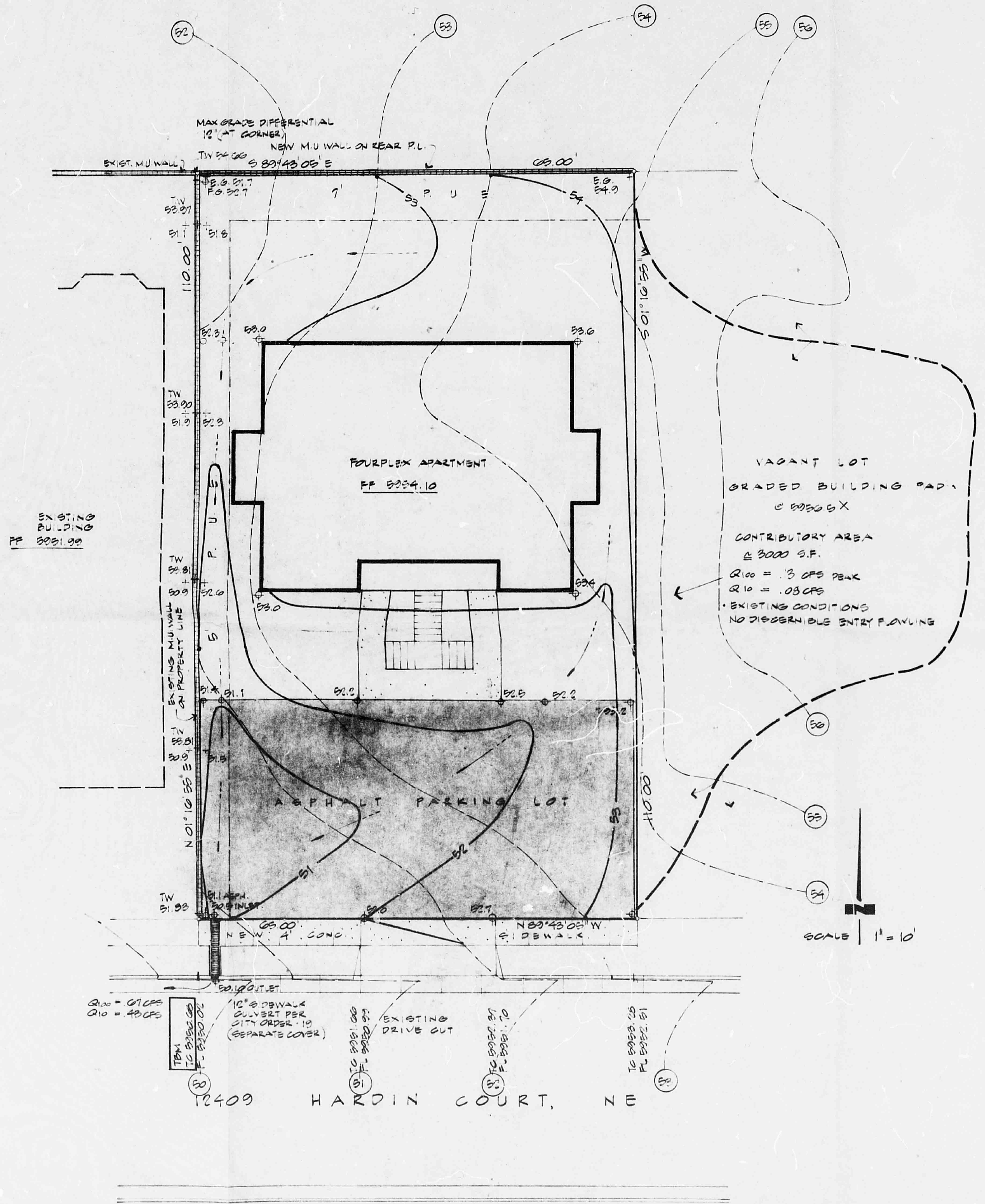
HYDROLOGY F21/D16A

F21/D16A

FOUR - PLEX
APT. BLDG.

