

Drain: PONDOS WEST DRAIN **Drain #:** 254
Improvement/Arm: PONDOS WEST-SECTION 4
Operator: JOH **Date:** 3-10-04
Drain Classification: Urban/Rural **Year Installed:** 1993

GIS Drain Input Checklist

- Pull Source Documents for Scanning GA 3-10
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains GA 3-10
- Digitize & Attribute SSD GA 3-11
- Digitize & Attribute Open Ditch N/A
- Stamp Plans GA 3-11
- Sum drain lengths & Validate GA 3-11
- Enter Improvements into Posse GA 3-11
- Enter Drain Age into Posse July 3-30
- Sum drain length for Watershed in Posse July 3-30
- Check Database entries for errors GA 3-11

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

Drain-Improvement: POND WEST DRAIN - POND WEST - SECTION 1

Drain Type:	Size:	Length <small>SURVEYORS REPORT</small>	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSO	6"	8835'	8835'	Ø		
RCP	12"	78'	78'	Ø		
	15"	72'	72'	Ø		
	18"	346'	346'	Ø		
	21"	314'	314'	Ø		
	24"	1,431'	1,394'	-37'		
	27"	247'	247'	Ø		
	30"	300'	242'	-58'		
	36"	Ø	160'	+160'		
CMP	8"	40'	20'	-20'		

Sum: 11,663' 11,709' 45'

Final Report: _____

Comments:

SR AND AS DISAGREE ON 24", 30", 36", AND 8" CMP



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

May 13, 1993

TO: Hamilton County Drainage Board

RE: Ponds West Drain-Section 1

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Ponds West 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 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	8835 feet	27"	RCP	247 feet
12"	RCP	78 feet	18"	RCP	289 feet
15"	RCP	128 feet	30"	RCP	460 feet
21"	RCP	314 feet	8"	CMP	40 feet
24"	RCP	1431 feet			

The total length of the drain will be 11,822 feet.

The retention ponds (lakes) located in Common Area Ponds 3, 4, 5 and 6 and on Lots 35 and 36 are not to be considered part of the regulated drain. Only the inlet and outlet will be

maintained as part of the regulated drain. The maintenance of the ponds (lakes) will be the responsibility of the Homeowners Association. The Board will however, retain jurisdiction for ensuring the storage volume for which the lakes were designed will be retained. Thereby, allowing no fill or easement encroachments.

The portion of the Collins-Osborn or Williams Creek running through this section should be included under the maintenance of Ponds West until such time the open ditch is set up for maintenance separately.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines between lots or in rear yards. Only the main SSD lines which are located within the easement are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follows:

REAR OF LOTS 4, 7-10, 20-24 AND 28-34

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$30.00 per lot, \$5.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for the drain/this section will be \$ 1386.35.

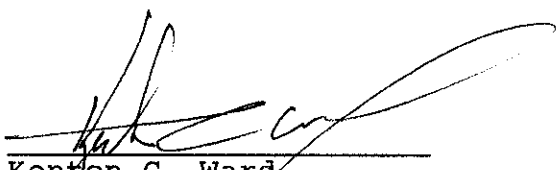
Parcels assessed for this drain may be assessed for the

Collins-Osborn or Williams Creek at sometime in the future.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached Non-enforcement request. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Ponds West, Section 1 as recorded in the Office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for July 1993.



Kenton C. Ward
Hamilton County Surveyor

KCW/no

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE Ponds West Drain-Section 1

NOTICE

TO WHOM IT MAY CONCERN AND _____

Notice is hereby given of the Hearing of the Hamilton County
Drainage Board on the Ponds West -Section 1 Drain, on
July 26, 1993, at 9:00 A.M. in the Commissioners's Court,
Hamilton County Judicial Center, One Hamilton County Square
Noblesville, Indiana and which the Maintenance Report of the
Board have been filed and are available for public inspection in
the Office of the Hamilton County Surveyor.

Hamilton County Drainage Board

ATTEST *James Allen Adams*
Administrative Secretary

ONE TIME ONLY

BEFORE THE HAMILTON
COUNTY DRAINAGE BOARD
IN THE MATTER OF THE

Ponds West Drain-Section 1 ~~DRAIN~~

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

HAMILTON COUNTY DRAINAGE BOARD

ATTEST:

Nancy Ellen Oldham
Administrative Secretary

ONE TIME ONLY

N^oB National City Bank

TELEPHONE (317) 267-7751

INTERNATIONAL DEPARTMENT
101 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46255

TELEX 244038

STANDBY LETTER OF CREDIT

Letter of Credit No: 44183

Date: April 13, 1993

BENEFICIARY

HAMILTON COUNTY COMMISSIONERS
AND CITY OF CARMEL
Hamilton County Courthouse
Noblesville, Indiana 46060

FOR ACCOUNT OF

DART DEVELOPMENT CORP. II
P.O. Box 1423
Carmel, Indiana 46032

We hereby establish our Irrevocable Letter of Credit in your favor, for the account indicated above, for the sum or sums not exceeding an aggregate amount of USD98,937.00 (Ninety-Eight Thousand Nine Hundred Thirty-Seven U.S.Dollars).

Funds are available by your draft(s) at sight drawn on National City Bank, Indiana Indianapolis, Indiana.

Drafts are to be accompanied by:

1. The original of this Letter of Credit No. 44183.
2. Beneficiary's certificate stating that "Dart Development Corp. II has failed to complete storm sewers, sub-service drains, monuments and markers in Project Ponds West, Section 1".

All drafts drawn under this Letter of Credit are to be endorsed hereon and shall bear the clause: "Drawn under National City Bank, Indiana Indianapolis, Indiana Letter of Credit No. (as indicated above)", and must be drawn and presented at this office on or before April 13, 1994.

We hereby agree with you that all drafts drawn under and in compliance with the terms of this Letter of Credit will be duly honored upon proper presentation.

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

Very truly yours,

Daisy B. Elliott
(Authorized signature)

Wendy Chalypous
(Authorized signature)

HAMILTON COUNTY DRAINAGE BOARD
CERTIFICATE OF COMPLETION AND COMPLIANCE

Address of premises on which land alteration was accomplished: Southwest corner of 146th Street and Springmill Road, Carmel, Indiana

Project Name: Ponds West Section I

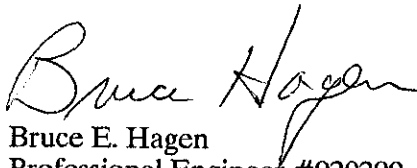
Relative to plans prepared by MSE Corporation on September 3, 1993.

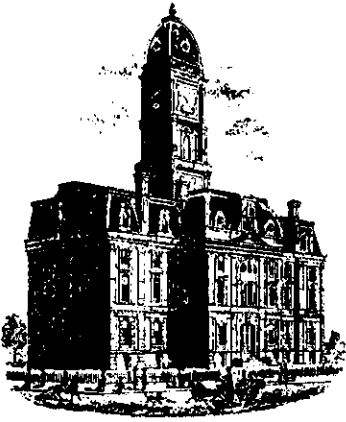
I hereby certify that:

1. I am familiar with drainage requirements applicable to such land alteration (as set forth by the Hamilton County Drainage Board).
2. Land alteration accomplished pursuant to the referenced drainage permit was observed by personnel under my direction, and
3. To the best of my knowledge, information and belief, such land alteration has been performed and completed in conformity with all such drainage requirements.

Certified this 7th day of January, 1994.

MSE CORPORATION


Bruce E. Hagen
Professional Engineer #920299 - Indiana



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

Noblesville, Indiana 46060-2230

August 29, 1995

TO: Hamilton County Drainage Board

RE: Ponds West Drain
Ponds West Sec. 1

Attached are as-builts, certificate of completion & compliance, and other information for Ponds West Sec. 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 May 13, 1993. The changes are as follows: Structure 52 to 53 was lengthened and added an additional structure numbered 52A. This section of 24"RCP now totals 395'feet. Structure 86 to 87 was upgraded from 15"RCP to 18"RCP. Structure 51 to 52 consists of 18"RCP which has lengthened from 160'feet to 161'feet. Structure 29 to 30 consists of 63 feet of 24"RCP. This section was constructed during section 1 but was not on the original report. Structure 47 to 48 consisted of 128 feet of 30"RCP which was upgraded to a 36"RCP of the same length. Structure 48 to 49 was also upgraded to a 36"RCP of the same length.

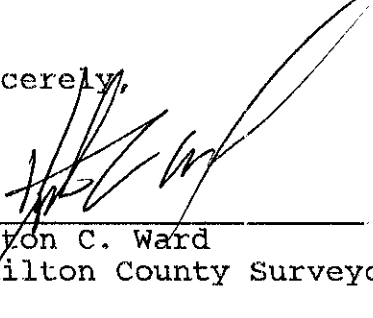
The length of the drain due to the changes described above is now 11,891.

~~Attached also is a non-enforcement for the drain which I recommend that the Board approve at this time. The non-enforcement was approved by the Board at its meeting on April 13, 1993.~~

The bond or letter of credit from National City Bank, number 44183, dated April 13, 1993, in the amount of \$98,937.00, has been recommended for release in a letter to the Commissioners dated December 23, 1993.

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

Sincerely,


Kenton C. Ward
Hamilton County Surveyor

KCW/nw



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

To: Jeff Meyerose
MSE Corp.

776-8495

Re: Ponds West Sec 1

Date: August 4, 1995

Dear Jeff,

Upon writing the final report for Ponds West Sec 1, a discrepancy was found on the mylar between the drawing and the profile for structures 47 to 48 and 48 to 49. The drawing above the profiles calls for 36" RCP's between these structures. The profile below calls for 30" RCP's. Subsequently, the structures were inspected and were determined to be 36" RCP's. In light of this error, a new mylar needs to be submitted for these structures. The new mylar should note the correct pipe size in the profile as determined by our inspection. Thank you for co-operation in this matter. If there are any questions or concerns please contact us immediately.

Sincerely,

Suzanne L. Mills

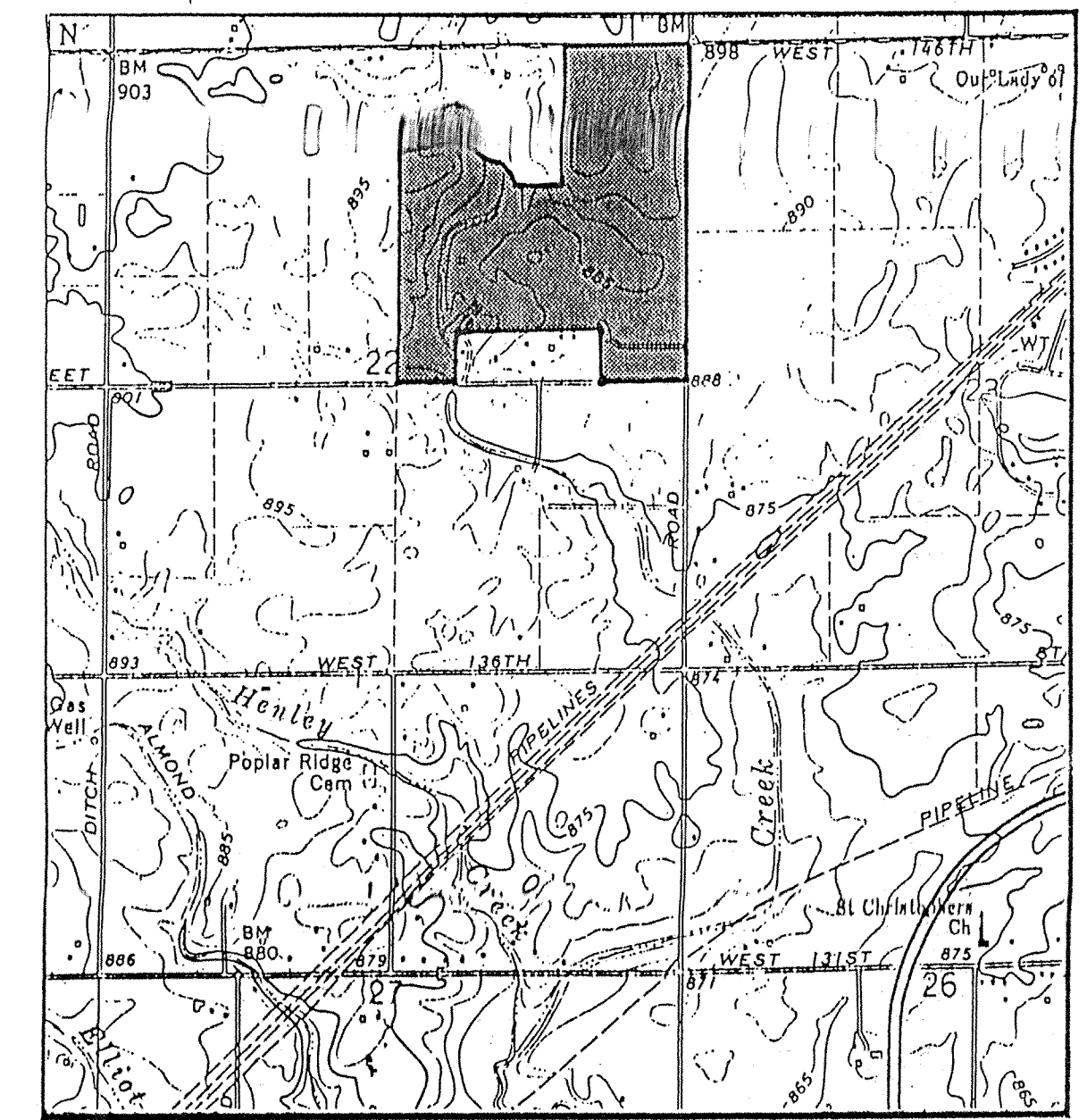
Suzanne L. Mills
Drainage Cartographer
776-8495

