

CERTIFIED ENGINEERING DESIGN, P.A.

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LETTER OF TRANSMITTAL

DATE: February 21, 2006

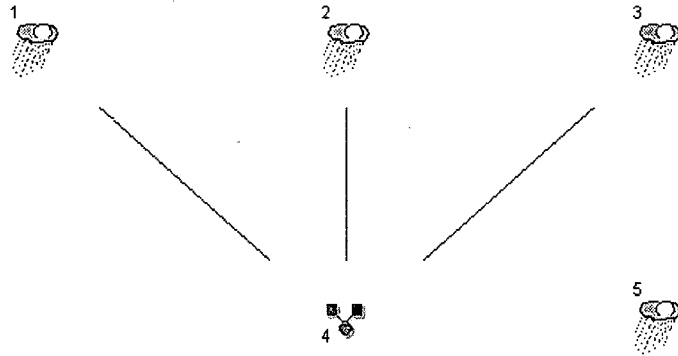
TO: Mr. Scott Lindebak
Engineering Division
City of Wichita
7th Floor, City Hall
455 North Main
Wichita, KS 67202

SUBJ: ACT Properties LLC Addition

FROM: Harlan D. Foraker, P.E. *HDF*

COMMENTS: Attached please find a drainage plan and supporting hydrographs for the above referenced project which is on the agenda for the Thursday, March 9th, 2006, Subdivision Committee Meeting. Please review and if you have any questions or comments, please contact me at (316) 262-8808.

Attachments



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

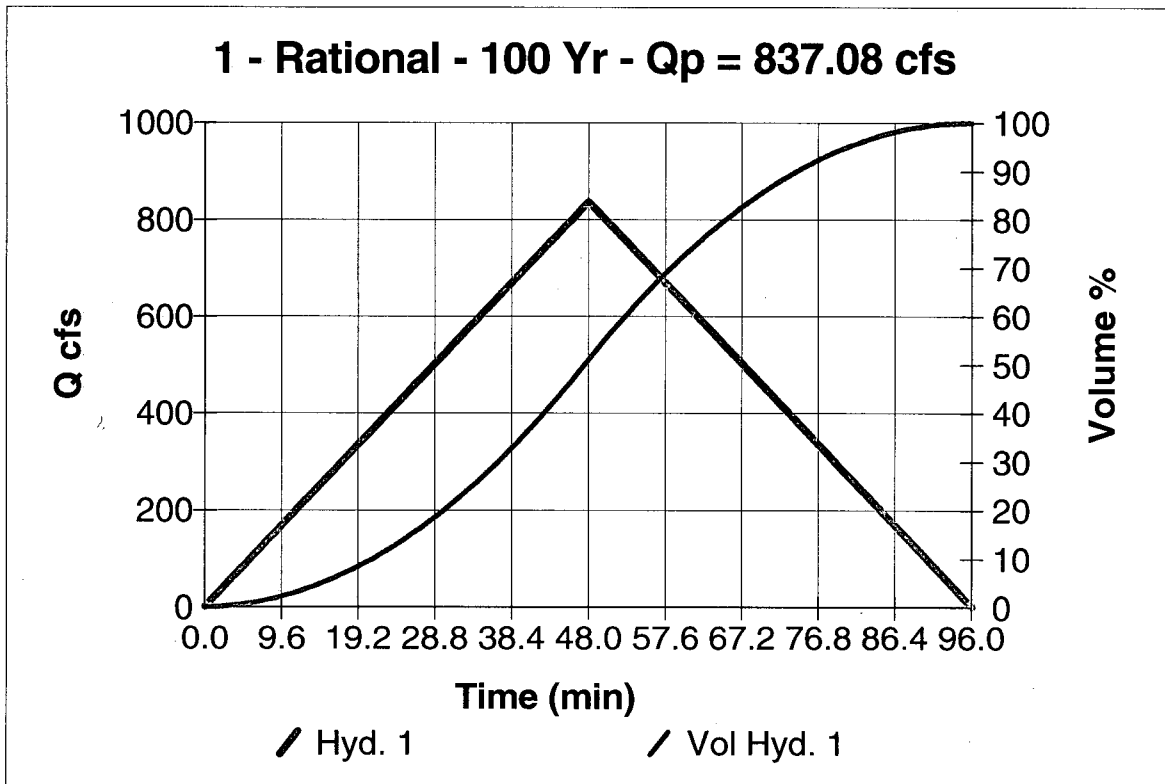
Hyd. No. 1

290

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 290.0 ac
Intensity = 4.245 in/hr
IDF Curve = SedgwickCounty1.idf

Peak discharge = 837.08 cfs
Time interval = 1 min
Runoff coeff. = 0.68
Time of conc. (Tc) = 48 min
Asc/Rec limb fact = 1/1

Hydrograph Volume = 2,410,779 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

