ryegrass 20 lbs/acre.

B = Kentucky Bluegrass 60 lbs/acre; Creeping Red Fescue 60 lbs/acre; plus 2 tons straw mulch/acre, or add Annual Ryegrass 30 lbs/acre.

C = Spring Oats 3 bushel/acre.

D = Wheat or Rye 2 bushel/acre.

E = Annual Ryegrass 40 lbs/acre. (1 lb/1000 sq. ft.)

F = Sod

G = Straw Mulch 2 tons/acre.

\#/1/* Irrigation needed during June, July, and/or Septeaber.

** Irrigation needed for 2 to 3 weeks after applying sod.

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

Arthur L. Kaiser

TITLE	BRIDLEWOOD SEC. II EROSION CONTROL PLAN			
DESIGN BY	DRAWN BY	CHECKED	APPROVED	
ALK	HASP			

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

FILED JUL 19 1991 OFFICE OF HAMILTON COUNTY SURVEYOR

DATE	May 10, 1988
JOB NO.	87-84
SCALE	1" = 50'
SHEET NO.	5 of 15

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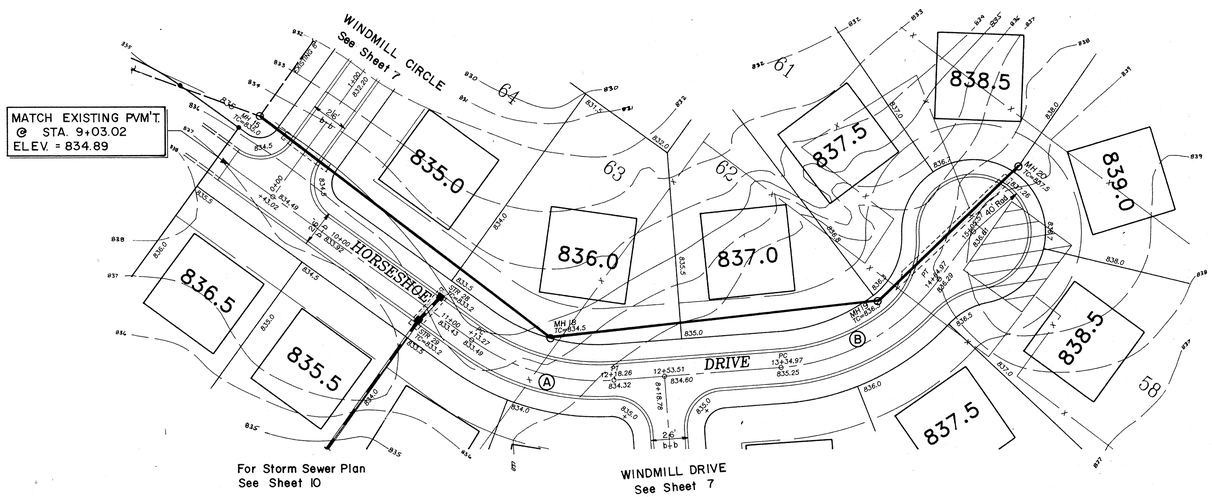
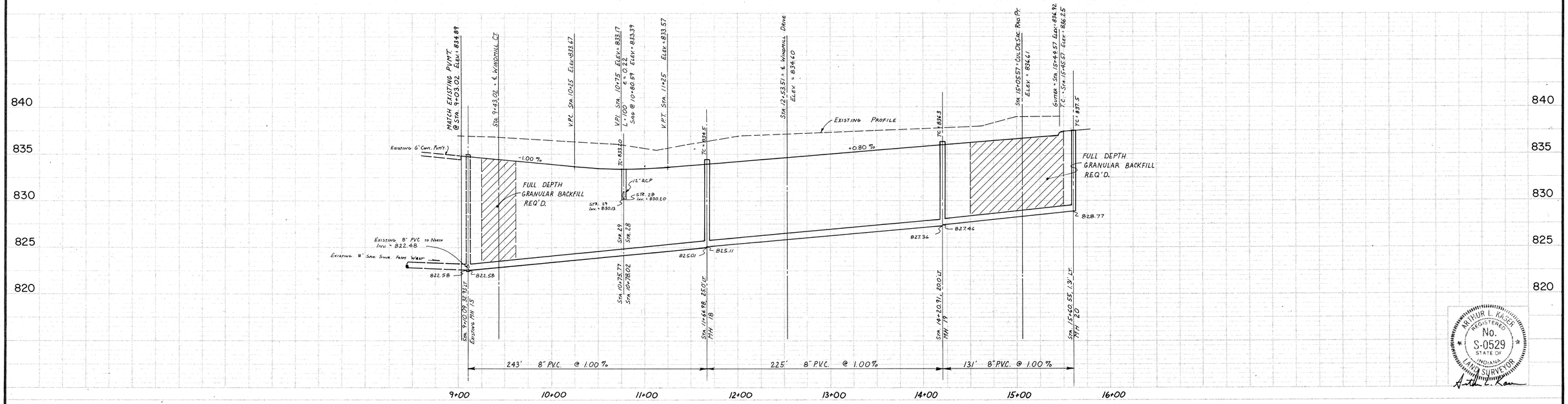


℄ CURVE DATA

(A)	R = 150.00' L = 104.99'	Δ = 40° 06' 11" T = 54.75'
(B)	R = 150.00' L = 130.00'	Δ = 49° 39' 23" T = 69.40'

HORSESHOE DRIVE

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



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

DATES AND REVISIONS	TITLE BRIDLEWOOD SEC. II Horseshoe Drive				Evergreen Planners, Inc. 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
						SHEET NO. 6 of 15

