

**Drain:** HUNTERS KNOLL DRAIN      **Drain #:** 215  
**Improvement/Arm:** HUNTERS KNOLL - SECTION 4  
**Operator:** JPH      **Date:** 6-25-04  
**Drain Classification:** Urban/Rural      **Year Installed:** 1986

### GIS Drain Input Checklist

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

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

Drain-Improvement: HUNTERS KNOLL DRAIN - HUNTERS KNOLL - SECTION D.

Drain Type:	Size:	Length <small>SURROUND RENDS</small>	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	2530'	2530'	Ø		
CMP	48"	20'	20'	Ø		
RCP	12"	560'	560'	Ø		
	15"	586'	591'	+5'		
	18"	282'	282'	Ø		
	21"	289'	289'	Ø		
	24"	560'	560'	Ø		

Sum: 4827'     4832'     +5'

Final Report: \_\_\_\_\_

Comments:

SR AND AB DISAGREE ON 15" RCP LENGTHS

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SURVEYOR'S OFFICE

# Hamilton County

Kenton C. Ward, Surveyor

776-9626

Noblesville, Ind. 46060 March 24, 1986

TO: Hamilton County Drainage Board

RE: Hunters Knoll Drain

Attached is a petition, Non-enforcement request, plans, calculations, and assessment roll for the Hunters Knoll Drain.

*Nancy Ellen Oldham*

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	10,030ft	48" CMP	20ft
12" RCP	559ft	24" RCP	355ft
15" RCP	590ft	21" RCP	290ft
18" RCP	280ft		

**FILED**

JUN 9 1986

The total length of the drain will be 12,124 feet.

HAMILTON COUNTY DRAINAGE BOARD

The detention areas will be the responsibility of the Home Owners Association to maintain. The Board will maintain only the subsurface drain, inlet and outlet of these areas.

*Nancy Ellen Oldham*

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 \$25.00 per lot, with a \$25.00 minimum. With this assessment the total annual assessment for the drain/this section will be \$1050.00.

*Consent  
4/16/86*

1075.00

I recommend a hearing be set for June 9, 1986.

*Kenton C. Ward*  
Kenton C. Ward - County Surveyor

STATE OF INDIANA )  
 )  
COUNTY OF HAMILTON )

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

In the matter of Hunter's Knoll Subdivision,  
Section \_\_\_\_\_ Drain Petition.

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

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

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

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

The Petitioner also agrees to the following:

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

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

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

**FILED**  
 MAR 14 1986  
 HAMILTON COUNTY DRAINAGE BOARD  
 -----  
 SECRETARY

William B Blake  
 Signed  
 William B. Blake, Vice President  
 CPM of Hunter's Knoll, Inc.  
 Printed Name

\_\_\_\_\_  
 Signed  
 \_\_\_\_\_  
 Printed Name

RECORDED OWNER(S) OF LAND INVOLVED

DATE \_\_\_\_\_



Date: February 24, 1986

SWIFT Address: INBI US 44 Telex Number: 02-7326 Phone: 266-6153

INB NO. **SB 033695**

Credit Number Advising Bank No.

Advising Bank

Applicant

C.P.M. of Hunter's Knoll, Inc.  
255 E. Carmel Dr., Suite A  
Carmel, IN 46032

Beneficiary

Hamilton County Drainage, Board  
Court House, C/O Surveyor's Office  
Noblesville, IN 46060

Amount

U.S. \$56,000.00

Expiration Date

December 31, 1986 at our counters

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. **SB033695**

Other documents:

Beneficiaries' signed certificate stating that the applicant has defaulted in its obligation to construct required storm sewers at its Hunter's Knoll Subdivision.

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.

XX  
XX

Very truly yours,

*Glenda C. Shireman*  
Glenda C. Shireman - Operations Officer

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

Advising Bank's Notification

Place/date/monosignature of advising bank

THE INDIANA NATIONAL BANK  
56000000

Except so far as otherwise expressly stated, this documentary credit is subject to the Uniform Customs and Practice for Documentary Credits, 1983 Edition International Chamber of Commerce (Publication No. 223) 400.