Land Description

Land being part of the Northeast Quarter of Section 22, Township 18 North, Range 3 East, Hamilton County, Indiana, more particularly described as follows:

Beginning at the Southeast corner of said Northeast Quarter Section; thence South 89°20'11" West on and along the South line of said Quarter Section, a distance of 767.80 feet; thence North 00°04'20" East 475.00 feet; thence South 89°20'11" West parallel with the South line of said Quarter Section a distance of 733.70 feet; thence South 00°04'20" West 31.00 feet; thence South 89°20'11" West on and along the North line, and the prolongation thereof, of land described in a deed to Sarah B. Hein, recorded in Deed Book 329, Page 547, in the Office of the Recorder of Hamilton County, Indiana, a distance of 721.58 feet to the Northwest corner of said Hein's land; thence South 00°05'18" West, on Hein's West line, a distance of 444.00 feet to the South line of aforesaid Northeast Quarter Section; thence South 89°20'11" West on said South line a distance of 412.50 feet to the Southwest corner of said Quarter Section; thence North 00°05'18" East on and along the West line of said Quarter Section a distance of 2132.02 feet to a point 495 feet South of the Northwest corner of said Quarter Section; thence North 89°04'58" East parallel with the North line of said Quarter Section a distance of 412.50 feet; thence North 00°05'18" East 0.74 feet to an iron pipe found at the Southwest corner of land described in a deed to James M. Buck, as recorded in Deed Book 330, Page 304, in said Recorder's Office; thence North 79°49'38" East on and along the South line of said Buck's land a distance of 478.11 feet; thence South 00°55'02" East 57.80 feet; thence South 83°45'01" East 53.37 feet; thence South 41°01'24" East 43.56 feet; thence South 90°00'00" East 60.18 feet; thence South 11°18'35" East 310.67 feet; thence North 85°43'26" East 454.02 feet; thence North 00°48'29" West 795.00 feet to the North line of said Northeast Quarter Section; thence North 89°04'58" East on and along said North line, a distance of 1102.37 feet to the Northeast corner of said Quarter Section; thence South 00°02'16" East on and along the East line of said Quarter Section a distance of 2638.59 feet to the Point of Beginning, containing 123.288 acres, more or less, subject to rights-of-way, restrictions, easements, and legal drains.

CONSTRUCTION PLANS FOR PONDS WEST

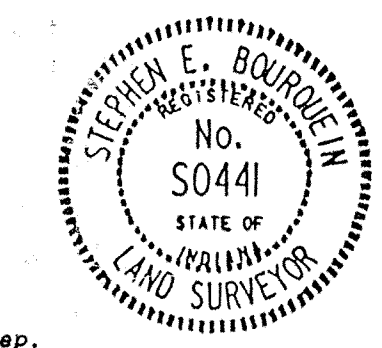


VICINITY MAP



Sanitary and Storm
AS-BUILTS
SECTION 1

Sections 1-4 are to be approved and constructed at this time.
Section 5 to be approved and constructed at a later date.
4/1/93



CERTIFIED THIS 14th DAY OF April 1993
Stephen E. Bourquein
Registered Professional Land Surveyor No. S0441 - Indiana

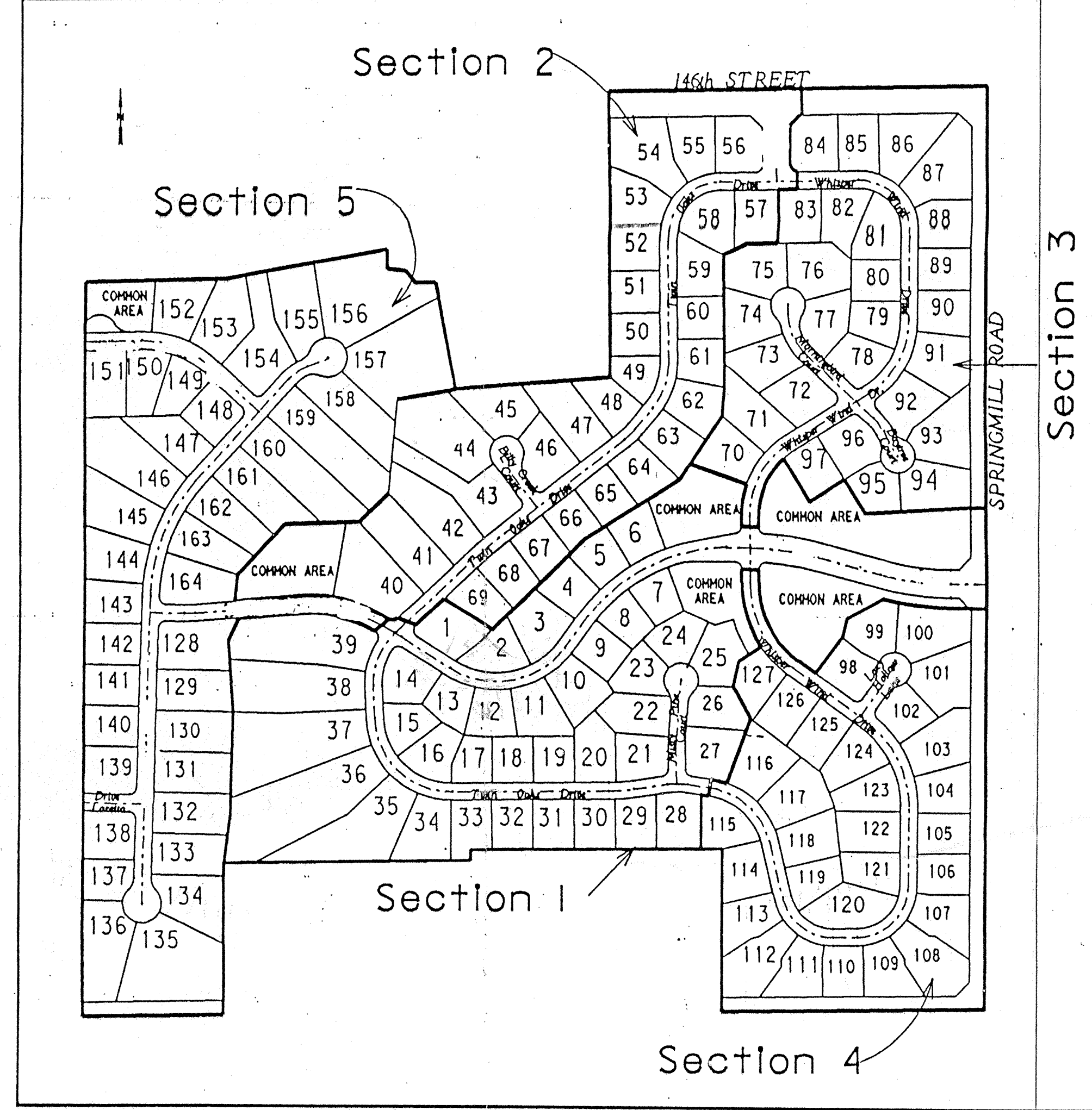
FILED
AUG 03 1994
HAMILTON COUNTY DRAINAGE BOARD
SECRETARY

PROJECT DATA
ACRES : 123.288
LOTS : 164
LOTS/ACRE : 1.33

JOB No. 114-0522
SHEET 1 OF 18

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SPECIFICATIONS
3-4	3-4 SITE UTILITY PLANS & GRADING PLANS
	5-20 STREET PLAN & PROFILES
10-18	10-18 STORM PLAN & PROFILES
5-9	5-9 SANITARY PLAN & PROFILES
	44-46 GULF DE SAG & INTERSECTION DETAILS
	47-48 ENTRANCE DETAILS
	49-50 EROSION CONTROL PLANS
	51-52 DETAILS

SHEET NO.	REVISIONS
33-43	2/22/93 Revise San. Sewer Inverts
51	2/22/93 Revise San. Sewer Bedding Details
3-9, 26-30,	3/12/93 See Sheets
47 48	3/12/93 See Sheets
1, 3-9, 27,	3/28/93 See Sheets
47, 49-52	4/9/93 Change Subd. name & Street Names
7-8, 10, 14,	4/20/93 See Sheets
15, 16, 17, 18	4/20/93 See Sheets
41, 47	4/30/93 See Sheets
49	4/30/93 See Sheets
4, 13, 21, 33, 38	6/3/93 See Sheets
4, 8A, 21	7/30/93 See Sheets



PLANS PREPARED FOR
DART DEVELOPMENT CORP II
14122 SPRINGMILL ROAD
CARMEL, IN 46032
(317) 844-4451

PREPARED BY:
MSE Engineering
MSE Corporation
941 North Meridian
Indianapolis, IN 46204
317 634-1000
317 634-3576 FAX

- August 10, 1993
Asbuilt Listing Ponds West, Section 1
Owner: Dart Corporation
Engineer: MSE Corporation
Contractor: Harvey Construction
- Lot 1 166' Southeast of manhole # 216, 65' of 6" pipe, 6' deep.
 - Lot 2 92' East of manhole # 240, 60' of 6" pipe, 6' deep.
 - Lot 3 184' Northeast of manhole # 239, 70' of 6" pipe, 6' deep.
 - Lot 4 197' Northeast of manhole # 239, 70' of 6" pipe, 6' deep.
 - Lot 5 46' Northeast of manhole # 238, 70' of 6" pipe, 6' deep.
 - Lot 6 58' Northeast of manhole # 238, 70' of 6" pipe, 6' deep.
 - Lot 7 69' Northeast of manhole # 238, 6' of 6" pipe, 6' deep.
 - Lot 8 209' Northeast of manhole # 239, 6' of 6" pipe, 6' deep.
 - Lot 9 171' Northeast of manhole # 239, 6' of 6" pipe, 6' deep.
 - Lot 10 63' Northeast of manhole # 239, 6' of 6" pipe, 6' deep.
 - Lot 11 172' East of manhole # 240, 6' of 6" pipe, 6' deep.
 - Lot 12 54' East of manhole # 240, 6' of 6" pipe, 6' deep.
 - Lot 13 301' Southeast of manhole # 216, 6' of 6" pipe, 6' deep.
 - Lot 14 157' Southeast of manhole # 216, 6' of 6" pipe, 6' deep.
 - Lot 15 83' Southeast of manhole # 205, 65' of 6" pipe, 6' deep.
 - Lot 16 90' Southeast of manhole # 205, 65' of 6" pipe, 6' deep.
 - Lot 17 217' East of manhole # 217, 70' of 6" pipe, 6' deep.
 - Lot 18 227' East of manhole # 217, 70' of 6" pipe, 6' deep.
 - Lot 19 55' East of manhole # 218, 80' of 6" pipe, 6' deep.
 - Lot 20 65' East of manhole # 218, 80' of 6" pipe, 6' deep.
 - Lot 21 148' North of manhole # 219, 80' of 6" pipe, 6' deep.
 - Lot 22 272' North of manhole # 219, 100' of 6" pipe, 6' deep.
 - Lot 23 282' North of manhole # 219, 100' of 6" pipe, 6' deep.
 - Lot 24 35' North of manhole # 219, 100' of 6" pipe, 6' deep.
 - Lot 25 364' North of manhole # 219, 25' of 6" pipe, 6' deep.
 - Lot 26 251' North of manhole # 219, 6' of 6" pipe, 6' deep.
 - Lot 27 107' North of manhole # 219, 6' of 6" pipe, 6' deep.
 - Lot 28 368' East of manhole # 218, 6' of 6" pipe, 6' deep.
 - Lot 29 251' East of manhole # 218, 6' of 6" pipe, 6' deep.
 - Lot 30 108' East of manhole # 218, 6' of 6" pipe, 6' deep.
 - Lot 31 395' East of manhole # 217, 6' of 6" pipe, 6' deep.
 - Lot 32 293' East of manhole # 217, 6' of 6" pipe, 6' deep.
 - Lot 33 170' East of manhole # 217, 6' of 6" pipe, 6' deep.
 - Lot 34 42' East of manhole # 217, 6' of 6" pipe, 6' deep.
 - Lot 35 162' Southeast of manhole # 205, 6' of 6" pipe, 6' deep.
 - Lot 36 67' Southeast of manhole # 205, 30' of 6" pipe, 6' deep.
 - Lot 37 68' North of manhole # 205, 6' of 6" pipe, 6' deep.
 - Lot 38 160' North of manhole # 205, 6' of 6" pipe, 6' deep.
 - Lot 39 278' North of manhole # 205, 6' of 6" pipe, 6' deep.
 - Lot 40 214' North of manhole # 237, 80' of 6" pipe, 6' deep.
 - Lot 41 226' North of manhole # 237, 80' of 6" pipe, 6' deep.

This copy printed from the Digital Archive of the Hamilton County Surveyor's Office, One Hamilton Co. Square, Ste. 188, Noblesville, IN 46060

SITE WORK GENERAL NOTES AND SPECIFICATIONS

I. GENERAL CONDITIONS
A. The Contractor shall be responsible for obtaining or verifying that all permits and approvals are obtained from the respective city, county and state agencies prior to starting construction.

II. CLEANING AND GRUBBING
A. Clearing and grubbing shall consist of cutting, removal and satisfactory disposal of all trees, down timber, brush, projecting roots, stumps, rubbish, boulders, broken concrete, fencing (as designated), and other material on the project site and within the boundary as shown on the Construction Documents and/or as designated by "construction limits".

III. TREE REMOVAL AND PROTECTION

A. Trees shall be removed from the project site only in areas occupied by roadway and surfaced areas in accordance with specifications of the City of Carmel.
B. Trees shall be removed from the project site as directed by the Developer and so designated.

IV. STRIPPING OF TOPSOIL

A. The Contractor shall verify that all topsoil has been removed in the areas to be occupied by road, walks and designated building areas. Topsoil shall be removed to a depth of 6 inches or deeper, if necessary, to assure the removal of vegetation matter where required.