FILED JUL 19 1991 OFFICE OF HAMILTON COUNTY SURVEYOR

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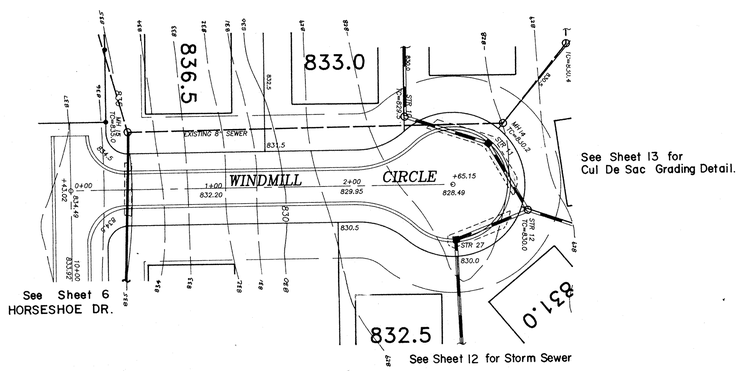
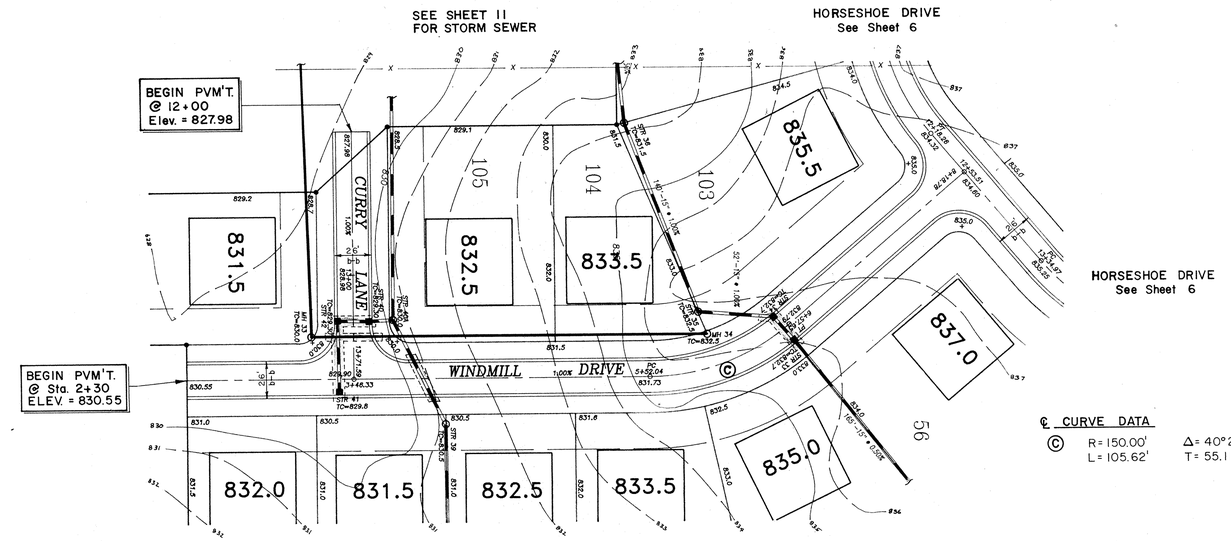


WINDMILL CIRCLE

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

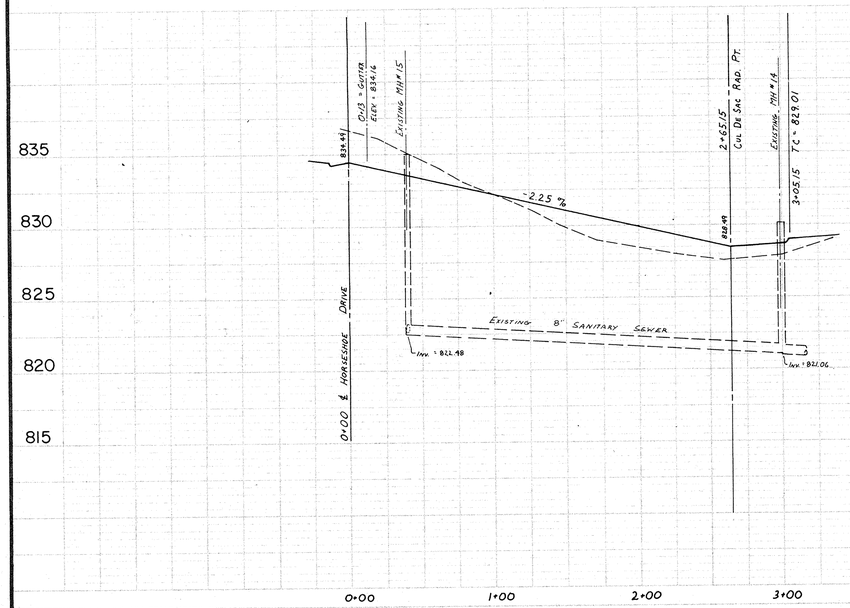


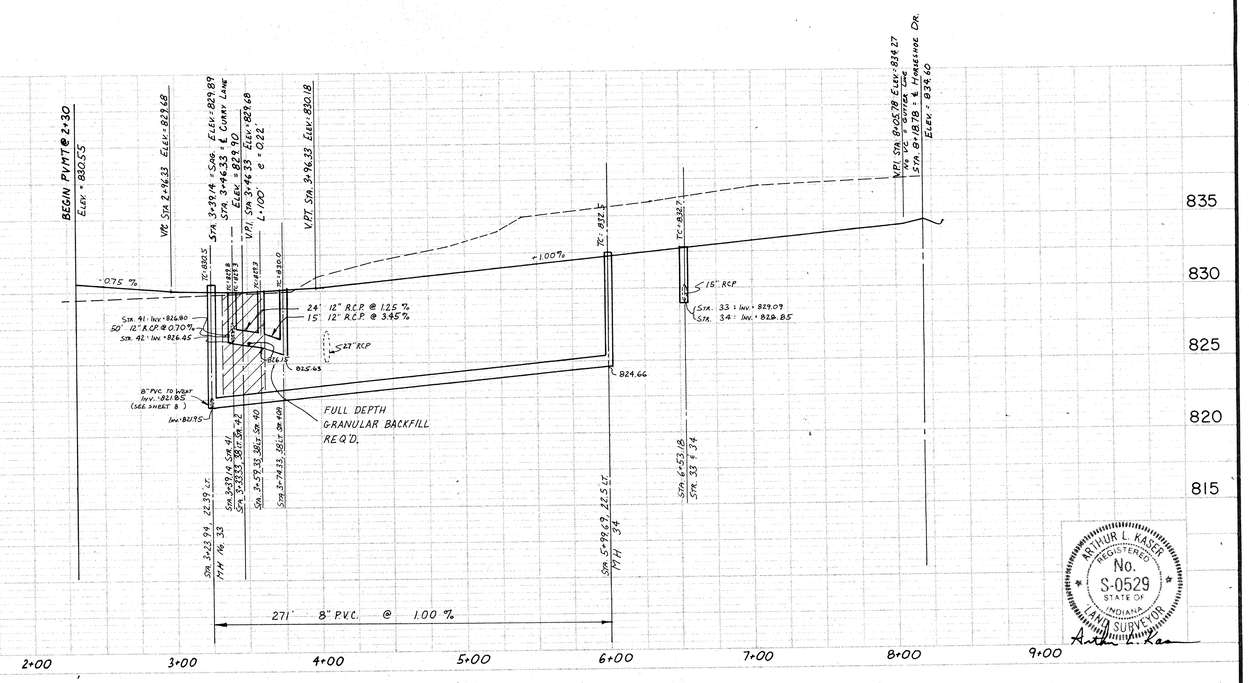
℄ CURVE DATA

Ⓒ R = 150.00' Δ = 40°21' 37"
L = 105.62' T = 55.11'

