

Asbury Pointe Subdivision

General Location and Description of Existing Land and Soils

The 23.5 acre site is located on the west side of Green River Road approximately 300 feet north of the intersection of S.R. 57 and Green River Road in Scott Township, Vanderburgh County. The property has previously been used for agricultural purposes. Agricultural ground lies to the west, north, and south, and residential lots border to the east. Existing soils consist mostly of eroded silt loams; precaution should be taken to assure that adequate erosion control methods are employed during construction.

Existing Storm Water Runoff

The site consists of flat to rolling ground that has been previously cultivated. The entire site drains to the southeast corner to an existing unnamed tributary of Schlensker Ditch.

Flood Plain

As shown on the enclosed FIRM Panel Map 180256 0015 C, dated August 5, 1991, no portion of the property lies within the 100 year Flood Zone "A". According to the proposed new maps, which have not been published to date, the subject property will lie within the boundaries of the 100 year flood zone "AE" (see attached map). The minimum finished floor proposed to the Vanderburgh County Building Commissioner is 396.6.

Also attached is a copy of the Flood Insurance Study for Schlensker Ditch. As shown on the proposed floodplain map, X-section "E" goes directly through the site. The corresponding base flood elevation (BFE) as shown on the Floodway Data Table is 394.6. Also for your use is a HEC-RAS model run of Schlensker Ditch for the 25 year storm event. The corresponding elevation for X-section "E" was 393.6, which was used in our design of the retention basin for our site.

Proposed Development

The proposed development will consist of typical residential construction as employed in previous subdivisions developed by Jagoe Land Corporation. A basin will be constructed at the southeast corner of the site to provide storm water retention. Storm water runoff will be conveyed to the basin via storm sewers, swales, and overland flow. Due to the topography, storm runoff from part of the site will be allowed to exit the property undetained. Four undeveloped sub-basins were determined for this site and an allowable discharge was calculated for each using a peak runoff rate for the 10-year storm under undeveloped conditions for a total of 28.15 cfs.

When taking into account the undetained runoff leaving the site, and off-site runoff that is being routed through the retention basin, the allowable discharge rate for a 25 year storm for developed conditions is 24.5 cfs. The required storm water retention volume from the Form 800, using a discharge rate of 24.5 cfs, has been calculated to be 30,671 cubic feet for the 25-year storm. The storage volume available within the retention basin has been calculated to be 128,783 cubic feet.

Due to the excess storage volume in the retention basin, the discharge rate has been reduced to 6 cfs with a required retention volume from the Form 800 of 70,555 cubic feet. Therefore, the flow rate has been reduced by 4 times the allowable and the retention volume required has been nearly doubled. The outlet structure utilizes a 24-inch diameter concrete pipe with a concrete headwall with flapgate as the primary spillway.

Due to the large off-site watershed, OS-1 with approx. 78 acres, FES 505 through FES 511 were sized for the 100 year storm event.

The Erosion/Sediment Control Plan and narrative report for Asbury Pointe Subdivision will be transmitted to the Soil Conservation Service, and the Vanderburgh County Engineers Office.

TABLE 803
UNDEVELOPED RUNOFF COEFFICIENTS (C_u)

SURFACE TYPE:

WOODLAND, TURFED MEADOWS
ROUGH PASTURE, FALLOW BRUSH:

SLOPE:

Less than 2%	$C = 0.12$
2% to 5%	$C = 0.24$
5+% to 10%	$C = 0.36$
Over 10%	$C = 0.48$

CULTIVATED FIELDS:

Less than 2%	$C = 0.20$
2% to 5%	$C = 0.35$
5+% to 10%	$C = 0.50$
Over 10%	$C = 0.65$

TABLE 804
DEVELOPED RUNOFF COEFFICIENTS (C_d)

SURFACE TYPE:

PAVEMENT, ROOFTOP
OTHER IMPERVIOUS SURFACES:

Less than 2%	$C = 0.92$
2% to 5%	$C = 0.94$
5+% to 10%	$C = 0.96$
Over 10%	$C = 0.98$

LAWNS WITH TURF:

Less than 2%	$C = 0.15$
2% to 5%	$C = 0.25$
5+% to 10%	$C = 0.40$
Over 10%	$C = 0.55$

ALL WATER SURFACES
BASINS, PONDS & LAKES:

$C = 1.00$

Table 3.2.4 (cont'd)

Kerby (1959)

$$t_c = K (L N s^{-0.5})^{0.467}$$

where K is equal to 0.83 (US Customary units) or 1.44 (Metric units), L is the length of flow in ft (m), s is the average slope of overland flow, ft/ft (m/m), and N is the retardance roughness coefficient given in Table 3.2.5.

The length used in the equation is the straight-line distance from the most distant point of the watershed to the outlet, measured parallel to the slope of the land until a well-defined channel is reached. Watersheds of less than 10 acres were used to calibrate the model; slopes were less than 1%; N values were 0.8 and less and surface flow dominated (McCuen, 1989).

Izzard (1946)

$$t_c = \frac{K(Bi + c') L^{\frac{1}{3}}}{s^{\frac{1}{3}} i^{\frac{2}{3}}}$$

where K is equal to 41.025 for U.S. customary units (113.391 for metric), B is equal to 0.0007 for U.S. customary units (0.00027 for metric), c' is the retardance coefficient given in Table 3.2.7, i is the rainfall intensity, in/hr (cm/hr), L is the length of flow path in ft (m), and s is the slope of overland flow path, ft/ft (m/m).

The product of i and L must be less than 500 in-ft/hr (390 cm-m/hr) to consider using this formula. In addition, well defined channels should not be present. This method was developed in laboratory experiments for the overland flow on roadway and turf surfaces.

Table 3.2.5
Values of N for Kerby's Formula (Kerby, 1959)

<u>Type of Surface</u>	<u>N</u>
Smooth impervious surface	0.02
Smooth bare packed soil	0.10
Poor grass, cultivated row crops or moderately rough bare surface	0.20
Deciduous timberland	0.60
Pasture or Overage grass	0.40
Conifer timberland, deciduous timberland with deep forest litter or dense grass	0.80

TABLE 807

RAINFALL INTENSITY-DURATION-FREQUENCY TABLE FOR EVANSVILLE

INTENSITY IN INCHES PER HOUR

STORM DURATION	STORM RETURN PERIOD IN YEARS				
	5	10	25	50	100
5 MIN	6.063	6.625	7.208	7.936	8.469
10 MIN	4.863	5.380	5.925	6.616	7.126
15 MIN	4.029	4.515	5.033	5.697	6.194
30 MIN	2.837	3.226	3.646	4.194	4.608
60 MIN	1.549	1.819	2.078	2.412	2.663
2.0 HRS	1.053	1.230	1.400	1.620	1.785
3.0 HRS	0.774	0.899	1.019	1.175	1.291
4.0 HRS	0.632	0.736	0.836	0.965	1.062
5.0 HRS	0.524	0.606	0.684	0.785	0.861
6.0 HRS	0.453	0.522	0.589	0.676	0.741
7.0 HRS	0.399	0.459	0.516	0.591	0.647
8.0 HRS	0.358	0.412	0.463	0.530	0.581
9.0 HRS	0.323	0.370	0.415	0.472	0.516
10 HRS	0.297	0.339	0.379	0.431	0.470
11 HRS	0.276	0.314	0.351	0.399	0.435
12 HRS	0.259	0.296	0.331	0.376	0.410
13 HRS	0.245	0.280	0.314	0.357	0.390
14 HRS	0.233	0.267	0.299	0.341	0.372
15 HRS	0.220	0.252	0.281	0.320	0.349
16 HRS	0.209	0.238	0.266	0.302	0.329
17 HRS	0.198	0.225	0.251	0.284	0.310

SOIL SURVEY OF

Vanderburgh County, Indiana



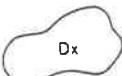
United States Department of Agriculture
Soil Conservation Service

In cooperation with

Purdue University Agricultural
Experiment Station

SURVEY DATA

SOIL LEGEND



Dx

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

%

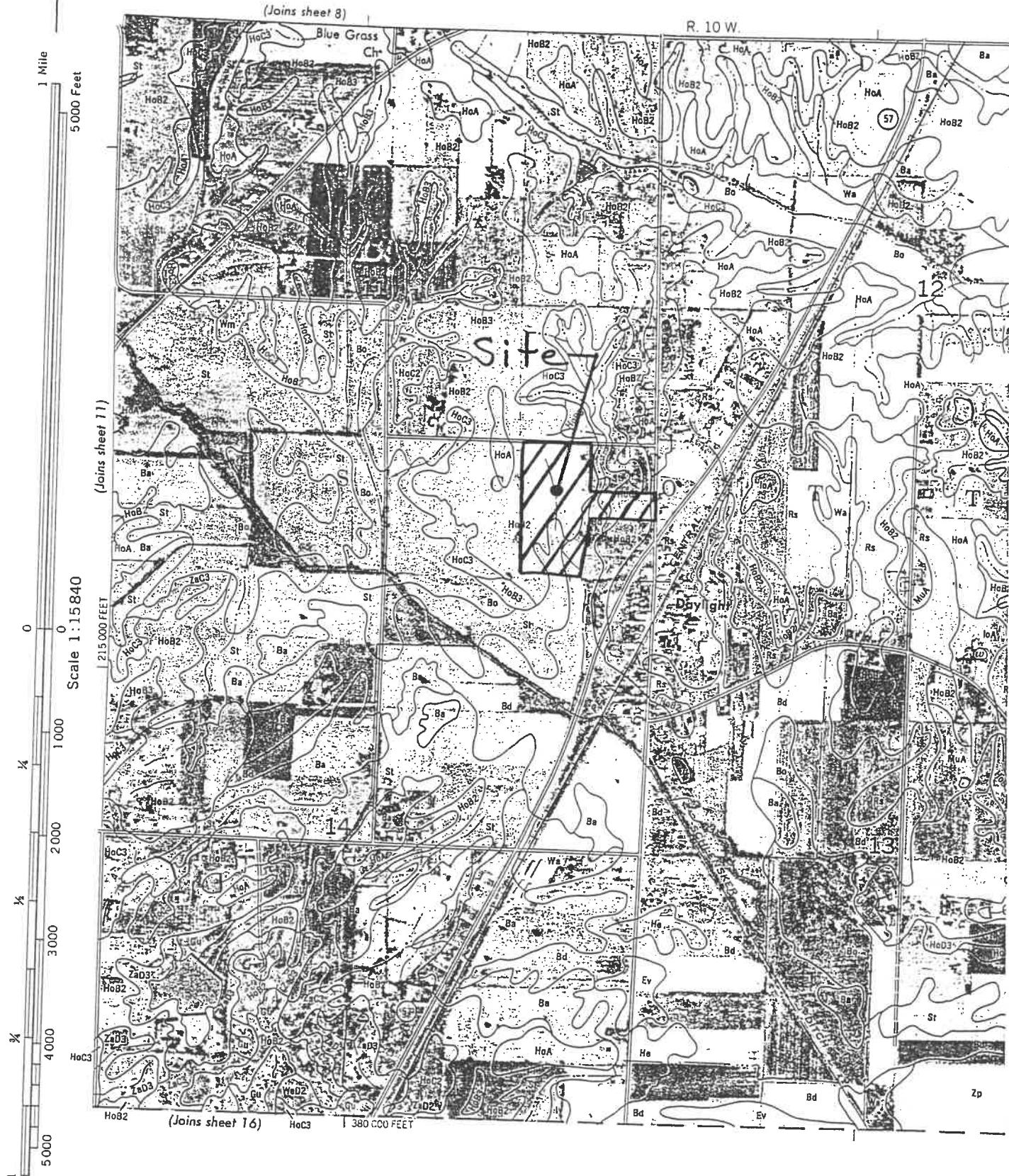
%

%

The first capital letter is the initial one of the soil name. The lowercase letter that follows separates mapping units having names that begin with the same letter except that it does not separate sloping or eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are for soils with a slope range of 0 to 2 percent or they are for land types with a considerable range of slope. A final number, 2 or 3, in the symbol indicates that the soil is eroded or severely eroded.

SYMBOL	NAME
AIB2	Alford silt loam, 2 to 6 percent slopes, eroded
AIC2	Alford silt loam, 6 to 12 percent slopes, eroded
AIC3	Alford silt loam, 6 to 12 percent slopes, severely eroded
AID3	Alford silt loam, 12 to 18 percent slopes, severely eroded
Ba	Bartle silt loam
Bd	Birds silt loam
Bo	Bonnie silt loam
Br	Borrow pits
Ev	Evansville silt loam
Gn	Ginat silt loam
Gu	Gullied land
He	Henshaw silt loam
HoA	Hosmer silt loam, 0 to 2 percent slopes
HoB2	Hosmer silt loam, 2 to 6 percent slopes, eroded
HoB3	Hosmer silt loam, 6 to 12 percent slopes, severely eroded
HoC2	Hosmer silt loam, 6 to 12 percent slopes, eroded
HoC3	Hosmer silt loam, 6 to 12 percent slopes, severely eroded
HoD3	Hosmer silt loam, 12 to 18 percent slopes, severely eroded
Ht	Huntington silty clay loam
Hu	Huntington fine sandy loam, sandy variant
IoA	Iona silt loam, 0 to 2 percent slopes
IoB2	Iona silt loam, 2 to 6 percent slopes, eroded
lv	Iva silt loam
Ln	Lindside silty clay loam
Ma	Made land
MkB2	Markland silt loam, 2 to 6 percent slopes, eroded
MkC2	Markland silt loam, 6 to 18 percent slopes, eroded
MIC3	Markland silty clay loam, 6 to 18 percent slopes, severely eroded
Mr	McGary silt loam
MuA	Muren silt loam, 0 to 2 percent slopes
MuB2	Muren silt loam, 2 to 6 percent slopes, eroded
Nw	Newark silty clay loam
Pa	Patton silty clay loam
PrB	Princeton fine sandy loam, 2 to 6 percent slopes
Ra	Ragsdale silt loam
Rh	Rahm silty clay loam
Rs	Reesville silt loam
ScA	Scioto silt loam, 0 to 2 percent slopes
ScB2	Scioto silt loam, 2 to 6 percent slopes, eroded
St	Stendal silt loam
UnB2	Uniontown silt loam, 2 to 6 percent slopes, eroded
Wa	Wakeland silt loam
Wb	Weinbach silt loam
WeD2	Wellston silt loam, 12 to 18 percent slopes, eroded
WeD3	Wellston silt loam, 12 to 18 percent slopes, severely eroded
WeE2	Wellston silt loam, 18 to 25 percent slopes, eroded
WeF	Wellston silt loam, 25 to 50 percent slopes
WhA	Wheeling loam, 0 to 2 percent slopes
WhB2	Wheeling loam, 2 to 6 percent slopes, eroded
Wm	Wilbur silt loam
Wo	Woodmere silty clay loam
ZaC2	Zanesville silt loam, 6 to 12 percent slopes, eroded
ZaC3	Zanesville silt loam, 6 to 12 percent slopes, severely eroded
ZaD2	Zanesville silt loam, 12 to 18 percent slopes, eroded
ZaD3	Zanesville silt loam, 12 to 18 percent slopes, severely eroded
Zp	Zipp silty clay

Land division corners are approximately positioned on this map.