V. GRADING

A. The Contractor shall perform all grading operations to bring subgrades, after final compaction, to the grades required for site improvement.
B. Subgrade shall be proofrolled with appropriate equipment and all spongy and otherwise unsuitable material shall be removed and replaced with suitable material.

VI. SANITARY SEWER CONSTRUCTION

1. Standard specifications of the Clay Waste District and Indiana Department of Highways shall apply for all work and materials. Pipe shall be installed in accordance with Section 715.

2. Sanitary sewer pipe shall be PVC in accordance with ASTM D-3034 (S.D.R. 35) and ASTM 2321. PVC pipe shall have grooved bell and gasket. The pipe shall be made of PVC plastic having a cell classification of 12454B.

3. PVC sewer fittings shall conform to the requirements of ASTM D-3034-89 specification. Fittings in sizes through 8" shall be molded in one piece with elastomeric joints and minimum socket depths as specified in sections 6.2 and 7.3.2.

4. All sanitary manholes shall be "precast concrete" manholes in accordance with ASTM C-478 and Section 720. O-Rings shall conform to C-443. Kent Seal or equivalent shall also be applied to all joints and between riser rings and castings. Manhole step spacing shall be no more than 16-inches.

5. Butyl rubber coating shall be applied around each manhole joint from 6-inches above to 6-inches below each joint. The appropriate primer shall be applied prior to applying the rubber coating. Inside joints to be filled with precast plug material.

6. The coating elevations are set by plan. However, the castings are to be checked in the field by the Engineer's representative, should a discrepancy occur between plan grade and existing grade. New manhole ring and cover shall be installed to establish grade. Maximum height of adjusting rings shall be 12-inches.

7. Backfill around all structures and all cuts under paved areas with granular material. Trenches opening within 5-feet of paved roadways shall be backfilled with granular material in accordance with Section 211. Backfill under sidewalks shall be granular, unless the walks are constructed a minimum of 6 months after backfill has been in-place.

8. The Contractor shall be responsible for verifying that all state highways, city and county permits have been obtained by the developer prior to start of construction.

9. The Contractor shall be required to furnish the developer's Engineer with a set of prints marked in red pencil, showing actual sewer location and invert, to include lateral location, depth and length. Such "as-built" prints must be received by the Engineer before the final contract payment can be authorized. The sanitary sewer laterals and stubs termination shall be indicated on the surface with a metal fence post set immediately above said termination point.

10. All sanitary sewer lines upon completion will be required to pass an infiltration weir test and a low pressure air test, unless otherwise directed by the Engineer. Said test shall be conducted according to WQPI Standard Method, and shall be witnessed by an Engineer and a representative of the Clay Waste District.

11. Deflection tests shall be performed on all flexible pipe after the final backfill has been in-place at least 30 days. No pipe shall exceed a vertical deflection of 5 percent deflection test results. (The following are considered non-flexible pipe: concrete pipe, ductile iron pipe and cast iron pipe.) The deflection test shall be performed with a nine-point mandrel. Proving rings shall be available.

12. All mandrel testing shall be observed by a Professional Engineer for certification and a representative of the Clay Waste District.

13. The ends of laterals are to be plugged tight with a braced plastic disc or cap capable of withstanding a low pressure air test without leakage.

14. Bedding for flexible pipe shall be No. 8 crushed stone from 6-inches below the pipe to 12-inches above the pipe. Bedding for rigid pipe shall be No. 8 crushed stone from 6-inches below the pipe to the spring line of the pipe and from this point to 12-inches above shall be fill sand or equivalent. Manholes shall be placed on no less than 6-inches of No. 8 crushed stone bedding.

15. Water and sewer line crossings and separations shall be in accordance with Ten States' Standards.

16. Trench shall be opened sufficiently ahead of pipe laying to reveal obstructions, and shall be properly protected and/or barricaded when left unattended.

17. No water shall be permitted to flow into the sanitary sewer system during construction. Contractor shall utilize a pump to keep the water level below the pipe. Pump discharge shall be directed to a storm outlet. Any pipe entering existing sewers shall be plugged, until such time as all tests on the sewers have been completed and the lines have passed all punch lists.

18. All sewer laterals installed by the mainline Contractor shall be bedded the same as the main line sewer.

19. Forty-eight (48) hours notice shall be given to the Clay Regional Waste District prior to the start of sewer construction. Also, 48-hours notice shall be given prior to any testing done on the sewer.

20. Manhole castings shall be stamped "SANITARY SEWER" (Neenah Casting R 1642 or equal) and be self-sealing type. Waterproof castings shall be Neenah R-1916-F1 and stamped "Sanitary Sewer".

21. The minimum slope for sewer acceptance by the Clay Township Regional Waste District are:

Table with 2 columns: Size of Pipe, Minimum Constructed Slope. Rows include 8-inch, 10-inch, 12-inch, 15-inch, 18-inch.

VII. EROSION PROTECTION DURING CONSTRUCTION
A. The Contractor shall provide adequate erosion protection measures during construction.
1. Rip-rap at locations designated on the plans.
2. Swales draining the site shall be mulch seeded or sodded and Contractor shall be responsible for establishing grass cover.

VIII. STORM SEWER CONNECTION

A. Storm sewer structures shall comply with current specifications of the City, County and all agencies with respect to design and quality of construction.
B. All storm sewer construction inside public right-of-way, either existing or proposed, shall be in accordance with the Hamilton County specifications. Contractor shall notify the Hamilton County Surveyor forty-eight hours prior to commencement of storm sewer construction.

C. 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.

D. Where corrugated metal pipe is shown on the construction plans, it shall be 16 gauge 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.

E. Manholes, catchbasins, and inlets may be precast concrete or poured in place concrete.

F. Precast concrete and steel for manholes and inlets shall be in accordance with A.S.T.M. C-478.

G. Castings shall be as shown on the Structure Data Table.

H. Granular backfill shall be required for all crossings under pavement areas, per the Hamilton County specifications.

IX. UTILITIES

A. Water Line

1. See Sanitary Sewers Notes for vertical and horizontal separations (Note VI-1 and 2).

2. All water lines shall be in accordance with the Standards and Specifications of the Indiana State Board of Health and the Hamilton Western Utilities. Sterilization of water mains shall be in accordance with the Indiana State Board of Health and the Hamilton Western Utilities for procedures and time of treatment.

3. Pressure tests for the water system shall be done in accordance with manufacturer's recommendations and the Hamilton Western Utilities specifications.

4. Granular backfill shall be required for all utility crossings under pavement areas. See Section VI-W.

5. Where private water lines are shown on the contract plans the pipe materials shall meet the Hamilton Western Utilities specifications.

6. Thrust blocks shall be installed in accordance with the details contained within the plans or the Hamilton Western Utilities standard specifications as applicable.

7. Felt material not to exceed 3/8 inch thick shall be placed between pipes and concrete thrust blocks.

8. All valves and appurtenances for domestic and fire protection water mains shall be approved by the Underwriters Laboratories and Factory Mutual for critical use.

B. 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 three feet beyond the edge of the pavement.

3. Concrete pads for electric and telephone transformers shall be set at the approximate ground grade as shown on the Site Development Grading Plans.

X. GRANULAR BACKFILL

Shall be in accordance with I.N.D.O.T. Standard Specifications.

XI. PAVEMENT CONSTRUCTION

A. All pavement construction shall be in accordance with the plans and specifications and conform to the minimum standards of Hamilton County.

B. Subgrade shall be prepared in compliance with Section 207.02 of the I.N.D.O.T. standard specifications. No traffic shall be permitted on the prepared subgrade prior to paving.

C. Backfilling of utility trenches with granular material under pavement areas is required and shall conform to Hamilton County specifications.

D. Contractor shall notify Hamilton County forty-eight hours prior to commencement of street construction within any existing or proposed right-of-way.

XII. CONCRETE CURB AND WALKS

A. See Detail Sheet for type and details. Curbs and walks within existing or proposed right-of-way shall be constructed in accordance with Hamilton County specifications.

B. Concrete shall be ready mixed Portland cement conforming to A.S.T.M. C-150. 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.

C. Application

1. Place concrete only on a moist, compacted subgrade or base free from loose material. Place no concrete on muddy or frozen subgrade.
2. Concrete shall be deposited so as to require a 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.N.D.O.T. Specifications, 1988 edition, shall apply.

3. Except as otherwise specified, cure all concrete by one of the methods described in Section 501.17 of the I.N.D.O.T. Specifications, 1988 edition.

XIII. FINISH GRADING AND SEEDING (Developer shall designate location if required.)

A. Topsoil or approved fill shall be spread over the rough grade to a depth sufficient to insure finish grades are met after rolling and settlement. The minimum thickness of the topsoil shall not be less than 4". New grades shall slope uniformly between levels established on the plans. Intersections of new grades with existing grades shall be uniform and smooth.

B. Fertilizer and agricultural limestone shall be spread uniformly over the area to be seeded and mixed into the top two inches of soil with a disk harrow, rotary tiller, or other approved equipment. Fertilizer shall be spread at the rate of 800 pounds per acre and agricultural limestone at the rate of one-half ton per acre, unless otherwise specified.

C. A seeding mixture in stripping, cut, or fill areas shall be applied at a rate of 90 pounds per acre with a mixture as follows: 18 lbs. Kentucky Bluegrass, 18 lbs. Park Kentucky Bluegrass, 18 lbs. Delia Kentucky Bluegrass, 10 lbs. Pennlaw Fescue and 26 lbs. Annual Ryegrass. Wood cellulose fibre, straw or mulch, as approved by the Engineer, shall be applied at a rate of 3/4 tons per acre.

XIV. LIME MODIFIED SOIL (Developer shall designate location if required.)

A. The use of Lime Modification shall be used to improve the upper 12" of subgrade that does not conform to Section 207 of the 1988 I.N.D.O.T. Specifications. The lime used shall be "Polyhydrated Lime, Code 'L'", as manufactured by Mississippi Lime, or equal. The following construction procedures shall be utilized.

1. The subgrade shall be placed to the proper grade.
2. Lime shall be dry placed on the subgrade at an application rate of 24 to 36 pounds per square yard as directed by the Engineer. The lime and soil shall then be mixed by tractor-drawn disc harrows, scarifiers, rotary mixers, or front end loaders equipped with bucket teeth. Several passes shall be made to a depth of 12" as directed by the Engineer.

3. Initial compaction shall be performed with a sheepfoot roller. The soil and lime shall be compacted in 6" lifts until the proper grade is obtained. Grading will be accomplished by blading the excess to one lane and compacting the mixed lime and soil in the 6" lifts. The final passes shall be made with a steel wheel or pneumatic-tired roller as approved by the Engineer.

4. The density of the soil-lime mixture will be determined by the City of Carmel near the end of the finishing operations. Any portion of the soil-lime mixture not passing the density requirements shall be determined by the City of Carmel in accordance with AASHTO T-191.

5. When compaction of the lime-soil mixture is nearing completion, the surface shall be sloped to the required lines, grades, and cross section, and compaction continued using a steel wheeled roller until the minimum specified density is obtained.

6. The surface shall be maintained in a moist condition by means of a fine spray of water during all finishing operations. The treated material shall be maintained in a moist condition by sprinkling with water for a period of seven days. Traffic of all types shall be kept off the lime modified soil for seven days, or thereafter until in the opinion of the Engineer the lime-modified soil will support traffic without being damaged. When allowed on the subgrade, traffic shall exercise further care in driving over it so as not to tear up the subgrade.

7. Caution: Lime and lime mixtures are caustic in nature. The manufacturer of the lime shall be consulted to determine what special precautions are required to protect the skin, and particularly the eyes.

XVI. REMOVAL OF PAVEMENT, SIDEWALKS, CURBS, ETC.

A. Pavement removal shall consist of the removal and satisfactory disposal of bituminous pavement or the total of any combination of base, binder and surface course of any pavement on a rigid base (including the base).

B. Prior to performing the work of pavement removal at locations indicated on the plans, or where directed, cement concrete pavement to be removed shall be cut with a power driven concrete saw along designated lines. Sawing shall be such that any portion of the pavement to remain in place will not be damaged. Any portion that is damaged or removed outside the designated lines shall be replaced by the Contractor, at his expense.

XVII. SEALING CRACKS AND JOINTS IN BITUMINOUS PAVEMENT

A. Reflection cracks and joints, both longitudinal and transverse, as well as checked, cracked and alligatored areas shall be sealed using from 0.10 to 0.15 gallon per square yard of AE-90 or AE-150 bituminous material and covering with either No. 14-2 or compressed air or other suitable means prior to the placing of the bituminous sealing material. The bituminous material shall be allowed to penetrate the cracks and joints in the existing surface and any surplus shall be squeezed back and forth over the area to refill them. Any excess material shall be squeezed off the pavement. The sealed surface shall be covered with approximately 5 pounds of sand per square yard.

STRUCTURE DATA TABLE SANITARY SEWER

Table with 3 columns: Structure Number, Structure Type, and Casing. Rows include Manhole Type 'C' and Manhole Type 'B' with various casing types like R-1642, R-1916-F1, etc.

STRUCTURE DATA TABLE STORM SEWER

Table with 3 columns: Structure Number, Structure Type, and Casing. Rows include Inlet Type 'A', Inlet Type 'B', Manhole Type 'B', and No Structure with various casing types like R-3501-N, R-3516, R-1772-A, etc.