WINDMILL DRIVE

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





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

DATES AND REVISIONS	TITLE BRIDLEWOOD SEC. II Windmill Circle & Windmill Drive	Evergreen Planners, Inc. 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

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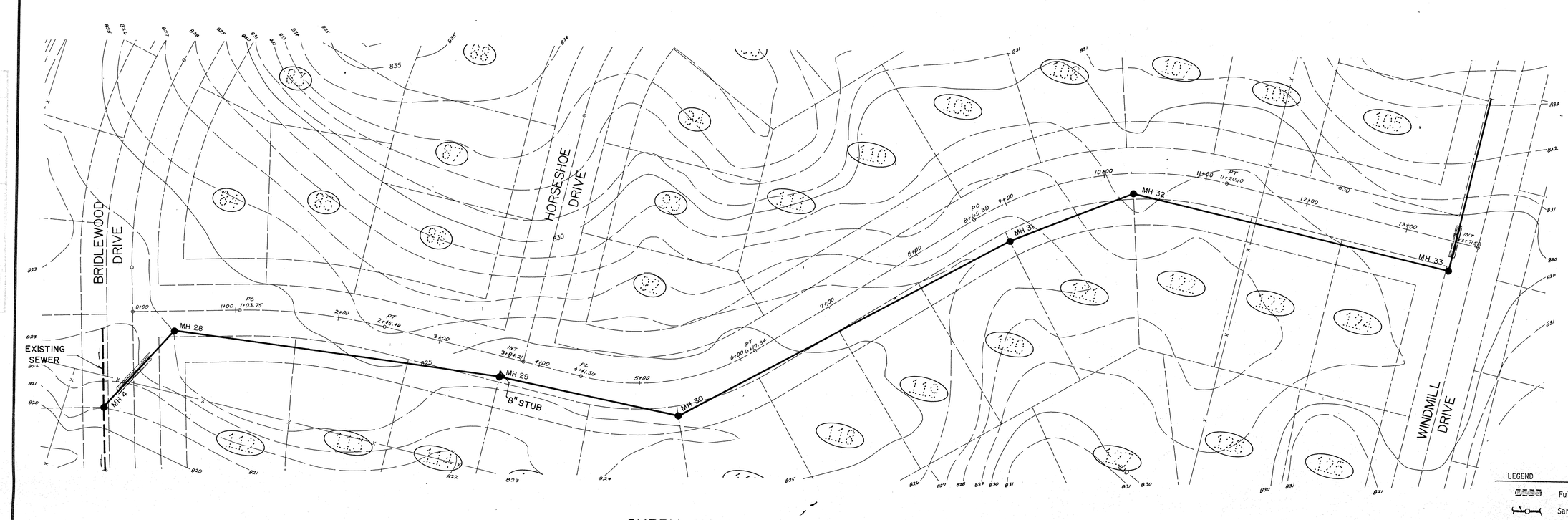
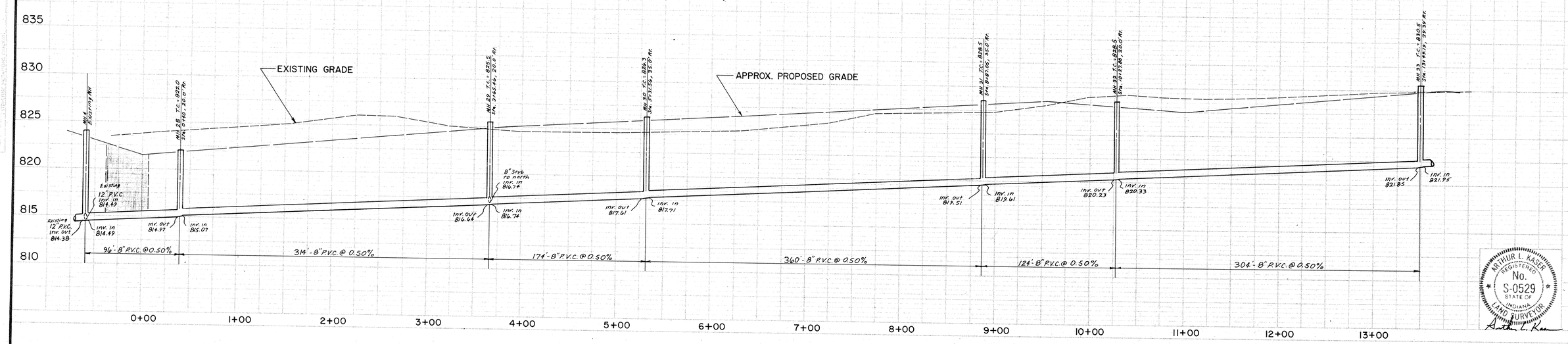


LEGEND

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



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

DATES AND REVISIONS	TITLE CURRY LANE SANITARY SEWER BRIDLEWOOD				Evergreen Planners, Inc. 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219 317/353-6161	DATE APRIL 27, 1988
	DESIGN BY ALK	DRAWN BY HASP/DTP	CHECKED	APPROVED		JOB NO. 87-84
						SCALE HORIZ.: 1" = 50' VERT.: 1" = 5'
						SHEET NO. 8 of 15

