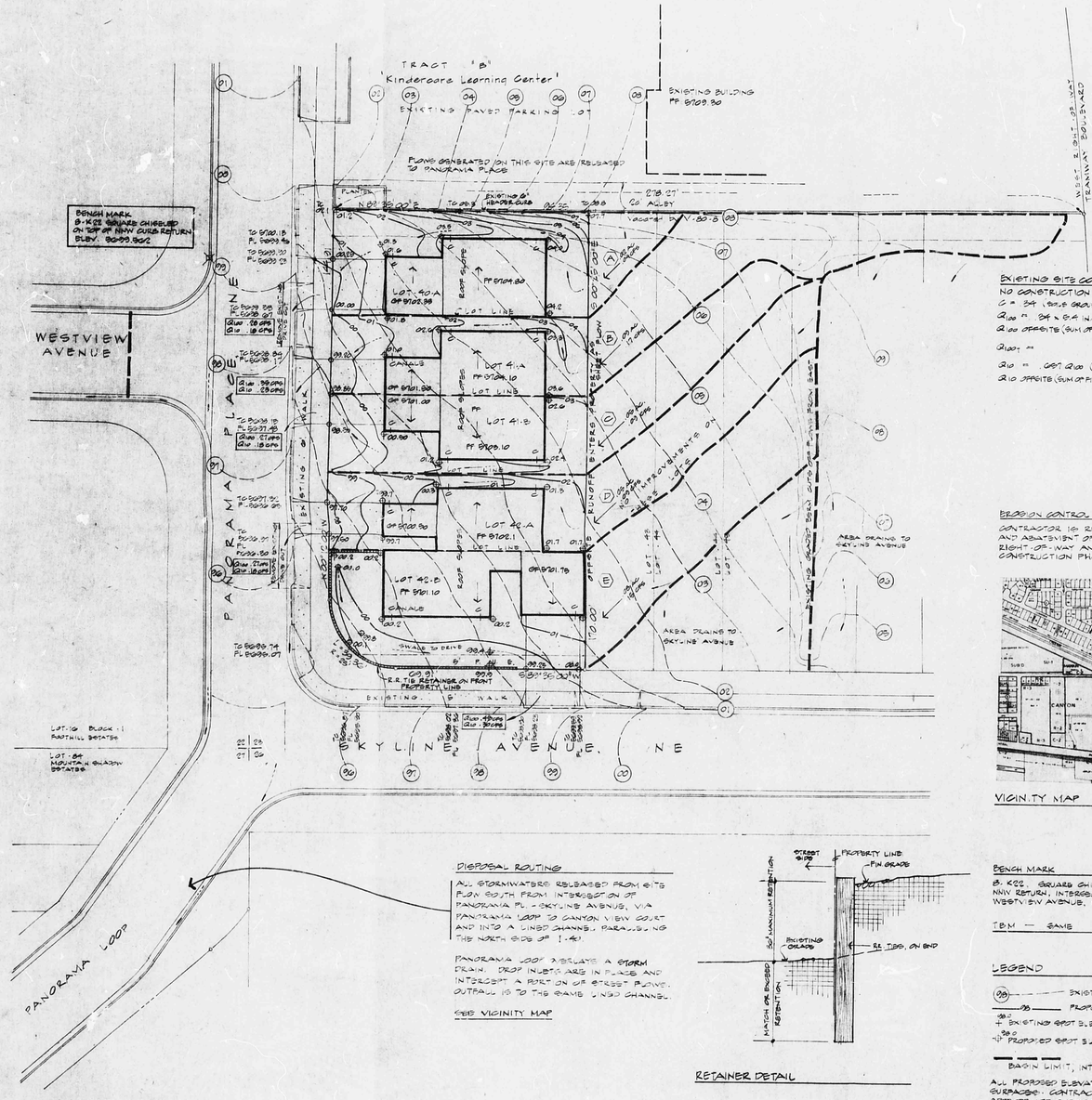
HYDROLOGY K23/D23 1 PLAN

K23/D23

1 Plan

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D



EXISTING SITE CONDITIONS

NO CONSTRUCTION ON SITE

C = .54 (.90 GROUP B, P. 22.2 S-1)

Q100 = .54 x 5.4 IN/HR x .1500 AC = .07 CFS

Q100 OFFSITE (SUM OF FIGURES, RIGHT) = .94 CFS

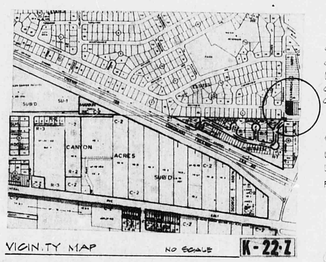
Q100T = 1.01 CFS

Q10 = .09 Q100 (SITE) = .44 CFS

Q10 OFFSITE (SUM OF FIGURES, RIGHT)

EROSION CONTROL

CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL AND ABATEMENT OF SEDIMENT TO ABUTTING STREET RIGHT-OF-WAY AND PRIVATE PARCELS DURING CONSTRUCTION PHASE.



VICINITY MAP NO SCALE K-22-Z

DISPOSAL ROUTING

ALL STORMWATERS RELEASED FROM SITE FLOW SOUTH FROM INTERSECTION OF PANORAMA PL. - SKYLINE AVENUE, VIA PANORAMA LOOP TO CANYON VIEW COURT AND INTO A LINED CHANNEL PARALLELING THE NORTH SIDE OF I-40.