FILED AUG 03 1994 HAMILTON COUNTY DRAINAGE BOARD SECRETARY

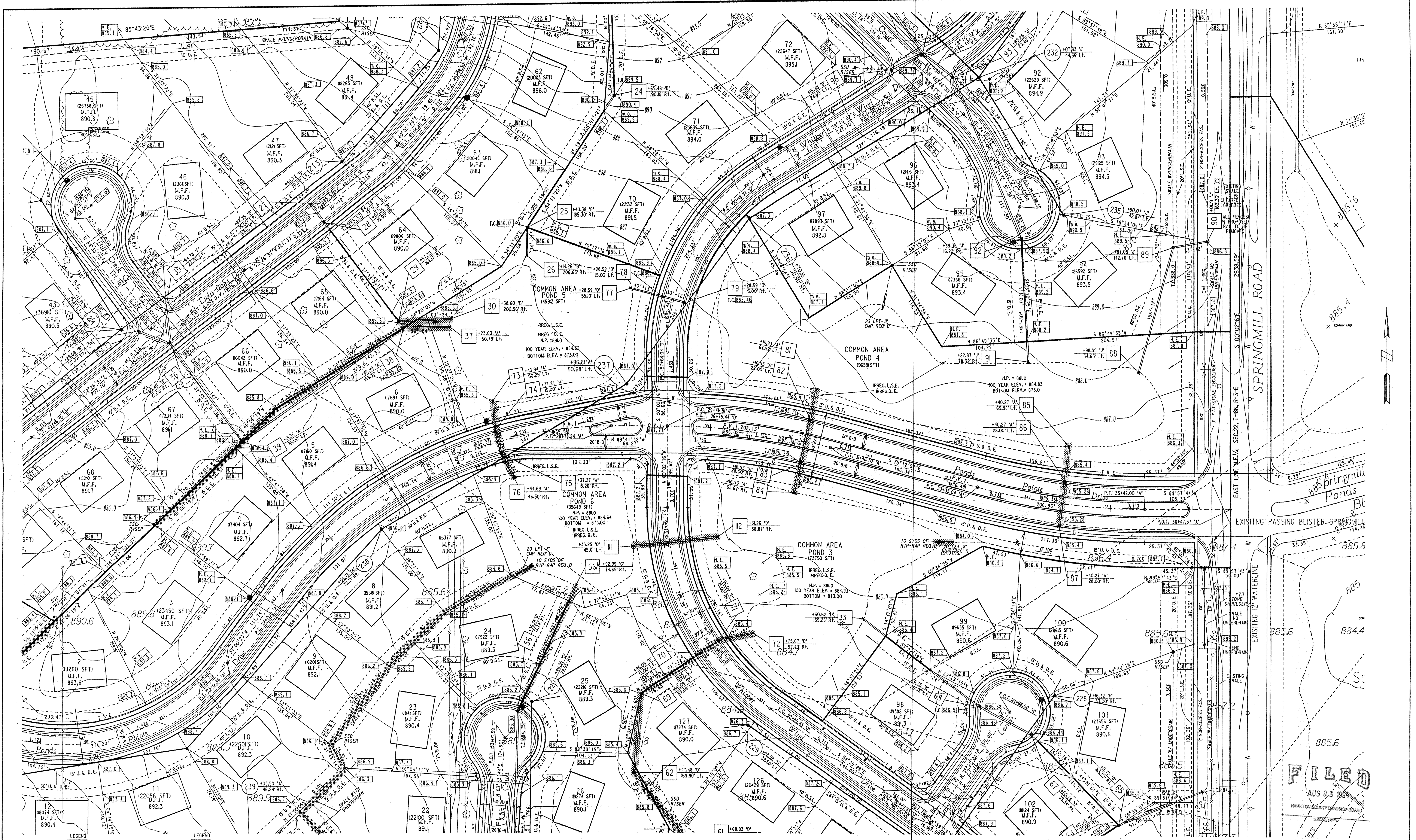
Signature of Stephen E. Bourquin, Registered Professional Engineer, No. S0441, State of Indiana, Land Surveyor

Mid States Engineering, Inc. 501 Congressional Blvd., Suite 110 Carmel, IN 46032 317-843-5080

SPECIFICATIONS

Table with 2 columns: Revisions and Dates, and Design/Drawn/Checked/Approved by. Row includes 2-25-93 Rev San Sewer Specs.

Title: SPECIFICATIONS Scale: 400 Feet = 1" 4-0524-001-001 Sheet No.: 21 Of: 21



Sanitary and Storm AS - BUILTS

EXISTING	PROPOSED	EXISTING	PROPOSED
STORM SEWER	STORM SEWER	FLOW ARROW	CONTOUR
MANHOLE	MANHOLE	890.6 SPOT ELEVATION	
		MATCH EXISTING	
INLET	INLET	GRADE	
END SECTION	END SECTION		
STORM STR. NO.	STORM STR. NO.		
SANITARY STR. NO.	SANITARY STR. NO.		

Revisions and Dates	Designed by
3-12-93 Revise Springmill R/W Grading	BEH
3-28-93 Delete Str 80, Add pipe run II-II2	Drawn by
3-28-93 Add 20 Lft 8" CMP to SSD outfall	DSC
4-9-93 Changed Street Names	Checked by
4-20-93 Relocate Str II & II2	BEH
	Approved by
	SEB
	Date:

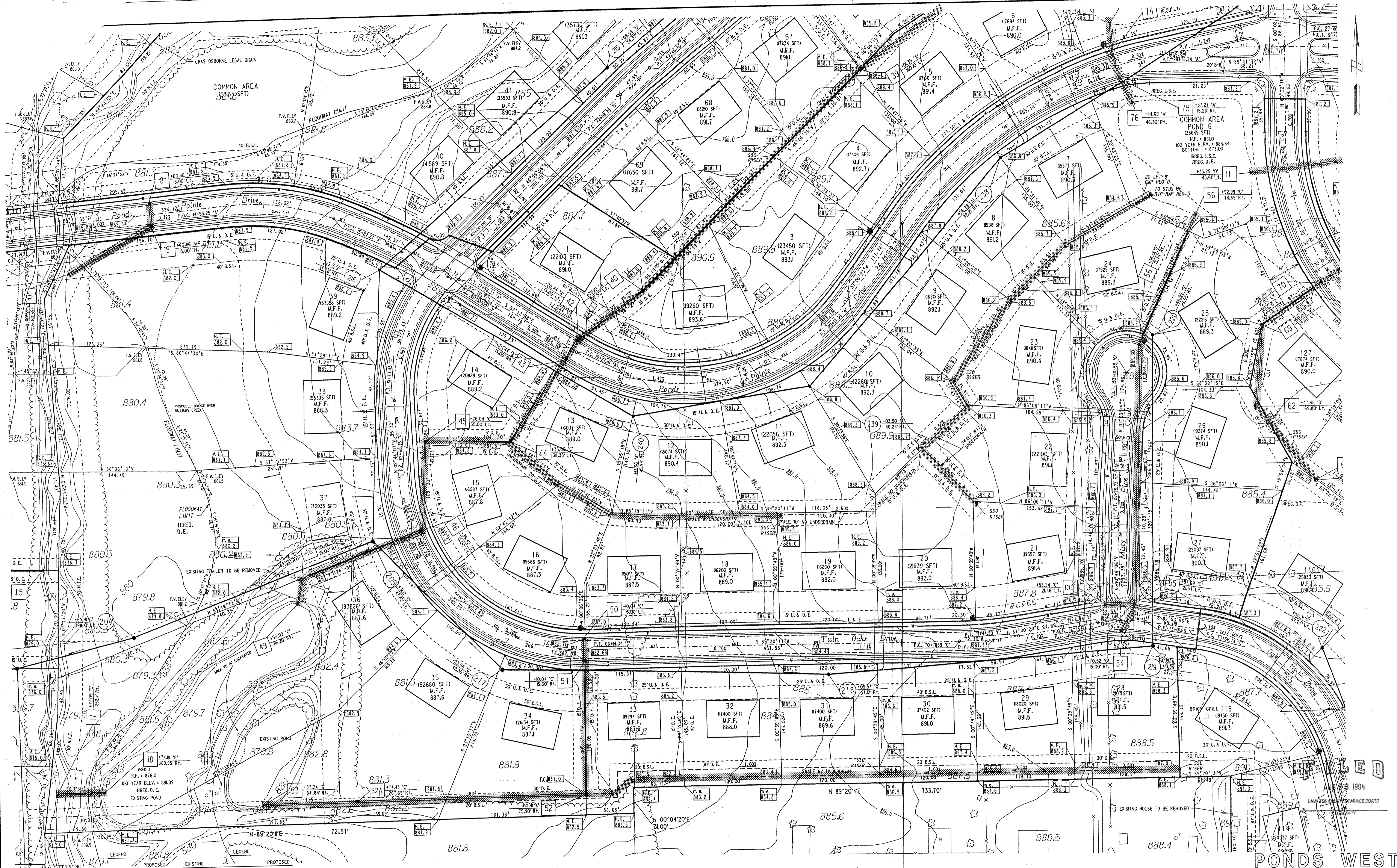
Designed by: BEH
 Drawn by: DSC
 Checked by: BEH
 Approved by: SEB
 Date:

MSE Engineering
 MSE Corporation
 501 Congressional Boulevard
 Suite 110
 Carmel, IN 46032
 317 843-5080
 317 843-5089 FAX

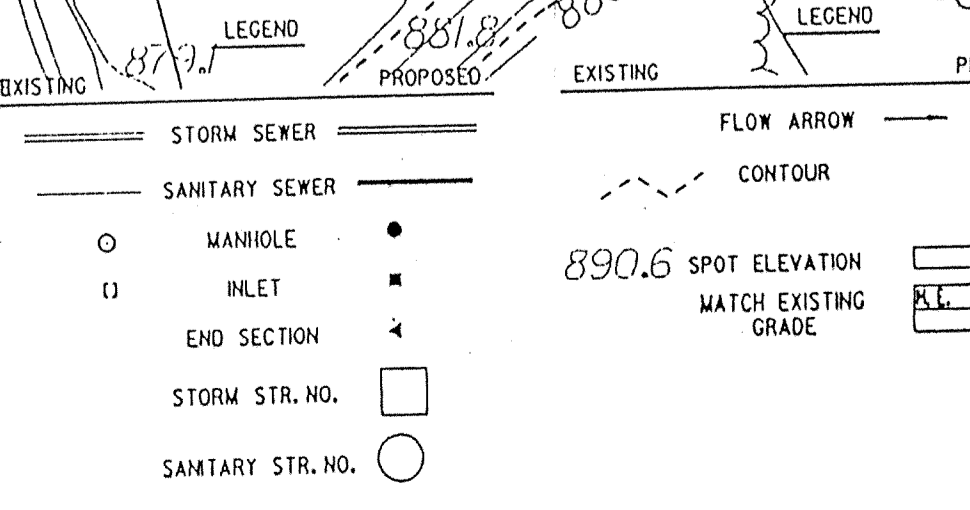
Title: **SITE UTILITY PLAN & GRADING PLAN SECTION 1**
 Scale: 1" = 50' Job No.: 114-0522 Sheet No.: 7 of 82
 DGN: 52268 PRF: 52268 3/8

FILED
 AUG 03 1993
 HAMILTON COUNTY DEPARTMENT OF PUBLIC WORKS

PONDS WEST



Sanitary and Storm AS - BUILTS



Revisions and Dates

3-12-93	Relocate Str 8 & 9, Rev Line A Sta 11-14
3-28-93	Add 20 Lft 8" CMP to S50 outfalls
4-09-93	Changed Street Names
4-20-93	Relocate Str 11 & 12
6-3-93	Rev. C/L grade Line "C" 60'00-69'00
8-2-93	ADD STORM STRUCTURE No. 52A

