PROJECT TITLE

Midtown Bryant Phase-3

PROJECT LOCATION

Midtown , Bryant, AR

PROJECT DESCRIPTION

The proposed sub divisional development is on Court St. Bryant, AR . Total development site area is 4.82 acres.

DRAINAGE ANALYSIS

Rational method was used to determine the existing and proposed flows from proposed site. Detailed drainage calculations considering the future expected development has been conducted to determine the Pre and Post development flows. Summary of the calculations are below:

- Pre-development area 4.82 acres.
- Post-development area 4.82 acres.
- Pre-development runoff coefficient - 0.50.
- Post-development runoff coefficient - 0.65
- Pre-development time of concentration 11 minutes.
- Post-development time of concentration 9.5 minutes.

Peak flows for Pre and post development phase of onsite area have been tabulated below-

	Pre-development	Post-development
	Peak Flow (cfs)	Peak Flow (cfs)
2-Year	11.07	14.93
5-Year	12.34	16.69
10-Year	14.18	19.05
25-Year	16.19	21.74
50-Year	18.40	24.67
100-Year	19.50	26.14