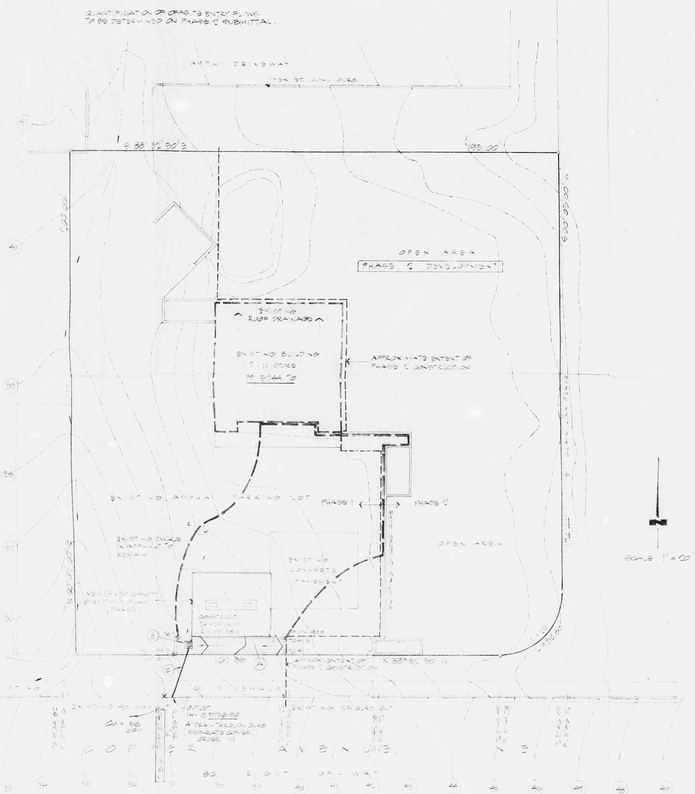
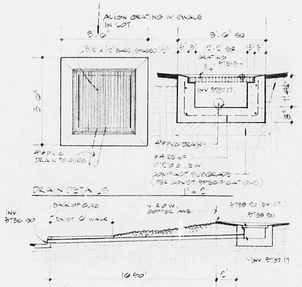
HYDROLOGY K22/D17a 2 PLANS

