

Drain: PARK NORTHWESTERN DRAIN **Drain #:** 136
Improvement/Arm: PARK NORTHWESTERN - SECTION 1
Operator: JOH **Date:** 8-12-04
Drain Classification: Urban/Rural **Year Installed:** 1981

GIS Drain Input Checklist

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

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

Drain-Improvement: PARK NORTHWESTERN DRAIN - PARK NORTHWESTERN - SECTION 2

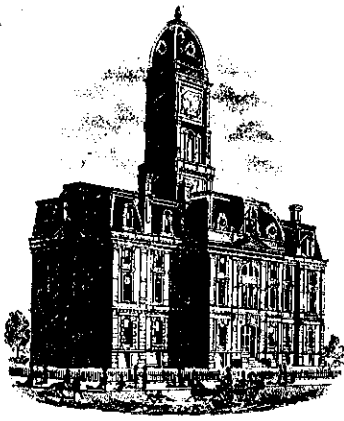
					If Applicable	
Drain Type:	Size:	Length <i>SURVEYED LENGTHS</i>	Length (DB Query)	Length Reconcile	Price:	Cost:
* 550	6"	2,660'	∅	-2,660'	∅	∅
**	8"	∅	955'	+955'	3.00	2,865.00
	12"	45'	45'	∅	7.25	326.25
* 550	18"	400'	∅	-400'	∅	∅
Sum:		3,105'	1,000'	-2,105'		\$3,191.25

Final Report: _____

Comments:

* 6" 550 AND 18" RCP REPLACED IN SECTION 2

** PR AND PLANS DISCREPANCY ON 8" 550 LENGTHS



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

773-6112 Ext. 19

Noblesville, Ind. 46060 April 2 1981

TO: Hamilton County Drainage Board

RE: Park Northwestern Drain

Attached is a petition for establishing the drainage system for the Park Northwestern, Section 1, Subdivision. The petition is in the proper form and has been signed by the owners.

I have examined the subject property and I believe that the improvement is practicable, that it will improve public health, benefit a public street and be of public utility; and that the costs, damages and expenses of the proposed improvement will probably be less than the benefits which will result to owners of lands likely to be benefited.

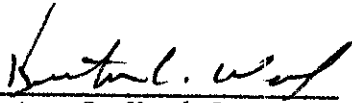
Also attached is a plan showing the location of the proposed legal drain and the drainage easements. A non-enforcement has been included and refers to the plan showing the extent of the reduced easements.

A request to include the drainage system for Section 2 will be submitted in the future. The system for Section 1 is installed and a certification from the Engineer is included.

I have prepared a maintenance assessment roll for the proposed drain which is included in this report.

I recommend that a hearing be set for establishing the system as a legal drain and establishing a maintenance program on July 6, 1981.

KCW/no


Kenton C. Ward-County Surveyor

QUANTITY LIST

- ~~250' of Open Swale - ONLY FROM 1981~~
- ✓ 45' of 12" RCP
- ✓ 200' of 22"x34" RCP HE III
- ✓ 400' of 18" Concrete field tile
- ✓ 1200' of Retaining Area/open swale - ONLY FROM 1981
- 8 ✓ 2660' of 6" Subsurface Drain
- ✓ 1 Breather
- 4 flared end sections for 22"x34' RCP
- 2 flared end sections for 12"RCP
- 2 flared end sections for 18" Concrete Tile

TOTAL LENGHT OF DRAIN 3080' 2305'