PANORAMA LOOP INCLUDES A STORM DRAIN. DROP INLETS ARE IN PLACE AND INTERCEPT A PORTION OF STREET FLOW. OUTFALL IS TO THE SAME LINED CHANNEL.

SEE VICINITY MAP

RETAINER DETAIL

BENCH MARK

B-K22 SQUARE CHISELED ON HEAD OF CURB @ NNW RETURN, INTERSECTION OF PANORAMA PLACE & WESTVIEW AVENUE, NE

ELEV. 5099.5962

TBM — SAME

LEGEND

(98) EXISTING CONTOUR, CONTOUR INTERVAL ONE-FOOT

98 PROPOSED CONTOUR

98.5 + EXISTING SPOT ELEVATION

98.0 PROPOSED SPOT ELEVATION

BASIN LIMIT, INTERNAL & OFF-SITE

ALL PROPOSED ELEVATIONS ARE TO FINISH SURFACE. CONTRACTOR SHALL DETERMINE APPROPRIATE SUBGRADE.

CALCULATIONS & SITE DATA

AREA	15957 SQ FT	(.3662 AC)
SLOPE		5%
SOILS GROUP		B
DEVELOPED COVERAGE		59%
100-YR RAINFALL		2.6 IN.
TIME OF CONCENTRATION		10 MINUTES
INTENSITY		5.4 IN/HR

UPSTREAM CONDITIONS

THE AREA BETWEEN PROJECT SITE AND TRAMWAY BOULEVARD IS UNDEVELOPED.
A GRADED BERM DIVERTS ABOUT ONE-HALF OF FLOWS GENERATED IN THIS AREA TO SKYLINE AVENUE BEFORE REACHING PROJECT SITE C = .39

DISPOSAL

FREE DISCHARGE FROM LOTS INTO PANORAMA PLACE OR SKYLINE AVENUE. UPSTREAM FLOWS CONTRIBUTORY TO EACH LOT WILL BE ROUTED THROUGH AND RELEASED TO STREETS VIA INDIVIDUAL DRIVES.

BELOW ARE SUMMARIES OF DELINEATED DRAINAGE AREAS

(A) LOT 40-A

UPSTREAM AREA .02 AC
Q100 = .39 x 5.4 x .02 = .04 CFS
Q10 = .09 Q100 = .02 CFS
LOT AREA .08 AC
Q100 = .89 x 5.4 x .08 = .04 CFS
Q10 = .10 CFS
Q100T = .08 CFS
Q10T = .10 CFS

UNDEVELOPED FLOWS
Q100 = .39 x 5.4 IN/HR x .10 AC = .10 CFS
Q10 = .39 x .54 x .10 = .03 CFS

(B) LOT 41-A

UPSTREAM AREA .03 AC
Q100 = .39 x 5.4 x .03 = .07 CFS
Q10 = .11 CFS
LOT AREA .08 AC
Q100 = .89 x 5.4 x .08 = .18 CFS
Q10 = .16 CFS
Q100T = .25 CFS
Q10T = .27 CFS

UNDEVELOPED
Q100 = .39 x 5.4 IN/HR x .18 AC = .38 CFS
Q10 = .39 x .54 x .18 = .14 CFS

(C) LOT 41-B

UPSTREAM AREA .05 AC
Q100 = .39 x 5.4 x .05 = .11 CFS
Q10 = .20 CFS
LOT AREA .13 AC
Q100 = .89 x 5.4 x .13 = .18 CFS
Q10 = .16 CFS
Q100T = .29 CFS
Q10T = .36 CFS

UNDEVELOPED
Q100 = .39 x 5.4 IN/HR x .11 AC = .21 CFS
Q10 = .39 x .54 x .11 = .10 CFS

(D) LOT 42-A

UPSTREAM AREA .05 AC
LOT AREA .03 AC
FIGURES IDENTICAL TO (C)
Q100T = .29 CFS
Q10T = .36 CFS

UNDEVELOPED
Q100 = .39 x 5.4 IN/HR x .11 AC = .21 CFS
Q10 = .39 x .54 x .11 = .10 CFS

(E) LOT 42-B

UPSTREAM AREA .08 AC
Q100 = .39 x 5.4 x .08 = .16 CFS
Q10 = .09 Q100 = .12 CFS
LOT AREA .13 AC
Q100 = .89 x 5.4 x .13 = .30 CFS
Q10 = .40 CFS
Q100T = .45 CFS
Q10T = .50 CFS

UNDEVELOPED
Q100 = .39 x 5.4 IN/HR x .18 AC = .34 CFS
Q10 = .39 x .54 x .18 = .17 CFS

DRAINAGE PLAN

LOTS 40-A, 41-A, 41-B, 42-A, 42-B
BLOCK - L
CENAROCA SUBDIVISION
ALBUQUERQUE, NEW MEXICO

TYRE CORPORATION

MAY 18, 1985

RECEIVED JUN 20 1985 HYDROLOGY SECTION

TECH Inc.
333 East Main
Farmington
New Mexico

DRAINAGE STUDY
LOTS 40-A TO 42-B
BLOCK - L
CENAROCA SUBDIVISION

TOWNHOME DEV.
TYRE CORP.

STATE OF NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER — 8008 — PLAN

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CITY OF ALBUQUERQUE
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D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D