Undeveloped Conditions

→ 10 year peak discharge rate =

$$\text{UND-1}_{(10)} = 3.85 \text{ cfs}$$

$$\text{UND-2}_{(10)} = 8.98 \text{ cfs}$$

$$\text{UND-3}_{(10)} = 13.95 \text{ cfs}$$

$$\text{UND-4}_{(10)} = 1.37 \text{ cfs}$$

$$28.15 \text{ cfs}$$

Developed Conditions

→ Weighted Runoff Coefficient, $C_d = .477$

→ figured from sub-basins routed through proposed retention basin:
2-9, 14-22, and OS-2, OS-3

Retention Requirements

→ Retention basin will receive stormwater runoff from all sub-basins except for the following, which will exit the site undetained:

<u>Sub-basin</u>	<u>$Q_{(25)}$</u>	<u>Sub-basin</u>	<u>$Q_{(25)}$</u>
I	3.00	12A	3.06
10	2.24	13	2.13
11	1.44	23	1.34
11A	0.97	24	2.31
12	1.40	TOTAL	17.89

→ Retention basin will also capture stormwater runoff from off-site sub-basins, which will be detained in our system before leaving the site

<u>Off-Site Sub-basin</u>	<u>$Q_{(25)}$</u>
OS-2	1.69
OS-3	12.55
	<u>14.24 cfs</u>

Allowable Discharge Rate

$$28.15 - 17.89 + 14.24 = 24.50 \text{ cfs}$$

Retention Basin Area / Volume

→ Required storage volume from Form 800
 $25 \text{ yr.} = 30,671 \text{ c.f.}$

<u>Elevation</u>	<u>Surface Area (s.f.)</u>	<u>Storage Capacity Volume (c.f.)</u>
Pool	26030	—
	29025	27528
	32120	58101
	35316	91819
	38612	128783
E.S.		

Note: @ 6 cfs the required storage volume per Form 800 = 70,555 c.f.

VANDERBURGH COUNTY DRAINAGE BOARD
FORM 800

PROJECT: Asbury Pointe Subdivision	DETENTION FACILITY DESIGN RETURN PERIOD: 25 YRS
DESIGNER: MORLEY & ASSOC.	RELEASE RATE RETURN PERIOD: 10 YRS

WATERSHED AREA:	22.85 ACRES
TIME OF CONCENTRATION (UNDEVELOPED WATERSHED):	29.14 MINUTES
RAINFALL INTENSITY (I _u):	3.3 INCHES/HR
UNDEVELOPED RUNOFF COEFFICIENT (C _u):	0.350
UNDEVELOPED RUNOFF RATE (O = C _u *I _u *A):	26.39 CFS
DEVELOPED RUNOFF COEFFICIENT (C _d):	0.477

STORM DURATION T _d (HRS)	RAINFALL INTENSITY I _d (INCH/HR)	INFLOW RATE I(T _d) (C _d *I _d *A) (CFS)	OUTFLOW RATE O (CFS)	STORAGE RATE I(T _d)-O (CFS)	REQUIRED STORAGE T _d -O)*T _d /12 (ACRE-FT)
0.08	7.208	78.56	24.50	54.06	0.375
0.17	5.925	64.58	24.50	40.08	0.557
0.25	5.033	54.86	24.50	30.36	0.632
0.33	4.571	49.82	24.50	25.32	0.703
0.42	4.108	44.78	24.50	20.28	0.704
0.50	3.646	39.74	24.50	15.24	0.635
0.58	3.385	36.89	24.50	12.39	0.602
0.67	3.123	34.04	24.50	9.54	0.530
0.75	2.862	31.19	24.50	6.69	0.418
0.83	2.601	28.35	24.50	3.85	0.267
0.92	2.339	25.50	24.50	1.00	0.076
1.00	2.078	22.65	24.50	-1.85	-0.154
1.25	1.909	20.80	24.50	-3.70	-0.385
1.50	1.739	18.95	24.50	-5.55	-0.693
1.75	1.570	17.11	24.50	-7.39	-1.078
2.00	1.400	15.26	24.50	-9.24	-1.540
2.50	1.210	13.18	24.50	-11.32	-2.358
3.00	1.019	11.11	24.50	-13.39	-3.348
4.00	0.836	9.11	24.50	-15.39	-5.129

PEAK STORAGE (ACRE/FT):	0.70
PEAK STORAGE (CUBIC FT):	30,671

1. Watershed Area = Sub-basins routed through basin: 2-9,14-22, and OS-2,OS-3
2. Time of Conc. = longest from on-site undeveloped sub-basin: UND-3
3. Undeveloped Runoff Rate = C_u x I_u x A from above
4. Developed Runoff Coefficient = weighted runoff coef. from sub-basins in #1

VANDERBURGH COUNTY DRAINAGE BOARD
FORM 800

PROJECT: Asbury Pointe Subdivision	DETENTION FACILITY DESIGN RETURN PERIOD: 25 YRS
DESIGNER: MORLEY & ASSOC.	RELEASE RATE RETURN PERIOD: 10 YRS

WATERSHED AREA:	22.85 ACRES
TIME OF CONCENTRATION (UNDEVELOPED WATERSHED):	29.14 MINUTES
RAINFALL INTENSITY (I _u):	3.3 INCHES/HR
UNDEVELOPED RUNOFF COEFFICIENT (C _u):	0.350
UNDEVELOPED RUNOFF RATE (O = C _u *I _u *A):	26.39 CFS
DEVELOPED RUNOFF COEFFICIENT (C _d):	0.477

STORM DURATION T _d (HRS)	RAINFALL INTENSITY I _d (INCH/HR)	INFLOW RATE I(T _d) (C _d *I _d *A) (CFS)	OUTFLOW RATE O (Cu*I _u *A) (CFS)	STORAGE RATE I(T _d)-O (CFS)	REQUIRED STORAGE (T _d -O)*T _d /12 (ACRE-FT)
0.08	7.208	78.56	6.00	72.56	0.504
0.17	5.925	64.58	6.00	58.58	0.814
0.25	5.033	54.86	6.00	48.86	1.018
0.33	4.571	49.82	6.00	43.82	1.217
0.42	4.108	44.78	6.00	38.78	1.346
0.50	3.646	39.74	6.00	33.74	1.406
0.58	3.385	36.89	6.00	30.89	1.502
0.67	3.123	34.04	6.00	28.04	1.558
0.75	2.862	31.19	6.00	25.19	1.575
0.83	2.601	28.35	6.00	22.35	1.552
0.92	2.339	25.50	6.00	19.50	1.489
1.00	2.078	22.65	6.00	16.65	1.387
1.25	1.909	20.80	6.00	14.80	1.542
1.50	1.739	18.95	6.00	12.95	1.619
1.75	1.570	17.11	6.00	11.11	1.620
2.00	1.400	15.26	6.00	9.26	1.543
2.50	1.210	13.18	6.00	7.18	1.496
3.00	1.019	11.11	6.00	5.11	1.277
4.00	0.836	9.11	6.00	3.11	1.037

PEAK STORAGE (ACRE/FT):	1.62
PEAK STORAGE (CUBIC FT):	70,555

1. Watershed Area = Sub-basins routed through basin: 2-9,14-22, and OS-2,OS-3
2. Time of Conc. = longest from on-site undeveloped sub-basin: UND-3
3. Undeveloped Runoff Rate = C_u x I_u x A from above
4. Developed Runoff Coefficient = weighted runoff coef. from sub-basins in #1

MORLEY AND ASSOCIATES INC.

STORM DESIGN SHEET - RATIONAL METHOD

PROJECT: Asbury Pointe

OUR PROJECT # 5540-4 (B)

MANNINGS n 0.011

DATE 1-28-04

DESIGN PERIOD 25 YEARS

LINE NO.	UPSTREAM MANHOLE	DOWNSTREAM MANHOLE	LENGTH (ft)	CJ	A _j (ac.)	C _j A _j	T _j (min)	T _{cum} (min)	I (in/hr)	Q (cfs)	PIPE DIA. (in)	PIPE SLOPE (ft/ft)	PIPE CAP. (cfs)	PIPE CAP. (cfs)	VELOCITY (ft/sec)	TRAVEL TIME (min)
1	501	503	26	0.632	0.97	0.613	0.613	15.17	5.017	3.08	15	0.0020	3.41	2.78	0.16	
2	503	509	131	0.630	0.97	0.611	1.224	15.23	15.33	5.003	6.12	18	0.0030	6.80	3.85	0.57
3	505	507	105	0.342	81.68	27.935	27.935	54.78	2.353	65.73	36	0.0124	87.75	12.42	0.14	
4	507	509	26	0.640	0.43	0.275	28.210	14.01	54.92	2.343	66.10	36	0.0124	87.75	12.42	0.03
4	509	511	105	0.643	0.43	0.276	29.711	14.86	54.96	2.341	69.55	42	0.0063	94.34	9.81	0.18
5	513	515	40	0.618	0.88	0.544	0.544	16.79	16.79	4.868	2.65	12	0.0125	4.71	5.99	0.11
6	515	517	129	0.621	0.59	0.366	0.910	17.08	17.08	4.841	4.41	12	0.0135	4.89	6.23	0.35
7	517	523	180				0.910		17.43	4.808	4.38	15	0.0086	7.08	5.77	0.52
8	519	521	48	0.655	0.41	0.269	0.269	15.03	15.03	5.030	1.35	12	0.0088	3.95	5.03	0.16
9	521	523	21	0.633	0.52	0.329	0.598	15.21	15.21	5.014	3.00	12	0.0114	4.49	5.72	0.06
10	523	531	104				1.508		17.95	4.760	7.18	18	0.0041	7.95	4.50	0.39
11	525	527	120	0.360	2.10	0.756	0.756	23.64	23.64	4.234	3.20	12	0.0221	6.26	7.97	0.25
12	527	529	26	0.632	0.81	0.512	1.268	15.85	23.89	4.211	5.34	15	0.0060	5.91	4.82	0.09
13	529	531	140	0.651	0.64	0.417	1.685	14.71	23.98	4.203	7.08	15	0.0107	7.89	6.44	0.36
14	531	533	120	0.410	1.38	0.566	3.758	19.39	24.34	4.169	15.67	18	0.0193	17.24	9.76	0.20
15	533	535	80	0.423	0.58	0.245	4.004	14.78	24.55	4.150	16.62	21	0.0143	22.39	9.31	0.14
16	535	537	26	0.644	0.85	0.547	4.551	14.66	24.69	4.137	18.83	24	0.0062	21.04	6.70	0.06
17	537	545	131	0.664	0.43	0.286	4.837	11.30	24.76	4.130	19.97	24	0.0068	22.04	7.02	0.31
18	539	541	120	0.353	9.05	3.195	3.195	21.74	21.74	4.410	14.09	18	0.0251	19.66	11.13	0.18
19	541	543	26	0.603	1.02	0.615	3.810	16.46	21.92	4.393	16.74	24	0.0048	18.52	5.90	0.07
20	543	545	141	0.645	0.52	0.335	4.145	12.37	21.99	4.387	18.18	24	0.0056	20.00	6.37	0.37
21	545	547	134	0.394	0.44	0.173	9.155	14.80	25.07	4.102	37.55	36	0.0028	41.70	5.90	0.38
22	549	551	120	0.744	1.07	0.796	0.796	15.22	15.22	5.013	3.99	12	0.0118	4.57	5.82	0.34

