

Drain: VILLAGE PARK ESTATES DRAIN **Drain #:** 91
Improvement/Arm: VILLAGE PARK ESTATES-SECTION 2
Operator: JDH **Date:** 6-9-04
Drain Classification: Urban/Rural **Year Installed:** 1988

GIS Drain Input Checklist

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



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

776-9626

Noblesville, Ind. 46060 July 28, 1988

TO: Hamilton County Drainage Board

RE: Village Park Estates Drain, Section 1

Attached is a petition, non-enforcement request, plans, calculations, cost estimate and assessment roll for the Village Park Estates Drain, Section 1.

I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable; will improve the public health; benefit a public highway and be of public utility and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefitted. The drain will consist of the following:

6" SSD	685 feet	18" RCP	195 feet	42" RCP	612 feet
12" RCP	789 feet	21" RCP	270 feet	48" RCP	1038 feet
15" RCP	363 feet				

The total length of the drain will be 3,952 feet.

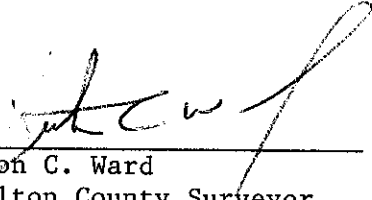
The retention pond within the common area will not be a portion of the regulated drain. The regulated drain will enter and exit the pond at structures 7,32,33 and 6.

I have reviewed the the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I recommend a maintenance assessment of \$50.00 per lot, \$5.00 per acre for roadways, with a \$50.00 minimum. With this assessment the total annual assessment for the drain/this section will be \$2250.00.

The SSD which has been included in this portion of the drain , runs into structures 3,4,13,22,31 and 29. The storm sewer included in this portion of the drain is between structures ~~1,2,3,4,5,6,7,8,22,23,24,25,27,28,29,9,10,11,12,13,14,15,16,17,33,34,35,36~~ and the off site storm sewer between STR 35 and Cool Creek.

I recommend a hearing be set for October 1988.

KCW/no



Kenton C. Ward
Hamilton County Surveyor

VILLAGE PARK
ESTATES
SEC 1

BANK ONE

BANK ONE, INDIANAPOLIS, NA
Indianapolis, Indiana 46277

July 15, 1988

Irrevocable Credit No. S-3122-G
Hamilton County Drainage Board
Court House
Noblesville, Indiana



Gentlemen:

We hereby authorize you to value on us for the account of
Eagle Cove Associates
2935 East 96th Street
Indianapolis, Indiana 46240

For a sum or sums in U.S. Dollars not exceeding a total of: One hundred
fifty-three thousand one hundred forty-seven and 00/100
*****USD 153,147.00

Available by drafts at sight drawn on Bank One, Indianapolis, NA, Indianapolis,
Indiana.

PURPOSE: Storm sewers and drainage

Drafts must be presented to the drawee not later than June 30, 1989 at our
counters.

All drafts must be marked, "Drawn under Bank One, Indianapolis, NA,
Indianapolis, IN Credit No.S-3122-G".

We hereby agree with you that drafts drawn under and in compliance with the
terms of this credit shall be duly honored on due presentation to the drawee.

This credit is subject to Uniform Customs and Practice for Documentary Credits
(1983 Revision) ICC Publication No. 400.

Yours very truly,

Bank One, Indianapolis, NA

BOARD OF COMMISSIONERS
OF THE COUNTY OF HAMILTON

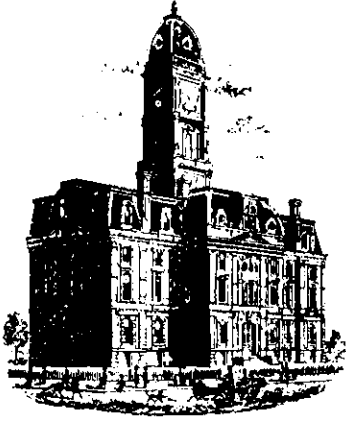
James A. Bell

John C. Dellinger

[Signature]

Jan 3, 1989

Kathleen A. Hurst
Authorized Signature



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

To: Hamilton County Drainage Board

September 18, 1997

Re: Village Park Estates Drain: Sec. 1 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Village Park Estates 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 July 28, 1988. The changes are as follows:

