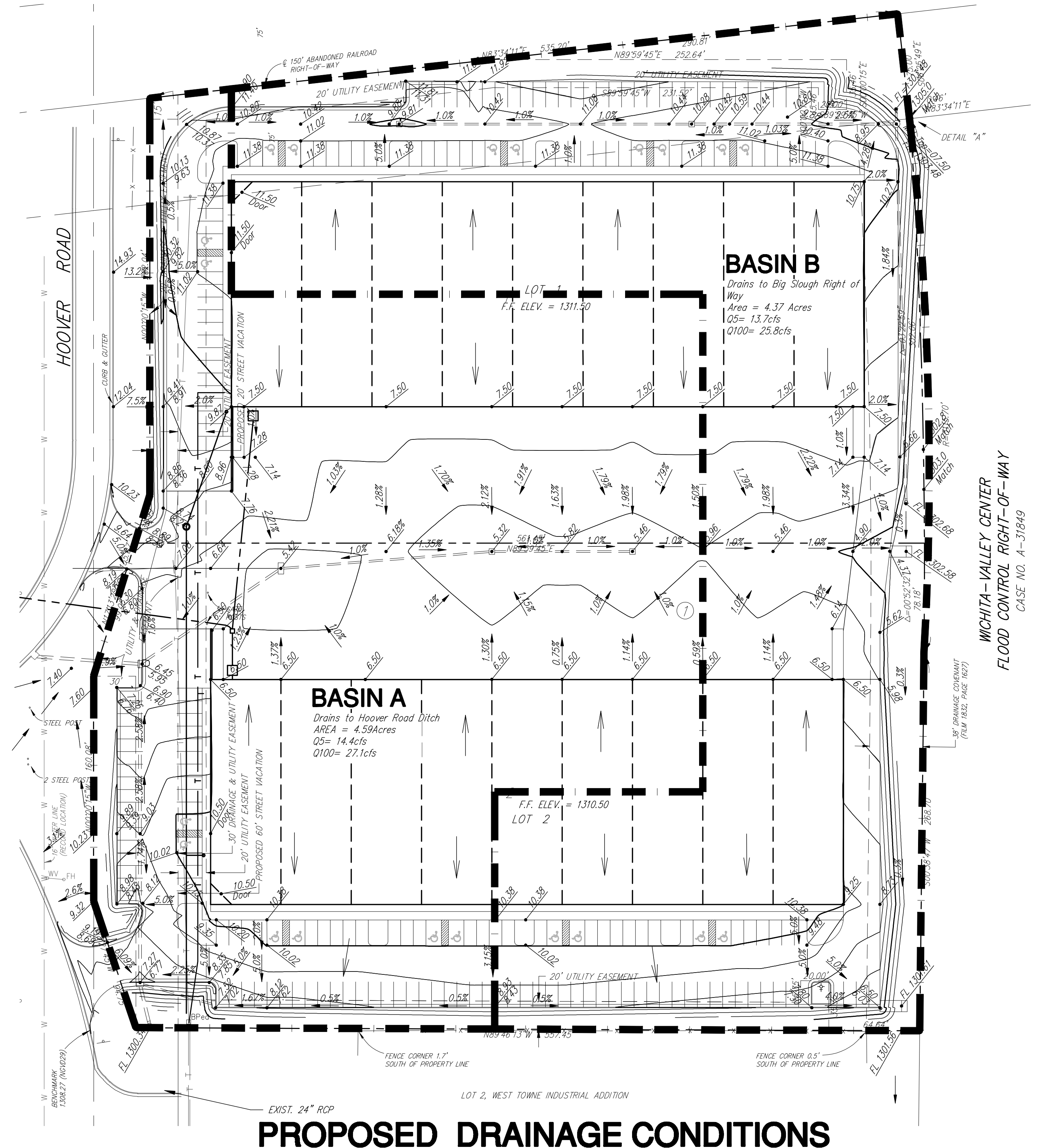
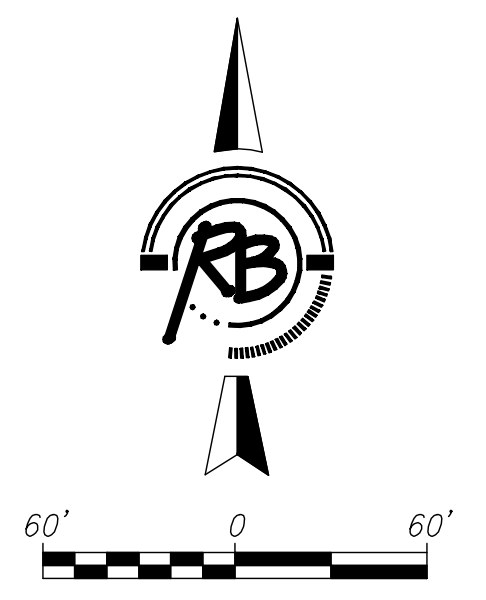
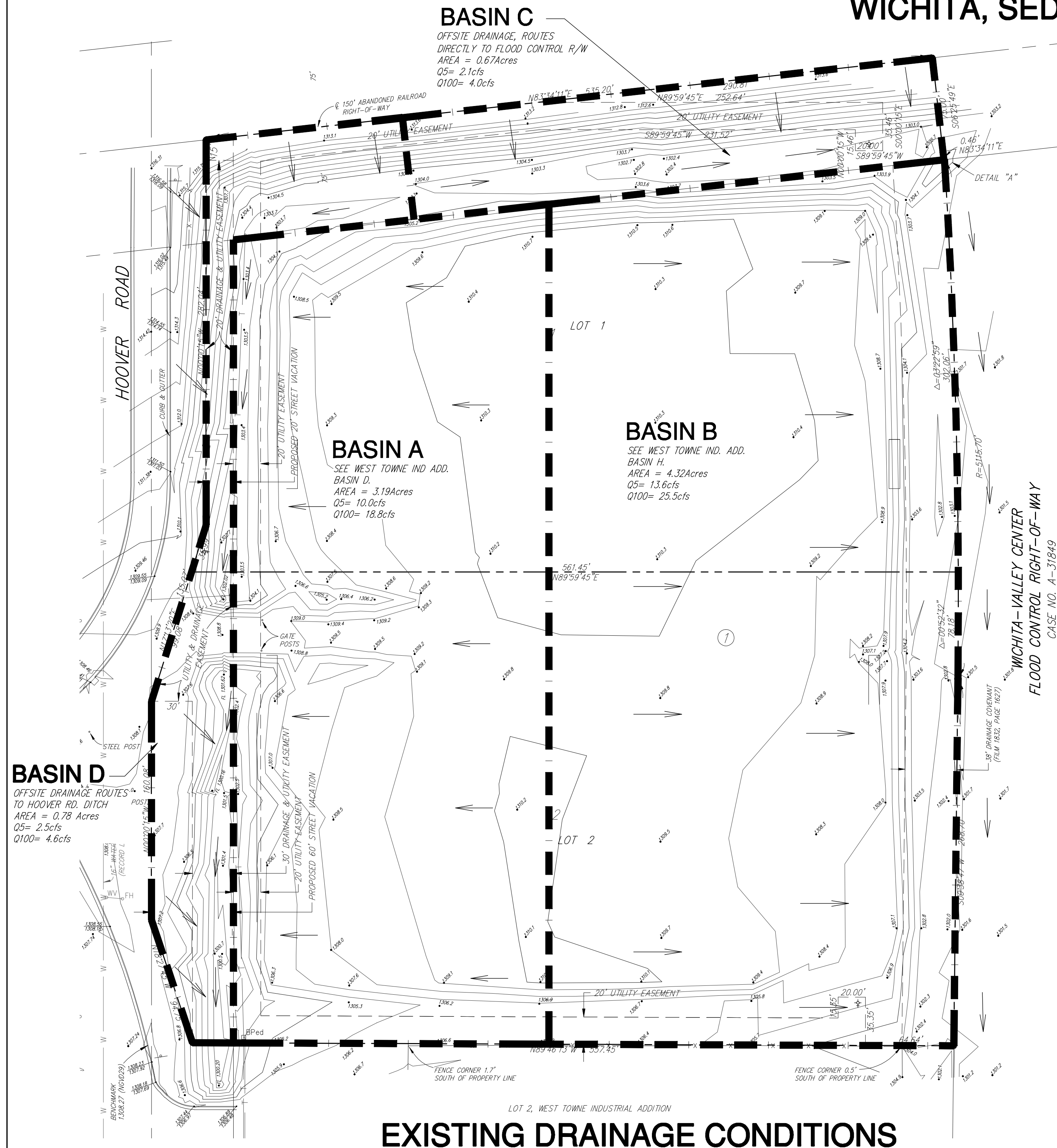