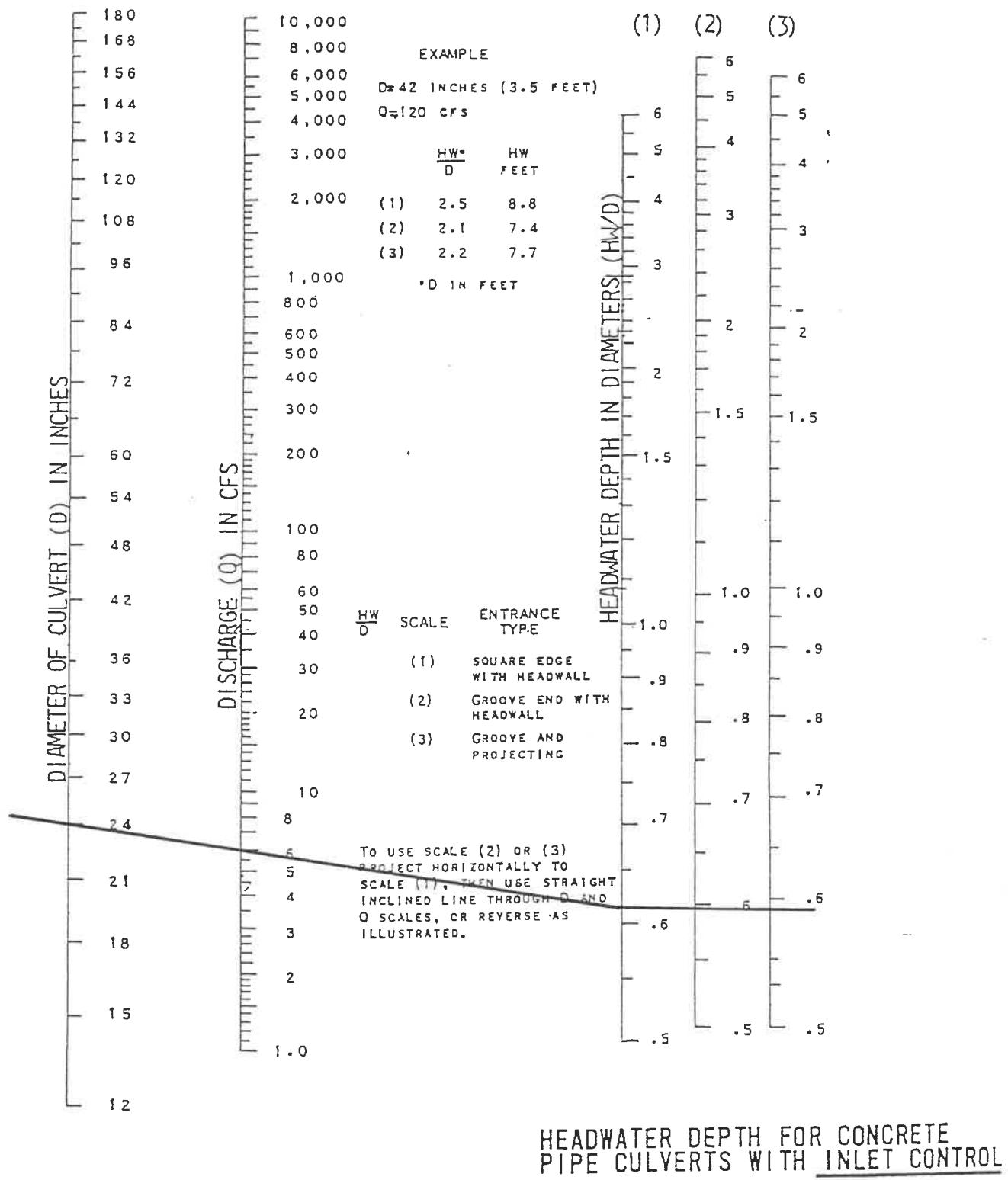


FIG. 7-430.01 F

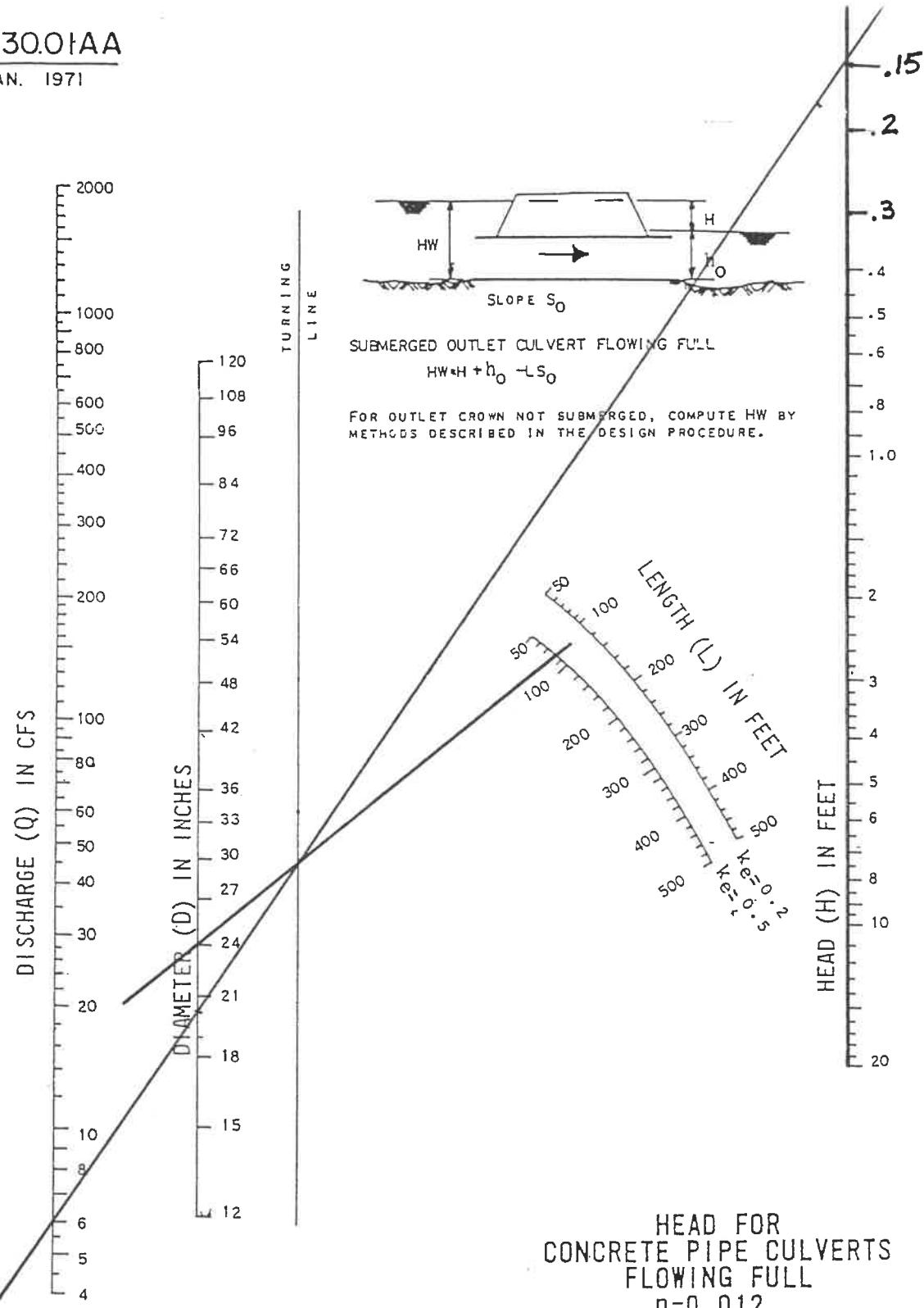


FIG. 7-430.01 W

JAN. 1971

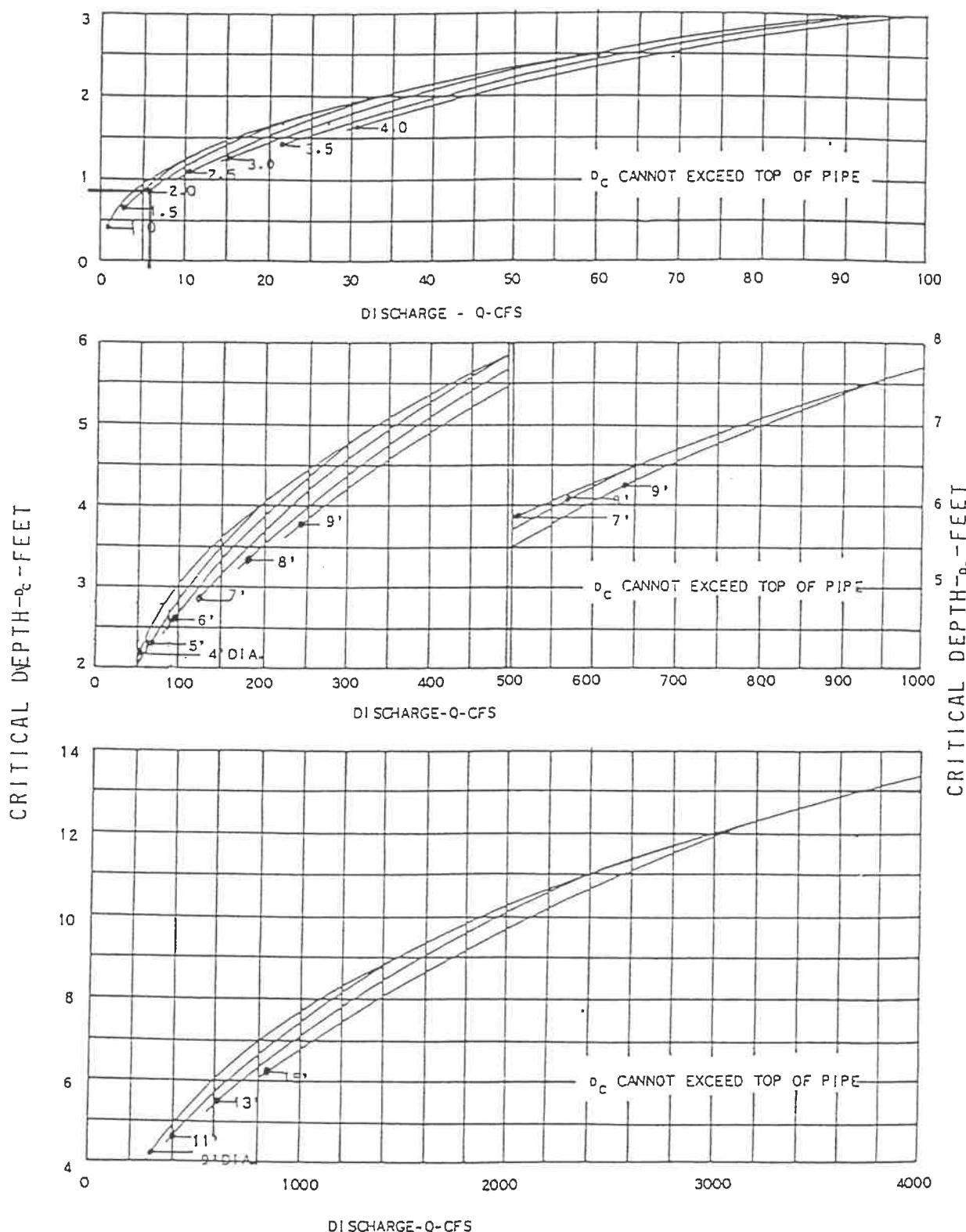
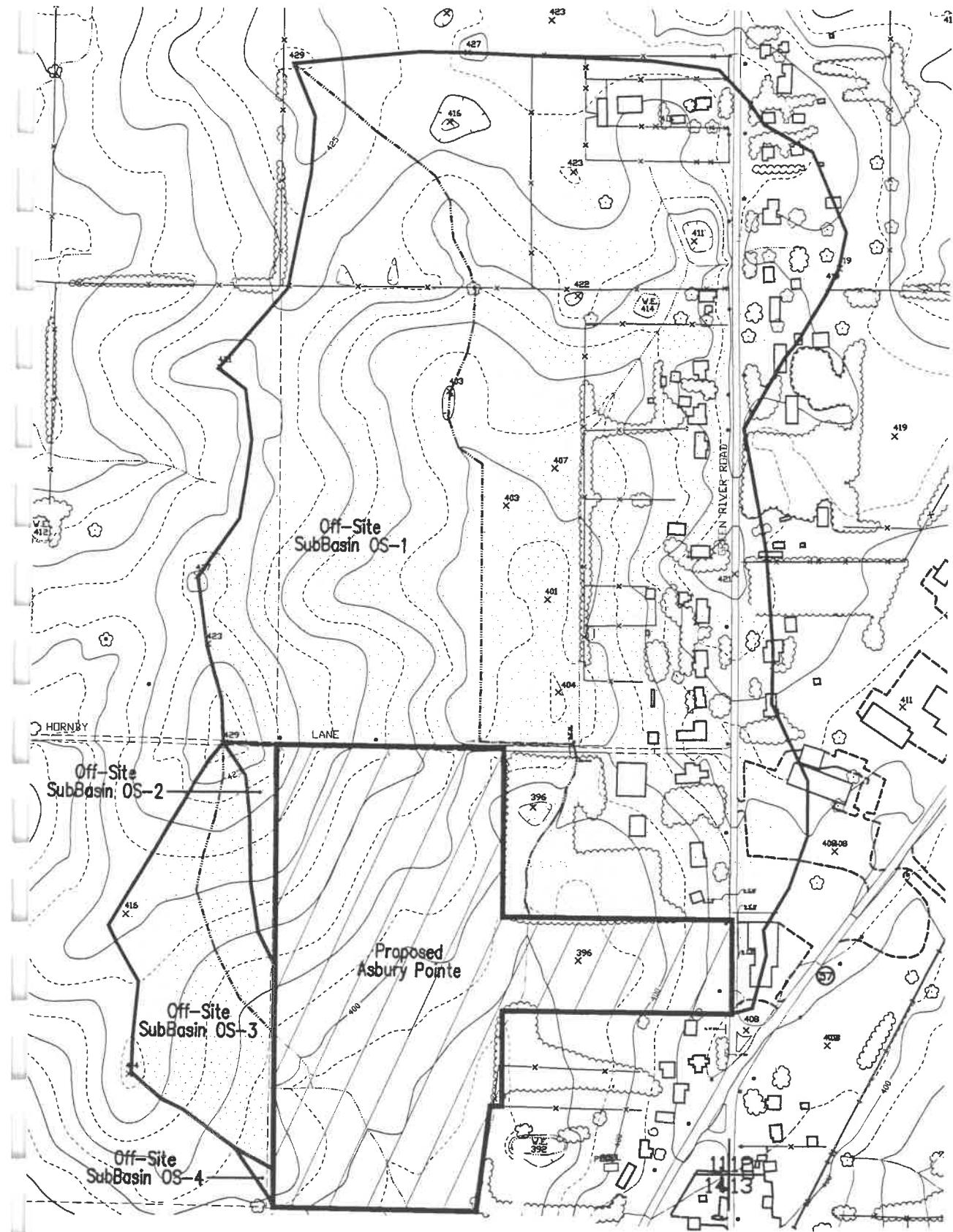
CRITICAL DEPTH
CIRCULAR PIPE

FIG. 7-430.01 L

Off-Site Drainage Sub-Basins



1'-400'