1 plan


52
53
54
55
56
MAX GRADE DIFFERENTIAL
12" (AT CORNER)
NEW M.U WALL ON REAR P.L.
EXIST. M.U WALL
TW 54.66
S 89°43'05" E
65.00'
E.G. 51.7
FG 52.7
7' P. U. E.
53
54
E.G.
54.9
TW
53.97
51.1
51.8
110.00'
S 01°16'55" W
52.3
53.0
53.6
TW
53.90
51.9
52.3
FOURPLEX APARTMENT
FF 5954.10
EXISTING
BUILDING
FF 5951.99
VACANT LOT
GRADED BUILDING PAD
@ 5956.5X
CONTRIBUTORY AREA
≅ 3000 S.F.
Q100 = .13 CFS PEAK
Q10 = .08 CFS
• EXISTING CONDITIONS
NO DISCERNIBLE ENTRY FLOWLINE
TW
53.81
50.9
52.6
P. U. E.
5'
53.0
53.4
EXISTING M.U. WALL ON PROPERTY LINE
51.4
51.1
52.2
52.5
52.2
52.2
TW
53.81
50.9
51.3
N 01°16'55" E
ASPHALT PARKING LOT
51
52
53
110.00'
TW
51.33
51.1 ASPH.
50.5 INLET
65.00'
51.0
52.7
N 89°43'05" W
NEW 4' CONC. SIDEWALK
50.10 OUTLET
Q100 = .67 CFS
Q10 = .43 CFS
TBM
TC 5950.68
FL 5950.02
12" SIDEWALK
CULVERT PER
CITY ORDER - 19
(SEPARATE COVER)
TC 5951.60
FL 5950.99
EXISTING
DRIVE CUT
TC 5952.37
FL 5951.70
TC 5953.05
FL 5952.51
50
51
52
53
56
55
54
N
SCALE 1" = 10'
12409 HARDIN COURT, NE

CALCULATIONS

AREA OF SITE	7150 SQ.FT. (.16 AC.)
SLOPE	4.5%
SOILS GROUP	B
DEVELOPED COVERAGE	57 %
MODIFIED 'C' FACTOR	.63
100-YR. RAINFALL	2.5 INCHES
TIME OF CONCENTRATION	10 MINUTES
INTENSITY	5.4 IN/HR.

ON-SITE RUNOFF

Q_{100} = .63 × 5.4 × .16 = .54 CFS PEAK

Q_{10} = .65 Q_{100} = .35 CFS

OFFSITE CONTRIBUTORY RUNOFF

LOT TO EAST (LOT 'D') ABOUT 3000 SQ.FT. (.07 AC.)
OPEN AREA, C = .34 (PL. 22.2 C-1 D.P.M.)