12"RCP 789 feet 15"RCP 401 feet 18"RCP 157 feet 21"RCP 270 feet

42" RCP 612 feet 48"RCP 1041 feet 6"SSD 690 feet

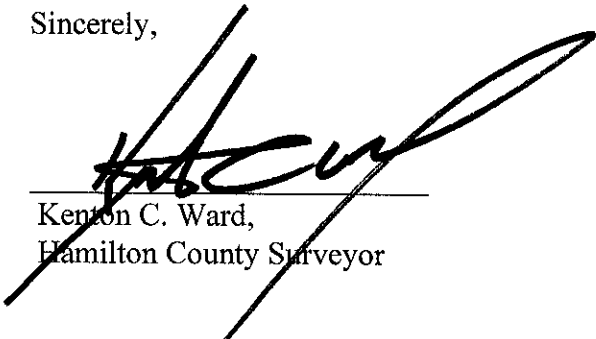
The length of the drain due to the changes described above is now **3,960 feet**.

The non-enforcement was approved by the Board at its meeting on November 14, 1988 and recorded under instrument #8824466.

The bond or letter of credit from Bank One, number s-3122-g; dated July 15, 1988; in the amount of \$153,147.00; has expired.

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

Sincerely,


Kenton C. Ward,
Hamilton County Surveyor

KCW/slm

Asbuilt Structures

190
235
425

Project: Village Park Est. Sec. 1

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

36	824.77	821.44				
35	820.74	817.54	12"	245'	✓	
35	820.74	814.26				
34	823.44	814.96	48"	230'	✓	
34	823.44	814.96				
33	—	815.00	48"	35'	✓	
1	820.52	816.75				
2	819.92	816.22	12"	141'	✓	
2	819.92	816.22				
3	821.15	815.79	15"	160'	✓	
3	821.15	817.05				
4	821.02	817.67	12"	28'	✓	
3	821.15	815.79				
5	818.65	815.33	15"	138'	✓	
5	818.65	815.33				
6	—	815.11	18"	32'	✓	
7	—	814.82				
8	821.78	815.48	48"	130'	✓	

6" SSD Streets:

STR 3	65 50' ✓
STR 4	60' ✓
STR 13	155' ✓
STR 29	180' ✓
STR 31	180'

Total: 625

6" SSD Lots:

STR 22	65' ✓

Total: 65

draft
690'

RCP Pipe Totals:

12"	789'
15"	401'
18"	157'
21"	270'
42"	612'
48"	1041'

Other Drain:

Total Length of Drain:

3940'

Asbuilt Structures

Project: Village Park Est. Drain Sec. 1

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

8	821.78	815.48				
9	821.62	815.62	42"	60'	✓	
9	821.62	815.62				
11	821.27	815.87	18"	20'	✓	
11	821.27	815.87				
10	821.27	816.66	12"	38'	✓	
11	821.27	815.87				
12	821.01	816.05	15"	38'	✓	
12	821.01	816.05				
13	821.05	816.22	12"	38'	✓	
9	821.62	815.62				
14	823.21	815.87	42"	177'	✓	
14	823.21	815.87				
15	823.20	816.02	42"	60'	✓	
15	823.20	816.07				
16	823.39	818.54	42"	165'	✓	
16	823.39	818.54				
17	823.70	819.45	42"	150'	✓	

6" SSD Streets:

Total: _____

6" SSD Lots:

Total: _____

RCP Pipe Totals:

Other Drain:

Total Length of Drain: _____

Asbuilt Structures

Project: Village Park Est. Sec. 1

Structure: T.C.: I.E.: Pipe: Length: Original Plans: Difference:

Ø	821.78	815.48				
22	821.06	816.21	21"	140'	✓	
22	821.06	816.21				
23	826.57	817.11	21"	130'	✓	
23	826.57	817.11				
24	825.81	817.71	18"	105'	✓	
24	825.81	817.71				
25	823.67	818.22	12"	160'	✓	
24	825.81	817.71				
27	823.89	819.24	15"	65'	✓	
27	823.89	819.24				
20	824.38	820.05	12"	35'	✓	
27	823.89	819.24				
29	823.82	818.99	12"	38'	✓	
35	820.74	814.26				
Behive	818.15	812.93	278	48"	✓	Additional STR
Behive	818.15	812.85				
37	818.90	812.65	165'	48"	✓	