Off-Site Drainage Sub-Basins						
Sub-basin No.: OS-1	Total Area =	3,400,125 S.F.	=	78.06	Ac.	
Surface				C	N	
Structures	=	65,000 S.F.	=	1.49	Ac.	0.92 0.02
Gravel Drives	=	53,000 S.F.	=	1.22	Ac.	0.70 0.15
Pavement	=	65,000 S.F.	=	1.49	Ac.	0.92 0.02
Lawn (0-2%)	S.F.	=		0.00	Ac.	0.15 0.40
Lawn (2-5%)	920,000 S.F.	=		21.12	Ac.	0.25 0.40
Lawn (5-10%)	S.F.	=		0.00	Ac.	0.40 0.40
Woodland	314,000 S.F.	=		7.21	Ac.	0.24 0.60
Water	3,800 S.F.	=		0.09	Ac.	1.00 0.00
Cultivated Field (2-5%)	1979325 S.F.	=		45.44	Ac.	0.35 0.20
Weighted c =		0.341				
Weighted N =		0.283				
L =		3,000 Ft.				
H =		35.0 Ft.				
S =		0.0117 Ft./Ft.				
tc =		54.55 Minutes				
I(25) =		2.363 In./Hr.				(Min. 5 minutes)
Q(25) =		62.85 CFS				

Off-Site Drainage Sub-Basins

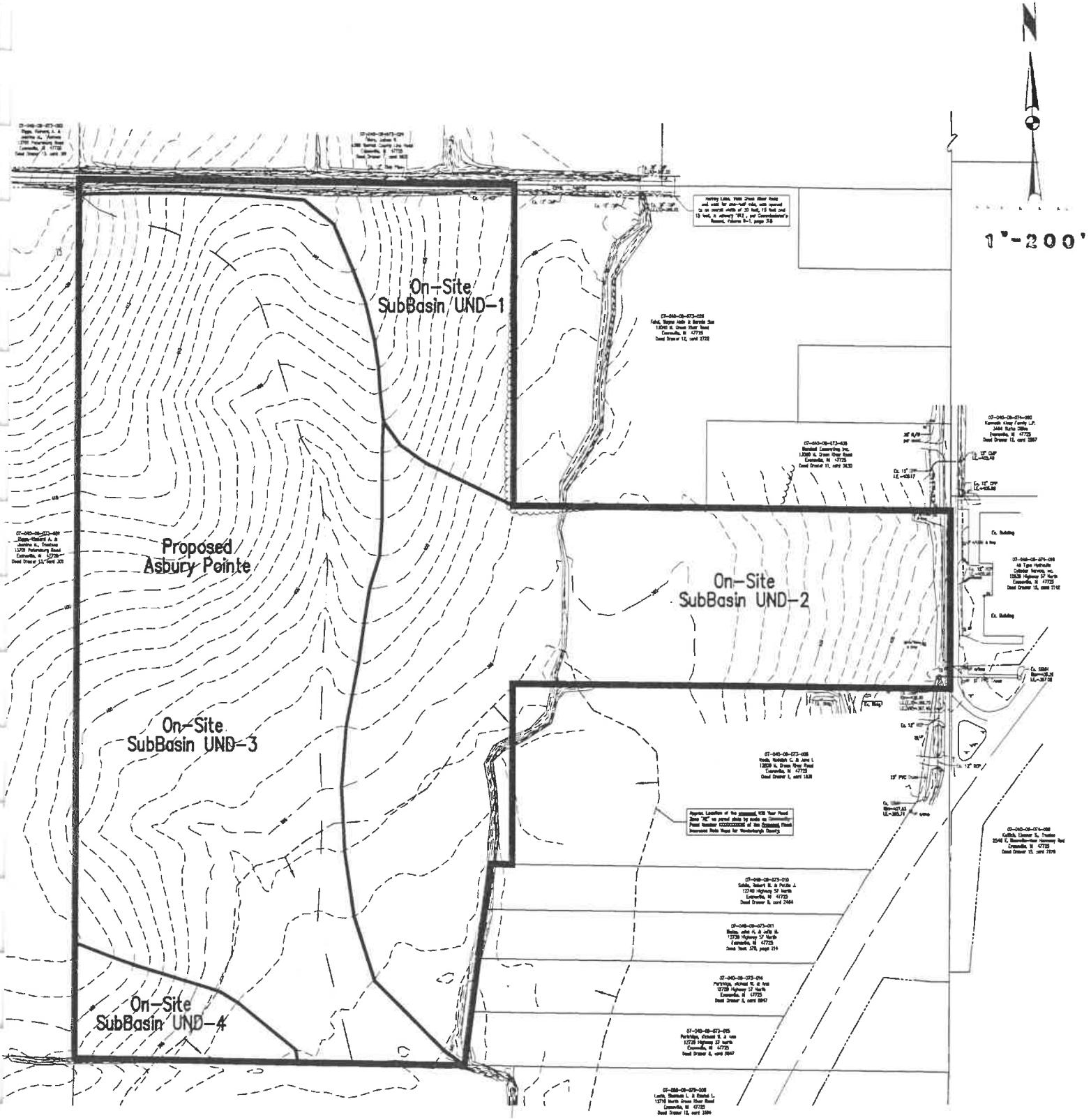
Sub-basin No. : OS-1	Total Area =	3,400,125 S.F. =	78.06 Ac.		
Surface				C	N
Structures	=	65,000 S.F. =	1.49 Ac.	0.92	0.02
Gravel Drives	=	53,000 S.F. =	1.22 Ac.	0.70	0.15
Pavement	=	65,000 S.F. =	1.49 Ac.	0.92	0.02
Lawn (0-2%)	S.F. =		0.00 Ac.	0.15	0.40
Lawn (2-5%)	920,000 S.F. =		21.12 Ac.	0.25	0.40
Lawn (5-10%)	S.F. =		0.00 Ac.	0.40	0.40
Woodland	314,000 S.F. =		7.21 Ac.	0.24	0.60
Water	3,800 S.F. =		0.09 Ac.	1.00	0.00
Cultivated Field (2-5%)	1979325 S.F. =		45.44 Ac.	0.35	0.20
Weighted C =	0.341				
Weighted N =	0.283				
L =	3,000 Ft.				
H =	35.0 Ft.				
S =	0.0117 Ft./Ft.				
tc =	54.55 Minutes				
I(100) =	3.016 In./Hr.				
Q(100) =	80.22 CFS				
<u> </u>					
(Min. 5 minutes)					

Off-Site Drainage Sub-Basins					
Sub-basin No.: OS-2	Total Area =	43,184 S.F.	=	0.99	Ac.
Surface	C N				
Cultivated Field (2-5%)	43184 S.F.	=	0.99	Ac.	0.35 0.20
	Weighted c =	0.350			
	Weighted N =	0.200			
	L =	600 Ft.			
	H =	22.0 Ft.			
	S =	0.0367 Ft./Ft.			
	tc =	16.74 Minutes	(Min. 5 minutes)		
	I(25) =	4.872 In./Hr.			
	Q(25) =	1.69 CFS			

Off-Site Drainage Sub-Basins					
Sub-basin No.: OS-3	Total Area =	348,954 S.F.	=	8.01	Ac.
Surface	C N				
Cultivated Field (2-5%)	348954 S.F.	=	8.01	Ac.	0.35 0.20
	Weighted c =	0.350			
	Weighted N =	0.200			
	L =	900 Ft.			
	H =	28.0 Ft.			
	S =	0.0311 Ft./Ft.			
	tc =	21.02 Minutes	(Min. 5 minutes)		
	I(25) =	4.476 In./Hr.			
	Q(25) =	12.55 CFS			

Off-Site Drainage Sub-Basins					
Sub-basin No.: OS-4	Total Area =	5,386 S.F.	=	0.12	Ac.
Surface	C N				
Cultivated Field (2-5%)	5386 S.F.	=	0.12	Ac.	0.35 0.20
	Weighted c =	0.350			
	Weighted N =	0.200			
	L =	200 Ft.			
	H =	5.0 Ft.			
	S =	0.0250 Ft./Ft.			
	tc =	10.96 Minutes	(Min. 5 minutes)		
	I(25) =	5.754 In./Hr.			
	Q(25) =	0.25 CFS			

On-Site Undeveloped Drainage Sub-Basins



On-Site Undeveloped Drainage Sub-Basins					
Sub-basin No.: UND-1	Total Area =	106,151 S.F. =	2.44	Ac.	
Surface			C	N	
Gravel Drive	7800 S.F. =		0.18	0.70	0.15
Cultivated Field (2-5%)	98351 S.F. =		2.26	0.35	0.20
	Weighted C =	0.376			
	Weighted N =	0.196			
	L =	660 Ft.			
	H =	18.0 Ft.			
	S =	0.0273 Ft./Ft.			
	tc =	18.59 Minutes			(Min. 5 minutes)
	I(10) =	4.206 In./Hr.			
	Q(10) =	3.85 CFS			

On-Site Undeveloped Drainage Sub-Basins					
Sub-basin No.: UND-2	Total Area =	351,585 S.F. =	8.07	Ac.	
Surface			C	N	
Pavement	3240 S.F. =		0.07	0.92	0.02
Cultivated Field (2-5%)	348345 S.F. =		8.00	0.35	0.20
	Weighted C =	0.355			
	Weighted N =	0.198			
	L =	1,500 Ft.			
	H =	21.0 Ft.			
	S =	0.0140 Ft./Ft.			
	tc =	32.03 Minutes			(Min. 5 minutes)
	I(10) =	3.131 In./Hr.			
	Q(10) =	8.98 CFS			

On-Site Undeveloped Drainage Sub-Basins					
Sub-basin No.: UND-3	Total Area =	525,998 S.F. =	12.08	Ac.	
Surface			C	N	
Cultivated Field (2-5%)	525998 S.F. =		12.08	0.35	0.20
	Weighted C =	0.350			
	Weighted N =	0.200			
	L =	1,500 Ft.			
	H =	32.0 Ft.			
	S =	0.0213 Ft./Ft.			
	tc =	29.14 Minutes			(Min. 5 minutes)
	I(10) =	3.300 In./Hr.			
	Q(10) =	13.95 CFS			

On-Site Undeveloped Drainage Sub-Basins					
Sub-basin No.: UND-4	Total Area =	37,095 S.F. =	0.85	Ac.	
Surface			C	N	
Cultivated Field (2-5%)	37095 S.F. =		0.85	0.35	0.20
	Weighted C =	0.350			
	Weighted N =	0.200			
	L =	380 Ft.			
	H =	12.0 Ft.			
	S =	0.0316 Ft./Ft.			
	tc =	14.00 Minutes			(Min. 5 minutes)
	I(10) =	4.601 In./Hr.			
	Q(10) =	1.37 CFS			

Developed Drainage Sub-Basins

Sub-basin No.:	1	Total Area =	107,902 S.F.	=	2.48 Ac.	C	N
Surface							
Structures	6	Total	1,750 S.F.	=	10,500 S.F.	=	0.24 Ac. 0.92 0.02
Drives	0	Total	600 S.F.	=	0 S.F.	=	0.00 Ac. 0.92 0.02
Pavement	0	L.F.	14.5 Width	=	0 S.F.	=	0.00 Ac. 0.92 0.02
Patios	12	Total	150 S.F.	=	1,800 S.F.	=	0.04 Ac. 0.92 0.02
Sidewalks	0	L.F.	4 Width	=	0 S.F.	=	0.00 Ac. 0.92 0.02
Lawn (0-2%)			S.F.	=			0.00 Ac. 0.15 0.40
Lawn (2-5%)			95,602 S.F.	=			2.19 Ac. 0.25 0.40
Lawn (5-10%)			S.F.	=			0.00 Ac. 0.40 0.40
Lawn (>10%)			S.F.	=			0.00 Ac. 0.55 0.40
Water			S.F.	=			0.00 Ac. 1.00 0.00
Misc.			S.F.	=			0.00 Ac. 0.92 0.02

Weighted c =	0.326
Weighted N =	0.357
L =	730 Ft.
H =	11.5 Ft.
S =	0.0158 Ft./Ft.
tc =	29.28 Minutes
I(25) =	3.713 In./Hr.
Q(25) =	3.00 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.:	3	Total Area =	38,334 S.F.	=	0.88 Ac.		
Surface Structures	4.5 Total	1,750 S.F.	=	7,875 S.F.	=	0.18 Ac.	0.92 0.02
Drives	9 Total	600 S.F.	=	5,400 S.F.	=	0.12 Ac.	0.92 0.02
Pavement	420 L.F.	14.5 Width	=	6,090 S.F.	=	0.14 Ac.	0.92 0.02
Patios	0 Total	150 S.F.	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Sidewalks	420 L.F.	4 Width	=	1,680 S.F.	=	0.04 Ac.	0.92 0.02
Lawn (0-2%)		S.F.	=			0.00 Ac.	0.15 0.40
Lawn (2-5%)		17,289 S.F.	=			0.40 Ac.	0.25 0.40
Lawn (5-10%)		S.F.	=			0.00 Ac.	0.40 0.40
Lawn (>10%)		S.F.	=			0.00 Ac.	0.55 0.40
Water		S.F.	=			0.00 Ac.	1.00 0.00
Misc.		S.F.	=			0.00 Ac.	0.92 0.02

Weighted c =	0.618
Weighted N =	0.191
L =	500 Ft.
H =	11.5 Ft.
S =	0.0230 Ft./Ft.
tc =	16.79 Minutes
I(25) =	4.868 In./Hr.
Q(25) =	2.65 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.:	4	Total Area =	25,697	S.F.	=	0.59	Ac.	
Surface Structures							C	N
Drives	2 Total	1,750	S.F.	=	3,500	S.F.	=	0.08 Ac. 0.92 0.02
Pavement	4 Total	600	S.F.	=	2,400	S.F.	=	0.06 Ac. 0.92 0.02
Patios	450 L.F.	14.5	Width	=	6,525	S.F.	=	0.15 Ac. 0.92 0.02
Sidewalks	0 Total	150	S.F.	=	0	S.F.	=	0.00 Ac. 0.92 0.02
Lawn (0-2%)							0.00	Ac. 0.15 0.40
Lawn (2-5%)							0.26	Ac. 0.25 0.40
Lawn (5-10%)							0.00	Ac. 0.40 0.40
Lawn (>10%)							0.00	Ac. 0.55 0.40
Water							0.00	Ac. 1.00 0.00
Misc.							0.00	Ac. 0.92 0.02