Q_{100} = .34 × 5.4 × .07 = .13 CFS PEAK

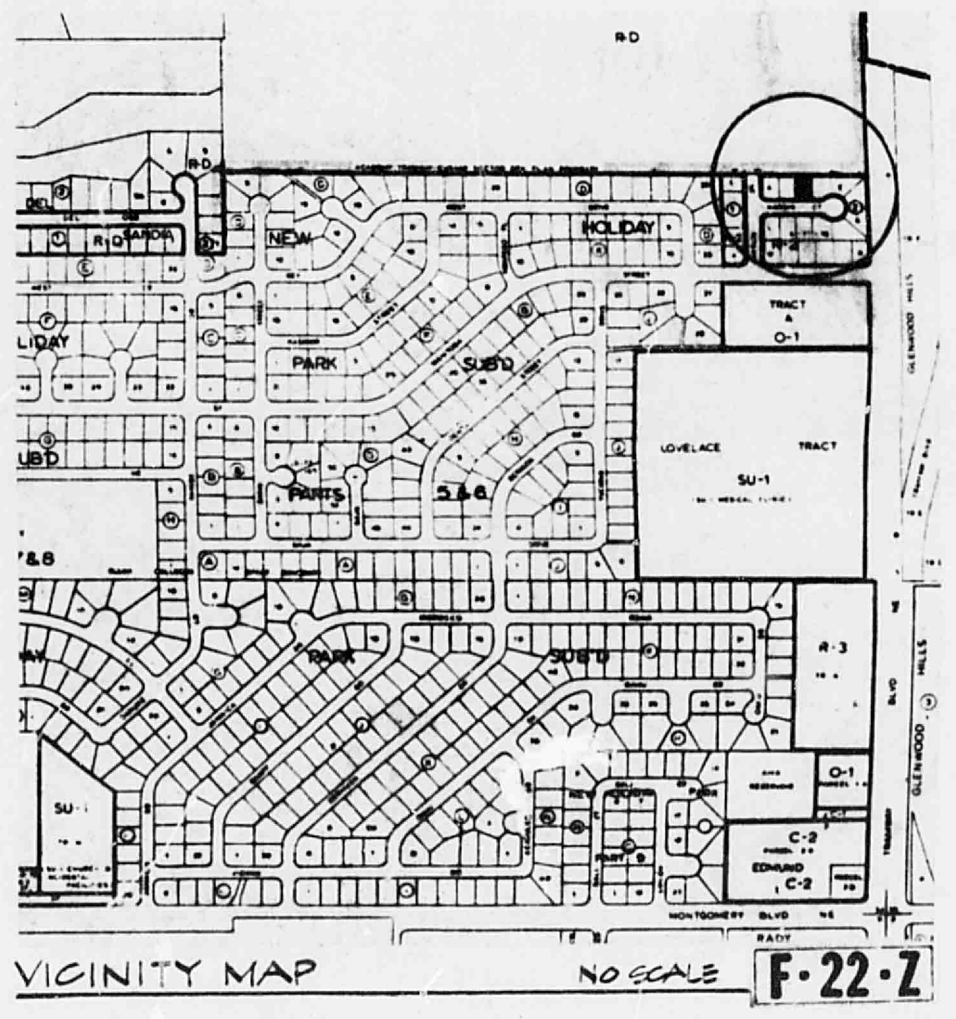
Q_{10} = .08 CFS

DISPOSAL

- FLOWS RELEASED TO HARDIN CT., FREE DISCHARGE.
- SITE DOES NOT LIE IN A 100-YR FLOOD ZONE
- RELEASED RUNOFF DOES NOT CONTRIBUTE TO ANY DEFINED 100-YR FLOOD ZONE.

Q_{T100} = .54 CFS + .13 CFS = .67 CFS, PEAK

Q_{T10} = .35 CFS + .08 CFS = .43 CFS


HOLIDAY
PARK
SUBD
LOVELACE
TRACT
SU-1
LIDAY
UBD
EDMUND
C-2
MONTGOMERY BLVD NE

VICINITY MAP NO SCALE **F-22-Z**

BENCH MARK

1-F22 42' WEST OF FIRE HYDRANT IN NW QUADRANT OF INTERSECTION OF TRAMWAY BLVD. & MANITOBA ST. STD. ACS BRASS TABLET SET IN CONC. POST PROJECTING 0.3 FT. ABOVE GROUND

ELEV. 5937.02

TBM

TOP OF CURB ADJ. TO SW COR. OF PROPERTY

ELEV. 5950.68

LEGEND

CONTOUR INTERVAL - ONE-FOOT

(60) — — —	EXISTING CONTOUR
—— 60 ——	PROPOSED CONTOUR
+ 60.0	EXISTING SPOT ELEVATION
⊕ 60.0	PROPOSED SPOT ELEVATION
▬ ▬ ▬	DIVISION OF FLOWS

PROPOSED CONTOURS AND SPOT ELEVATIONS ARE TO FINISH SURFACES.
CONTRACTOR SHALL DETERMINE APPROPRIATE SUBGRADES.

DRAINAGE PLAN

12409 HARDIN COURT, NE
LOT - '6'
BLOCK - 2
NEW HOLIDAY PARK PARTS 5 & 6
ALBUQUERQUE, NEW MEXICO

FOR

SHEPHERD CONSTRUCTION

9441
JOHN W. BETTIS

RECEIVED
MAR 07 1985
HYDROLOGY SECTION

APPROVED FOR DRAINAGE
4-4-85
DATE
Carla A. Martinez
SIGNATURE TITLE
ADVISE DRAINAGE INSPECTOR
WHEN GRADING EXECUTED

letter 4-3-85

F22/D16A

TECH Inc.
333 East Main
Farmington
New Mexico

DRAINAGE PLAN
12409 HARDIN CT., NE

SHEPHERD
CONSTRUCTION

drawn E W KIESS	revised
project no. 3885.0029.0015	date 03.05.85
sheet	of