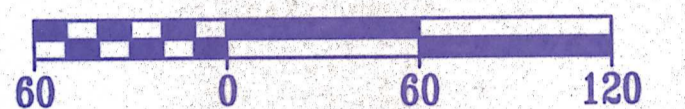


**FOR APPROVAL**

DATE \_\_\_\_\_ BY \_\_\_\_\_

MAR 05 1998

SCALE 1" = 60'



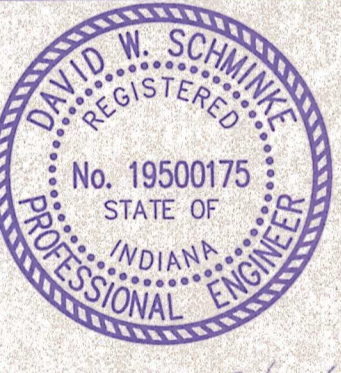
7.44± Acres Tract

LIMITS OF 100 YEAR FLOOD - ZONE A  
SCALED FROM FIRM MAP  
COMMUNITY PANEL 180256 0100 B  
DATED MARCH 19, 1982

**Morley and Associates, Inc.**  
Consulting Engineers/Surveyors/Architects  
605 S.E. Martin Luther King Jr. Blvd.  
Evansville, Indiana 47713  
(812) 464-9595

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No.	By	Date	Description

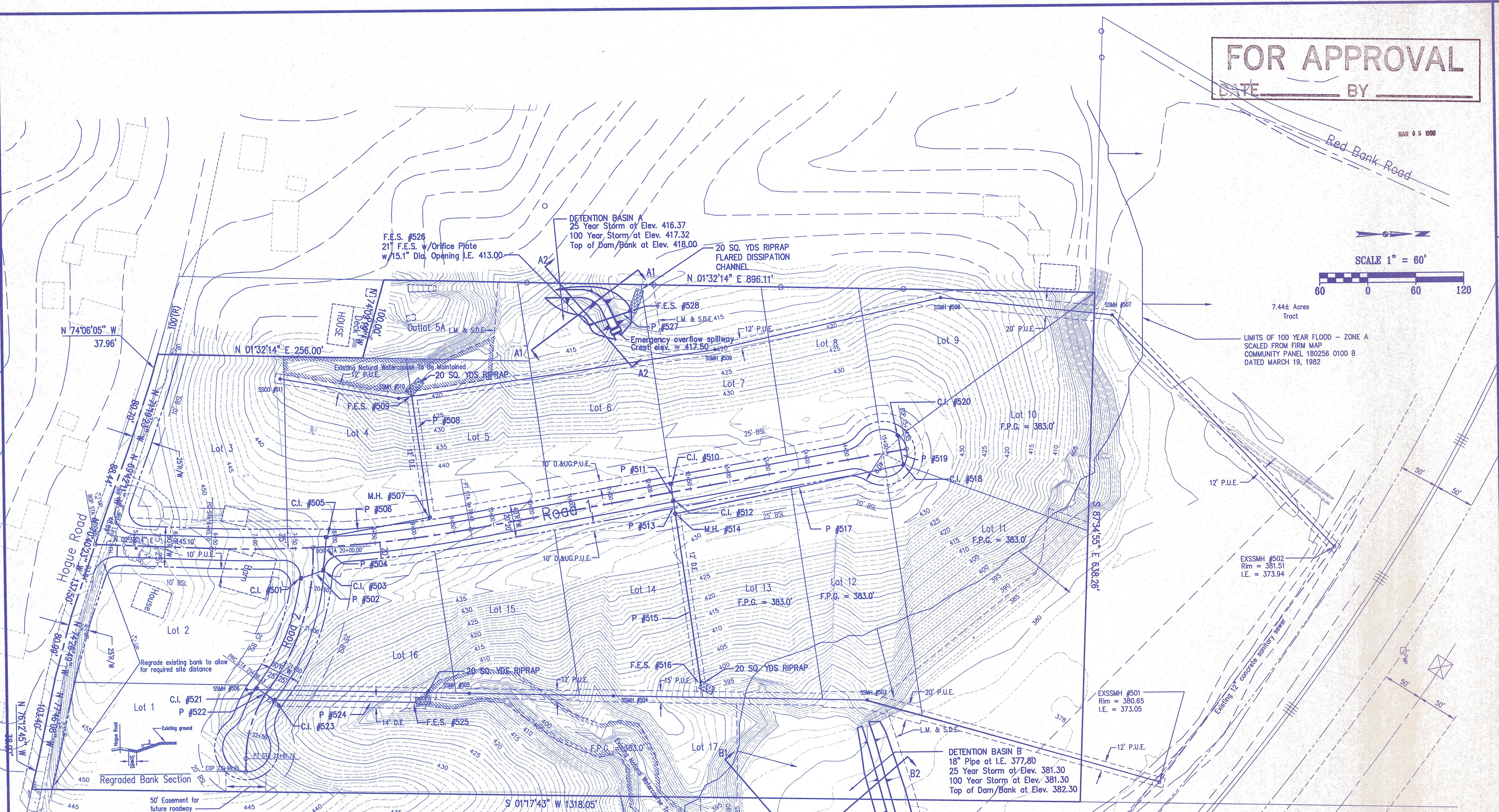


*David W. Schwinke*

Project: **Winstead Place Subdivision**  
Sheet Title: **Storm and Sanitary Sewer Layout**  
Scale: 1" = 60'