FILED JUL 19 1991 OFFICE OF HAMILTON COUNTY SURVEYOR

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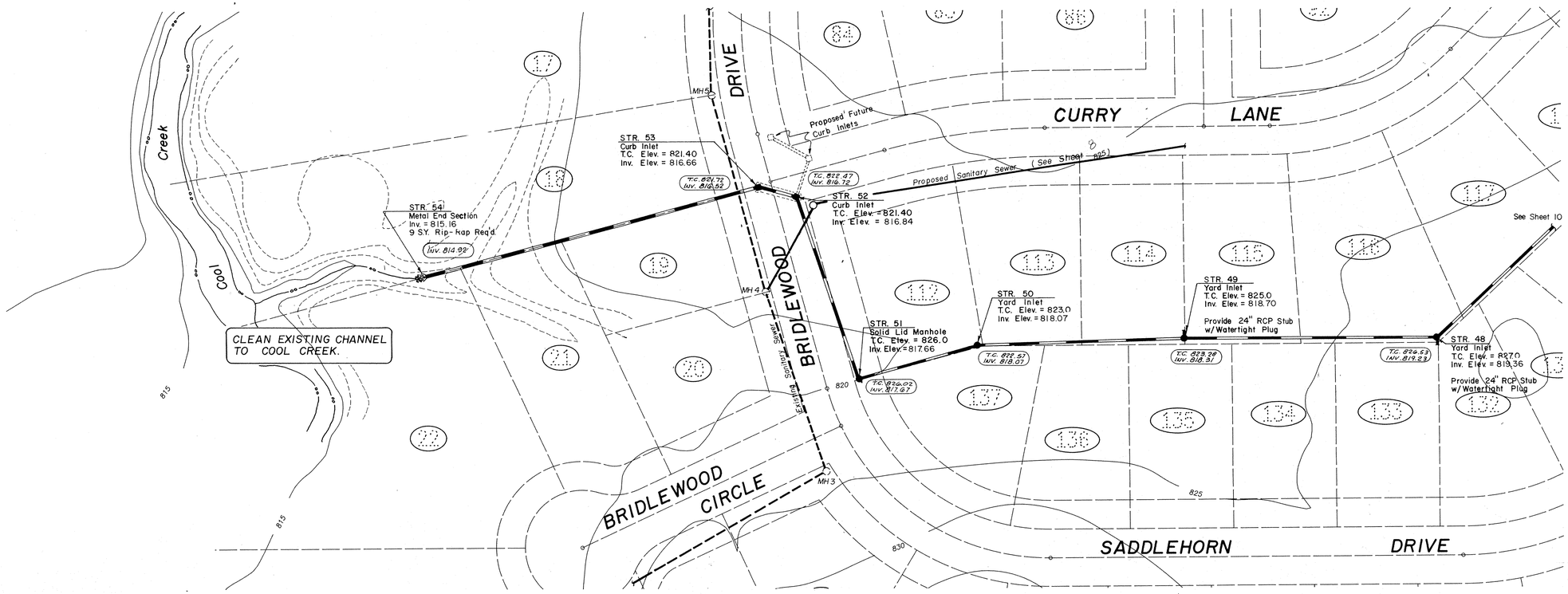
STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IND.				



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

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Entry Date: 10-29-03

Entered by: JDH

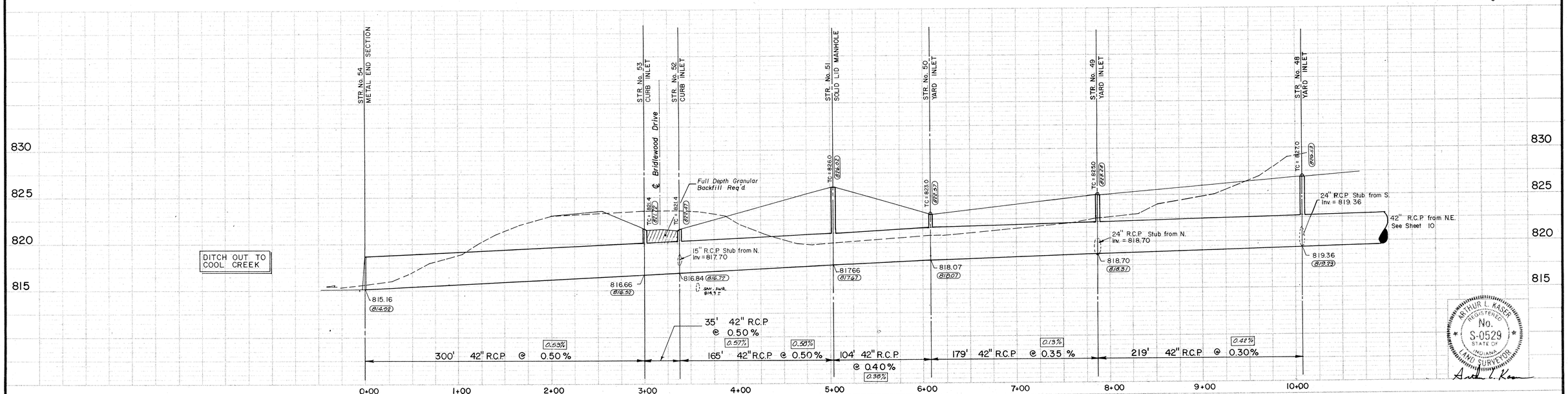
HAMILTON COUNTY INDIANA

"AS-BUILTS"

(839.50) - As-Built T.C. on Inv. El.

0.75% - As-Built % Slope

825.59 on 0.63% - As-Built-Consistant With Design.



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

DATES AND REVISIONS	TITLE STORM SEWER - STR'S. 48 thru 54 BRIDLEWOOD				DATE April 27, 1988
	DESIGN BY ALK	DRAWN BY ALK	CHECKED	APPROVED	JOB NO. 87-84
					SCALE 1" = 50'
					SHEET NO. 9 of 15

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

JUL 19 1991
OFFICE OF HAMILTON COUNTY SURVEYOR

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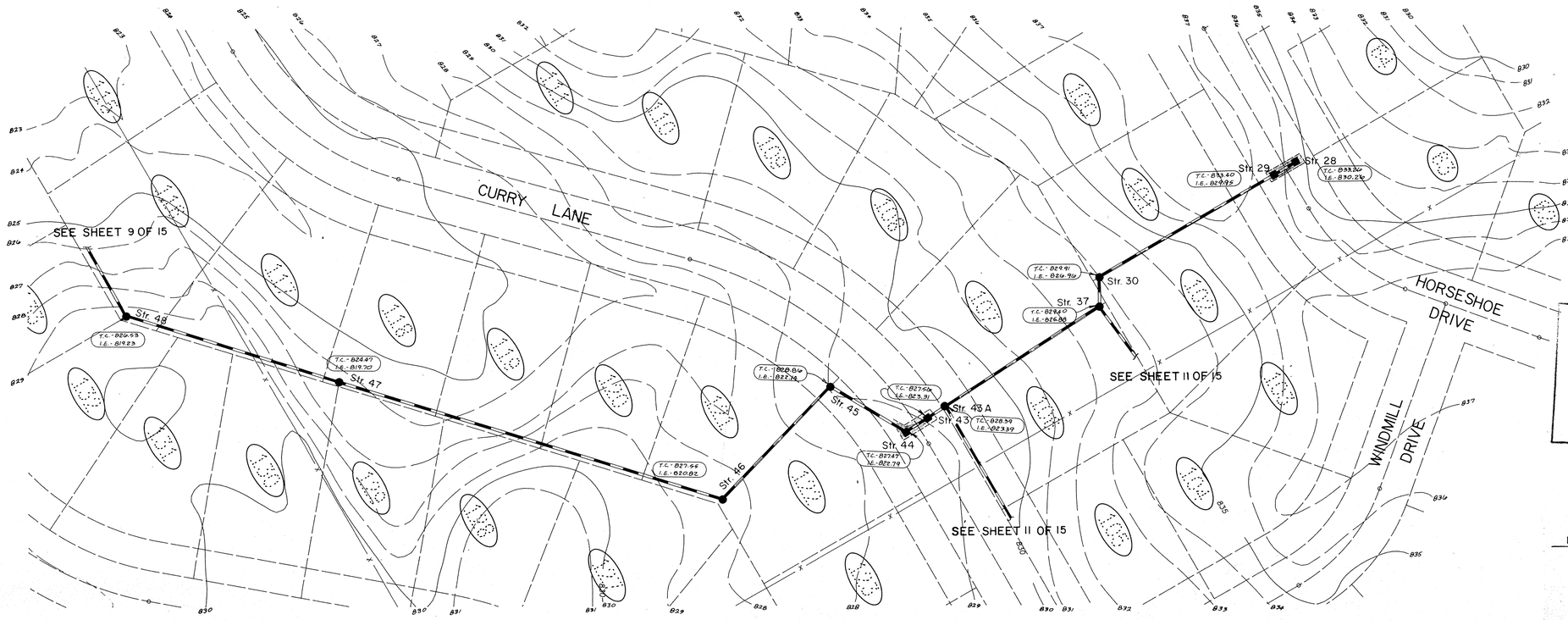