DRAINAGE PLAN

WEST TOWNE INDUSTRIAL 2ND ADDITION WICHITA, SEDGWICK COUNTY, KANSAS



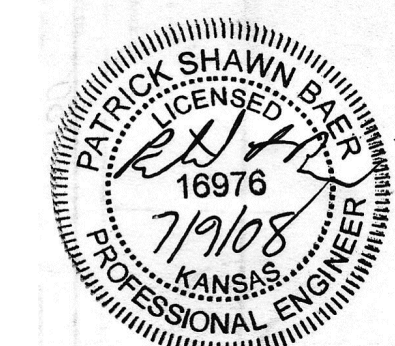
DRAINAGE DESIGN CALCULATIONS:

A site drainage plan for West Towne Industrial Addition was developed and approved in 1997. This replat includes basins D & H from that Drainage plan which are equivalent to Basin A & B on this plan. Basins C & D are areas draining into the existing Hoover Road Ditch and Big Slough Right of Way and were not part of the original Drainage plan. Drainage analysis was developed using the Rational Method, using the City of Wichita (COW) Drainage Standards for Intensity and Runoff Coefficients. These coefficients are listed below for post development in the table below. Prior on site detention was not required because this site is directly adjacent to the Big Slough Right of Way, which includes ponding areas outside the levee system and has been designed to accommodate detention for this local area.

Time of concentration, rainfall intensity and runoff coefficients are listed below:

Time of Concentration = 15 minutes (COW std. minimum)		
Rainfall Intensity:	15" = 4.56"	100" = 7.37"
Runoff Coefficient:	C5 = 0.85	C100 = 0.91

Note: DA = Drainage Area, Q5 = Peak 5 Year Runoff, Q100 = Peak 100 Year Runoff.
For each basin area are shown above.



DATE: 7-09-08
DRAWN BY: PSB



Ruggles & Bohm, P.A.
Engineering, Surveying, Land Planning
804 North Main
Wichita, Kansas 67203
www.tbmanas.com
(316) 264-0008
(316) 264-4821 fax
E-mail: info@tbmanas.com