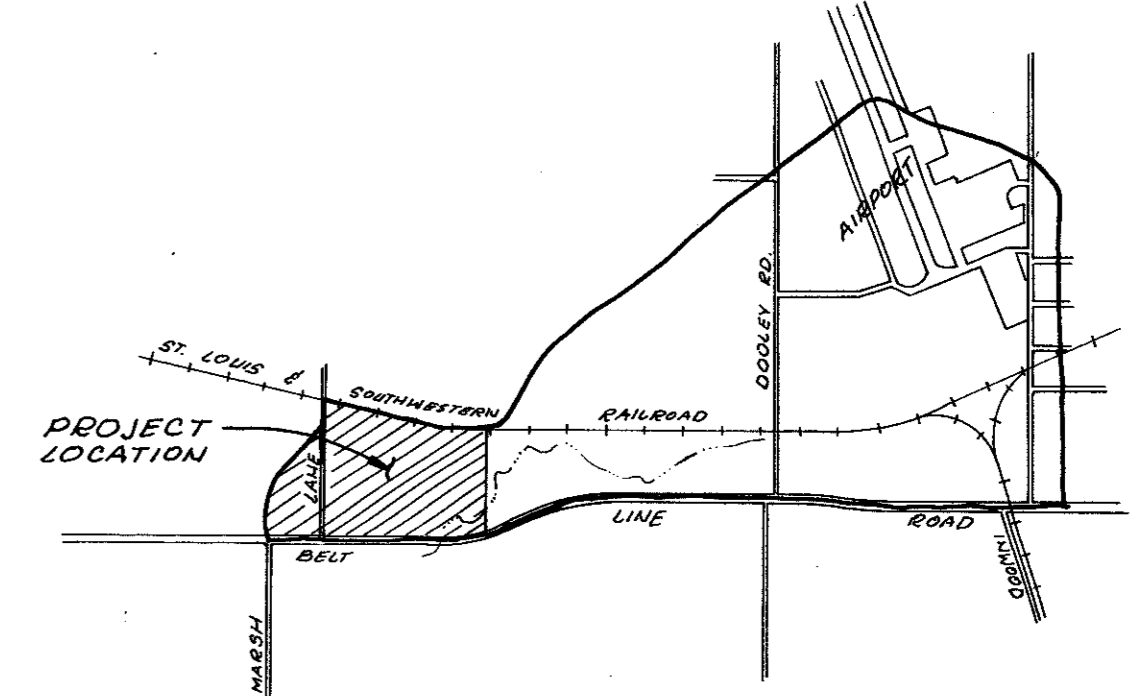


25 YE: c=0.7 L=10 MIN. I=6.5 Q=4.55 cfs/AE
 100 YE: c=0.7 L=10 MIN. I=7.8 Q=5.40 cfs/AE

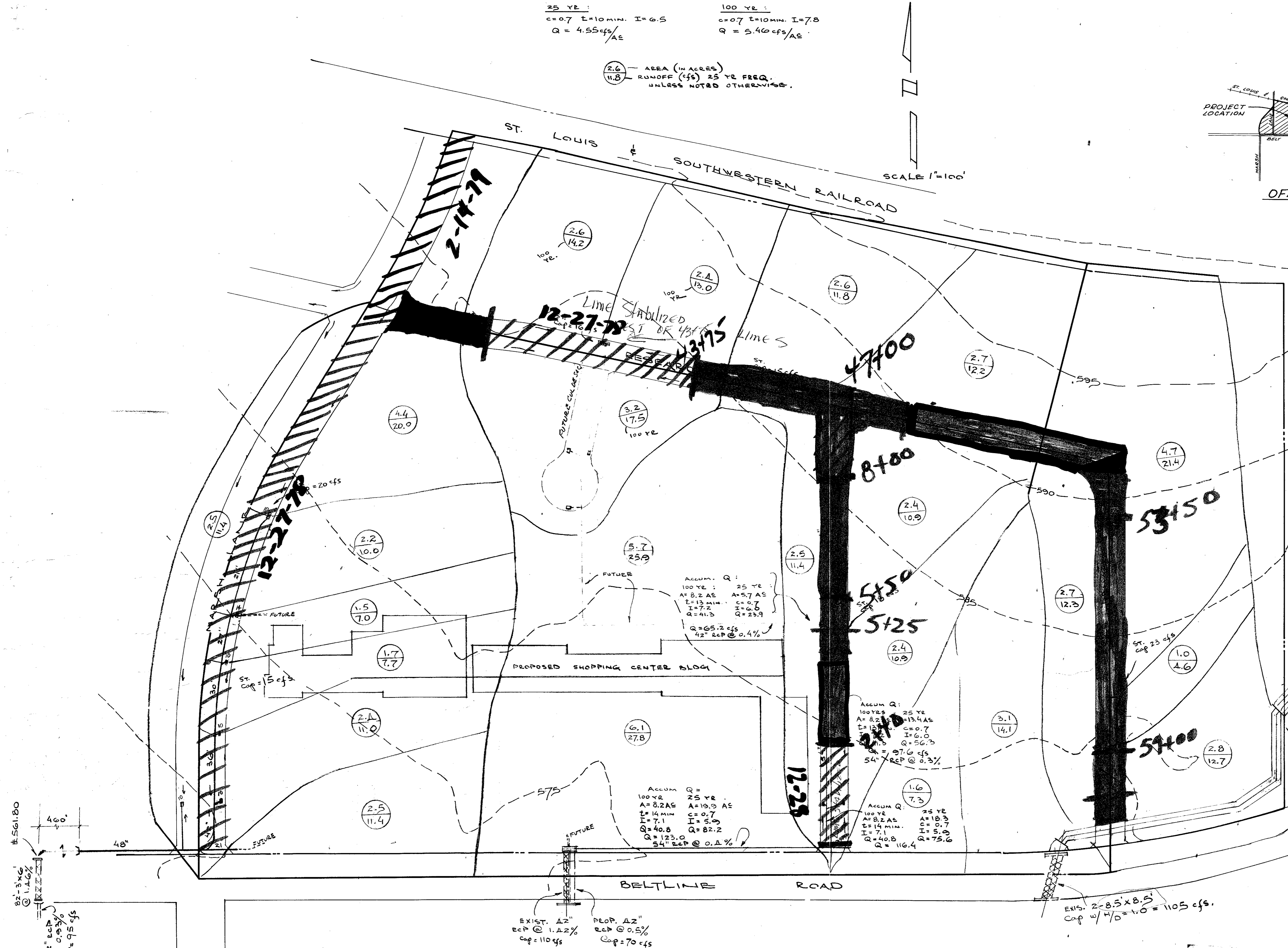
2.6 AREA (IN ACRES)
 11.8 RUNOFF (CFS) 25 YE FREQ.
 UNLESS NOTED OTHERWISE.



OFFSITE DRAINAGE 1"=2000'

[Hatched] = No. I stabilization Area
 [Solid Black] = No. II stabilization (Recontourment Area)
 [White] = has not been stabilized
 [Dotted] = will not get stabilized

L.H. LACY



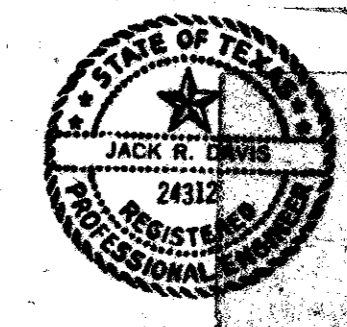
CHANNEL
 A=382 AE CAVG=0.7
 T.O.C.
 2700' GUTTER FLOW @ 1.0%=18 MIN.
 1000' OVERLAND FLOW @ 0.8%=35 MIN.
 3500' IMPROV. CHANNEL @ 0.8%=30 MIN.
 TOTAL 83 MIN. SAY 1 HR 20 MIN.
 I₂₅=2.8 I₁₀₀=3.5
 Q₂₅=382(.7) 2.8=750 cfs
 Q₁₀₀=936 cfs

CULVERT:
 Q₁₀₀=936+52 ON SITE=988 cfs.

LINE CHANNEL W/ CONC. FOR 25 YES:

 Q=(84-1) 75.625 (1.692) 0.0707 = 770 cfs

USE 2-10" X 4.5 BOX CULVERTS.
 Q=(99.07) 45 (1.768) 0.0707 = 560 cfs
 V=988/90 = 11.0 FPS.



DRAINAGE AREA MAP

CIVIL STRUCTURAL

MAYES & BROCKETTE, INC.
 CONSULTING ENGINEERS

2802 CARLISLE
 DALLAS, TEXAS 75204

DESIGN BY MCI JOB NO. 97787 DATE 4-13-78
 DRAWN BY MCI SCALE 1"=100' APPROVED BY SHEET OF