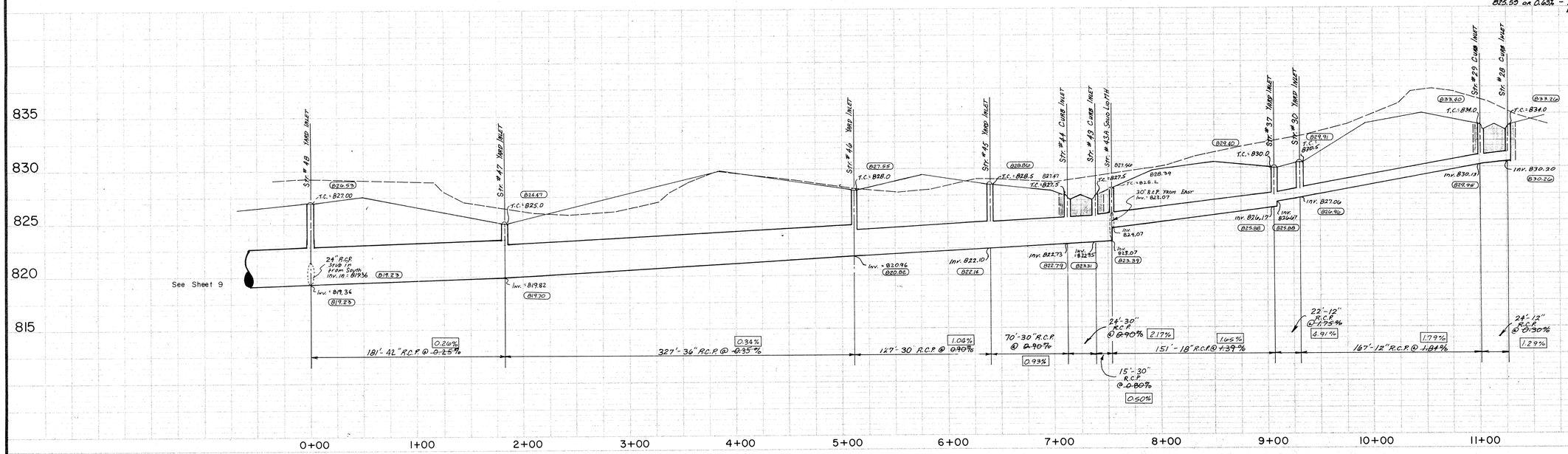

HAMILTON COUNTY INDIANA 1823

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: JDH

"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 T.C. or Inv. El.
- 0.75% – As-Built % Slope
- 825.55 or 0.63% – As-Built-Consistant With Design.

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

FILED JUL 19 1991 OFFICE OF HAMILTON COUNTY SURVEYOR

DATES AND REVISIONS	TITLE STORM STRS 28-30,37,43-48 BRIDLEWOOD				DATE APRIL 28, 1988
	DESIGN BY ALK	DRAWN BY HASP/DTP	CHECKED	APPROVED	JOB NO 87-84
					SCALE HORIZ. 1" = 50' VERT. 1" = 5'
					SHEET NO. 10 of 15

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

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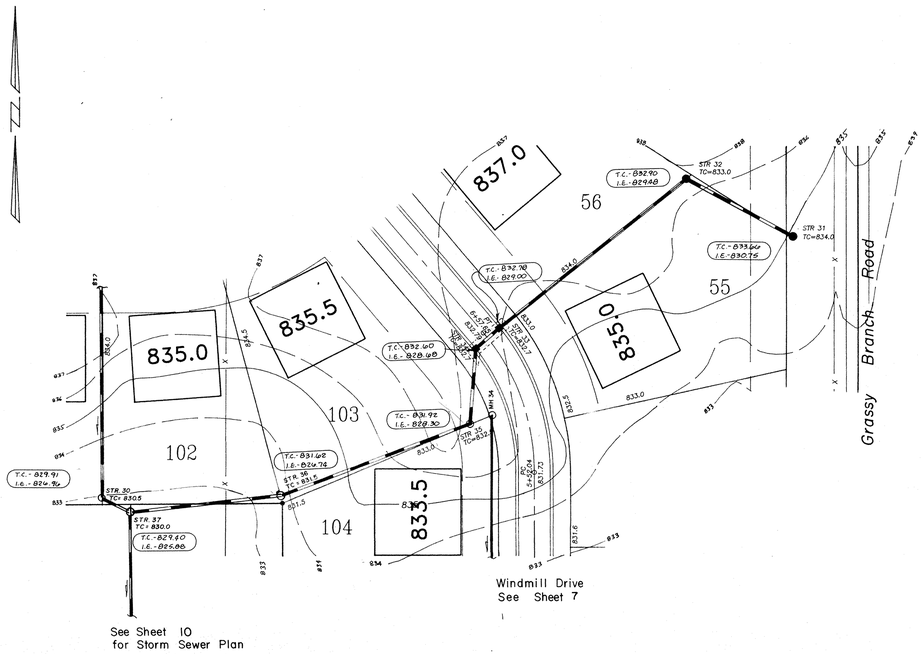
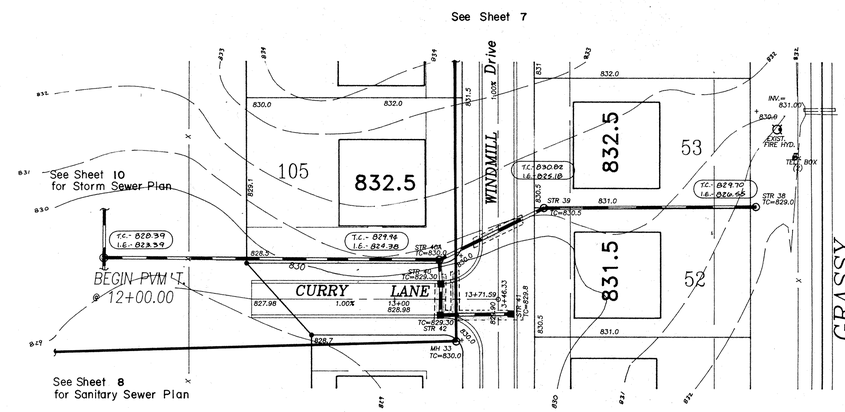
STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IND.				