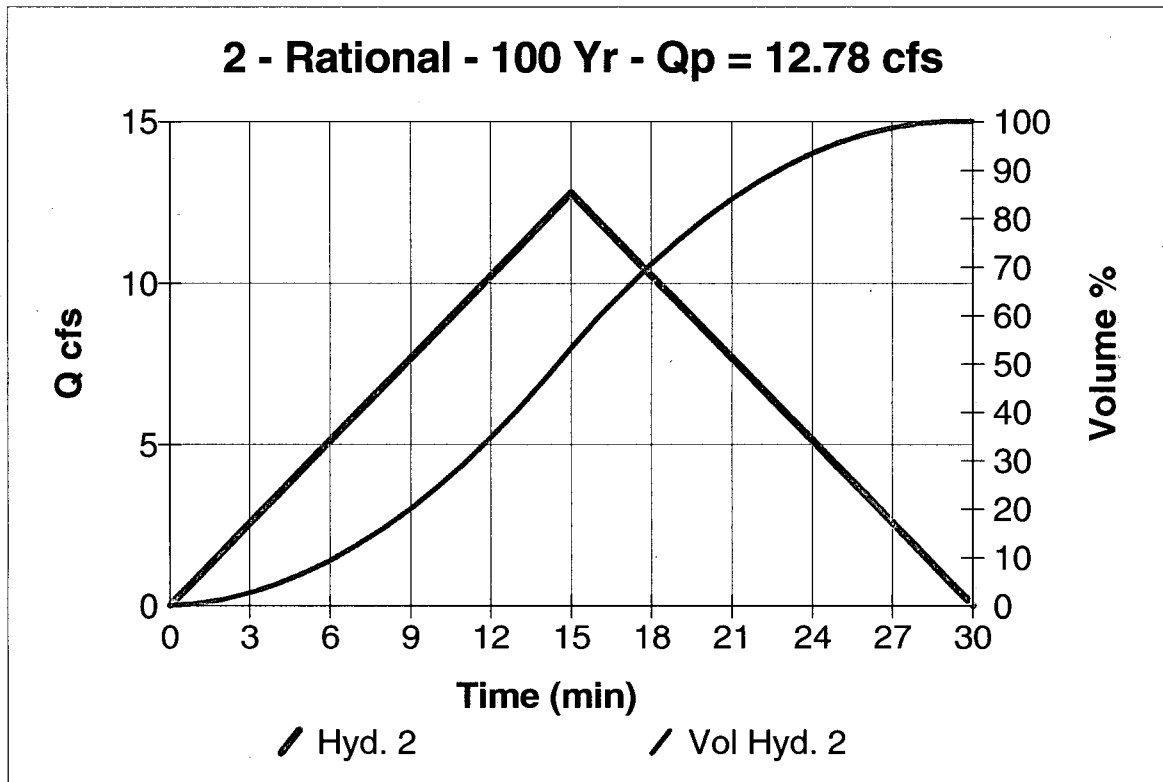
Hyd. No. 2

Proposed Plat

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 3.2 ac
Intensity = 7.533 in/hr
IDF Curve = SedgwickCounty1.idf

Peak discharge = 12.78 cfs
Time interval = 1 min
Runoff coeff. = 0.53
Time of conc. (Tc) = 15 min
Asc/Rec limb fact = 1/1