Weighted c =	0.621
Weighted N =	0.190
L =	500 Ft.
H =	10.5 Ft.
S =	0.0210 Ft./Ft.
tc =	17.08 Minutes
I(25) =	4.841 In./Hr.
Q(25) =	1.77 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins											
Sub-basin No.:		5	Total Area =			35,283 S.F.	=	0.81 Ac.			
Surface											
Structures	4	Total	1,750	S.F.	=	7,000	S.F.	=	0.16 Ac.	0.92	0.02
Drives	8	Total	600	S.F.	=	4,800	S.F.	=	0.11 Ac.	0.92	0.02
Pavement	450	L.F.	14.5	Width	=	6,525	S.F.	=	0.15 Ac.	0.92	0.02
Patios	0	Total	150	S.F.	=	0	S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks	450	L.F.	4	Width	=	1,800	S.F.	=	0.04 Ac.	0.92	0.02
Lawn (0-2%)				S.F.	=				0.00 Ac.	0.15	0.40
Lawn (2-5%)			15,158	S.F.	=				0.35 Ac.	0.25	0.40
Lawn (5-10%)				S.F.	=				0.00 Ac.	0.40	0.40
Lawn (>10%)				S.F.	=				0.00 Ac.	0.55	0.40
Water				S.F.	=				0.00 Ac.	1.00	0.00
Misc.				S.F.	=				0.00 Ac.	0.92	0.02
									C	N	

Developed Drainage Sub-Basins

Sub-basin No.:	7	Total Area =	60,278 S.F. =	1.38 Ac.	
Surface					
Structures	7 Total	1,750 S.F. =	12,250 S.F. =	0.28 Ac.	0.92 0.02
Drives	0 Total	600 S.F. =	0 S.F. =	0.00 Ac.	0.92 0.02
Pavement	0 L.F.	14.5 Width =	0 S.F. =	0.00 Ac.	0.92 0.02
Patios	14 Total	150 S.F. =	2,100 S.F. =	0.05 Ac.	0.92 0.02
Sidewalks	0 L.F.	4 Width =	0 S.F. =	0.00 Ac.	0.92 0.02
Lawn (0-2%)		S.F. =		0.00 Ac.	0.15 0.40
Lawn (2-5%)	45,928	S.F. =		1.05 Ac.	0.25 0.40
Lawn (5-10%)		S.F. =		0.00 Ac.	0.40 0.40
Lawn (>10%)		S.F. =		0.00 Ac.	0.55 0.40
Water		S.F. =		0.00 Ac.	1.00 0.00
Misc.		S.F. =		0.00 Ac.	0.92 0.02

Weighted c =	0.410
Weighted N =	0.310
L =	470 Ft.
H =	13.5 Ft.
S =	0.0287 Ft./Ft.
tc =	19.39 Minutes
I(25) =	4.627 In./Hr.
Q(25) =	2.62 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.:	8	Total Area =	22,612 S.F. =	0.52 Ac.	
Surface					
Structures	2.5 Total	1,750 S.F. =	4,375 S.F. =	0.10 Ac.	0.92 0.02
Drives	5 Total	600 S.F. =	3,000 S.F. =	0.07 Ac.	0.92 0.02
Pavement	300 L.F.	14.5 Width =	4,350 S.F. =	0.10 Ac.	0.92 0.02
Patios	0 Total	150 S.F. =	0 S.F. =	0.00 Ac.	0.92 0.02
Sidewalks	300 L.F.	4 Width =	1,200 S.F. =	0.03 Ac.	0.92 0.02
Lawn (0-2%)		S.F. =		0.00 Ac.	0.15 0.40
Lawn (2-5%)	9,687	S.F. =		0.22 Ac.	0.25 0.40
Lawn (5-10%)		S.F. =		0.00 Ac.	0.40 0.40
Lawn (>10%)		S.F. =		0.00 Ac.	0.55 0.40
Water		S.F. =		0.00 Ac.	1.00 0.00
Misc.		S.F. =		0.00 Ac.	0.92 0.02

Weighted c =	0.633
Weighted N =	0.183
L =	350 Ft.
H =	5.5 Ft.
S =	0.0157 Ft./Ft.
tc =	15.21 Minutes
I(25) =	5.014 In./Hr.
Q(25) =	1.65 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.:	9	Total Area =	17,928 S.F.	=	0.41 Ac.		
Surface Structures	2 Total	1,750 S.F.	=	3,500 S.F.	=	0.03 Ac.	0.92 0.02
Drives	3 Total	600 S.F.	=	1,800 S.F.	=	0.04 Ac.	0.92 0.02
Pavement	300 L.F.	14.5 Width	=	4,350 S.F.	=	0.10 Ac.	0.92 0.02
Patios	0 Total	150 S.F.	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Sidewalks	300 L.F.	4 Width	=	1,200 S.F.	=	0.03 Ac.	0.92 0.02
Lawn (0-2%)		S.F.	=			0.00 Ac.	0.15 0.40
Lawn (2-5%)		7,078 S.F.	=			0.16 Ac.	0.25 0.40
Lawn (5-10%)		S.F.	=			0.00 Ac.	0.40 0.40
Lawn (>10%)		S.F.	=			0.00 Ac.	0.55 0.40
Water		S.F.	=			0.00 Ac.	1.00 0.00
Misc.		S.F.	=			0.00 Ac.	0.92 0.02

Weighted c =	0.655
Weighted N =	0.170
L =	350 Ft.
H =	5.0 Ft.
S =	0.0143 Ft./Ft.
tc =	15.03 Minutes
I(25) =	5.030 In./Hr.
Q(25) =	1.36 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.: 10 Total Area = 50,090 S.F. = 1.15 Acre

Surface								C	N
Structures	6.5	Total	1,750	S.F.	=	11,375	S.F.	=	0.26 Ac. 0.92 0.02
Drives	0	Total	600	S.F.	=	0	S.F.	=	0.00 Ac. 0.92 0.02
Pavement	120	L.F.	14.5	Width	=	1,740	S.F.	=	0.04 Ac. 0.92 0.02
Patios	13	Total	150	S.F.	=	1,950	S.F.	=	0.04 Ac. 0.92 0.02
Sidewalks	0	L.F.	4	Width	=	0	S.F.	=	0.00 Ac. 0.92 0.02
Lawn (0-2%)				S.F.	=			0.00 Ac.	0.15 0.40
Lawn (2-5%)			36,975	S.F.	=			0.85 Ac.	0.25 0.40
Lawn (5-10%)				S.F.	=			0.00 Ac.	0.40 0.40
Lawn (>10%)				S.F.	=			0.00 Ac.	0.55 0.40
Water				S.F.	=			0.00 Ac.	1.00 0.00
Misc.				S.F.	=			0.00 Ac.	0.92 0.02

Weighted c =	0.461
Weighted N =	0.301
L =	650 Ft.
H =	14.0 Ft.
S =	0.0215 Ft./Ft.
tc =	23.82 Minutes
I(25) =	4.217 In./Hr.
Q(25) =	2.24 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No. : 11	Total Area = 18,858 S.F. = 0.43 Ac.	C 0.92	N 0.02										
Surface													
Structures	2 Total 1,750 S.F. = 3,500 S.F. = 0.08 Ac.	0.92	0.02										
Drives	4 Total 600 S.F. = 2,400 S.F. = 0.06 Ac.	0.92	0.02										
Pavement	280 L.F. 14.5 Width = 4,060 S.F. = 0.09 Ac.	0.92	0.02										
Patios	0 Total 150 S.F. = 0 S.F. = 0.00 Ac.	0.92	0.02										
Sidewalks	257 L.F. 4 Width = 1,028 S.F. = 0.02 Ac.	0.92	0.02										
Lawn (0-2%)	S.F. = 0.00 Ac.	0.15	0.40										
Lawn (2-5%)	7,870 S.F. = 0.18 Ac.	0.25	0.40										
Lawn (5-10%)	S.F. = 0.00 Ac.	0.40	0.40										
Lawn (>10%)	S.F. = 0.00 Ac.	0.55	0.40										
Water	S.F. = 0.00 Ac.	1.00	0.00										
Misc.	S.F. = 0.00 Ac.	0.92	0.02										
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>Weighted c = 0.640</td></tr> <tr><td>Weighted N = 0.179</td></tr> <tr><td>L = 300 Ft.</td></tr> <tr><td>H = 4.7 Ft.</td></tr> <tr><td>S = 0.0157 Ft./Ft.</td></tr> <tr><td> </td></tr> <tr><td>tc = 14.01 Minutes</td></tr> <tr><td>I(25) = 5.210 In./Hr.</td></tr> <tr><td> </td></tr> <tr><td>Q(25) = 1.44 CFS</td></tr> </table>				Weighted c = 0.640	Weighted N = 0.179	L = 300 Ft.	H = 4.7 Ft.	S = 0.0157 Ft./Ft.		tc = 14.01 Minutes	I(25) = 5.210 In./Hr.		Q(25) = 1.44 CFS
Weighted c = 0.640													
Weighted N = 0.179													
L = 300 Ft.													
H = 4.7 Ft.													
S = 0.0157 Ft./Ft.													
tc = 14.01 Minutes													
I(25) = 5.210 In./Hr.													
Q(25) = 1.44 CFS													
(Min. 5 minutes)													

Developed Drainage Sub-Basins

Sub-basin No. : 12	Total Area = 18,772 S.F. = 0.43 Ac.	C 0.92	N 0.02										
Surface													
Structures	2 Total 1,750 S.F. = 3,500 S.F. = 0.08 Ac.	0.92	0.02										
Drives	4 Total 600 S.F. = 2,400 S.F. = 0.06 Ac.	0.92	0.02										
Pavement	280 L.F. 14.5 Width = 4,060 S.F. = 0.09 Ac.	0.92	0.02										
Patios	0 Total 150 S.F. = 0 S.F. = 0.00 Ac.	0.92	0.02										
Sidewalks	260 L.F. 4 Width = 1,040 S.F. = 0.02 Ac.	0.92	0.02										
Lawn (0-2%)	S.F. = 0.00 Ac.	0.15	0.40										
Lawn (2-5%)	7,772 S.F. = 0.18 Ac.	0.25	0.40										
Lawn (5-10%)	S.F. = 0.00 Ac.	0.40	0.40										
Lawn (>10%)	S.F. = 0.00 Ac.	0.55	0.40										
Water	S.F. = 0.00 Ac.	1.00	0.00										
Misc.	S.F. = 0.00 Ac.	0.92	0.02										
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>Weighted c = 0.643</td></tr> <tr><td>Weighted N = 0.177</td></tr> <tr><td>L = 300 Ft.</td></tr> <tr><td>H = 3.6 Ft.</td></tr> <tr><td>S = 0.0120 Ft./Ft.</td></tr> <tr><td> </td></tr> <tr><td>tc = 14.86 Minutes</td></tr> <tr><td>I(25) = 5.058 In./Hr.</td></tr> <tr><td> </td></tr> <tr><td>Q(25) = 1.40 CFS</td></tr> </table>				Weighted c = 0.643	Weighted N = 0.177	L = 300 Ft.	H = 3.6 Ft.	S = 0.0120 Ft./Ft.		tc = 14.86 Minutes	I(25) = 5.058 In./Hr.		Q(25) = 1.40 CFS
Weighted c = 0.643													
Weighted N = 0.177													
L = 300 Ft.													
H = 3.6 Ft.													
S = 0.0120 Ft./Ft.													
tc = 14.86 Minutes													
I(25) = 5.058 In./Hr.													
Q(25) = 1.40 CFS													
(Min. 5 minutes)													

Developed Drainage Sub-Basins

Sub-basin No.: 11A		Total Area = 42,069 S.F. = 0.97 Ac.
--------------------	--	-------------------------------------

Surface

						C	N
Structures	4.5	Total	1,750	S.F. =	7,875	S.F. =	0.18 Ac. 0.92 0.02
Drives	9	Total	600	S.F. =	5,400	S.F. =	0.12 Ac. 0.92 0.02
Pavement	580	L.F.	14.5	Width =	8,410	S.F. =	0.19 Ac. 0.92 0.02
Patios	0	Total	150	S.F. =	0	S.F. =	0.00 Ac. 0.92 0.02
Sidewalks	573	L.F.	4	Width =	2,292	S.F. =	0.05 Ac. 0.92 0.02
Lawn (0-2%)				S.F. =			0.00 Ac. 0.15 0.40
Lawn (2-5%)			18,092	S.F. =			0.42 Ac. 0.25 0.40
Lawn (5-10%)				S.F. =			0.00 Ac. 0.40 0.40
Lawn (>10%)				S.F. =			0.00 Ac. 0.55 0.40
Water				S.F. =			0.00 Ac. 1.00 0.00
Misc.				S.F. =			0.00 Ac. 0.92 0.02

Weighted c = 0.632

Weighted N = 0.183

L = 466 Ft.

H = 13.2 Ft.

S = 0.0283 Ft./Ft.

tc = 15.17 Minutes

I(25) = 5.017 In./Hr.

Q(25) = 3.06 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.: 12A		Total Area = 42,254 S.F. = 0.97 Ac.
--------------------	--	-------------------------------------

Surface

						C	N
Structures	4.5	Total	1,750	S.F. =	7,875	S.F. =	0.18 Ac. 0.92 0.02
Drives	9	Total	600	S.F. =	5,400	S.F. =	0.12 Ac. 0.92 0.02
Pavement	580	L.F.	14.5	Width =	8,410	S.F. =	0.19 Ac. 0.92 0.02
Patios	0	Total	150	S.F. =	0	S.F. =	0.00 Ac. 0.92 0.02
Sidewalks	573	L.F.	4	Width =	2,292	S.F. =	0.05 Ac. 0.92 0.02
Lawn (0-2%)				S.F. =			0.00 Ac. 0.15 0.40
Lawn (2-5%)			18,277	S.F. =			0.42 Ac. 0.25 0.40
Lawn (5-10%)				S.F. =			0.00 Ac. 0.40 0.40
Lawn (>10%)				S.F. =			0.00 Ac. 0.55 0.40
Water				S.F. =			0.00 Ac. 1.00 0.00
Misc.				S.F. =			0.00 Ac. 0.92 0.02

Weighted c = 0.630

Weighted N = 0.184

L = 468 Ft.

