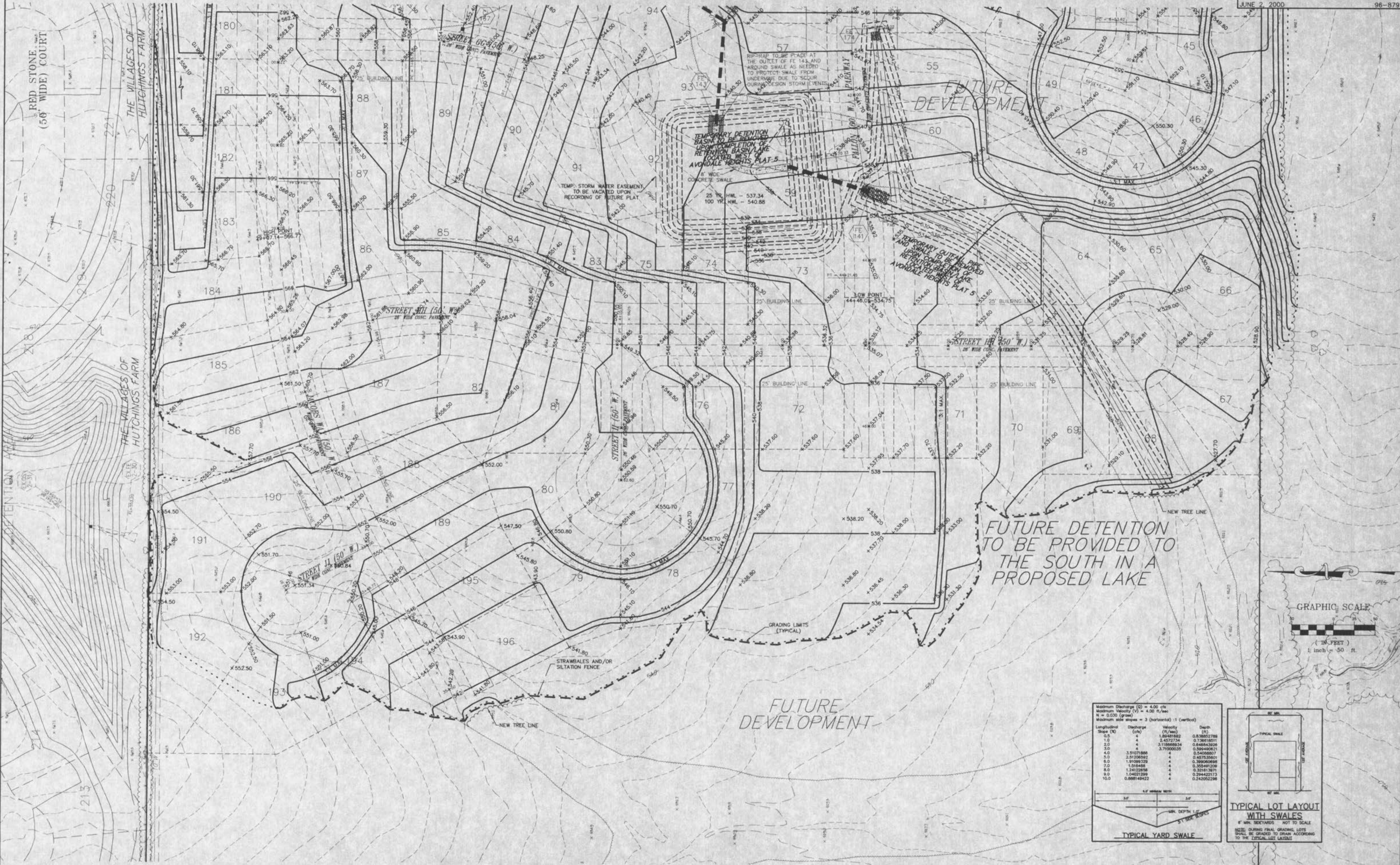


SEE SHEET 6

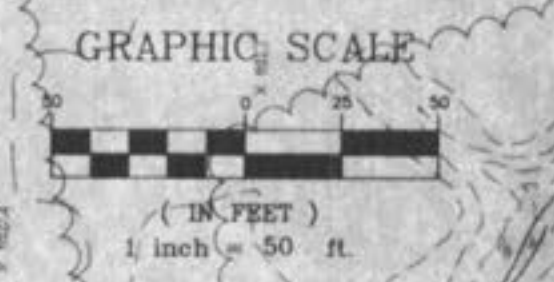
Revisions 7-25-00
Revised per D.C.S.D. 9-12-00
Revised per O'Fallon 1-04-01

GRADING PLAN
PENNIAL PARK
PHASE 1

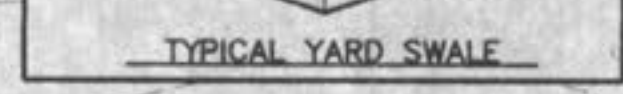
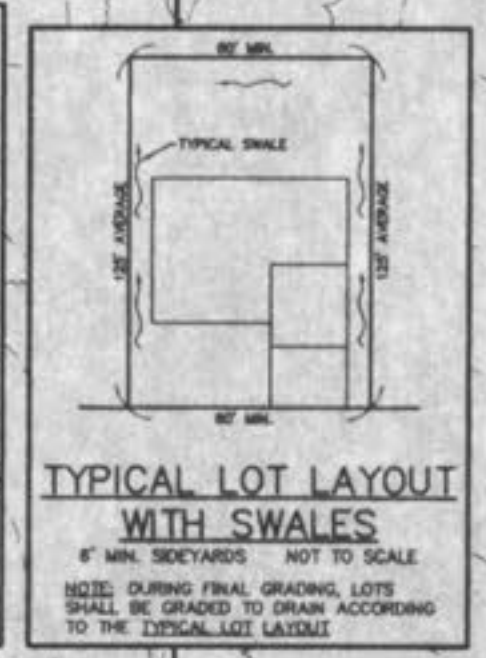
JUNE 2, 2000 96-8791



FUTURE DETENTION
TO BE PROVIDED TO
THE SOUTH IN A
PROPOSED LAKE



| Slope (%) | Discharge (cfs) | Velocity (ft/sec) | Depth (ft) |
|-----------|-----------------|-------------------|-------------|
| 0.5 | 0.830012788 | 1.80481802 | 0.830012788 |
| 1.0 | 0.4527234 | 0.730618511 | 0.4527234 |
| 2.0 | 0.246683298 | 0.606843298 | 0.246683298 |
| 3.0 | 0.596480621 | 0.596480621 | 0.596480621 |
| 4.0 | 3.01071888 | 0.540880071 | 0.540880071 |
| 5.0 | 2.01296592 | 0.487355601 | 0.487355601 |
| 6.0 | 1.01093259 | 0.389080990 | 0.389080990 |
| 7.0 | 1.010488 | 0.355493298 | 0.355493298 |
| 8.0 | 1.24122958 | 0.321813871 | 0.321813871 |
| 9.0 | 1.06571299 | 0.284422173 | 0.284422173 |
| 10.0 | 0.888148422 | 0.243052298 | 0.243052298 |



Underground utilities have been plotted from available information and, therefore, their locations shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown, on these plans shall be the responsibility of the Contractor, and shall be located prior to any grading or construction of the improvements.