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

773-6112 Ext. 19

Noblesville, Ind. 46060 September 1 1982

TO: Hamilton County Drainage Board

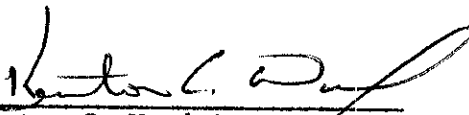
RE: Park Northwestern Drain

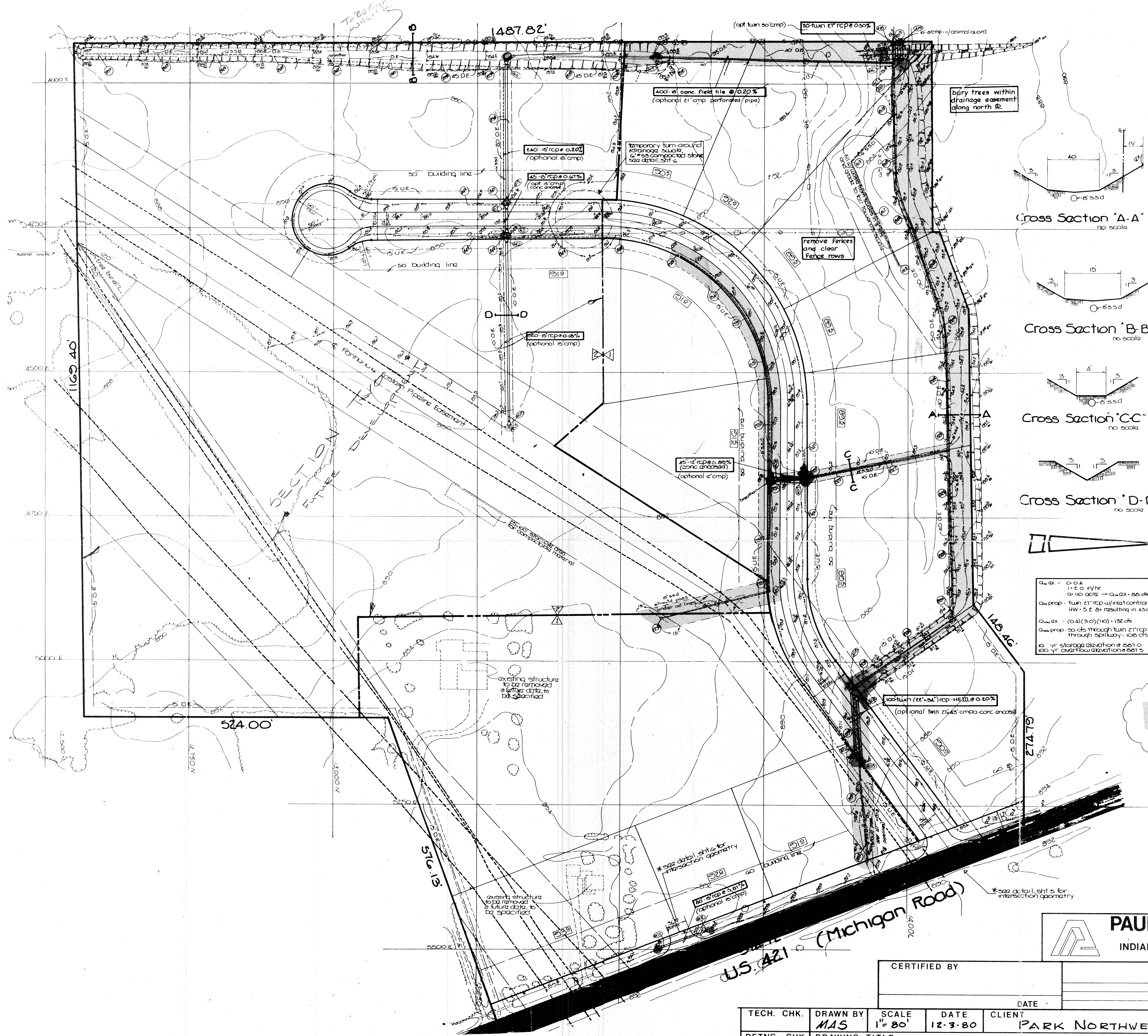
The attached letter dated July 16, 1982 from Mr. Al Oak, Engineer for the developer, certifies that the above named project has been completed as per plan. Upon reviewing the file I find that all items required of the developer and his engineer are present as it relates to Section One. A petition for Section Two will be presented at a later date.

I did find that the non-enforcement request dated February 1981 was not acted upon. At this time I believe it should be approved and signed by the Board. The two attached copies should also be signed and forwarded to Mr. Al Oak per his request.

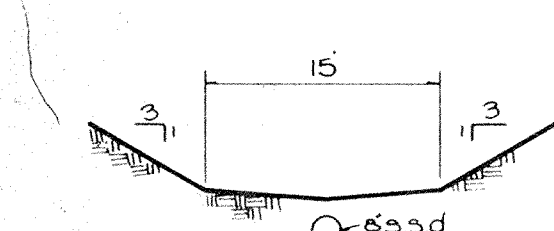
Item three (3) on the nonenforcement was constructed as a swale per plan and remains so.

KCW/no

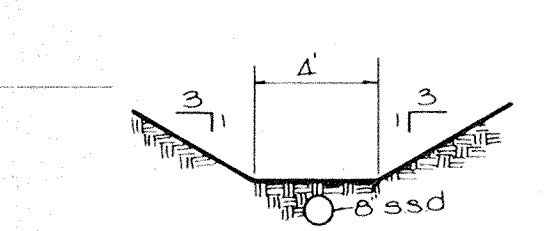

Kenton C. Ward—County Surveyor



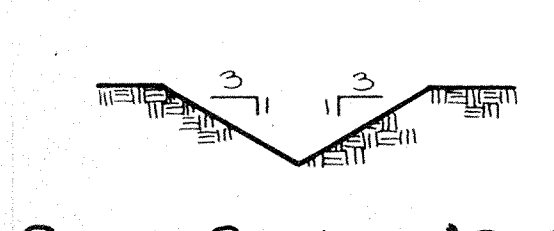
Cross Section 'A-A'
no scale



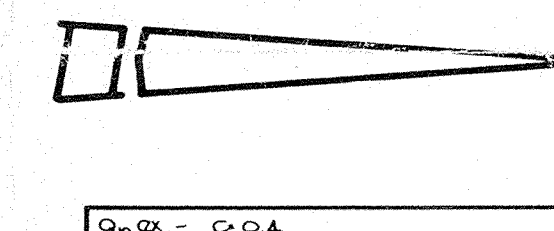
Cross Section 'B-B'
no scale



Cross Section 'C-C'
no scale



Cross Section 'D-D'
no scale



Q_{max} = 0.04
1.20 cfs/hr
0.10 acft — Q_{max} = 88 cfs
Q_{prop} = twin 21" rcp w/ inlet control and
11W-5 Z 21" resulting in 43 cfs per culvert
Q_{max} = (0.4)(3.0)(14) = 132 cfs
Q_{prop} = 50 cfs through twin 21" rcp + 6 cfs
through spillway = 106 cfs
10 yr storage duration = 2000 cfs
100 yr overflow duration = 2000 cfs

= Area covered by Legal Drain

PAUL I. CRIFE, INC. • CIVIL ENGINEERING
 7172 GRAHAM ROAD • LAND SURVEYING
 INDIANAPOLIS, INDIANA 46250 • ARCHITECTURE
 (317) 842-6777 • LAND PLANNING

TECH. CHK.		DRAWN BY	SCALE	DATE	CLIENT	DWG. TYPE	FILE NUMBER	SHEET
DFTNG. CHK.		MAS	1" = 80'	12-3-80	PARK NORTHWESTERN	104		1
DRAWING TITLE						JOB NUMBER		
LEGAL DRAIN EXHIBIT - SECTION ONE						76057-00000		
CERTIFIED BY						REVISIONS		
DATE								