

**PROPOSED OUTLOT
600 Acres**
(DETENTION WILL BE REQUIRED
AT TIME OF DEVELOPMENT)

ROOFTOP AREAS:
IMPERVIOUS AREAS:
2.60 CFS/AC (15 YEAR)
4.78 CFS/AC (25 YEAR)
6.08 CFS/AC (100 YEAR)

GRASSED AREA:
1.26 CFS/AC (2 YEAR)
1.87 CFS/AC (15 YEAR)
2.34 CFS/AC (25 YEAR)
2.95 CFS/AC (100 YEAR)

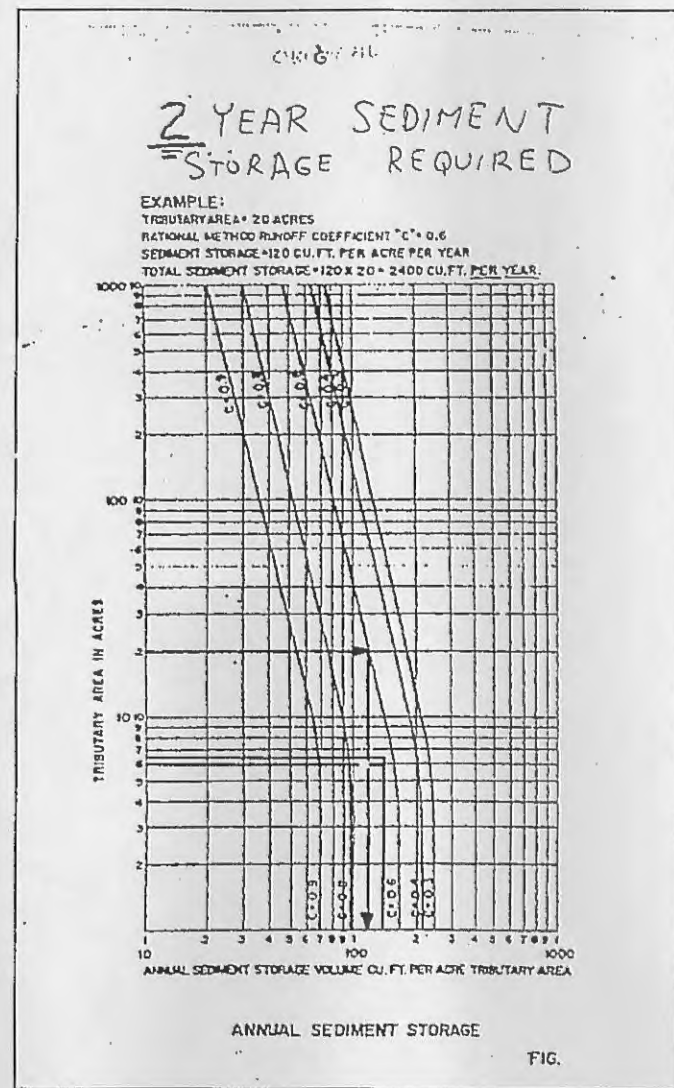
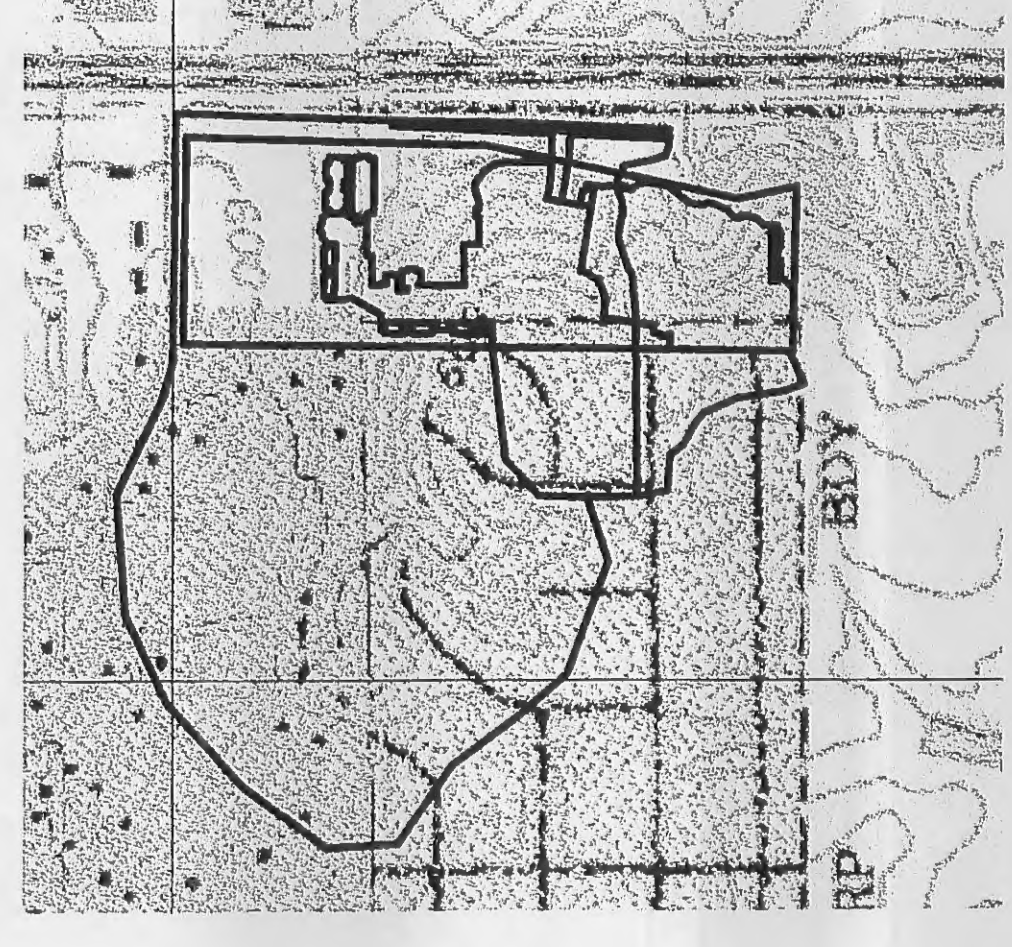
RESIDENTIAL AREA:
1.78 CFS/AC (2 YEAR)
2.64 CFS/AC (15 YEAR)
3.26 CFS/AC (25 YEAR)
4.17 CFS/AC (100 YEAR)