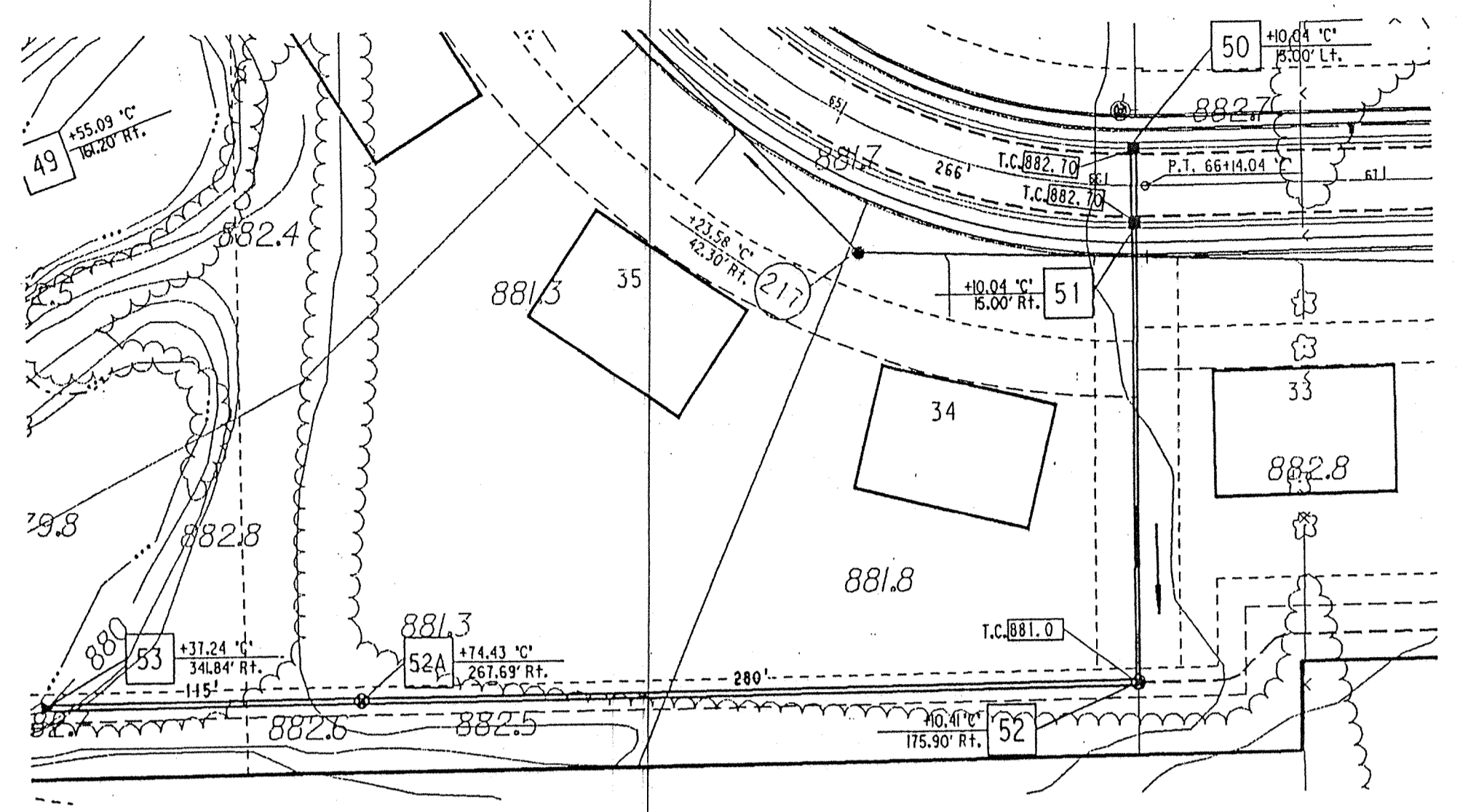
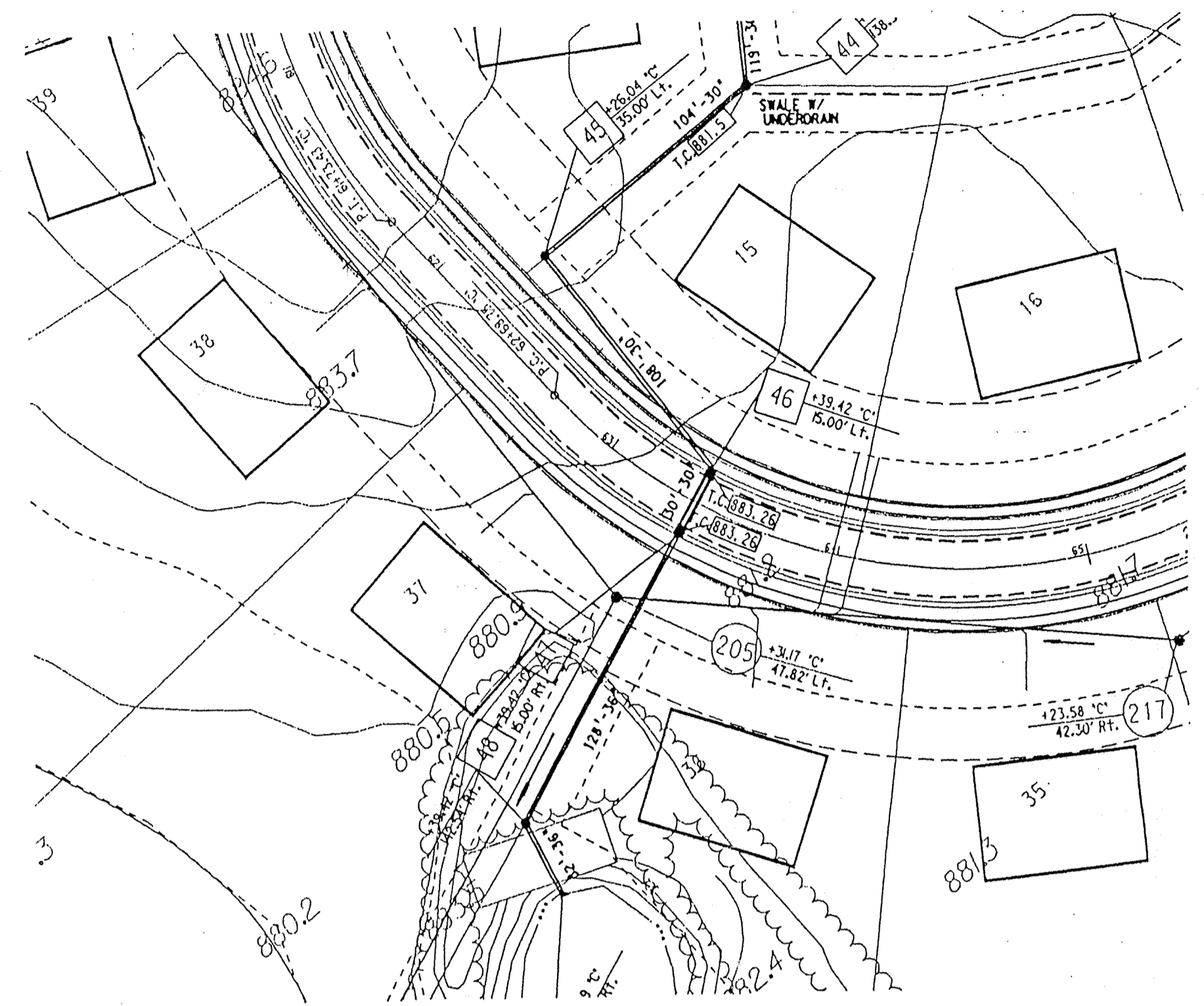
Designed by: BEH
 Drawn by: DSC
 Checked by: BEH
 Approved by: SEB

MSE Engineering
 MSE Corporation
 501 Congressional Boulevard
 Suite 110
 Carmel, IN 46032
 317 843-5080
 317 843-5089 FAX

Title: **SITE UTILITY PLAN & GRADING PLAN SECTION 1**

Scale: 1" = 50'
 Job No.: 4-0522
 Sheet No. 4 of 57

PLAN
 DRAWING
 ALIGNED
 CHECKED
 NO. OF REV.
 DATE



NOTES:
 LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.
 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.



This information was gathered for input into the Hamilton County Information System and is considered all information contained herein to be confidential.

Entry Date: 3-10-04
 Entered by: JOH

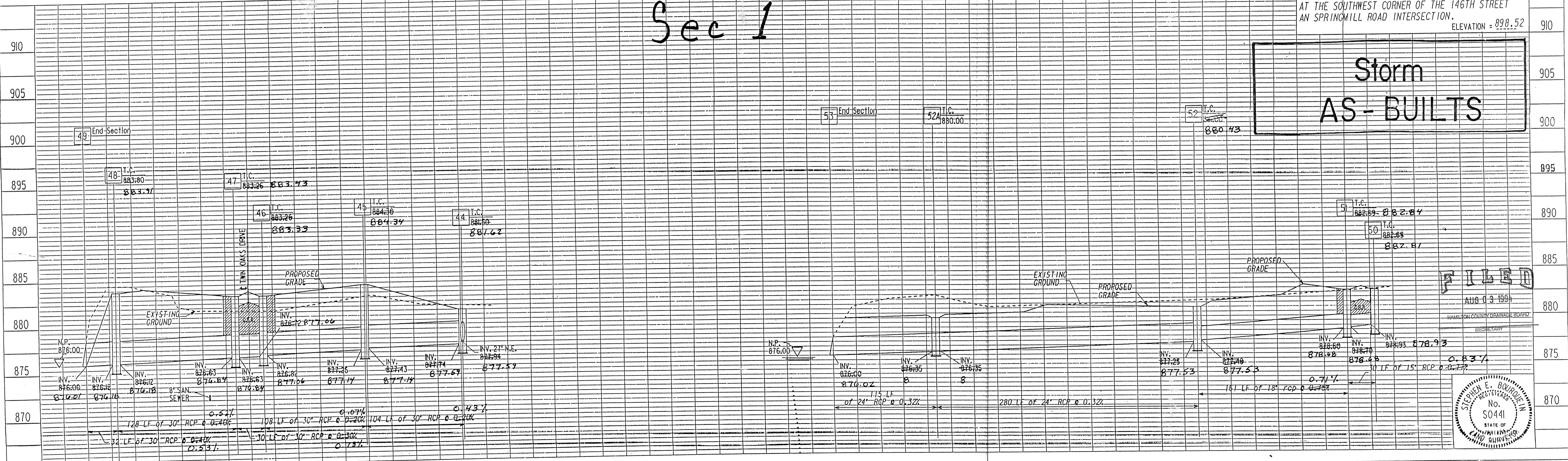
SCALE:
 PLAN: 1" = 50'
 PROFILE: 1" = 5'
 VERTICAL: 1" = 5'
 HORIZONTAL: 1" = 50'

BENCH MARK DESCRIPTION

P.K. NAIL IN THE NORTHWEST FACE OF A POWERPOLE AT THE SOUTHWEST CORNER OF THE 146TH STREET AN SPRINGMILL ROAD INTERSECTION.
 ELEVATION = 898.52

Sec 1

Storm
 AS-BUILTS



PROFILE
 DRAWING
 ALIGNED
 CHECKED
 NO. OF REV.
 DATE

MSE Engineering

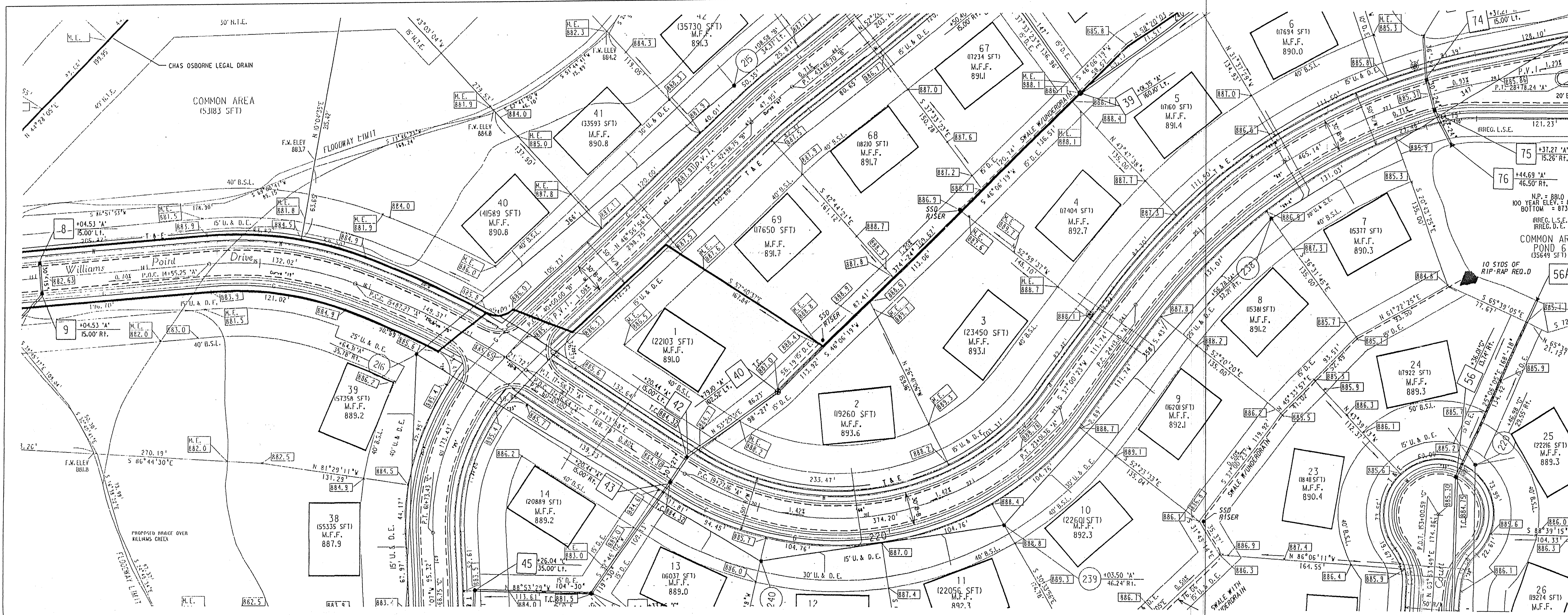
6/3/93 Rev. T.C. & Str. 45 - 47 & 50 - 51
 8/2/93 Added Structure No. 52A PONDS WEST

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DSN	PRF
04-0522		10	18	5225TMS	5225TMS