H = 13.3 Ft.

S = 0.0284 Ft./Ft.

tc = 15.23 Minutes

I(25) = 5.012 In./Hr.

(Min. 5 minutes)

Developed Drainage Sub-Basins

Developed Drainage Sub-Basins

Developed Drainage Sub-Basins

Sub-basin No.:	15	Total Area =	37,062	S.F. =	0.85	Ac.		
Surface					C	N		
Structures	3 Total	1,750 S.F. =	5,250	S.F. =	0.12	Ac.	0.92	0.02
Drives	6 Total	600 S.F. =	3,600	S.F. =	0.08	Ac.	0.92	0.02
Pavement	700 L.F.	14.5 Width =	10,150	S.F. =	0.23	Ac.	0.92	0.02
Patios	0 Total	150 S.F. =	0	S.F. =	0.00	Ac.	0.92	0.02
Sidewalks	700 L.F.	4 Width =	2,800	S.F. =	0.06	Ac.	0.92	0.02
Lawn (0-2%)		S.F. =			0.00	Ac.	0.15	0.40
Lawn (2-5%)		15,262 S.F. =			0.35	Ac.	0.25	0.40
Lawn (5-10%)		S.F. =			0.00	Ac.	0.40	0.40
Lawn (>10%)		S.F. =			0.00	Ac.	0.55	0.40
Water		S.F. =			0.00	Ac.	1.00	0.00
Misc.		S.F. =			0.00	Ac.	0.92	0.02

Weighted c =	0.644
Weighted N =	0.176
L =	350 Ft.
H =	6.0 Ft.
S =	0.0171 Ft./Ft.
tc =	14.66 Minutes
I(25) =	5.094 In./Hr.
Q(25) =	2.79 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.:	16	Total Area =	25,152 S.F.	=	0.58 Ac.		
Surface Structures	3 Total	1,750 S.F.	=	5,250 S.F.	=	0.12 Ac.	C 0.92 0.02
Drives	0 Total	600 S.F.	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Pavement	0 L.F.	14.5 Width	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Patios	6 Total	150 S.F.	=	900 S.F.	=	0.02 Ac.	0.92 0.02
Sidewalks	0 L.F.	4 Width	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Lawn (0-2%)		S.F.	=			0.00 Ac.	0.15 0.40
Lawn (2-5%)		19,902 S.F.	=			0.46 Ac.	0.25 0.40
Lawn (5-10%)		S.F.	=			0.00 Ac.	0.40 0.40
Lawn (>10%)		S.F.	=			0.00 Ac.	0.55 0.40
Water		S.F.	=			0.00 Ac.	1.00 0.00
MISC.		S.F.	=			0.00 Ac.	0.92 0.02

Weighted c =	0.423
Weighted N =	0.321
L =	250 Ft.
H =	7.0 Ft.
S =	0.0280 Ft./Ft.
tc =	14.78 Minutes
I(25) =	5.072 In./Hr.
Q(25) =	1.24 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.: 17	Total Area = 44,546 S.F. = 1.02 Ac.
-------------------	-------------------------------------

Surface										C	N
Structures	4.5	Total	1,750	S.F. =	7,875	S.F. =	0.18	Ac.	0.92	0.02	
Drives	9	Total	600	S.F. =	5,400	S.F. =	0.12	Ac.	0.92	0.02	
Pavement	550	L.F.	14.5	Width =	7,975	S.F. =	0.18	Ac.	0.92	0.02	
Patios	0	Total	150	S.F. =	0	S.F. =	0.00	Ac.	0.92	0.02	
Sidewalks	550	L.F.	4	Width =	2,200	S.F. =	0.05	Ac.	0.92	0.02	
Lawn (0-2%)				S.F. =			0.00	Ac.	0.15	0.40	
Lawn (2-5%)			21,096	S.F. =			0.48	Ac.	0.25	0.40	
Lawn (5-10%)				S.F. =			0.00	Ac.	0.40	0.40	
Lawn (>10%)				S.F. =			0.00	Ac.	0.55	0.40	
Water				S.F. =			0.00	Ac.	1.00	0.00	
Misc.				S.F. =			0.00	Ac.	0.92	0.02	

Weighted c = 0.603
Weighted N = 0.200
L = 400 Ft.
H = 7.0 Ft.
S = 0.0175 Ft./Ft.
tc = 16.46 Minutes
I(25) = 4.898 In./Hr.
Q(25) = 3.02 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.: 18	Total Area = 45,055 S.F. = 1.03 Ac.
-------------------	-------------------------------------

Surface										C	N
Structures	4	Total	1,750	S.F. =	7,000	S.F. =	0.16	Ac.	0.92	0.02	
Drives	0	Total	600	S.F. =	0	S.F. =	0.00	Ac.	0.92	0.02	
Pavement	0	L.F.	14.5	Width =	0	S.F. =	0.00	Ac.	0.92	0.02	
Patios	8	Total	150	S.F. =	1,200	S.F. =	0.03	Ac.	0.92	0.02	
Sidewalks	0	L.F.	4	Width =	0	S.F. =	0.00	Ac.	0.92	0.02	
Lawn (0-2%)				S.F. =			0.00	Ac.	0.15	0.40	
Lawn (2-5%)			36,855	S.F. =			0.85	Ac.	0.25	0.40	
Lawn (5-10%)				S.F. =			0.00	Ac.	0.40	0.40	
Lawn (>10%)				S.F. =			0.00	Ac.	0.55	0.40	
Water				S.F. =			0.00	Ac.	1.00	0.00	
Misc.				S.F. =			0.00	Ac.	0.92	0.02	

Weighted c = 0.372
Weighted N = 0.331
L = 400 Ft.
H = 7.5 Ft.
S = 0.0188 Ft./Ft.
tc = 20.49 Minutes
I(25) = 4.525 In./Hr.
Q(25) = 1.74 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.: 19	Total Area =	22,475 S.F. =	0.52 Ac.
-------------------	--------------	---------------	----------

Surface	C	N
Structures 2.5 Total 1,750 S.F. =	0.10	Ac. 0.92 0.02
Drives 4 Total 600 S.F. =	0.06	Ac. 0.92 0.02
Pavement 350 L.F. 14.5 Width =	0.12	Ac. 0.92 0.02
Patios 0 Total 150 S.F. =	0.00	Ac. 0.92 0.02
Sidewalks 350 L.F. 4 Width =	0.03	Ac. 0.92 0.02
Lawn (0-2%) S.F. =	0.00	Ac. 0.15 0.40
Lawn (2-5%) 9,225 S.F. =	0.21	Ac. 0.25 0.40
Lawn (5-10%) S.F. =	0.00	Ac. 0.40 0.40
Lawn (>10%) S.F. =	0.00	Ac. 0.55 0.40
Water S.F. =	0.00	Ac. 1.00 0.00
Misc. S.F. =	0.00	Ac. 0.92 0.02

Weighted c =	0.645
Weighted N =	0.176
L =	250 Ft.
H =	4.5 Ft.
S =	0.0180 Ft./Ft.
tc =	12.37 Minutes
I(25) =	5.502 In./Hr.
Q(25) =	1.83 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.: 20	Total Area =	18,540 S.F. =	0.43 Ac.
-------------------	--------------	---------------	----------

Surface	C	N
Structures 2 Total 1,750 S.F. =	0.08	Ac. 0.92 0.02
Drives 4 Total 600 S.F. =	0.06	Ac. 0.92 0.02
Pavement 300 L.F. 14.5 Width =	0.10	Ac. 0.92 0.02
Patios 0 Total 150 S.F. =	0.00	Ac. 0.92 0.02
Sidewalks 300 L.F. 4 Width =	0.03	Ac. 0.92 0.02
Lawn (0-2%) S.F. =	0.00	Ac. 0.15 0.40
Lawn (2-5%) 7,090 S.F. =	0.16	Ac. 0.25 0.40
Lawn (5-10%) S.F. =	0.00	Ac. 0.40 0.40
Lawn (>10%) S.F. =	0.00	Ac. 0.55 0.40
Water S.F. =	0.00	Ac. 1.00 0.00
Misc. S.F. =	0.00	Ac. 0.92 0.02

Weighted c =	0.664
Weighted N =	0.165
L =	200 Ft.
H =	3.0 Ft.
S =	0.0150 Ft./Ft.
tc =	11.30 Minutes
I(25) =	5.693 In./Hr.
Q(25) =	1.61 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.:	21	Total Area =	19,125 S.F.	=	0.44 Ac.
----------------	----	--------------	-------------	---	----------

Surface			C	N
Structures	2 Total	1,750 S.F.	=	3,500 S.F. = 0.08 Ac. 0.92 0.02
Drives	0 Total	600 S.F.	=	0 S.F. = 0.00 Ac. 0.92 0.02
Pavement	0 L.F.	14.5 Width	=	0 S.F. = 0.00 Ac. 0.92 0.02
Patios	4 Total	150 S.F.	=	600 S.F. = 0.01 Ac. 0.92 0.02
Sidewalks	0 L.F.	4 Width	=	0 S.F. = 0.00 Ac. 0.92 0.02
Lawn (0-2%)		S.F. =		0.00 Ac. 0.15 0.40
Lawn (2-5%)		15,025 S.F. =		0.34 Ac. 0.25 0.40
Lawn (5-10%)		S.F. =		0.00 Ac. 0.40 0.40
Lawn (>10%)		S.F. =		0.00 Ac. 0.55 0.40
Water		S.F. =		0.00 Ac. 1.00 0.00
Misc.		S.F. =		0.00 Ac. 0.92 0.02

Weighted c =	0.394
Weighted N =	0.319
L =	200 Ft.
H =	3.5 Ft.
S =	0.0175 Ft./Ft.
tc =	14.80 Minutes
I(25) =	5.069 In./Hr.
Q(25) =	0.88 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.:	22	Total Area =	68,395 S.F.	=	1.57 Ac.
----------------	----	--------------	-------------	---	----------

Surface			C	N
Structures	3 Total	1,750 S.F.	=	5,250 S.F. = 0.12 Ac. 0.92 0.02
Drives	0 Total	600 S.F.	=	0 S.F. = 0.00 Ac. 0.92 0.02
Pavement	0 L.F.	14.5 Width	=	0 S.F. = 0.00 Ac. 0.92 0.02
Patios	6 Total	150 S.F.	=	900 S.F. = 0.02 Ac. 0.92 0.02
Sidewalks	0 L.F.	4 Width	=	0 S.F. = 0.00 Ac. 0.92 0.02
Lawn (0-2%)		S.F. =		0.00 Ac. 0.15 0.40
Lawn (2-5%)		37,145 S.F. =		0.85 Ac. 0.25 0.40
Lawn (5-10%)		S.F. =		0.00 Ac. 0.40 0.40
Lawn (>10%)		S.F. =		0.00 Ac. 0.55 0.40
Water		26,000 S.F. =		0.60 Ac. 1.00 0.00
Misc.		S.F. =		0.00 Ac. 0.92 0.02

Weighted c =	0.599
Weighted N =	0.219
L =	200 Ft.
H =	7.5 Ft.
S =	0.0375 Ft./Ft.
tc =	10.40 Minutes
I(25) =	5.854 In./Hr.
Q(25) =	5.50 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.:	23	Total Area =	32,328 S.F.	=	0.74 Ac.		
Surface							
Structures	1 Total	1,750 S.F.	=	1,750 S.F.	=	0.04 Ac.	0.92 0.02
Drives	0 Total	600 S.F.	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Pavement	0 L.F.	14.5 Width	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Patios	2 Total	150 S.F.	=	300 S.F.	=	0.01 Ac.	0.92 0.02
Sidewalks	0 L.F.	4 Width	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Lawn (0-2%)		S.F.	=			0.00 Ac.	0.15 0.40
Lawn (2-5%)		30,278 S.F.	=			0.70 Ac.	0.25 0.40
Lawn (5-10%)		S.F.	=			0.00 Ac.	0.40 0.40
Lawn (>10%)		S.F.	=			0.00 Ac.	0.55 0.40
Water		S.F.	=			0.00 Ac.	1.00 0.00
Misc.		S.F.	=			0.00 Ac.	0.92 0.02

Weighted C =	0.292
Weighted N =	0.376
L =	100 Ft.
H =	5.0 Ft.
S =	0.0500 Ft./Ft.
tc =	9.05 Minutes
I(25) =	6.189 In./Hr.
Q(25) =	1.34 CFS

(Min. 5 minutes)

Developed Drainage Sub-Basins

Sub-basin No.:	24	Total Area =	55,224 S.F.	=	1.27 Ac.		
Surface							
Structures	2.5 Total	1,750 S.F.	=	4,375 S.F.	=	0.10 Ac.	0.92 0.02
Drives	0 Total	600 S.F.	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Pavement	0 L.F.	14.5 Width	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Patios	5 Total	150 S.F.	=	750 S.F.	=	0.02 Ac.	0.92 0.02
Sidewalks	0 L.F.	4 Width	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Lawn (0-2%)		S.F.	=			0.00 Ac.	0.15 0.40
Lawn (2-5%)		50,849 S.F.	=			1.17 Ac.	0.25 0.40
Lawn (5-10%)		S.F.	=			0.00 Ac.	0.40 0.40
Lawn (>10%)		S.F.	=			0.00 Ac.	0.55 0.40
Water		S.F.	=			0.00 Ac.	1.00 0.00
Misc.		S.F.	=			0.00 Ac.	0.92 0.02