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

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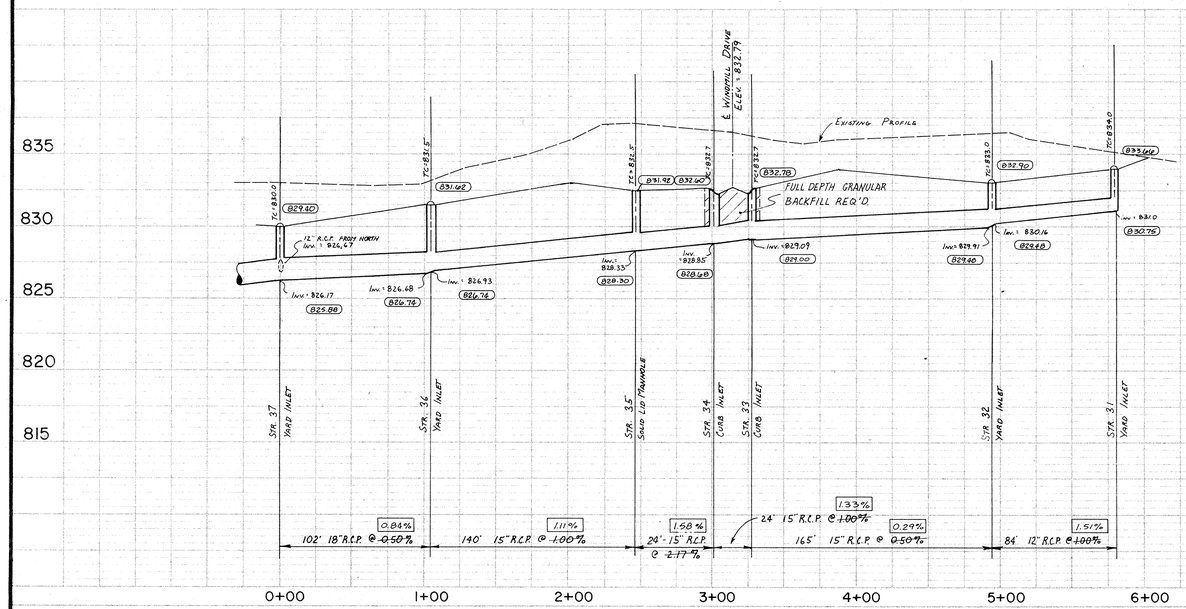
Entry Date: 10-29-03

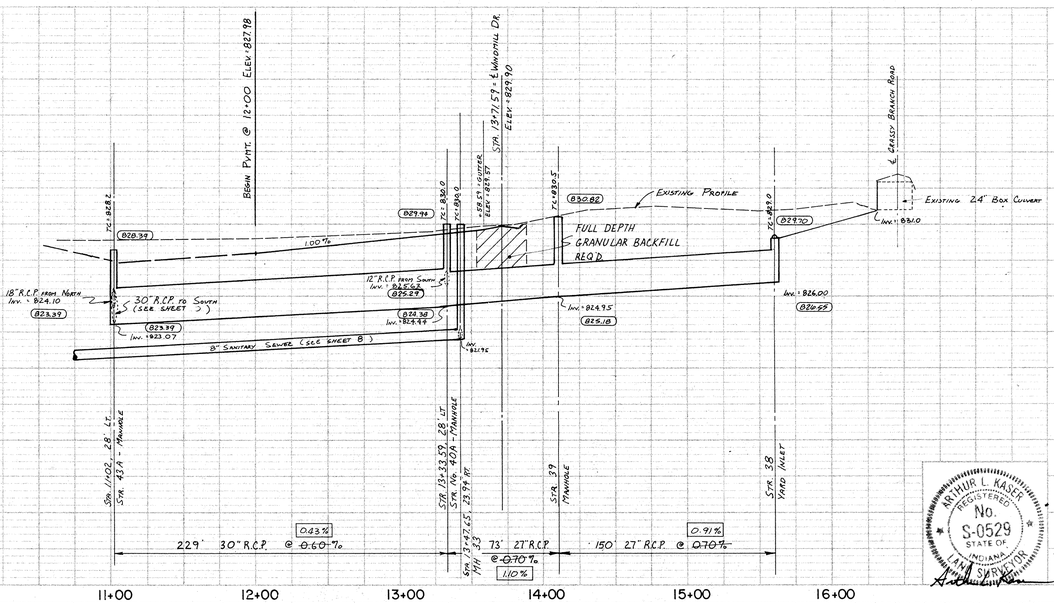
Entered by: JDH

"AS-BUILT"

(839.50) - As-Built T.C. or Inv. El.

(0.75%) - As-Built % Slope
825.50 or 0.63% - As-Built-Consistant With Design.





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

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

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

FILED JUL 19 1991 OFFICE OF HAMILTON COUNTY SURVEYOR

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

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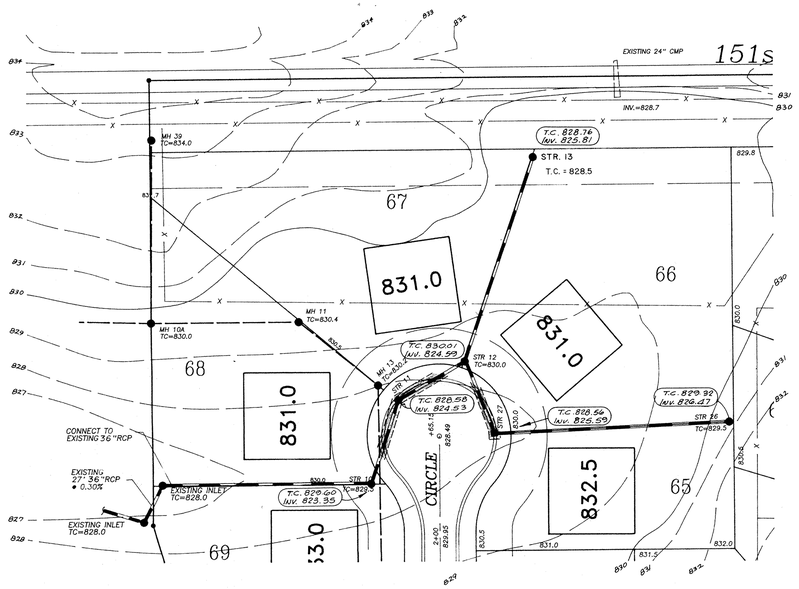