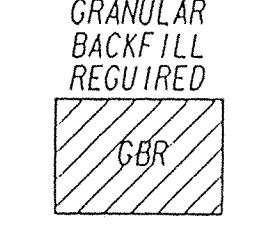
STORM PLAN & PROFILE

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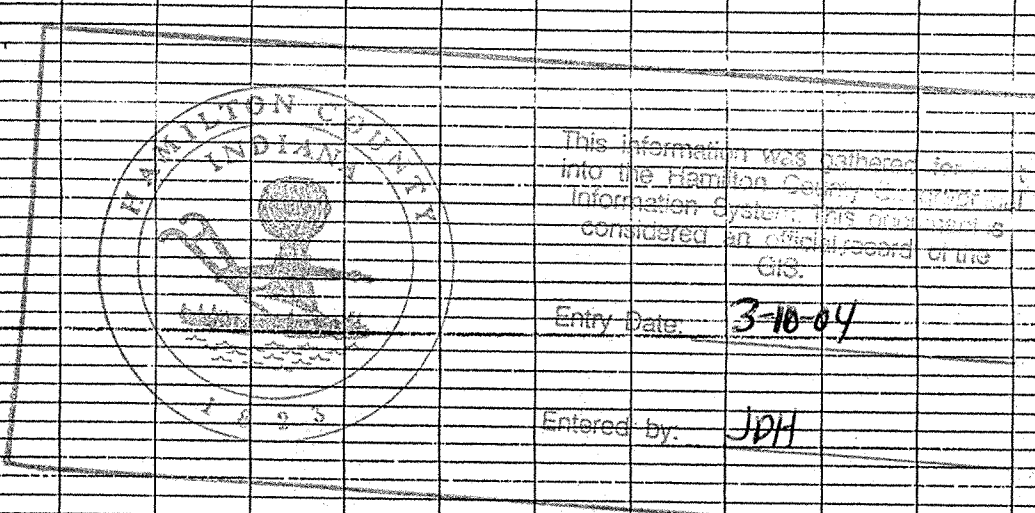
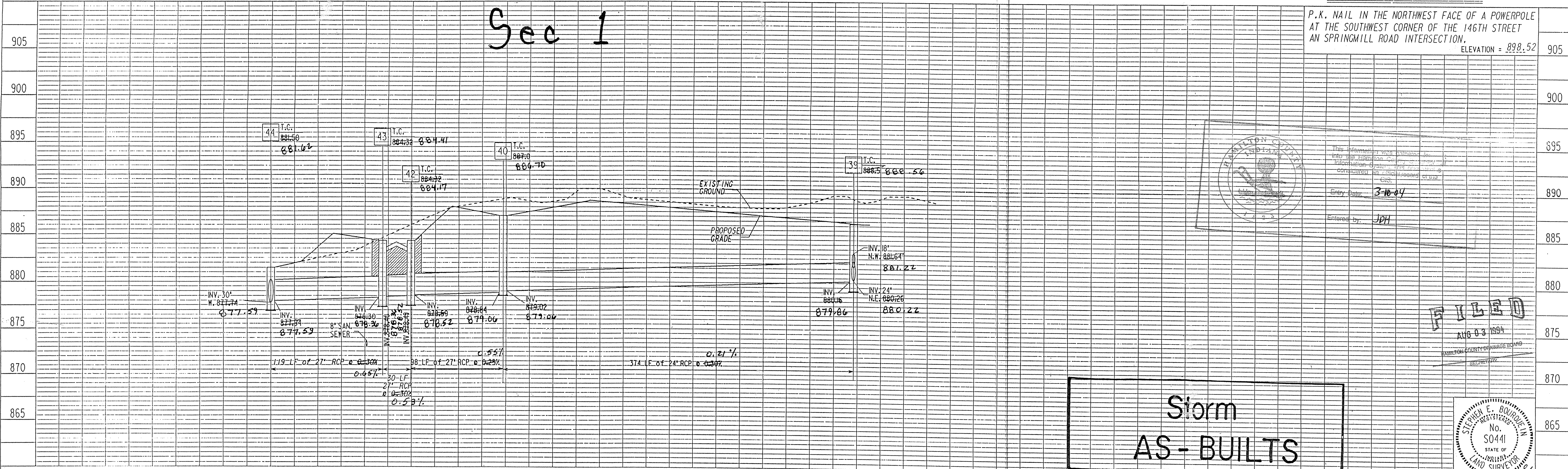


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BENCH MARK DESCRIPTION

Sec 1

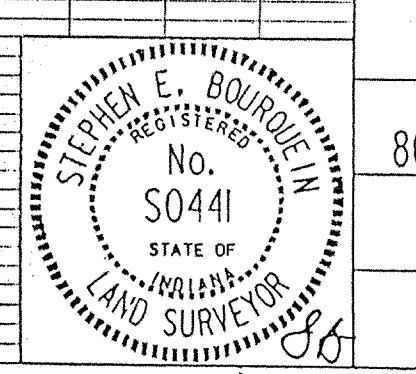
P.K. NAIL IN THE NORTHWEST FACE OF A POWERPOLE AT THE SOUTHWEST CORNER OF THE 146TH STREET AN SPRINGMILL ROAD INTERSECTION. ELEVATION = 898.52



This plan was prepared by the Hamilton County Surveyor's Office. It is a true and correct copy of the original as shown to the Hamilton County Surveyor's Office. Entry Date: 3-10-09 Entered by: JPH

FILED
 AUG 03 1994
 HAMILTON COUNTY ENGINEERING BOARD

Storm AS-BUILTS



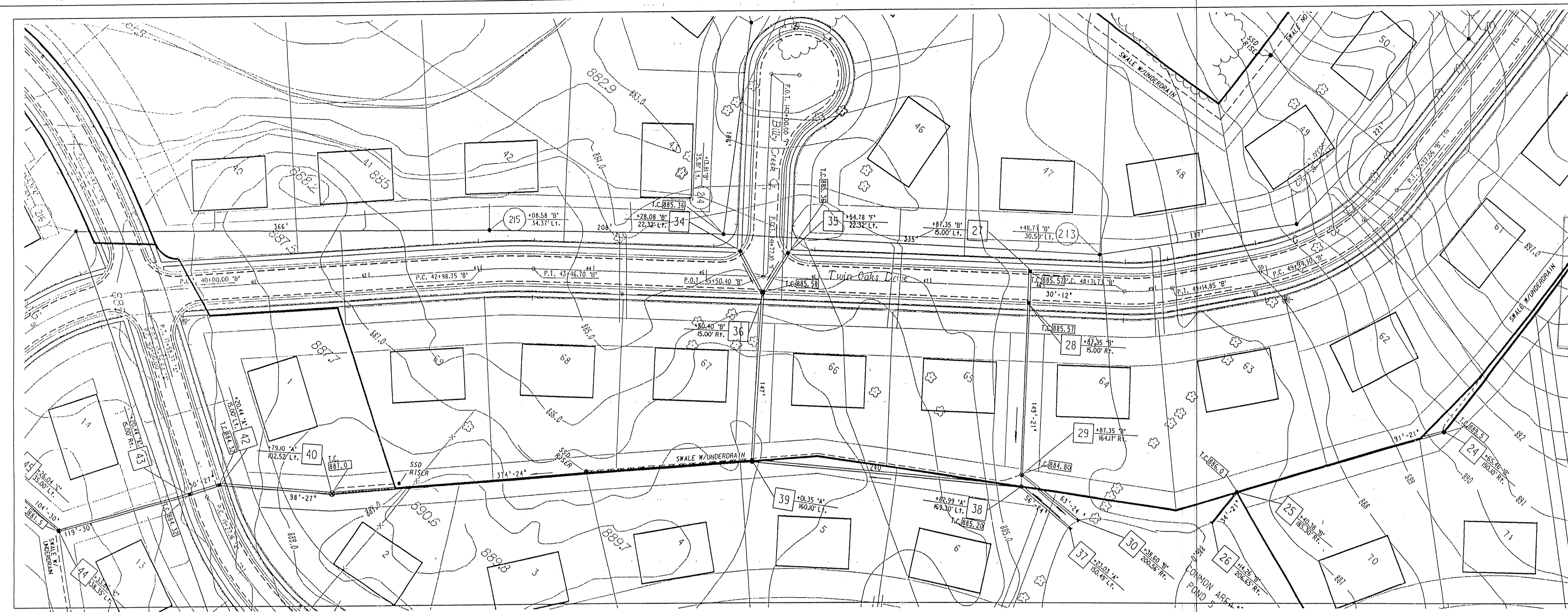
April 14, 1993

MSE Engineering

PONDS WEST

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DGN	PRF
14-0522		11	18	52251M3	52251M3

DATE	
BY	
PLAN	REVISED
NOTES	NOTED
NOTE BOOK	PHASES CHECKED
NO.	BY DATE



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

Entry Date: 3-10-04

Entered by: JDH

NOTES:

LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS.

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.



SCALE:

PLAN: 1" = 50'

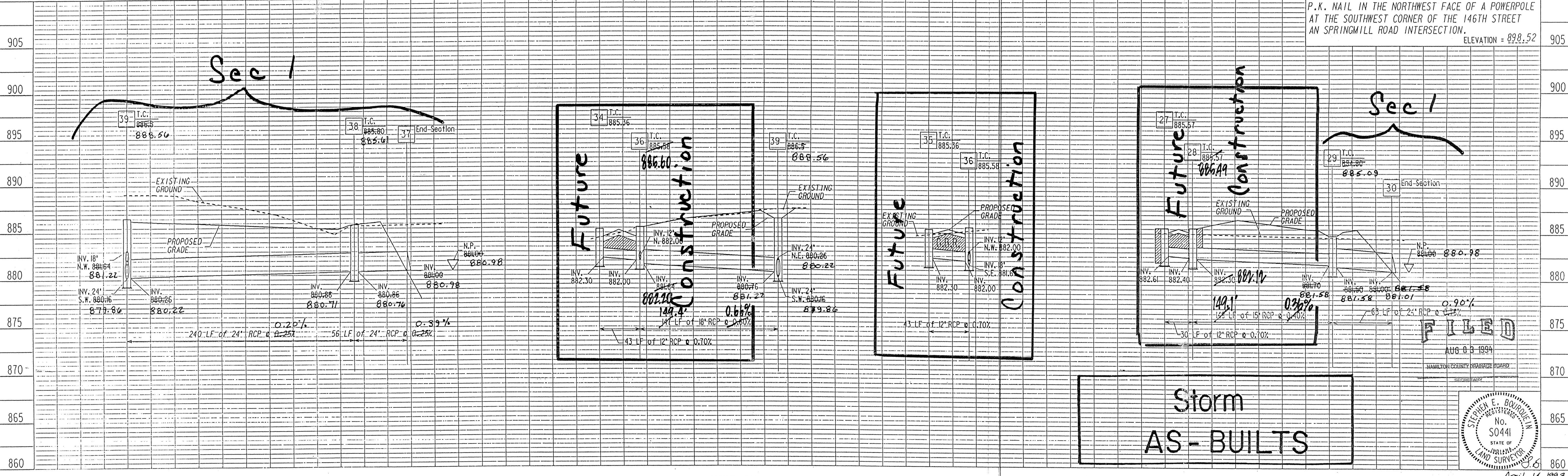
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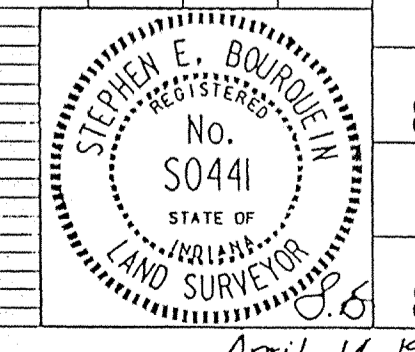
BENCH MARK DESCRIPTION

DATE	
BY	
PROFILE	REVISED
NOTE BOOK	PHASES CHECKED
NO.	BY DATE



P.K. NAIL IN THE NORTHWEST FACE OF A POWERPOLE AT THE SOUTHWEST CORNER OF THE 146TH STREET AN SPRINGMILL ROAD INTERSECTION. ELEVATION = 898.52

Storm AS-BUILTS

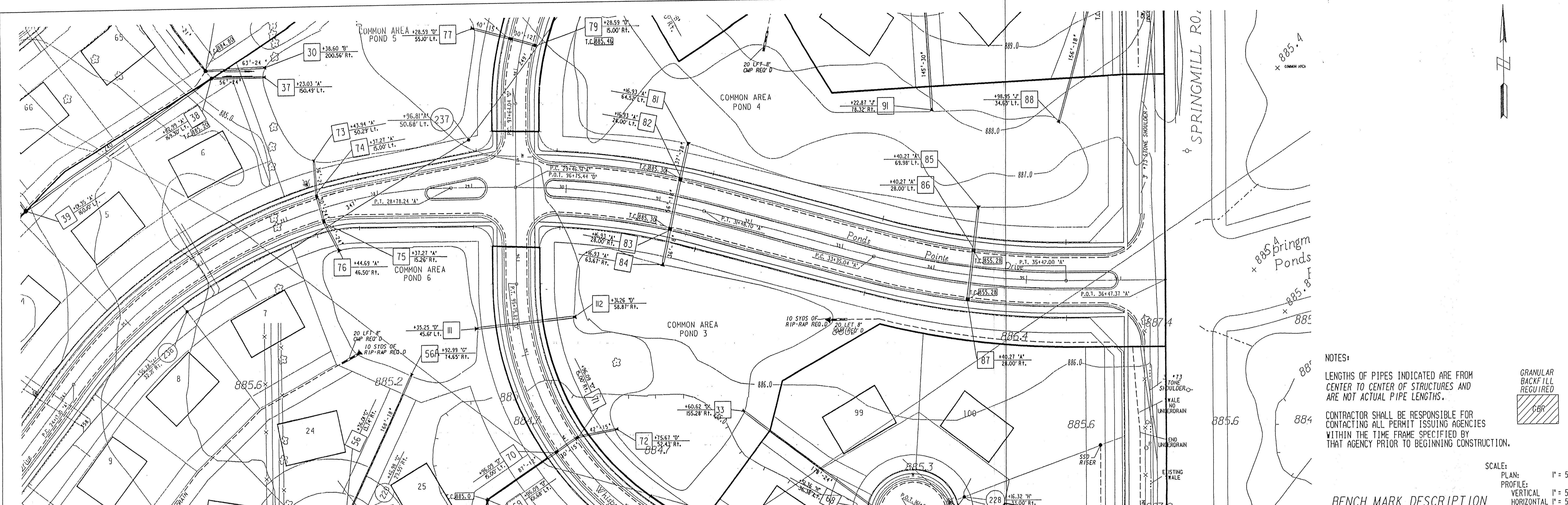


MSE Engineering

PONDS WEST

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DCM	PRF
04-0522		18	18	5225TMB	5225TMB