6" SSD Streets:

Total: _____

6" SSD Lots:

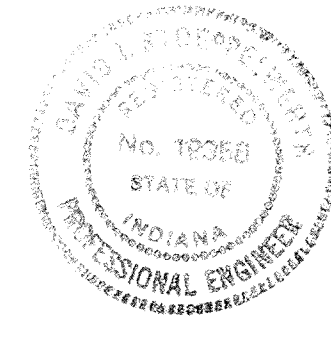
Total: _____

RCP Pipe Totals:

Other Drain:

Total Length of Drain: _____

DRAINAGE "AS-BUILT" PLAN of VILLAGE PARK ESTATES



DAVID J. STOEPPELWERTH DATE
Professional Engineer
No. 19358

SPT 2 8 90

SHEET NO.	2
OF 11 SHEETS	
JOB NO.	10265
DATE	4/1/04
BY	JDH
REVISIONS	
MARK/DATE	
INDIANAPOLIS	
WESTFIELD	
STOEPPELWERTH & ASSOCIATES, INC.	
CONSULTING ENGINEERS & LAND SURVEYORS	



SCALE: 1"=50'

LEGEND

- EXIST. STORM SEWER
 - PROPOSED STORM SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED CONTOUR
 - EXIST. CONTOUR
 - EXIST. SPOT ELEV. (PENCIL)
 - PROPOSED SPOT ELEV. (INK)
 - PROPOSED DRAINAGE DIRECTION
- DENOTES "AS-BUILT" ELEVATION

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: 6-10-04

Entered by: JDH

- BENCH MARKS:
1. TOP OF WEST BONNET NUT OF F.H. 10 SOUTH OF NORTH PROPERTY LINE ON WEST SIDE OF STREET. ELEV. 817.52
 2. TOP OF WEST BONNET NUT OF F.H. 300 N. OF 146th ST. W. SIDE GRASSY BRANCH ELEV. 840.50
 3. TOP OF N. BONNET NUT F.H. 150' WEST OF INT. 146th & GRASSY BRANCH ELEV. 840.26
 4. TOP OF N. BONNET NUT F.H. 850' WEST OF E. INT. 146th & GRASSY BRANCH ELEV. 829.54
 5. TOP OF N. BONNET NUT OF F.H. N. SIDE 146th 50' WEST OF WEST PROPERTY LINE. ELEV. 824.57