WINDMILL CIRCLE

See Sheet 7

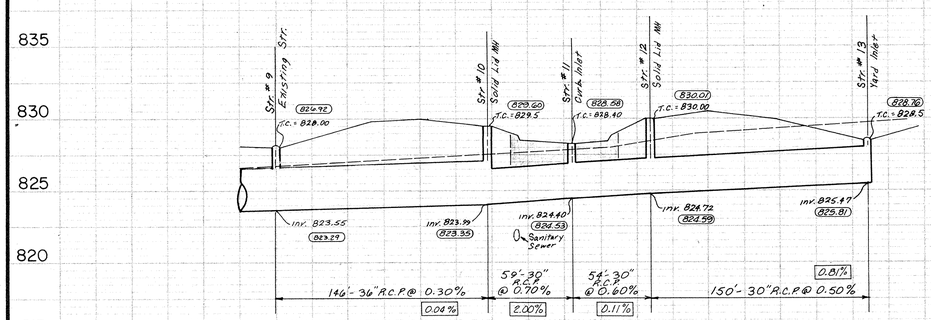
(839.50) - As-Built T.C. or Inv. El.

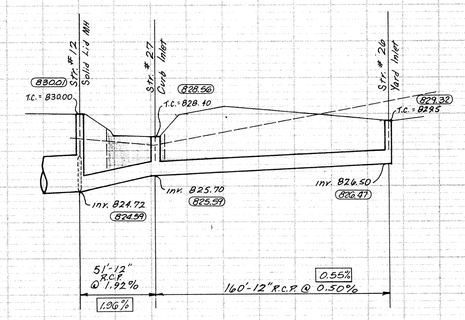
0.75% - As-Built % Slope

825.50 or 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.





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Entry Date: 10-29-03

Entered by: JDH

"AS-BUILT"

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

FILED JUL 19 1991 OFFICE OF HAMILTON COUNTY SURVEYOR

DATES AND REVISIONS	TITLE STORM STRS. 9-13, 26-27 BRIDLEWOOD				DATE APRIL 28, 1988
12-1-88 REV. PIPE SIZE BETWEEN STR. 8+9	DESIGN BY ALK	DRAWN BY HASP/DTP	CHECKED	APPROVED	JOB NO. 87-84
					SCALE HORIZ.: 1" = 50' VERT.: 1" = 5'
					SHEET NO. 12 of 15

Evergreen Planners, Inc.

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

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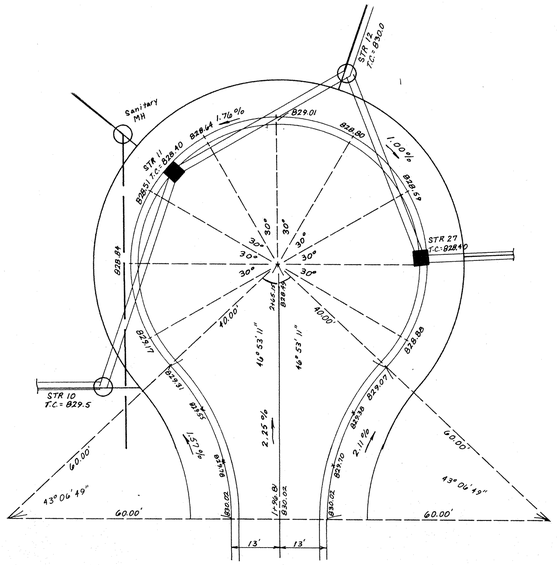
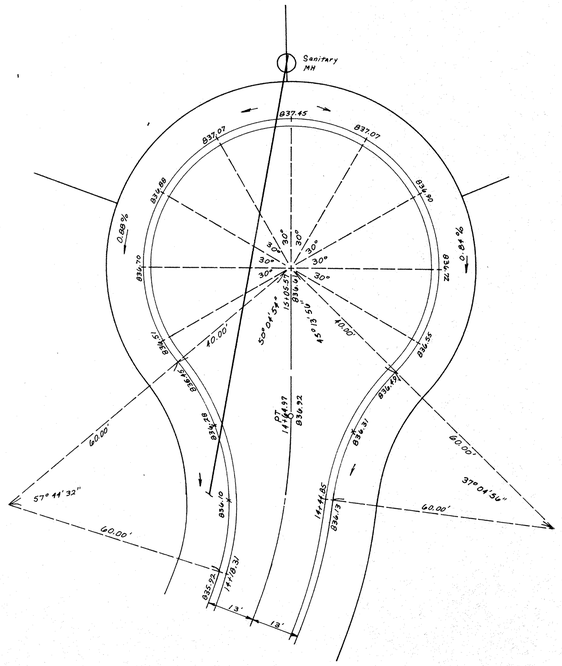


WINDMILL CIRCLE

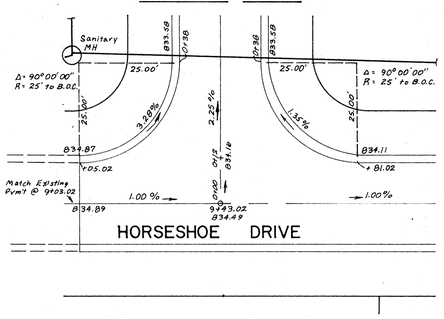
SCALE : 1" = 20'



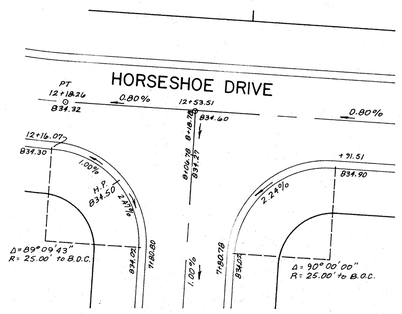
HORSESHOE DRIVE

SCALE : 1" = 20'