SURVEYOR'S OFFICE  
**Hamilton County**

Kenton C. Ward, Surveyor

Suite 146

776-8495

One Hamilton County Square

August 18, 1995

Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

RE: Hunter's Knoll Drain

Attached are as-builts, certificate of completion & compliance, and other information for Hunter's Knoll. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

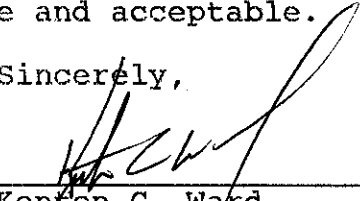
During construction, changes were made to the drain which will alter the plans submitted with my report for this drain dated March 24, 1986. The changes are as follows: The 15" RCP from structure number 102 to 101 was lengthened from 60' feet to 65' feet. The 15" RCP from structure 110 to 109 was lengthened from 130' feet to 131' feet. The 18" RCP from structure from structure 109 to 108 was lengthened from 280' to 282' feet. The 24" RCP between structure 108 to 107 was lengthened from 30' feet to 232' feet. The 15" RCP from structure 112 to 108 was shortened from 130' to 125' feet. The 12" RCP from structure number 116 to structure 120 was lengthened from 125' feet to 126' feet. The 24" RCP from structure 114 to 115 was lengthened from 50' feet to 56' feet. The 24" RCP between structure 115 to 116 was shortened from 275' feet to 272' feet. The 21" RCP between structure 116 to 117 was shortened from 290' feet to 289' feet. The 15" RCP between station 117 to 118 was shortened from 275' feet to 270' feet. The SSD was incorrectly calculated. The correct length is 2530 feet.

4827 The length of the drain due to the changes described above is now 4832 feet.

~~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 July 24, 1989.~~

The bond or letter of credit from The Indiana National Bank, number 033695, dated February 24, 1986, in the amount of \$56,000.00, has been released. I recommend the Board approve the drains construction as complete and acceptable.

Sincerely,

  
Kenton C. Ward  
Hamilton County Surveyor

KCW/nw

**CERTIFICATE OF COMPLETION AND COMPLIANCE  
FOR HUNTERS KNOLL**

TO: HAMILTON COUNTY SURVEYOR

RE: HUNTERS KNOLL


DATE: NOVEMBER 5, 1990

NOV 08

I hereby certify that:

1. I am a registered Professional Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. To the best of my knowledge, information and belief, the drainage facilities within the subdivision have been installed and completed in conformity with all plans and specifications, with the following exceptions.
  - a. The 15" RCP between structures 101 and 102 has been laid at a 0.20% slope in lieu of 0.50%. This will require 0.2 feet of head at structure 102 to pass the design flow of 4.57 cfs.
  - b. The 12" RCP between structures 103 and 104 has been laid at a 0.37% slope in lieu of 0.70%. This will require 0.08 feet of head at structure 104 to pass the design flow of 2.98 cfs.
  - c. The invert of the 15" RCP at structure 108 is 857.18 rather than the designed 858.25. This will require 0.25 feet of head at structure 112 to pass the design flow of 5.00 cfs.
  - d. The invert of the 12" RCP at structure 112 is 858.14 rather than the designed 859.00. This will require 0.33 feet of head at structure 113 to pass the design flow of 3.56 cfs.
  - e. The 24" RCP between structures 115 and 116 has been laid at a 0.24% slope in lieu of 0.30%. This will require 0.16 feet of head at structure 116 to pass the design flow of 12.39 cfs.
  - f. The invert of the 15" RCP at structure 117 is 855.14 rather than the designed 855.40. This will require 0.17 feet of head at structure 118 to pass the design flow of 5.78 cfs.