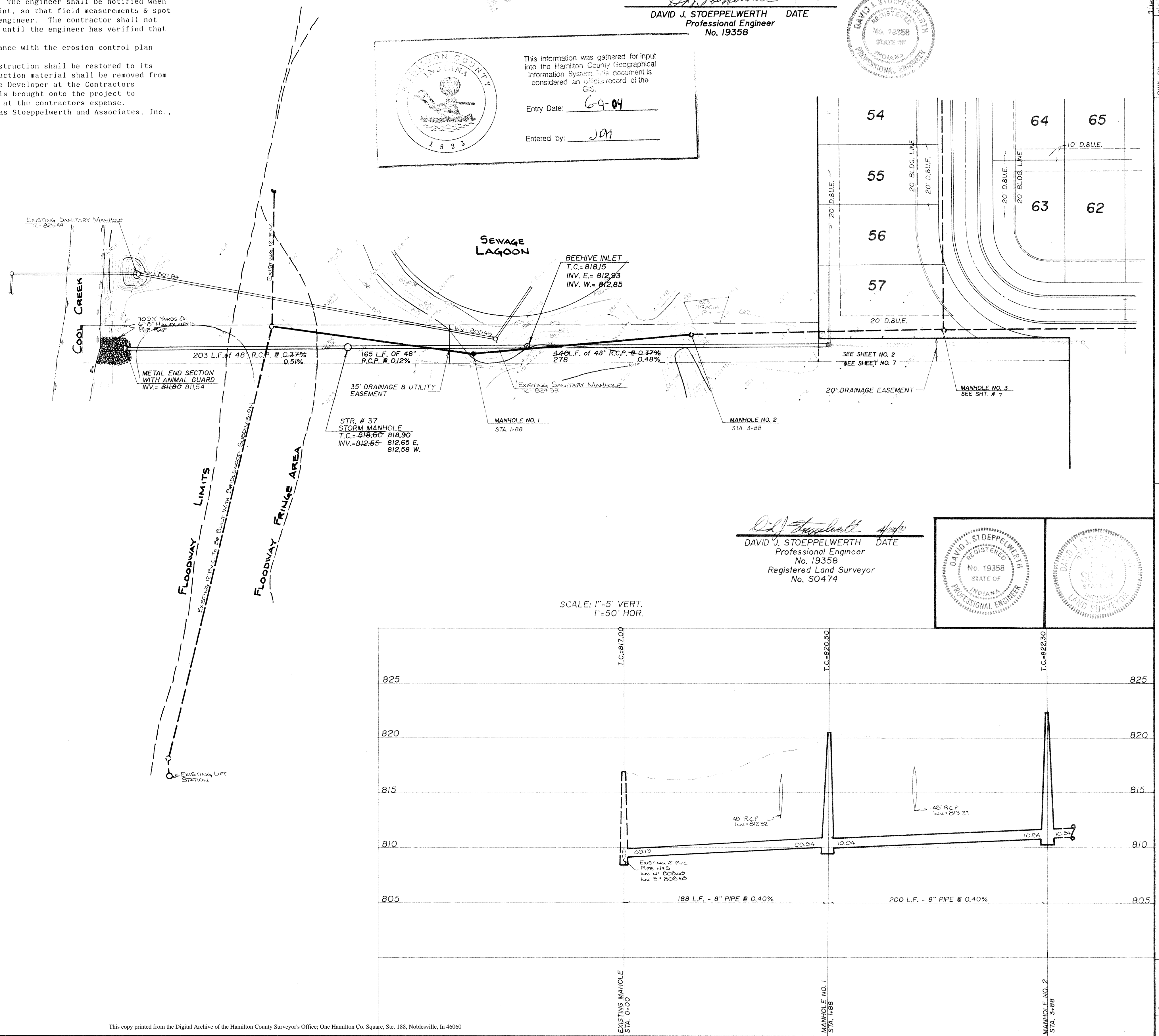
DAVID J. STOEPPELWERTH DATE
Professional Engineer
No. 19358
Registered Land Surveyor
No. 50474

NOTES:

1. **STREET CONSTRUCTION**
 - a. All new pavement construction shall comply with current specifications of Hamilton County and those of the Indiana Department of Highways (I.D.O.H.), with respect to design, materials and methods of construction.
 - b. Subgrade shall be prepared in compliance with Section 207 of the Standard Specifications of the I.D.O.H. No traffic will be permitted on the subgrade prior to paving.
2. **CURB AND GUTTER CONSTRUCTION**
 - a. Two-foot rolled curb and gutter construction shall comply with current Hamilton County specifications.
 - b. 1" Transverse Expansion Joints are required at the ends of all returns, and all intervals not to exceed 100 feet. Joints shall be filled with preformed joint filler.
 - c. Transverse Construction Joints shall be installed at 20 foot intervals, and shall be filled with 1/4" preformed joint material.
 - d. Backfill shall comply with current Hamilton County specifications.
3. **STORM SEWER CONSTRUCTION**
 - a. Storm Sewer structures shall comply with the current Hamilton County specifications as to design and quality of construction.
 - b. Material Specifications
 - (1) All reinforced concrete pipe (R.C.P.) shall conform to A.S.T.M. C76-70, Class III latest revision, with joints conforming to A.S.T.M. C-433 latest revision.
 - (2) All corrugated metal pipe (C.M.P.) shall be standard helical pipe and shall be fully bituminous coated under paved areas (minimum thickness of 0.05 inches).
 - (3) All high density polyethylene resin pipe (P.R.P.) & fittings shall meet or exceed the requirements of Type III, Category 4 or 5, Grade P33 or P34, Class C per ASTM D1248.
 - (4) All manholes and inlets shall be precast concrete, constructed in accordance with current Hamilton County specifications and shall conform to A.S.T.M. C-478 latest revision. Covers shall be of type specified on the Detail Sheet and conforming to A.S.T.M. A-48 latest revision.
4. **SANITARY SEWER CONSTRUCTION**
 - a. Ten State Standards shall prevail as to materials and methods of construction.
 - b. The contractor shall furnish all bonds necessary to get permits prior to starting construction, and shall verify all existing utility locations around the proposed construction site. The contractor shall notify Hamilton Western Utilities one week prior to beginning any sanitary sewer construction. The developer shall be responsible for all approvals, permits, and easements.
 - c. NO CONSTRUCTION WILL BE ALLOWED TO BEGIN PRIOR TO THE DATE SPECIFIED ON THE SPC-15 PERMIT ISSUED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
 - d. All lots are to be served by 6" diameter sanitary sewer pipe. The sewer lateral terminations are to be indicated on the surface with a suitable marker. The ends are to be plugged and sealed with a water-tight plastic disc or cap. Hyes are to be tilted up 45 degrees from the horizontal and shall conform to A.S.T.M. D-1785, schedule 40, with solvent cement joints meeting A.S.T.M. D-2466.
 - e. The sanitary sewer contractor shall be responsible for the leakage outward or inward (exfiltration or infiltration) testing. These tests should not exceed 200 gallons per inch of pipe diameter per mile per day for any section of the system. The exfiltration or infiltration testing shall be performed with a minimum positive head of 2 feet. The air test, if used, shall, as a minimum, conform to the test procedure described in the latest edition of A.S.T.M. C-828. The testing methods selected should take into consideration the range in groundwater elevations projected and the situation during the test. These tests must be observed and certified by a Professional Engineer and sent to the Developer and Stoepelwerth and Associates.
 - f. Deflection tests shall be performed on all P.V.C. or other flexible pipe. The test shall be conducted after the final backfill has been placed at least 30 days. No pipe shall exceed a deflection of 5%. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices. It shall be the responsibility of the sanitary sewer contractor to provide all the material, equipment and personnel to complete all of the testing procedures. These tests must be observed & certified by a Professional Engineer and sent to the Developer and Stoepelwerth and Associates.
 - g. All future sewer installation, either connected to or extended from this system shall be constructed in accordance with these specifications.
 - h. No roof drains, footing drains, and/or surface water drains may be connected to the sanitary sewer system, including temporary connections during construction.
 - i. Compression joints shall be preformed type, manufactured and installed in accordance with A.S.T.M. C-425 latest revision. All manholes shall be precast concrete, constructed in accordance with State of Indiana Specifications. Steps shall conform to A.S.T.M. C-478 latest revision. Covers shall be bolt down Type "A" cast iron ring and cover to conform to A.S.T.M. A-48 latest revision. P.V.C. for gravity sanitary sewer shall conform to A.S.T.M. D-3034 (SDR35). Truss pipe for gravity sanitary sewer shall conform to A.S.T.M. D2680. PVC for forcemain shall conform to ASTM 3-2241 (SDR 21).
 - j. Manhole Sections shall be jointed with either bulk mastic or rubber type gaskets to meet A.S.T.M. C-443 latest revision.
 - k. Where waterlines and sanitary sewers cross a minimum of 18-inches of vertical clearance must be maintained. If the 18-inch vertical clearance cannot be maintained, the sewer must be constructed of waterworks grade ductile iron pipe with mechanical joints within 10 feet of the waterline.
 - l. All trenches under a proposed roadway shall be full-depth backfilled with granular material to a point five (5) feet outside of the roadway edge and shall comply with current Hamilton County specifications.
 - m. Sanitary sewers shall be backfilled with sand or suitable material in 4" layers and hand tamped. Remainder of trench shall be filled in 6" layers and solidly tamped to subgrade of base of pavement.
 - n. Pipe Bedding - Bedding classes A, B, or C, as described in A.S.T.M. C12-74 (ANSI A106.2 or WPCF NOP NO. 9 ASCE NOP No. 37) shall be used on all rigid pipe provided the proper strength pipe is used with the specified bedding to support the anticipated load. Bedding classes I, II, or III, as described in A.S.T.M. D2921-74 (ANSI R65.171) shall be used for all flexible pipe provided strength pipe is used with the specified bedding to support the anticipated load.
 - o. Design - All materials and construction methods shall be in accordance with the recommended standards for sewage works by the Great Lakes - Upper Mississippi River Board of States Sanitary Engineers.
 - p. The Developer shall provide Hamilton Western Utilities and the Indiana Department of Environmental Management with "As Built" drawings of all Sanitary Sewers with services and test results within 30 days of completion.