WINDMILL CIRCLE

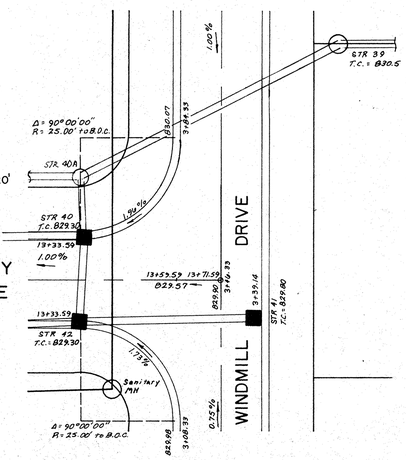


SCALE : 1" = 20'



WINDMILL DRIVE

SCALE : 1" = 20'



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

Arthur L. Kaser

FILED
JUL 1988
OFFICE OF HAMILTON COUNTY SURVEYOR

DATES AND REVISIONS	TITLE INT. & CUL-DE-SAC DETAILS BRIDLEWOOD SEC. II			Evergreen Planners, Inc. 234 SOUTH FRANKLIN RD., INDIANAPOLIS, INDIANA 46219 317/353-6161	DATE APRIL 29, 1988
	DESIGN BY ALK	DRAWN BY HASP/DTP	CHECKED	APPROVED	JOB NO. 87-84
					SCALE 1" = 20'
					SHEET NO. 13 of 15

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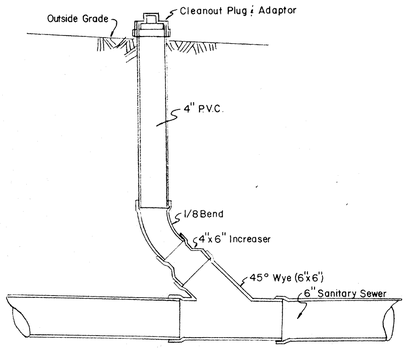
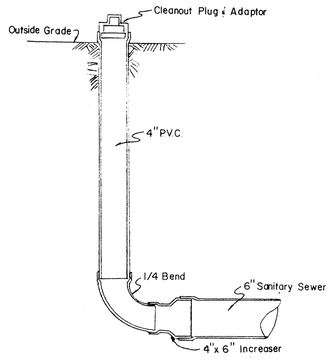


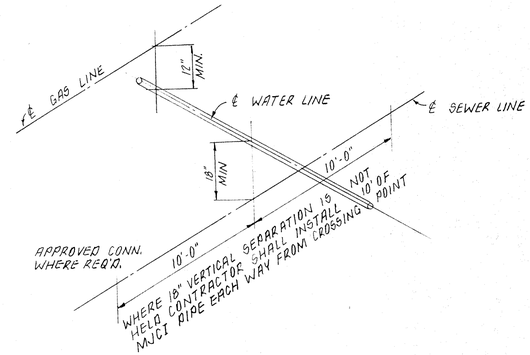
Section

CLEAN OUT - TYPE I

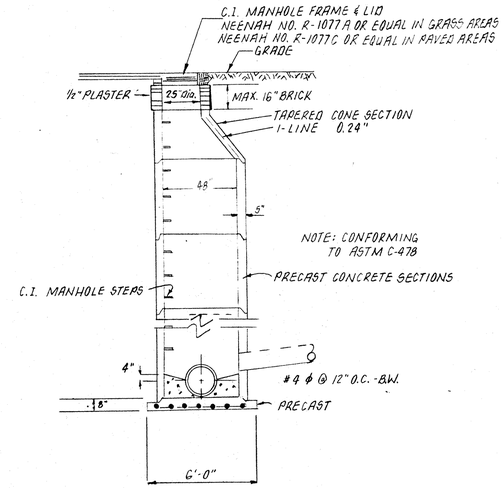


Section

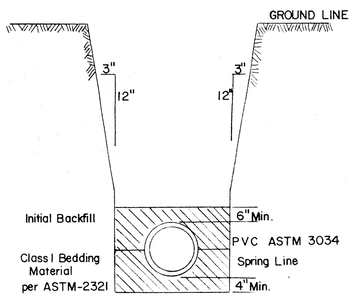
CLEAN OUT - TYPE II



UTILITY CROSSING DETAIL



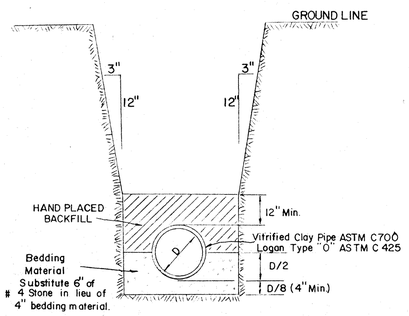
STANDARD MANHOLE
FOR SEWERS LESS THAN 24" DIA.



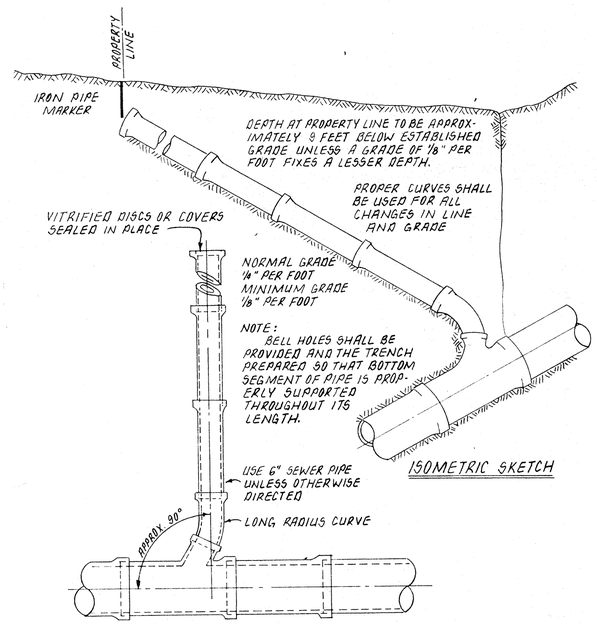
TRENCH SECTION

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.



TRENCH SECTION



ISOMETRIC SKETCH

PLAN VIEW

HOUSE CONNECTION TO MAIN SEWER

GENERAL NOTES:

1. 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

2. Contractor shall contact all utility companies to have underground facilities located prior to any excavation work.
3. Elevations at structures are pipe inverts (Inv) or top of casting (T.C.).
4. Infiltration/exfiltration testing shall be performed in accordance with the requirements of the Indiana State Board of Health.
5. Granular backfill is required for all utility trenches under paved areas.

FILED
JUL 19 1985
OFFICE OF HAMILTON COUNTY SURVEYOR

DATES AND REVISIONS	TITLE				
	DESIGN BY	DRAWN BY	CHECKED	APPROVED	

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

DATE	Feb. 27, 1985
JOB NO.	84-32
SCALE	As shown
SHEET NO.	15 of 15

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