Signature  Date 11/7/90

Typed of Printed Name: John V. Schneider

Business Address: 3020 North Post Road

Indianapolis, IN 46226

Telephone: (317)898-8282

INDIANA REGISTRATION NO.  
14653

SEAL

NOV 08

# HYDRAULIC GRADE LINE CALCULATIONS

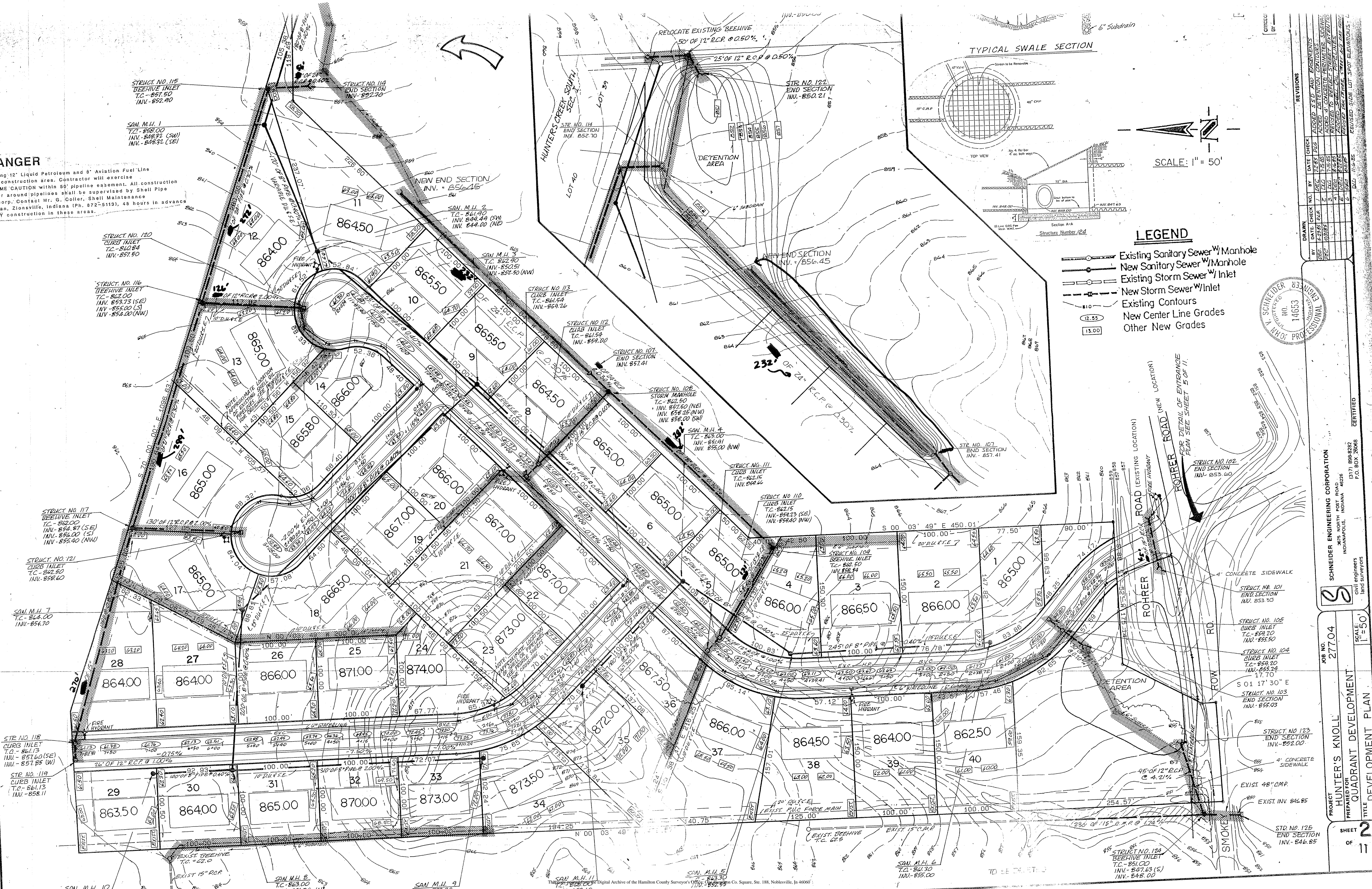
PROJECT NAME Hunters Knoll  
 JOB NO. 277.04  
 DATE 11/05/90

