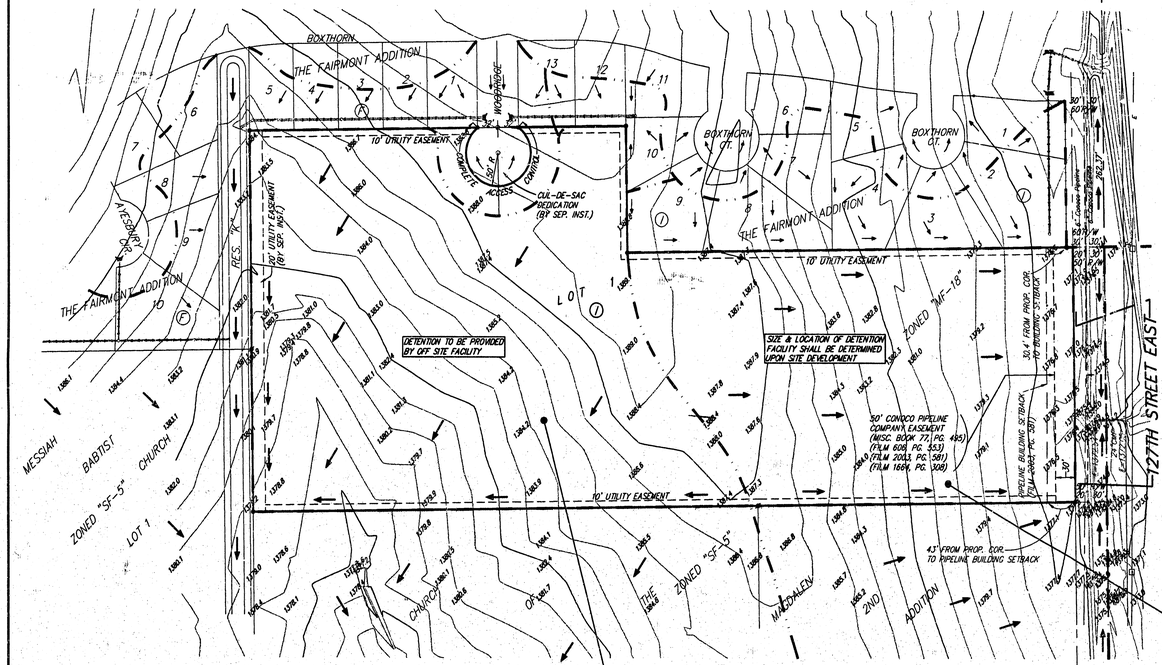
# DRAINAGE PLAN
# THE FAIRMONT 2ND
## AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS




TWENTY FIRST GROWTH, LLC
816 TERRAYNE
ANDOVER, KS 67002
ZONED "SF-20"

| Existing Conditions: | Proposed Conditions: |
|---|---|
| Primary Soil Type: "D" | Paved Conditions |
| Primary Use: Agricultural | Primary Use: Multi-Family |
| Drainage Area = 5.4 ac. | Drainage Area = 5.4 ac. |
| Time of Concentration = 15 min | Time of Concentration = 15 min |
| $C_2$ = 0.30 $Q_2$ = 6.2 cfs | $C_2$ = 0.70 $Q_2$ = 15 cfs |
| $C_{10}$ = 0.35 $Q_{10}$ = 9.9 cfs | $C_{10}$ = 0.73 $Q_{10}$ = 21 cfs |
| $C_{100}$ = 0.65 $Q_{100}$ = 26 cfs | $C_{100}$ = 0.86 $Q_{100}$ = 34 cfs |

| Existing Conditions: | Proposed Conditions: |
|---|---|
| Primary Soil Type: "D" | Paved Conditions |
| Primary Use: Agricultural | Primary Use: Multi-Family |
| Drainage Area = 7.9 ac. | Drainage Area = 7.9 ac. |
| Time of Concentration = 15 min | Time of Concentration = 15 min |
| $C_2$ = 0.30 $Q_2$ = 9.1 cfs | $C_2$ = 0.70 $Q_2$ = 21 cfs |
| $C_{10}$ = 0.35 $Q_{10}$ = 14 cfs | $C_{10}$ = 0.73 $Q_{10}$ = 30 cfs |
| $C_{100}$ = 0.65 $Q_{100}$ = 38 cfs | $C_{100}$ = 0.86 $Q_{100}$ = 50 cfs |

BENCHMARK:

GREENWICH AND 21ST NORTH
CITY OF WICHITA BENCHMARK DISC
41' SOUTH AND 58' WEST OF IRON CTR. LINE BOTH.
17.0' SW OF ASPHALT, 14.2' EAST OF FACE P.P.
17.0' WEST OF FACE P.P.
ELEVATION = 173.98 (CITY DATUM), 1361.38 NGVD

COUNTY "D" CUT, SOUTH HEADWALL,
1/2 MILE WEST OF 127TH ST. EAST
ON 37TH STREET NORTH.
ELEV. = 185.83 (CITY DATUM), 1373.23 NGVD

TOP OF IRON - SE COR., SE1/4, SEC. 3,
TWP. 27-S, R-2-E, (127TH ST. EAST &
21ST ST. NORTH).
ELEV. = 198.01 (CITY DATUM), 1385.41 NGVD

BRIAN L. GLENN
LICENSED
16284
KANSAS
PROFESSIONAL ENGINEER
01/17/2003

Reprint 17 JANUARY 2003
28 MARCH 2002


BAUGHMAN COMPANY P. A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211


F:\HYDRO\PROJECTS\THE FAIRMONT #2\SURVEY\FAIRMONT2PSP.DWG