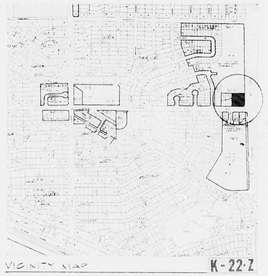
K22/D17A

2 Plans

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







CALCULATION DATA

RECEIVED
OCT 04 1985
HYDROLOGY SECTION

TECH Inc.
333 East Main
Farmington
New Mexico

DRAINAGE PLAN - PHASE I
13601 COPPER AVENUE NE
TRACT A-2-1
VISTA ORIENTE
K-22 / ~~D-31~~

SOUTHLAND CORP.
S & J CONSTRUCTION

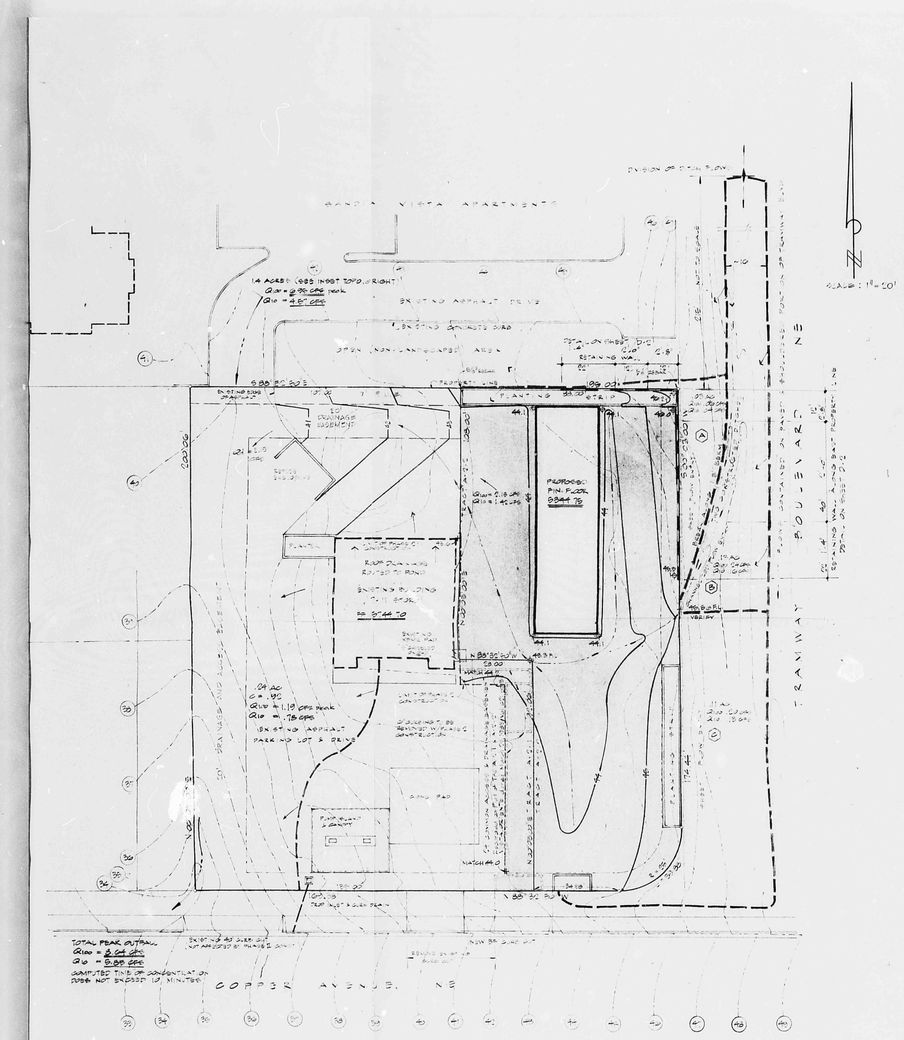
revised	date

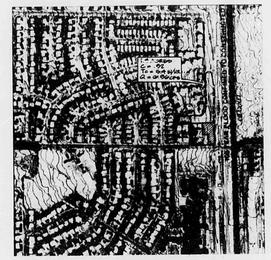
drawn: EWK-EBDC
project no.: 5985 5989 5989
sheet: D-2
of

Plans shot twice light & dark

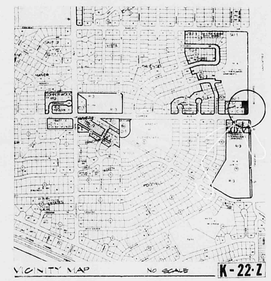
CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

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





UPSTREAM CONTRIBUTORY AREA
ENTRY TO 6"S & 8" INLET BLVD. AREA IS PRIMARILY DRAINAGE WITHIN BANDA VISTA APARTMENT COMPLEX



VICINITY MAP NO SCALE K-22-Z

BENCH MARK
10.KCP J INTERSECTION OF BWS, F, & GRANDS AVE NE
SQUARE □ CH-9.50 ABOVE HEAD OF CURB AT SNS RETURN
ELEV. 6803.008

TBM
TOP OF CURB @ 8.4'FS OF WESTERN END OF SNS CUT
ELEV. 6791.40

LEGEND
CONTOUR INTERVAL - ONE FOOT
(46) EXISTING CONTOUR
46 PROPOSED CONTOUR
+ 46.0 EXISTING GRID ELEVATION
+ 46.0 PROPOSED GRID ELEVATION
PROPOSED GRID ELEVATIONS AND CONTOURS ARE TO BE ON ELEVATIONS
CONTRACTOR SHALL DETERMINE APPROPRIATE ELEVATIONS
INTERNAL BASIN DIVISION
CONSTRUCT ON PLANS LINE

CALCULATION DATA

AREA OF PHASE 2 — 4333 SQ FT (.0949 AC)
SLOPE — 3% AVERAGE (.18 FT/FT OF PLAN)
RUNOFF CRITERIA — B
LOSS RATIO — 2.8 IN.
TYPE OF CONCENTRATION — 10 MINUTES
INTENSITY — 3.4 IN./HR.