STORM 10 yr - 6 hr  
 COMPUTED BY B. Grout  
 SHEET NO. 1 OF 1

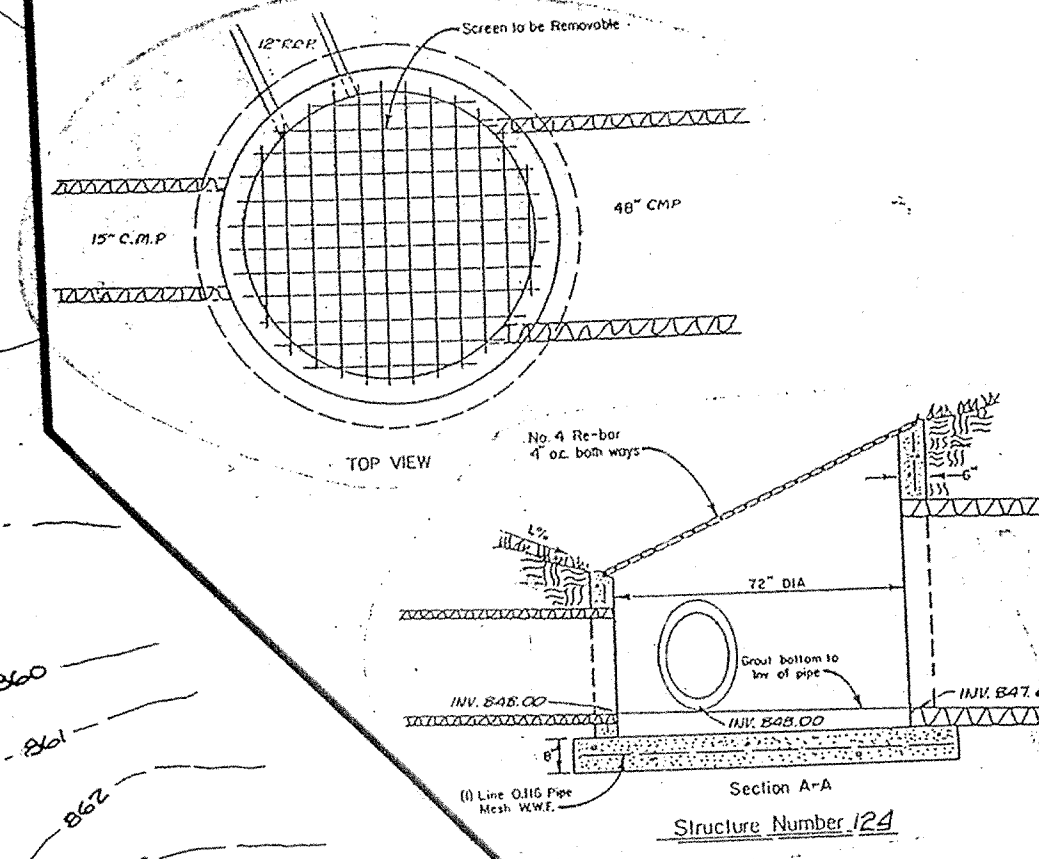
STRUCTURE		PIPE				PIPE INVERTS		TOP OF CASTING		HYDRAULIC	VELOCITY (FT/S)	HYD. GRADE LINE		MANHOLE LOSS (FT)
DOWN NO.	UP NO.	Q (CFS)	DIA. (IN)	LENGTH (FT)	SLOPE (FT/FT)	DOWN ELEV.	UP ELEV.	DOWN ELEV.	UP ELEV.	SLOPE (FT/FT)		DOWN ELEV.	UP ELEV.	
114	115	12.39	24	56	0.0080	52.41	52.86	-	57.66	0.003		54.41	54.58	
115	116	12.39	24	272	0.0024	53.04	53.70	57.66	61.87	0.003		55.04	55.86	
116	117	8.68	21	289	0.0036	53.92	54.97	61.87	60.03	0.003		55.86	56.73	
117	118	5.78	15	270	0.0086	55.14	57.47	60.03	60.96	0.008		56.73	58.89	
118	119	3.56	12	26	0.0219	57.57	58.14	60.96	60.96	0.010		58.89	59.15	
116	120	5.04	12	126	0.0188	54.92	57.27	62.00	60.92	0.020		55.96	58.48	0.1
117	121	5.04	12	130	0.0226	55.85	58.79	60.03	62.35	0.020		56.85	59.45	
107	108	12.39	24	232	0.0053	56.04	57.27	-	61.48	0.003		58.04	58.74	
108	109	5.75	18	282	0.0042	57.28	58.47	61.48	62.17	0.003		58.78	59.63	
109	110	3.54	15	131	0.0035	58.81	59.27	62.17	62.00	0.003		59.81	60.20	
110	111	3.56	12	26	0.0088	59.32	59.55	62.00	62.00	0.010		60.32	60.58	
108	112	5.00	15	125	0.0077	57.18	58.09	61.48	61.19	0.006		58.84	59.59	0.1
112	113	3.56	12	26	0.0146	58.14	58.52	61.19	61.19	0.010		59.59	59.85	
103	104	2.98	12	30	0.0037	54.49	54.62	-	59.05	.007		55.49	55.70	
104	105	2.98	12	26	0.0096	54.62	54.87	59.05	59.05	.007		55.70	55.88	
101	102	4.57	15	65	.0020	53.14	53.27	-	-	.005		54.39	54.72	