Designed By: J.E.M. Job Number: 97-3724-1  
Drawn By: J.E.M. Date: 2/18/98  
Checked By: J.E.M. Filename: 3724BASE.DWG  
Sheet Number: 4 OF 12

**Notes:**  
All pipe lengths are measured center of structure to center of structure, to the nearest foot, except pipes ending in flared end sections. Pipes ending in flared end sections shall be measured to the end of the pipe.  
Design pipe slopes are calculated from the center of structure to the center of structure, or end of pipe for flared end sections. Construction pipe slopes may vary slightly if the structure cross slope does not match the design pipe slope. Flared end section slopes shall match design pipe slopes.  
All storm, sanitary, and lateral pipes under and within 5 feet of a roadway or under a sidewalk shall have compacted sand backfill.  
All sanitary sewer pipes shall be RCP unless otherwise approved by the engineer. All sanitary sewer pipes shall comply with local sanitary sewer utility standards.  
Existing Natural Surface Watercourses across lots shall be maintained by the lot owners. The watercourse shall not be obstructed in any way that would limit the flow from public roads or all other lands that drain to the swale. Any relocation or piping of surface watercourses shall be subject to County Drainage Board approval.



**STRUCTURE DATA TABLE**

STRUCTURE NUMBER	LOCATION Station	LEFT	RIGHT	CROSS	SIZE in.	DESCRIPTION	FLOW LINE			M.H. or C.I. = F.G. Elev.
							LENGTH ft.	UP STREAM Elev.	DOWN STREAM Elev.	
501	7+55.49	X			24"x36" BOX				413.00	
502	7+69.37	X	X	12	R.C.P. CL. III	29.7	442.00	441.85	0.50	X
503	7+83.32	X	X	12	24"x36" BOX		441.85	441.85		
504	7+86.38	X	X	12	R.C.P. CL. III	41.8	441.85	441.15	1.67	X
505	7+89.53	X	X	12	24"x36" BOX		441.15	441.15		
506	8+56.36	X	X	12	R.C.P. CL. III	131.7	441.15	437.10	3.08	X
507	9+22.35	X	X	12	"A" BOX		437.10	437.10		
508	9+22.84	X	X	12	R.C.P. CL. III	150.0	437.10	420.50	11.07	X
509	9+23.37	X	X	12	12" F.E.S.		420.50	420.50		
510	12+26.84	X	X	12	24"x36" BOX		431.12	431.01	0.50	X
511	12+26.44	X	X	12	R.C.P. CL. III	22.0	431.12	431.01	0.50	X
512	12+26.04	X	X	12	24"x36" BOX		431.01	431.01		
513	12+25.74	X	X	12	R.C.P. CL. III	16.1	431.01	430.86(W)	0.93	X
514	12+25.43	X	X	12	48" MANHOLE		430.86(W)	428.72(N)		
515	12+21.50	X	X	15	R.C.P. CL. III	208.6	428.72(N)	398.00	13.77	X
516	12+17.56	X	X	15	15" F.E.S.		398.00	398.00		
520	15+17.00	X	X	12	24"x36" BOX		429.83	429.64	0.51	X
518	15+17.46	X	X	12	R.C.P. CL. III	37.0	429.83	429.64	0.51	X
519	15+16.98	X	X	12	24"x36" BOX		429.64	429.64		
517	13+71.16	X	X	12	R.C.P. CL. III	291.7	429.64	428.72(N)	1.00	X
514		X	X	12	48" MANHOLE		428.72(N)	428.72(N)		

**STRUCTURE DATA TABLE**

STRUCTURE NUMBER	LOCATION Station	LEFT	RIGHT	CROSS	SIZE in.	DESCRIPTION	FLOW LINE			M.H. or C.I. = F.G. Elev.
							LENGTH ft.	UP STREAM Elev.	DOWN STREAM Elev.	
526	11+74.73	X	X	21	21" F.E.S.		413.00	413.00		
527	11+94.47	X	X	21	21" F.E.S.		413.00	410.00	6.79	X
528	12+14.20	X	X	21	21" F.E.S.		410.00	410.00		
529	13+32.41	X	X	18	18" F.E.S.		377.80	377.80		
530	13+44.39	X	X	18	R.C.P. CL. III	47.6	377.80	376.80	2.10	X
531	13+56.38	X	X	18	18" F.E.S.		376.80	376.80		
521	21+96.39	X	X	12	24"x36" BOX		437.85	437.58	1.00	X
522	21+96.39	X	X	12	R.C.P. CL. III	27.0	437.85	437.58	1.00	X
523	21+96.37	X	X	12	24"x36" BOX		437.58	437.58		
524	21+55.58	X	X	12	R.C.P. CL. III	170.6	437.58	414.00	13.82	X
525	21+30.22	X	X	12	12" F.E.S.		414.00	414.00		

All flared end section inverts (F.E.S.I.E.) shall match existing grade.