PLAN	DATE
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	

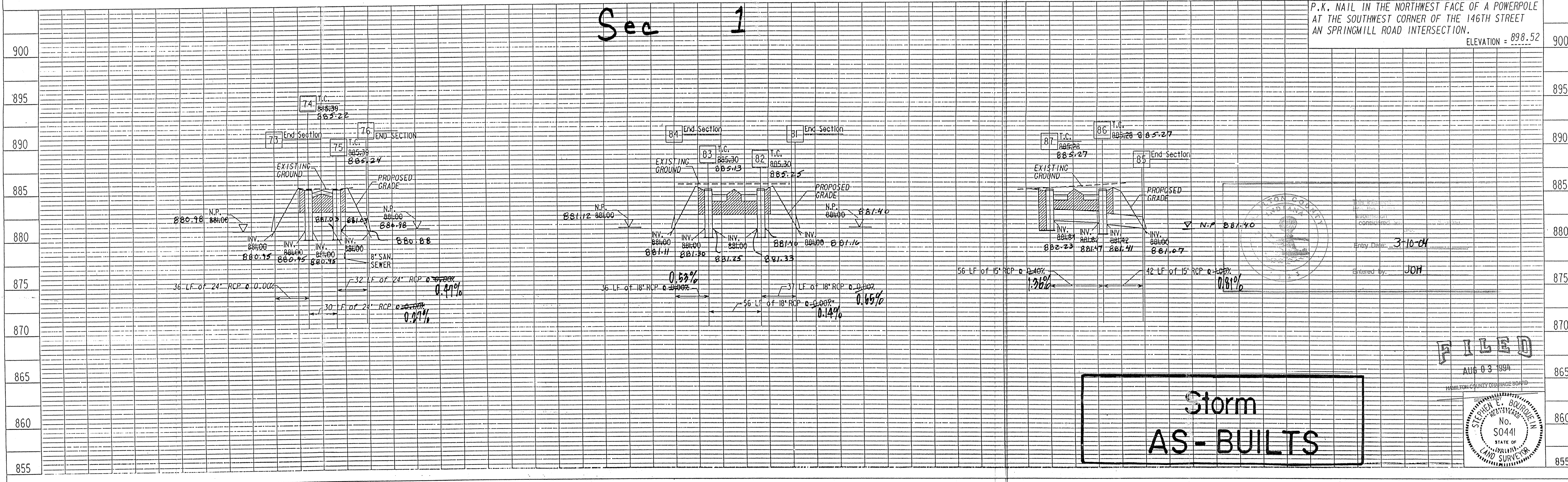


NOTES:
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SCALE: PLAN: 1" = 50'
 PROFILE: 1" = 5'
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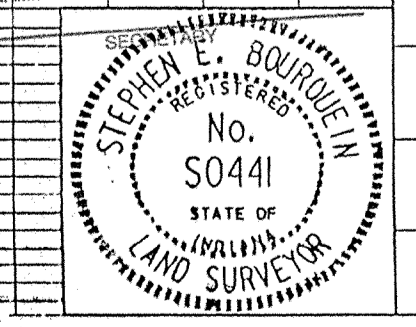
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 P.K. NAIL IN THE NORTHWEST FACE OF A POWERPOLE AT THE SOUTHWEST CORNER OF THE 146TH STREET AN SPRINGMILL ROAD INTERSECTION. ELEVATION = 898.52

PROFILE	DATE
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	



Storm AS-BUILTS

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 AUG 03 1994
 HAMILTON COUNTY ENGINEER BOARD



MSE Engineering

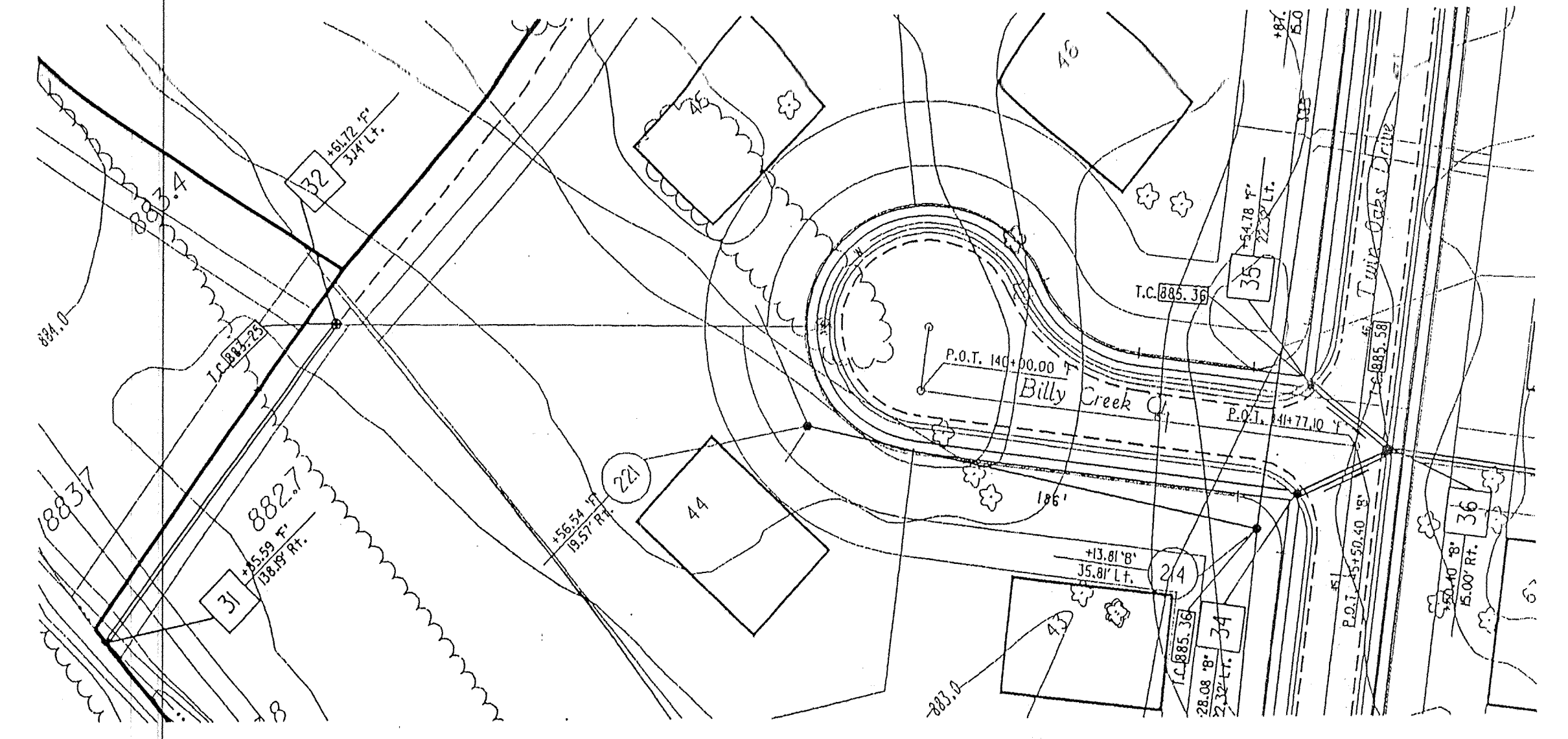
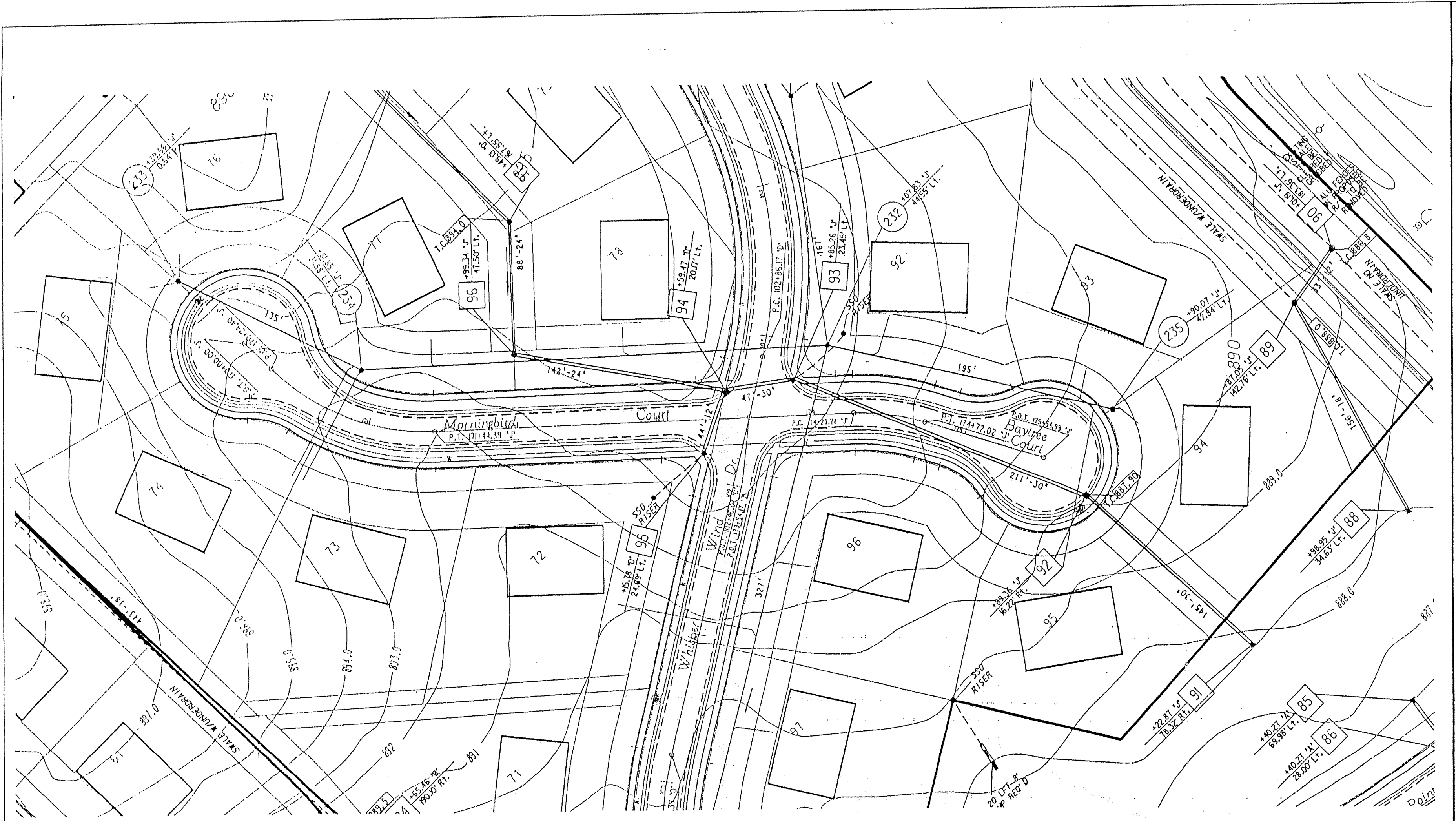
PONDS WEST

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DCN	PRF
14-0522		13	13	5225143	5225143

4-20-93 Relocate Sir III & II 2 16

STORM PLAN AND PROFILE

PLAN
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NOTE BOOK: _____
 NO. _____



NOTES:
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 CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.

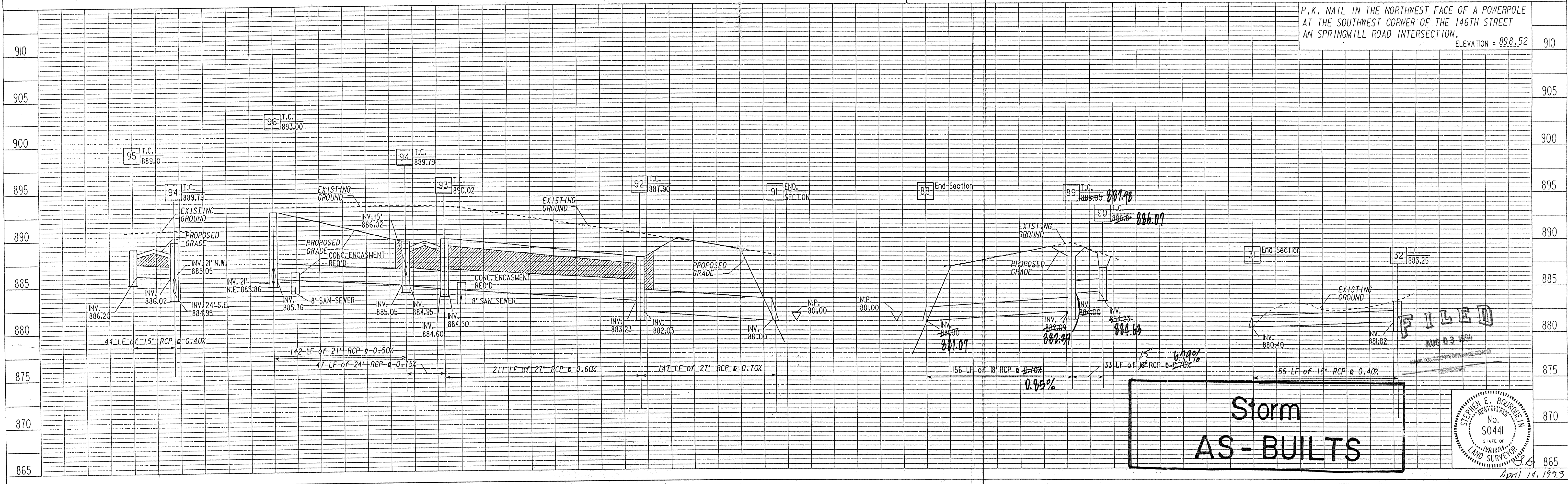
GRANULAR BACKFILL REQUIRED
 CBR

SCALE:
 PLAN: 1" = 50'
 PROFILE: 1" = 5'
 HORIZONTAL: 1" = 50'

BENCH MARK DESCRIPTION

P.K. NAIL IN THE NORTHWEST FACE OF A POWERPOLE AT THE SOUTHWEST CORNER OF THE 146TH STREET AN SPRINGMILL ROAD INTERSECTION.
 ELEVATION = 898.52