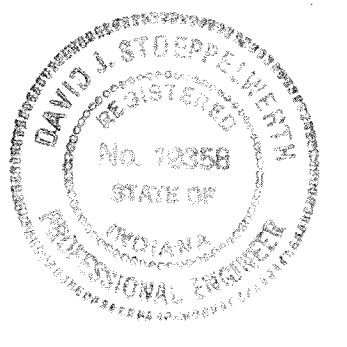
5. **GENERAL NOTES**
 - a. It shall be the responsibility of the contractors to determine the location of existing underground utilities 24 hours prior to any construction or excavating and maintain operating conditions of active utilities. The engineer shall not be responsible for any damage caused by an erroneous location shown or by the omission of a utility location on these plans. The developer shall be responsible for all approvals, permits & easements.
 - b. The contractors shall furnish all bonds necessary to get all permits prior to beginning construction.
 - c. All trenches under paved areas shall be backfilled with granular material to conform to current Hamilton County Specifications.
 - d. Construction of private driveways is not included in this project.
 - e. The contractor shall, at the direction of the developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed. In the event cut or fill exceeds 0.5 foot over the root area, the developer shall be consulted with respect to protective measures to be taken, if any, to preserve such trees.
 - f. Remove topsoil to a depth determined by the engineer from all areas to be excavated or filled. Topsoil shall be stored at a location designated by the engineer.
 - g. All grading shall be completed to within a tolerance of 0.10 foot of the grades indicated on the plans. The engineer shall be notified when the contractor has reached this point, so that field measurements & spot elevations can be verified by the engineer. The contractor shall not remove his equipment from the site until the engineer has verified that the job meets the above tolerance.
 - h. Seeding shall be done in accordance with the erosion control plan included in these plans.
 - i. All areas disturbed by any construction shall be restored to its original condition. Excess construction material shall be removed from the project area as directed by the Developer at the Contractors expense. Any construction materials brought onto the project to complete the project shall also be at the contractors expense.
 - j. The engineer shall be defined as Stoepelwerth and Associates, Inc., Consulting Engineers.

Wfieldsp/isp/form
04-06-88

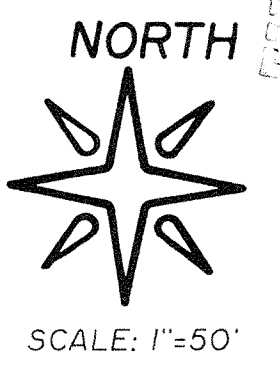
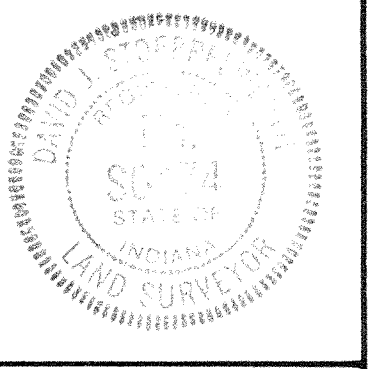
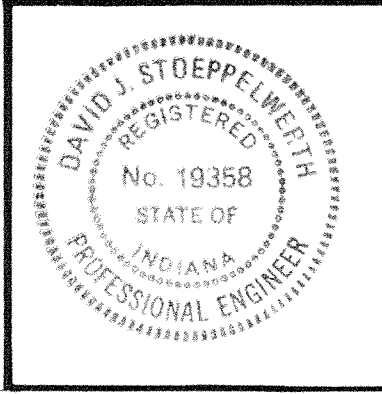


INDIANA COUNTY
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Entry Date: 6-9-04
Entered by: JAH

DAVID J. STOEPELWERTH DATE
Professional Engineer
No. 19358



DAVID J. STOEPELWERTH DATE
Professional Engineer
No. 19358
Registered Land Surveyor
No. 50474



STOEPELWERTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
& LAND SURVEYORS
(317) 849-5935
INDIANAPOLIS INDIANA

OFFSITE UTILITY PLAN
VILLAGE PARK ESTATES
SECTION 1

SHEET NO. 6
OF 11 SHEETS
JOB NO. 10265

DATE	MARK/DRAWN	REVISIONS	BY