**DANGER**

Existing 12" Liquid Petroleum and 8" Aviation Fuel Line within construction area. Contractor will exercise EXTREME CAUTION within 50' pipeline easement. All construction over or around pipelines shall be supervised by Shell Pipe Line Corp. Contact Mr. G. Collier, Shell Maintenance Foreman, Zionsville, Indiana (Ph. 872-5113), 48 hours in advance of ANY construction in these areas.



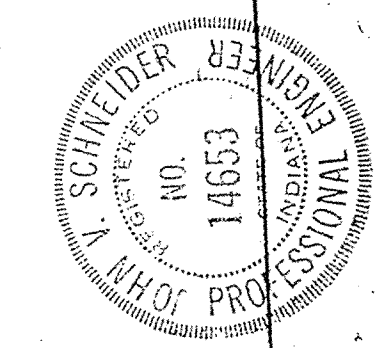
**TYPICAL SWALE SECTION**



SCALE: 1" = 50'

**LEGEND**

- Existing Sanitary Sewer w/ Manhole
- New Sanitary Sewer w/ Manhole
- Existing Storm Sewer w/ Inlet
- New Storm Sewer w/ Inlet
- Existing Contours
- New Center Line Grades
- Other New Grades



REVISIONS				
NO.	DATE	BY	CHECK	DESCRIPTION
1	12/28/85	JLS	JLS	ADDED S&D AND EASEMENTS
2	1/10/86	JLS	JLS	ADDED DETENTION CONTAINER, SIDEWALK
3	1/10/86	JLS	JLS	ADDED 4" CONCRETE SIDEWALK, SIDEWALK
4	1/10/86	JLS	JLS	ADDED 4" CONCRETE SIDEWALK, SIDEWALK
5	1/10/86	JLS	JLS	ADDED 4" CONCRETE SIDEWALK, SIDEWALK
6	1/10/86	JLS	JLS	ADDED 4" CONCRETE SIDEWALK, SIDEWALK
7	1/10/86	JLS	JLS	ADDED 4" CONCRETE SIDEWALK, SIDEWALK
8	1/10/86	JLS	JLS	ADDED 4" CONCRETE SIDEWALK, SIDEWALK
9	1/10/86	JLS	JLS	ADDED 4" CONCRETE SIDEWALK, SIDEWALK
10	1/10/86	JLS	JLS	ADDED 4" CONCRETE SIDEWALK, SIDEWALK

JOB NO. 27704  
 PROJECT HUNTER'S KNOLL  
 PREPARED FOR QUADRANT DEVELOPMENT  
 TITLE DEVELOPMENT PLAN  
 SHEET 2 OF 11  
 SCALE: 1" = 50'  
 SCHNEIDER ENGINEERING CORPORATION  
 9274 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46226  
 (317) 898-8282  
 P.O. BOX 26068  
 CIVIL ENGINEER  
 JLS/JLS  
 CERTIFIED