PROFILE
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 DRAWN BY: _____
 CHECKED BY: _____
 NOTE BOOK: _____
 NO. _____



Storm AS-BUILTS

FILED
 AUG 03 1994

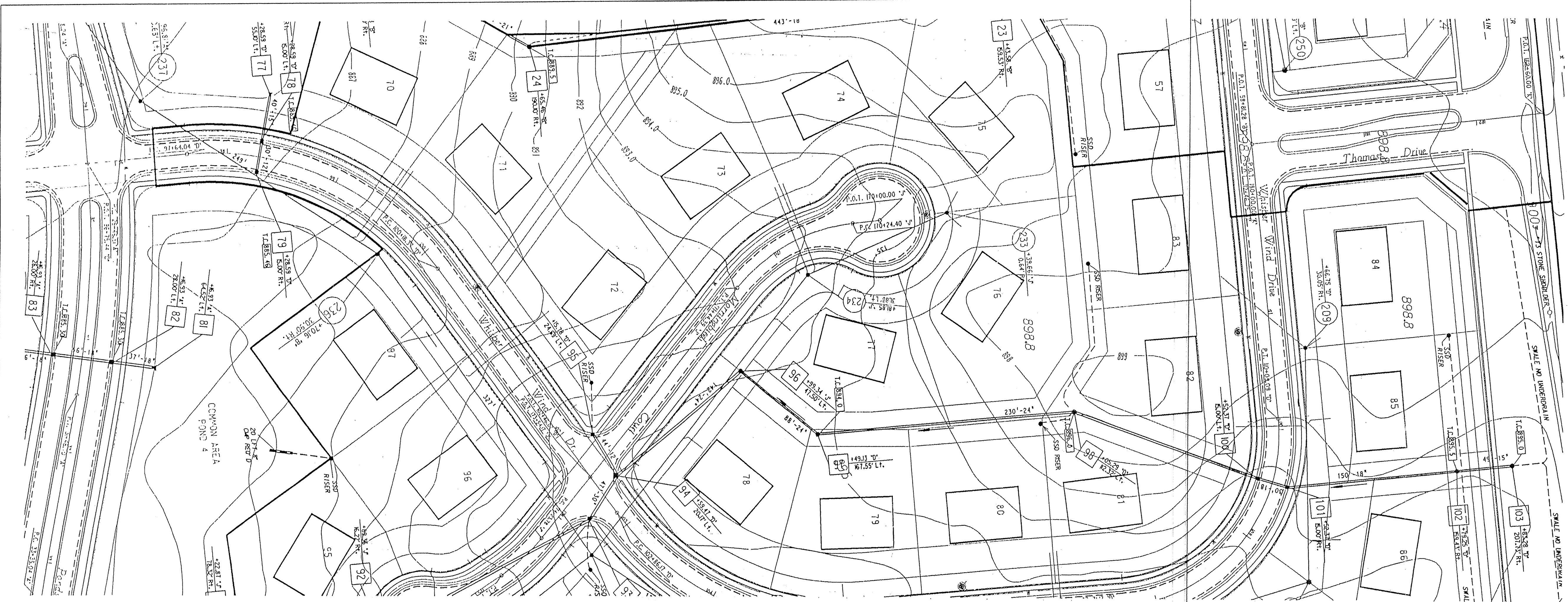
STEPHEN E. BOURDIN
 No. S0441
 STATE OF INDIANA
 LAND SURVEYOR

MSE Engineering

PONDS WEST		PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DATE	DATE
		14-0522	27A	52	18	5/25/94	5/25/94

DATE	
BY	
REVISION	
DATE	
BY	
REVISION	
DATE	
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REVISION	
DATE	
BY	
REVISION	

PLAN
 DRAWING
 AS SHOWN
 NOT CHECKED
 BY
 DATE



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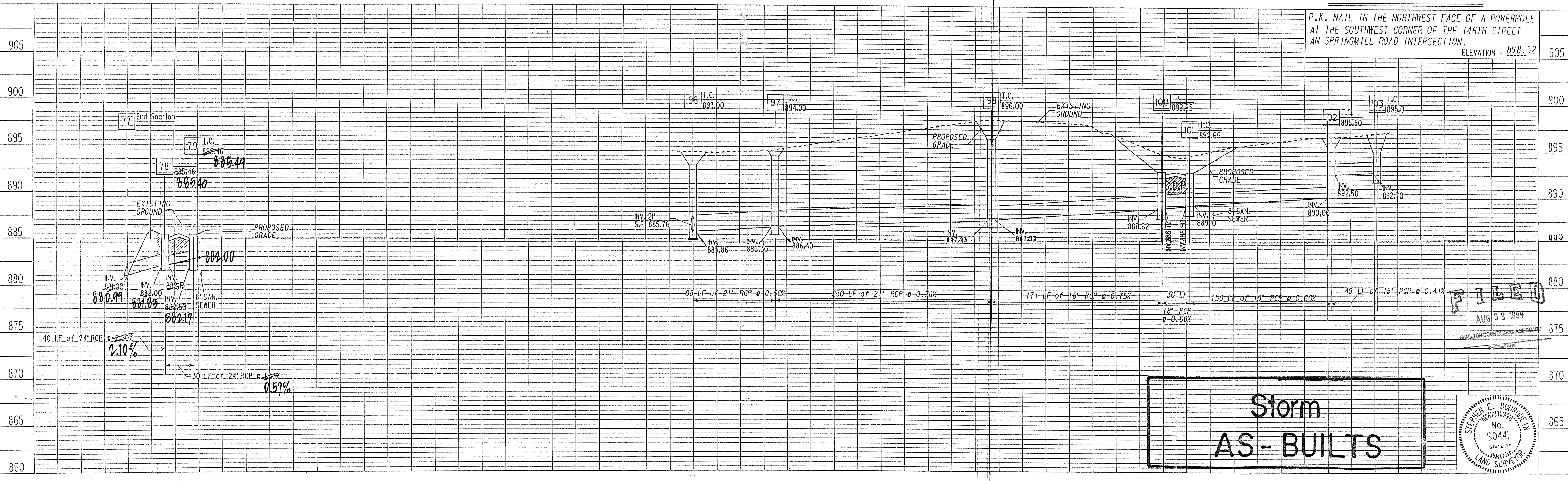
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 PROFILE: 1" = 5'
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BENCH MARK DESCRIPTION

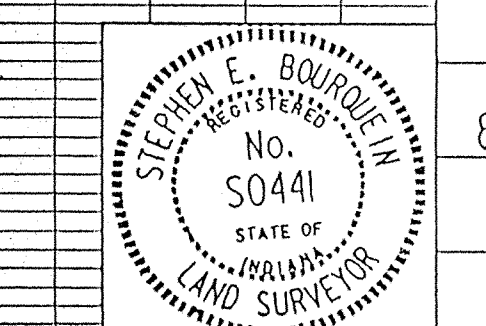
P.K. NAIL IN THE NORTHWEST FACE OF A POWERPOLE AT THE SOUTHWEST CORNER OF THE 146TH STREET AN SPRINGMILL ROAD INTERSECTION. ELEVATION = 898.52

DATE	
BY	
REVISION	
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REVISION	

PROFILE
 DRAWING
 AS SHOWN
 NOT CHECKED
 BY
 DATE



Storm AS-BUILTS

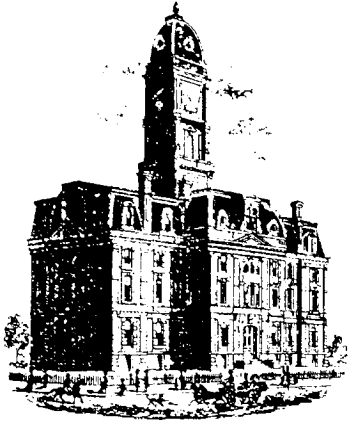


MSE Engineering

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DN	PRF
14-0522		21/5	27	52251W2	52251W2

3-12-93 Adjust T.C. Str 103
 3-28-93 Rev Profile 77-79
 3-28-93 Add Profile III-12
 4-20-93 Relocate Str III-12, Delete Profile

STORM PLAN AND PROFILE



Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

Map Correction-Field Verification

Drain Number: #254

Drain Length: 11,709

Drain Name: Ponds West: Section 1 Arm

Change + / - : -121


Date: 05-28-2009

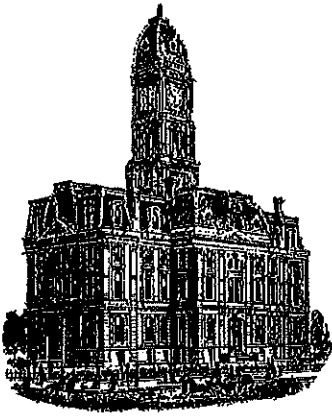
New Length: 11,588

Verified By: SLM & LMC

Notes & Sketch:

The road improvements made to Springmill Rd in 1997 removed 121 feet of 6" SSD at the entrance of Ponds Pointe Dr.


Suzanne L. Mills
GIS Specialist



Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

Map Correction-Field Verification

Drain Number: #315

Drain Length: 11,588

Drain Name: Ponds West Sec. 1

Change + / -: 226

Date: 03-10-2020

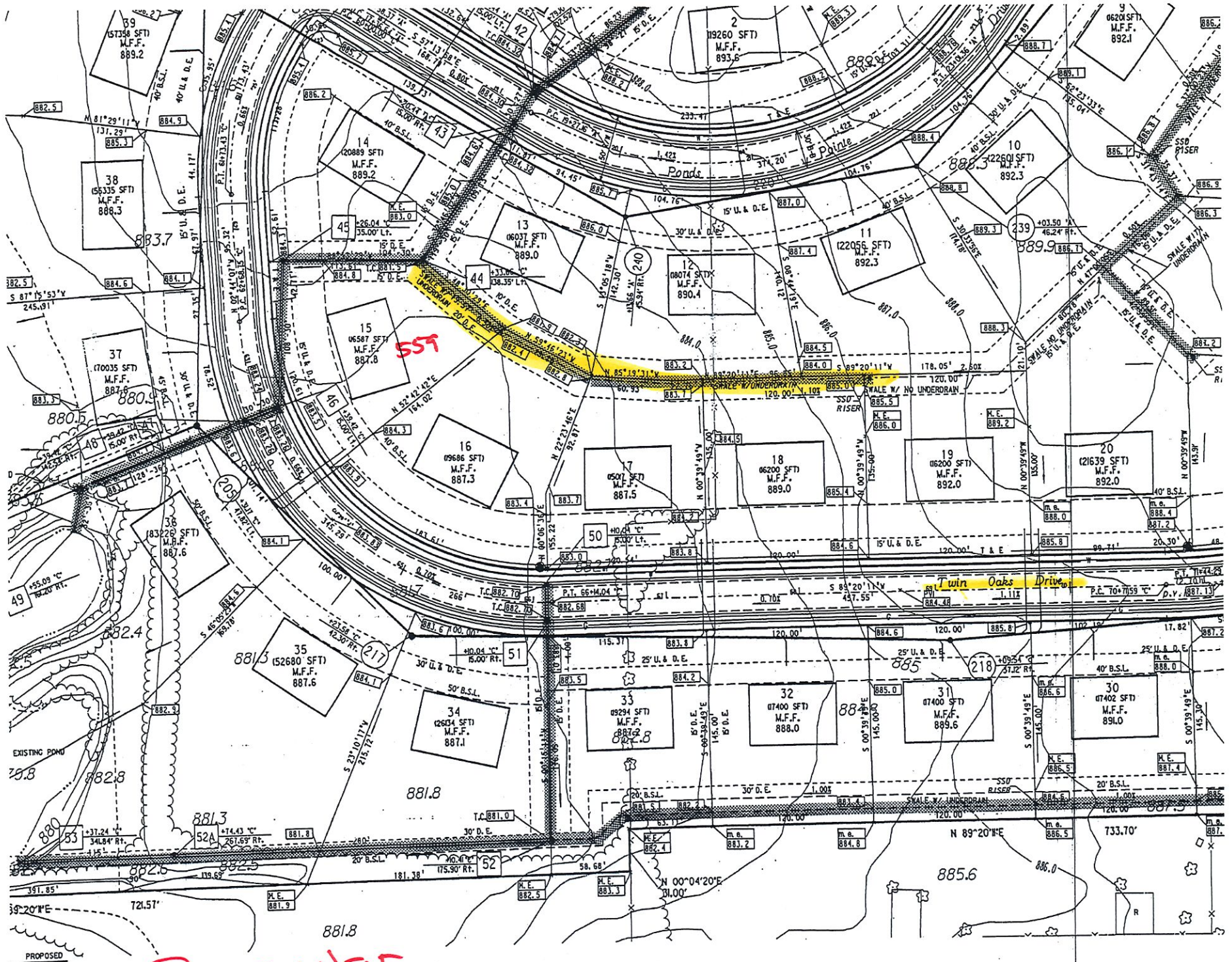
New Length: 11,814

Verified By: SLM, SAB

Notes & Sketch: See attached

Drainage Complaint investigation revealed 327 feet of 6" SSD was installed with the development in 1993 that was not shown on the current mapping. This run of SSD shows on the development plan. It was field verified with this investigation. It starts at the northeast corner of lot 18 and runs north west across the rear yards of lot 17, 16, and 15. The SSD outlets into structure 44. Also, when comparing 6" SSD totals with that of the previous reports, it was over reported in length by 101 feet.

Suzanne L. Mills
GIS Specialist



PONDS WEST
SEC. 1

Sanitary and Storm

Revisions and Dates		Designed by
3-12-93	Relocate Str 8 & 9, Rev Line A Sta II-14	BEH
3-28-93	Add 20 Lft 8" CMP to SSD outfalls	Drawn by DSC