**PREDEVELOPED OFFSITE
AREA: 44.13 AC.**
Q(2YR.)=78.64 CFS
Q(15YR.)=116.50 CFS
Q(25YR.)=143.86 CFS
Q(100YR.)=184.02 CFS

**POST DEVELOPED OFFSITE
AREA: 44.13 AC.**
Q(2YR.)=78.64 CFS
Q(15YR.)=116.50 CFS
Q(25YR.)=143.86 CFS
Q(100YR.)=184.02 CFS

**PREDEVELOPED OFFSITE TO BASIN
AREA: 5.49 AC.**
Q(2YR.)=9.77 CFS
Q(15YR.)=14.49 CFS
Q(25YR.)=17.90 CFS
Q(100YR.)=22.89 CFS

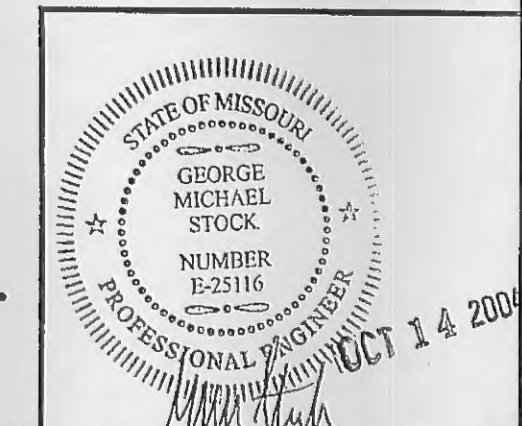
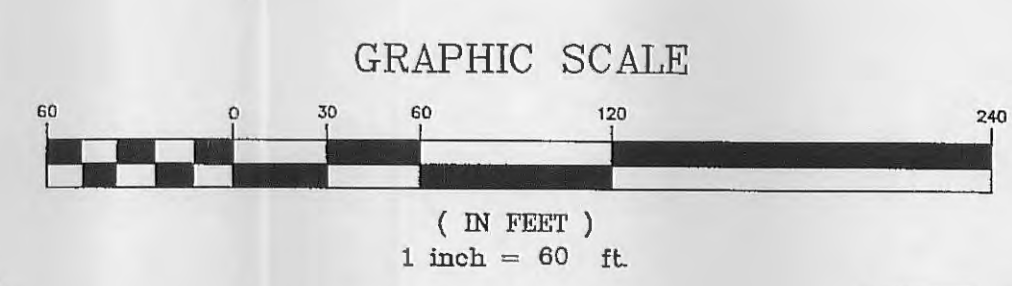
**PREDEVELOPED OFFSITE TO BASIN
AREA: 1.70 AC.**
Q(2YR.)=3.03 CFS
Q(15YR.)=4.49 CFS
Q(25YR.)=5.54 CFS
Q(100YR.)=7.09 CFS



BASIN #1
PERVIOUS AREA: 2.77 AC.
IMPERVIOUS AREA: 3.76 AC.
 $C = 0.95(3.76/6.53) + 0.25(2.77/6.53) = 0.65$
 $(6.53AC)(150CF/AC) = 979.5 CCF/YR.$
2 YR. REQUIRED SEDIMENT STORAGE:
(2YR.) (979.5 CCF/YR.) = 1,859 CCF
SEDIMENT STORAGE PROVIDED:
9,534 CCF

BASIN #2
PERVIOUS AREA: 2.58 AC.
IMPERVIOUS AREA: 3.47 AC.
 $C = 0.95(3.47/6.05) + 0.25(2.58/6.05) = 0.65$
 $(6.05AC)(150CF/AC) = 907.5 CCF/YR.$
2 YR. SEDIMENT STORAGE REQUIRED:
(2YR.) (907.5 CCF/YR.) = 1,815 CCF
SEDIMENT STORAGE PROVIDED:
10,862 CCF

METHOD OF POND WATER DRAIN DOWN:
PORTABLE PUMP INTO OUTLET
STRUCTURE



- ▲ MODOT/CITY COMMENTS 04/08/04
- ▲ MODOT COMMENTS 03/24/04
- ▲ CITY COMMENTS 02/20/04
- ▲ CITY COMMENTS 01/28/04
- ▲ MODOT SUBMITTAL 08/08/03
- ▲ CULVERT REVISION
- ▲ WATER/SANITARY
- ▲ ADDED GARAGES
- ▲ O'FALLON FIRE DEPT.
- ▲ CITY COMMENTS

O'FALLON LAKES L.P.
DETENTION DRAINAGE AREA PL

Stock & Associates
Consulting Engineers, Inc.

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DATE: 08/27/03
DRAWN BY: G.M.S.
CHECKED BY: G.M.S.
DATE: 08/27/03

PROJECT NO: 202-2927