Hydrograph Volume = 11,499 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

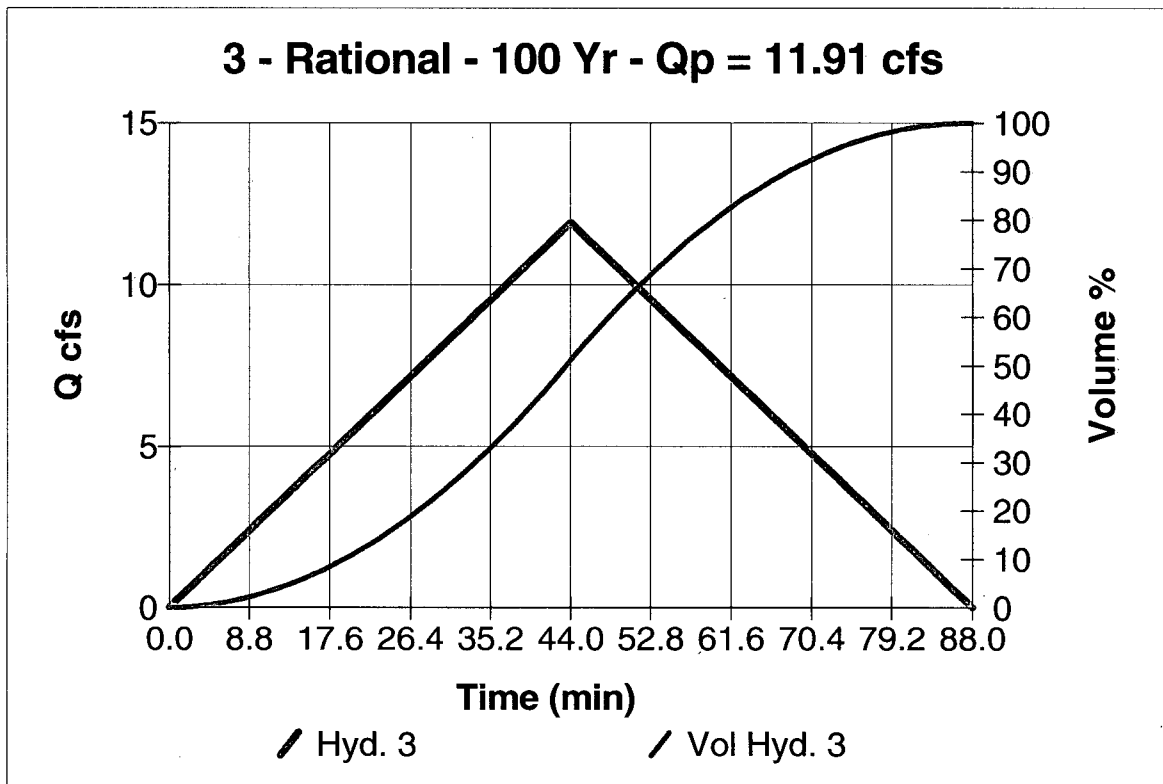
Hyd. No. 3

West Offsite

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 6.5 ac
Intensity = 4.469 in/hr
IDF Curve = SedgwickCounty1.idf

Peak discharge = 11.91 cfs
Time interval = 1 min
Runoff coeff. = 0.41
Time of conc. (Tc) = 44 min
Asc/Rec limb fact = 1/1

Hydrograph Volume = 31,442 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

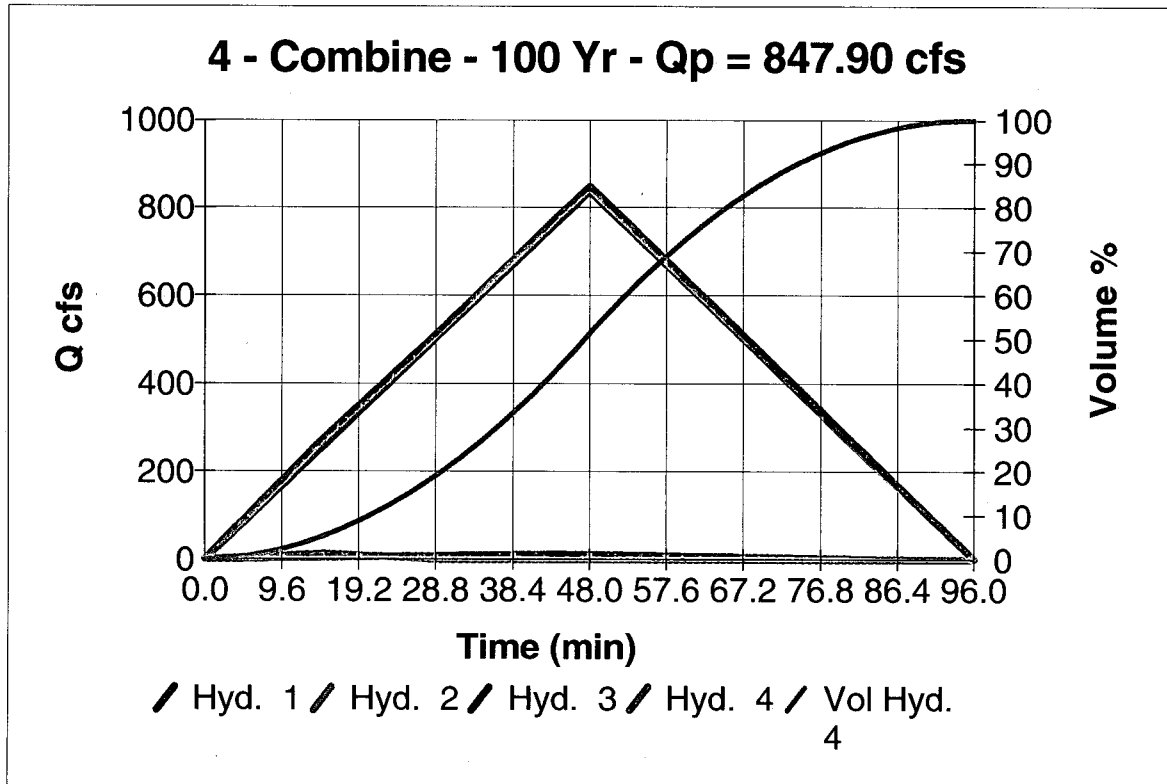
Hyd. No. 4

Combined Drainage

Hydrograph type = Combine
Storm frequency = 100 yrs
Inflow hyds. = 1, 2, 3

Peak discharge = 847.90 cfs
Time interval = 1 min

Hydrograph Volume = 2,453,720 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Hyd. No. 5

All Drainage

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 299.7 ac
Intensity = 4.245 in/hr
IDF Curve = SedgwickCounty1.idf

Peak discharge = 865.07 cfs
Time interval = 1 min
Runoff coeff. = 0.68
Time of conc. (Tc) = 48 min
Asc/Rec limb fact = 1/1

Hydrograph Volume = 2,491,416 cuft