Weighted C =	0.316
Weighted N =	0.370
L =	150 Ft.
H =	7.5 Ft.
S =	0.0500 Ft./Ft.
tc =	10.86 Minutes
I(25) =	5.772 In./Hr.
Q(25) =	2.31 CFS

(Min. 5 minutes)

Combined Drainage Sub-Basin For FES 505

Sub-basin No.: OS-1+1+10	Total Area =	3,558,117 S.F.	=	81.68 Ac.	
Surface				C	N
Structures	=	86,875 S.F.	=	1.99 Ac.	0.92 0.02
Gravel Drives	=	54,950 S.F.	=	1.26 Ac.	0.70 0.15
Pavement	=	66,740 S.F.	=	1.53 Ac.	0.92 0.02
Patios	=	3,750 S.F.	=	0.09 Ac.	0.92 0.02
Lawn (0-2%)	S.F.	=		0.00	Ac. 0.15 0.40
Lawn (2-5%)	1,052,577 S.F.	=		24.16	Ac. 0.25 0.40
Lawn (5-10%)	S.F.	=		0.00	Ac. 0.40 0.40
Woodland	314,000 S.F.	=		7.21	Ac. 0.24 0.60
Water	3,800 S.F.	=		0.09	Ac. 1.00 0.00
Cultivated Field (2-5%)	1979325 S.F.	=		45.44	Ac. 0.35 0.20

Weighted C =	0.342
Weighted N =	0.286
L =	3,000 Ft.
H =	35.0 Ft.
S =	0.0117 Ft./Ft.
tc =	54.78 Minutes
I(100) =	3.001 In./Hr.
Q(100) =	83.93 CFS

(Min. 5 minutes)

Combined Drainage Sub-Basin For FES 525

Sub-basin No.: OS-2+2	Total Area =	91,619 S.F. =	2.10 Ac.																
Surface																			
Structures	=	7,000 S.F. =	0.16 Ac. 0.92 0.02																
Patios	=	1,200 S.F. =	0.03 Ac. 0.92 0.02																
Lawn (0-2%)	S.F. =		0.00 Ac. 0.15 0.40																
Lawn (2-5%)	41,435 S.F. =		0.95 Ac. 0.25 0.40																
Lawn (5-10%)	S.F. =		0.00 Ac. 0.40 0.40																
Woodland	S.F. =		0.00 Ac. 0.24 0.60																
Water	S.F. =		0.00 Ac. 1.00 0.00																
Cultivated Field (2-5%)	43,184 S.F. =		0.99 Ac. 0.35 0.20																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Weighted c =</td><td>0.360</td></tr> <tr><td>Weighted N =</td><td>0.277</td></tr> <tr><td>L =</td><td>680 Ft.</td></tr> <tr><td>H =</td><td>14.0 Ft.</td></tr> <tr><td>S =</td><td>0.0206 Ft./Ft.</td></tr> <tr><td>tc =</td><td>23.64 Minutes</td></tr> <tr><td>I(25) =</td><td>4.234 In./Hr.</td></tr> <tr><td>Q(25) =</td><td>3.21 CFS</td></tr> </table>				Weighted c =	0.360	Weighted N =	0.277	L =	680 Ft.	H =	14.0 Ft.	S =	0.0206 Ft./Ft.	tc =	23.64 Minutes	I(25) =	4.234 In./Hr.	Q(25) =	3.21 CFS
Weighted c =	0.360																		
Weighted N =	0.277																		
L =	680 Ft.																		
H =	14.0 Ft.																		
S =	0.0206 Ft./Ft.																		
tc =	23.64 Minutes																		
I(25) =	4.234 In./Hr.																		
Q(25) =	3.21 CFS																		
(Min. 5 minutes)																			

Combined Drainage Sub-Basin For FES 539

Sub-basin No.: OS-3+18	Total Area =	394,009 S.F. =	9.05 Ac.																
Surface																			
Structures	=	7,000 S.F. =	0.16 Ac. 0.92 0.02																
Patios	=	1,200 S.F. =	0.03 Ac. 0.92 0.02																
Lawn (0-2%)	S.F. =		0.00 Ac. 0.15 0.40																
Lawn (2-5%)	36,855 S.F. =		0.85 Ac. 0.25 0.40																
Lawn (5-10%)	S.F. =		0.00 Ac. 0.40 0.40																
Woodland	S.F. =		0.00 Ac. 0.24 0.60																
Water	S.F. =		0.00 Ac. 1.00 0.00																
Cultivated Field (2-5%)	348,954 S.F. =		8.01 Ac. 0.35 0.20																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Weighted c =</td><td>0.353</td></tr> <tr><td>Weighted N =</td><td>0.215</td></tr> <tr><td>L =</td><td>900 Ft.</td></tr> <tr><td>H =</td><td>28.0 Ft.</td></tr> <tr><td>S =</td><td>0.0311 Ft./Ft.</td></tr> <tr><td>tc =</td><td>21.74 Minutes</td></tr> <tr><td>I(25) =</td><td>4.410 In./Hr.</td></tr> <tr><td>Q(25) =</td><td>14.06 CFS</td></tr> </table>				Weighted c =	0.353	Weighted N =	0.215	L =	900 Ft.	H =	28.0 Ft.	S =	0.0311 Ft./Ft.	tc =	21.74 Minutes	I(25) =	4.410 In./Hr.	Q(25) =	14.06 CFS
Weighted c =	0.353																		
Weighted N =	0.215																		
L =	900 Ft.																		
H =	28.0 Ft.																		
S =	0.0311 Ft./Ft.																		
tc =	21.74 Minutes																		
I(25) =	4.410 In./Hr.																		
Q(25) =	14.06 CFS																		
(Min. 5 minutes)																			

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

VANDERBURGH
COUNTY,
INDIANA
UNINCORPORATED AREAS

PANEL 15 OF 100

N.W. OF N.E.

COMMUNITY-PANEL NUMBER

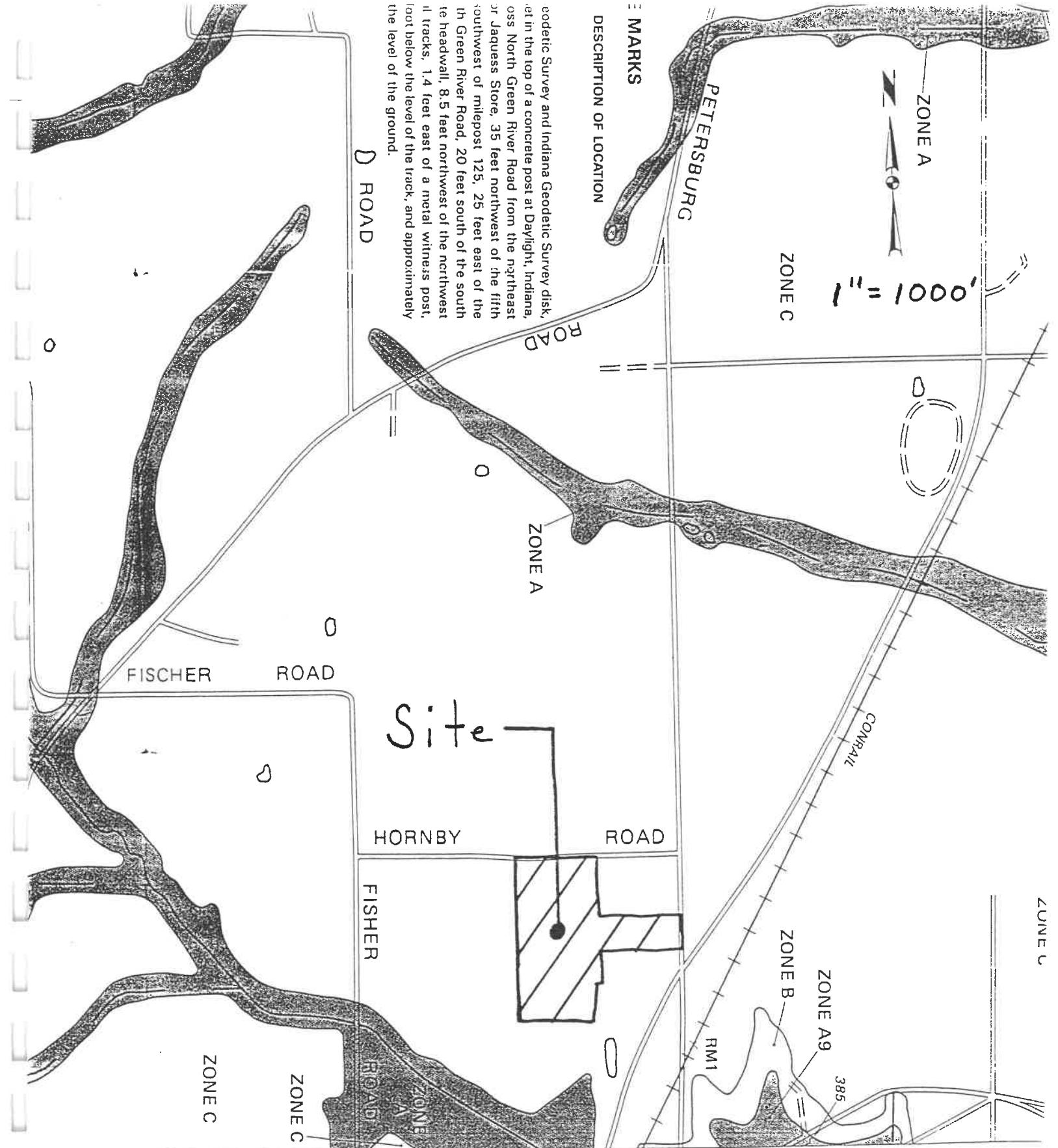
180256 0015 C

MAP REVISED:

AUGUST 5, 1991



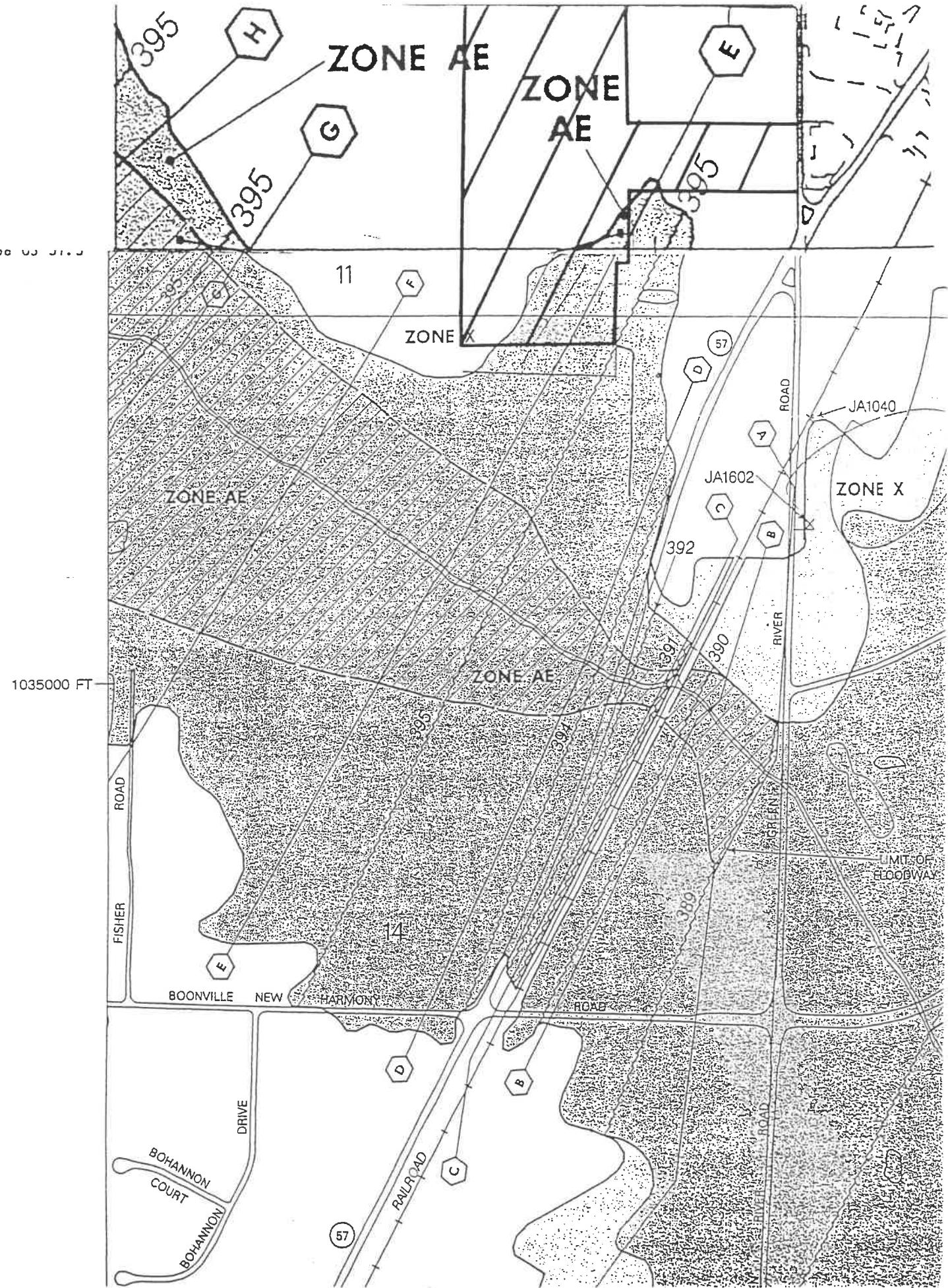
Federal Emergency Management Agency



***EXPLANATION**

ZONE	A	Areas of 100-year flood hazard.
A0	Areas of 100-year flood hazard are between or above base flood elevations and are determined by A1-A30.	
A99	Areas of 100-year protection system elevations and areas between or above base flood elevations and are determined by A1-A30.	
B	Areas between or above base flood elevations and are determined by V1-V30.	
C	Areas of minimum flood protection system elevations and are determined by V1-V30.	
D	Areas of undeveloped land.	
V	Areas of 100-year protection system elevations and are determined by V1-V30.	

