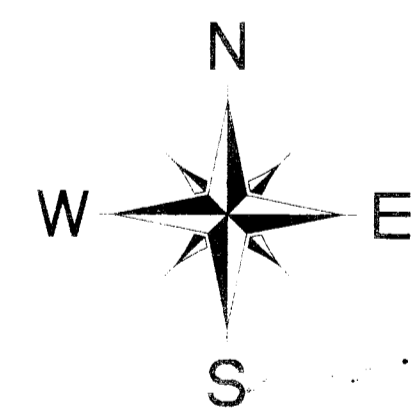
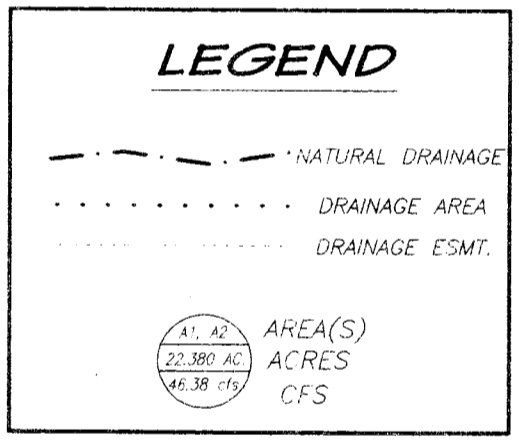


**DRAINAGE NOTES:**

- 1) THERE IS HEREBY DEDICATED A ONE HUNDRED FOOT (100') BUILDING LINE ON THE FRONT OF ALL LOTS UNLESS OTHERWISE SHOWN OR NOTED.
- 2) THERE IS HEREBY DEDICATED A SIXTEEN-FOOT (16') UTILITY EASEMENT ALONG BOTH SIDES OF ALL STREETS.
- 3) THERE IS HEREBY DEDICATED AN EIGHT-FOOT (8') UTILITY EASEMENT ALONG ALL SIDE AND REAR LOT LINES UNLESS OTHERWISE NOTED.
- 4) ALL RIGHTS-OF-WAY ARE SIXTY-FOOT (60') WIDE UNLESS OTHERWISE INDICATED.
- 5) THIS GENERAL DRAINAGE PLAN IS BASED UPON U.S.G.S. QUADRANGLE MAPS AND INITIAL FIELD INSPECTIONS. THE ENGINEER AND THE DEVELOPER RESERVE THE RIGHT TO MAKE MINOR CHANGES AND ADJUSTMENTS TO THE LOCATIONS OF DRAINAGE STRUCTURES TO BETTER CONFORM TO THE NATURAL TOPOGRAPHY.
- 6) ALL ROAD CULVERTS SHALL CONFORM TO MONTGOMERY COUNTY STANDARDS AND MAY BE EITHER REINFORCED CONCRETE OR CORRUGATED PLASTIC PIPES.
- 7) MAX. GRADE OF ROADWAY CULVERTS: (BASED ON 5 FT/S VELOCITY FOR ROADSIDE DITCH DRAINAGE)
 

CORRUGATED PLASTIC	REINFORCED CONCRETE
18" CPP: 0.416%	18" RCP: 0.704%
24" CPP: 0.284%	24" RCP: 0.480%
30" CPP: 0.211%	30" RCP: 0.348%
36" CPP: 0.165%	36" RCP: 0.275%
42" CPP: 0.135%	42" RCP: 0.217%
48" CPP: 0.114%	48" RCP: 0.170%
54" CPP: 0.096%	54" RCP: 0.133%
60" CPP: 0.084%	60" RCP: 0.114%
- 8) GRASS: SEED ALL EMBANKMENT SIDE SLOPES AND DISTURBED AREAS WITH BERMUDA 970 @ 20/LB AC (MULLED) WITH FERTILIZER 13-13-13 @ 400/LB AC.
- 9) ALL DRAINAGE EASEMENTS MUST MEET MINIMUM COUNTY GRADE REQUIREMENTS (1% MIN).
- 10) THERE IS NO FLOODPLAIN OR FLOODWAY ON THIS PROPERTY AS PER FEMA FIRM NO. 4813A-0145 DATED DECEMBER 19, 1996.
- 11) EASEMENTS FOR DRAINAGE SITES 24, 28 AND 38 RECORDED UNDER CULVERT FILE NUMBER 2007-022701 OF THE MONTGOMERY COUNTY REAL PROPERTY RECORDS.



**- CULVERT CALCULATIONS -**

Pipe Location	Basin Area (acres)	Runoff Coeff.	Time of Conc'n. (minutes)	Adjusted Rainfall (in/hr)	Peak Flowrate (cfs)	Culvert Size (inches)	# of Culverts (pipes)	Capacity per culv (cfs)	Pipe Capacity (%)
A1	13.211	0.374	11	8.4	41.31	24	3	15.71	87.6%
A2	4.042	0.388	39	5.1	7.94	18	1	8.84	89.8%
B1	8.676	0.347	10	8.7	26.16	24	2	15.71	83.3%
C1	12.627	0.361	14	7.7	35.10	24	3	15.71	74.5%
D1	7.753	0.348	10	8.7	23.45	24	2	15.71	74.6%
D2	10.833	0.359	10	8.7	33.80	24	3	15.71	71.7%
D3	0.946	0.412	10	8.7	3.39	18	1	8.84	38.3%
D4	20.077	0.365	10	8.7	63.68	36	2	35.34	90.1%
D5	18.398	0.337	17	7.2	44.33	36	2	35.34	62.7%
E1	142.038	0.282	29	5.9	237.93	60	3	98.17	80.8%
E2	17.025	0.314	12	8.1	43.52	24	3	15.71	92.3%
D6	0.219	0.604	10	8.7	1.15	24	1	15.71	7.3%
D7	4.294	0.355	10	8.7	12.50	24	2	15.71	39.8%

REVISED: 6/7/02  
 1. ADD 1-24" PIPE @ PRINCE WILLIAM & MAJESTIC DR.  
 2. ADD 2-24" PIPES ON PRINCE WILLIAM.  
 3. CHANGE 24" TO 18" PIPE ON PRINCE WILLIAM.  
 4. CHANGE CHART CALCULATIONS A2, D4, D5, ADDED D6 & D7

MONTGOMERY COUNTY ENGINEER  
 POWERS ENGINEERING  
 COUNTY ENGINEER: MARK J. ROONEY, P.E.  
 DATE: 6/23/01

AS - BUILT 6/02  
**CROWN OAKS**  
**SECTION TWO**  
**DRAINAGE PLAN**  
 3706 W. DAVIS - CONROE, TEXAS 77304

SCALES  
 1" = 300'  
 APRIL 2001  
 SHEET 2 OF 8