Note: This map is for use in an administrative program, it does not necessarily reflect local planimetric features or boundaries. Certain areas not in the protected by flood control.



Proposed FIRM Map

FLOOD INSURANCE STUDY



VANDERBURGH COUNTY, INDIANA AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY NUMBER
EVANSVILLE, CITY OF	180257
VANDERBURGH COUNTY (UNINCORPORATED AREAS)	180256



Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
18163CV000A

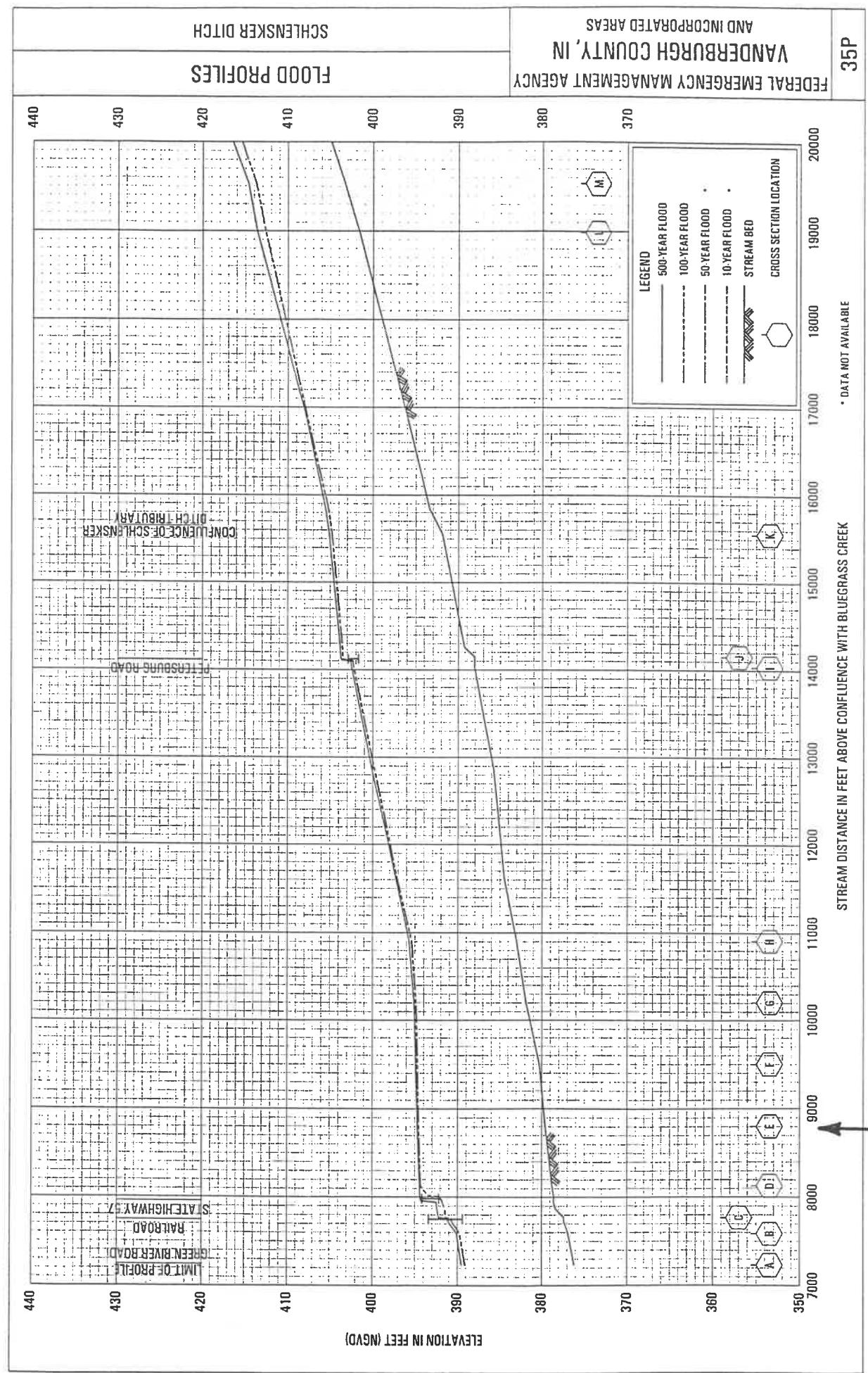
FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NGVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Schlensker Ditch								
A	7,233	605	1,655	3.4	389.1	389.2	389.2	0.1
B	7,587	268	1,695	6.4	389.8	389.8	389.9	0.1
C	7,769	88	1,078	5.2	391.4	391.4	391.5	0.1
D	8,126	400	4,230	2.2	394.4	394.4	394.4	0.0
E	8,801	880	4,205	1.3	394.6	394.6	394.6	0.0
F	9,501	1,120	3,892	1.4	394.7	394.7	394.8	0.0
G	10,205	1,400	3,380	1.5	394.9	394.9	395.0	0.1
H	10,909	1,560	1,807	2.7	395.4	395.4	395.5	0.1
I	14,033	1,110	2,037	2.2	402.2	402.2	402.3	0.1
J	14,149	989	3,301	1.3	403.5	403.5	403.6	0.1
K	15,555	1,100	2,164	1.9	404.8	404.8	404.9	0.1
L	18,985	115	565	3.2	412.6	412.6	412.7	0.1
M	19,535	61	375	4.8	413.8	413.8	413.8	0.0
N	20,655	86	351	3.7	417.8	417.8	417.8	0.0
O	21,215	95	404	3.0	419.1	419.1	419.1	0.0
P	22,440	37	242	4.0	425.3	425.3	425.3	0.0
Q	22,915	33	165	5.3	426.7	426.7	426.7	0.0
R	23,137	35	156	5.6	427.7	427.7	427.7	0.0
S	23,559	22	102	8.6	431.2	431.2	431.3	0.1
T	24,213	220	350	2.5	435.4	435.4	435.5	0.1
U	24,983	140	229	3.8	440.8	440.8	440.9	0.1

¹Feet above confluence with Bluegrass Creek

VANDERBURGH COUNTY, IN
AND INCORPORATED AREAS

TABLE 4

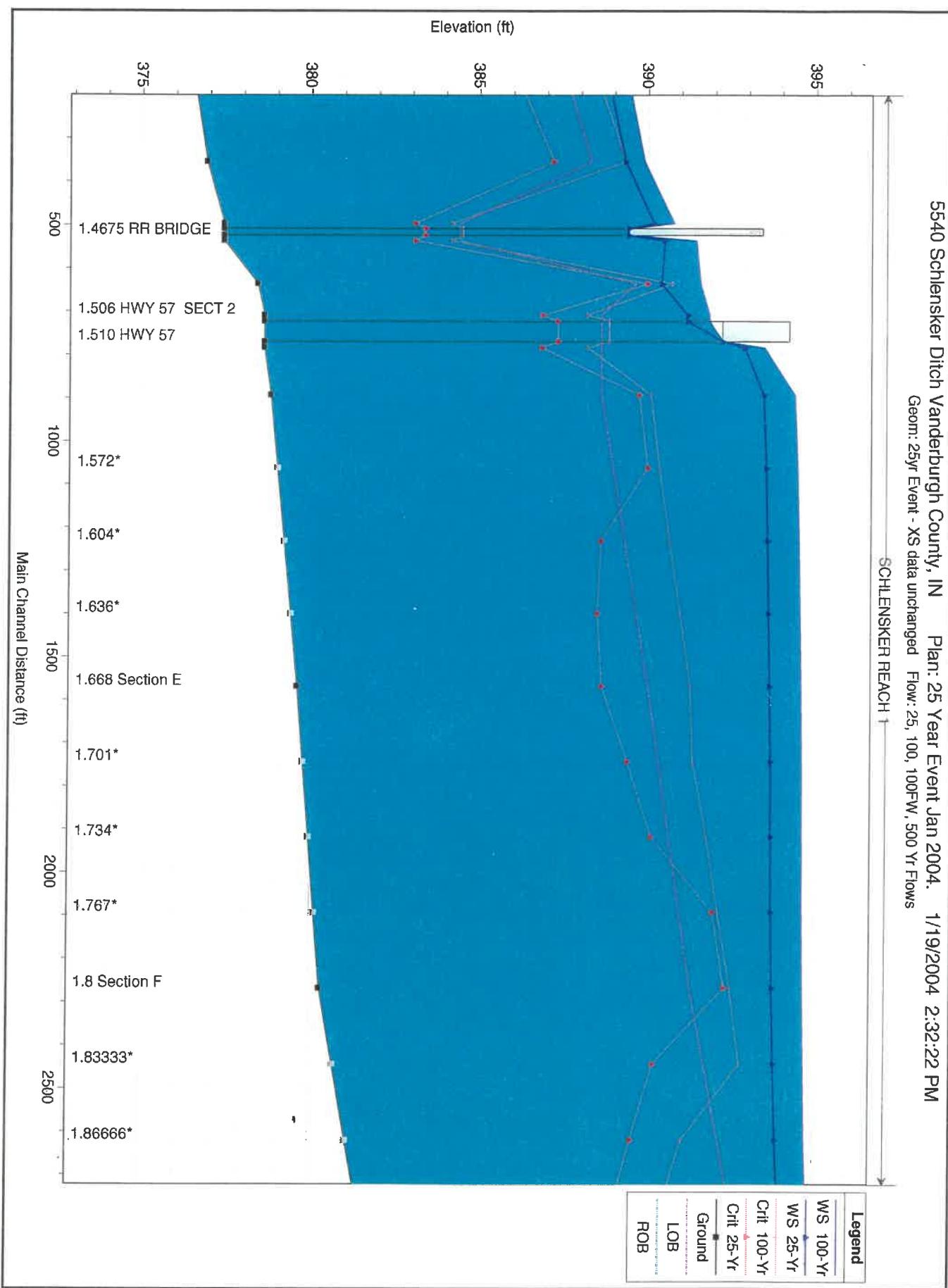
FLOODWAY DATA
SCHLENSKER DITCH



HEC-RAS Plan: 25Year_Rev01 River: SCHLENSKER Reach: REACH 1 (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
REACH 1	2.202	100-Yr	4925.00	384.50	397.11	396.63	397.22	0.001752	4.08	2520.40	1850.50	0.25
REACH 1	2.202	25-Yr	3650.00	384.50	396.85	395.02	396.95	0.001688	3.92	2030.13	1806.06	0.25
REACH 1	2.066666	100-Yr	4925.00	383.00	395.65	395.35	395.78	0.002291	4.50	2398.04	2038.52	0.29
REACH 1	2.066666	25-Yr	3650.00	383.00	395.38	393.48	395.54	0.002423	4.52	1853.46	2017.55	0.30
REACH 1	1.933333	100-Yr	4925.00	381.90	394.87	389.67	394.91	0.000482	2.50	3691.31	1759.07	0.14
REACH 1	1.933333	25-Yr	3650.00	381.90	394.09	388.37	394.18	0.000826	3.10	2347.48	1700.76	0.18
REACH 1	1.8	100-Yr	5300.00	380.30	394.66	392.49	394.67	0.000233	1.72	5083.92	1764.52	0.09
REACH 1	1.8	25-Yr	3950.00	380.30	393.74	392.31	393.76	0.000362	2.01	3540.56	1593.69	0.12
REACH 1	1.668	100-Yr	5300.00	379.60	394.58	391.27	394.60	0.000174	1.68	4316.90	3115.94	0.09
REACH 1	1.668	25-Yr	3950.00	379.60	393.63	388.63	393.65	0.000196	1.68	3455.97	3060.64	0.09
REACH 1	1.54	100-Yr	5590.00	378.80	394.36	390.07	394.44	0.000407	2.35	2563.23	2336.01	0.13
REACH 1	1.54	25-Yr	4175.00	378.80	393.43	389.72	393.49	0.000381	2.12	2190.50	2311.82	0.13
REACH 1	1.516	100-Yr	5590.00	378.60	393.45	388.18	394.15	0.002942	6.72	831.98	2317.75	0.37
REACH 1	1.516	25-Yr	4175.00	378.60	392.85	386.82	393.29	0.002004	5.33	783.54	2305.26	0.30
REACH 1	1.510	Bridge										
REACH 1	1.506	100-Yr	5590.00	378.60	391.81	388.16	392.80	0.005234	7.99	699.94	2202.97	0.48
REACH 1	1.506	25-Yr	4175.00	378.60	391.16	386.85	391.80	0.003793	6.45	647.09	2142.59	0.40
REACH 1	1.49	100-Yr	5590.00	378.40	391.53	390.70	392.24	0.006590	7.48	892.00	1267.33	0.51
REACH 1	1.49	25-Yr	4175.00	378.40	390.38	389.96	391.30	0.010075	8.17	604.29	1048.80	0.61
REACH 1	1.470	100-Yr	5590.00	377.40	391.42	384.14	391.85	0.001389	5.21	1073.45	250.00	0.26
REACH 1	1.470	25-Yr	4175.00	377.40	390.47	383.06	390.75	0.001014	4.22	990.37	250.00	0.22
REACH 1	1.4675	Bridge										
REACH 1	1.465	100-Yr	5590.00	377.40	390.75	384.14	391.22	0.001385	5.51	1014.86	250.00	0.29
REACH 1	1.465	25-Yr	4175.00	377.40	390.14	383.06	390.43	0.000926	4.34	961.21	250.00	0.23
REACH 1	1.437	100-Yr	5590.00	376.90	389.85	389.31	390.74	0.005781	8.58	878.27	1524.64	0.53

5540 Schleinsker Ditch Vanderburgh County, IN Plan: 25 Year Event Jan 2004. 1/19/2004 2:32:22 PM
Geom: 25yr Event - XS data unchanged Flow: 25, 100, 100F-W, 500 yr Flows



5540 Schleensker Ditch Vanderburgh County, IN Plan: 25 Year Event Jan 2004. 1/19/2004 1:59:16 PM
Geom: 25yr Event - XS data unchanged Flow: 25, 100, 100FW, 500 Yr Flows
River = SCHLENSKER Reach = REACH 1 RS = 1.668 Section E