• NOTE: PRELIMINARY PLAT DIVIDING TRACT A-2 VISTA ORIENTE INTO FIRST FOR RECORD AFTER IMPROVEMENTS TO LOT WERE MADE. A 30' x 50' TEMPORARY EASEMENT FOR CONSTRUCTION AND MAINTENANCE OF A DETENTION POND IN THE TRACT A-2-1 WILL BE GRANTED BY SOUTHLAND CORPORATION OWNER OF THE TRACT TO OWNER OF ADJACENT TRACT A-2-2.

UNDEVELOPED RUNOFF (PHASE 2)

AREA — (4333 SQ FT) (.0949 AC)
NO AVERAGE IMPROVEMENTS — C = .34
Q100 = (.34)(3.4 IN/HR)(.0949) = .11 CFS PEAK
Q10 = .08 CFS

OFFSITE CONTRIBUTORY RUNOFF

FROM NORTH - DURING ENTRY OF RUNOFF IS PRESENTED BY PARKING LOT INCLUDING PLANTED ISLANDS & CENTERLINE OF AN INTERNAL PORTION OF THE ABUTTING NORTH PROPERTY AND INSTALLATION OF SUCH PLANTING OTHER WOULD NOT ALTER BASIN DIVISION.

FROM EAST - RUNOFF FROM TRAVIS BOULEVARD. RUNOFF OF THAT ENTIRE FRONT SHOULD NOT ALTER BASIN DIVISION.

A) RUNOFF FROM ENTRY INTERCEPTOR

AREA — (180 SQ FT) (.0041 AC)
Q100 = (.34)(3.4 IN/HR)(.0041) = .00 CFS PEAK
Q10 = .00 CFS

B) DRAINAGE BASIN ENTRY

AREA — (2070 SQ FT) (.0475 AC)
Q100 = (.34)(3.4 IN/HR)(.0475) = .05 CFS PEAK
Q10 = .03 CFS

C) RUNOFF FROM ENTRY INTERCEPTOR

AREA — (4750 SQ FT) (.1091 AC)
Q100 = (.34)(3.4 IN/HR)(.1091) = .12 CFS PEAK
Q10 = .07 CFS

TOTAL SUBDIVISION ENTRY RUNOFF (PHASE 2)

INTERCEPTOR DRAINAGE OF PHASE 1 (BY SUBDIVISION ENTRY)
C = .90
Q100 = (.90)(3.4 IN/HR)(.0949 AC) = .29 CFS PEAK
Q10 = .20 CFS

TOTAL PEAK RUNOFF (DIRECT TO POND)
Q100 = .00 + .05 + .12 + .29 = .46 CFS PEAK
Q10 = .00 + .03 + .07 + .20 = .30 CFS

Suggested Description of a 20' Drainage Easement

A private drainage easement over and across the westerly 20 feet and the northerly 20 feet of Tract A-2-1 in VISTA ORIENTE, Albuquerque, New Mexico, as said tract is shown and designated on the Summary Plat of Tracts A-2-1 & A-2-2, VISTA ORIENTE, filed in the Office of the County Clerk of Bernalillo County, New Mexico, on March 29, 1983, in Volume C-21, Folio 13.

APPROVED FOR DRAINAGE
10-8-85
DATE
Roger A. Larson PE Hydrology
SIGNATURE TITLE
ADVISE DRAINAGE INSPECTOR WHEN GRADING EXECUTED

RECEIVED
OCT 04 1985
HYDROLOGY SECTION

TECH Inc.
333 East Main
Farmington
New Mexico

DRAINAGE PLAN - PHASE 2
13601 COPPER AVENUE NE
TRACT A-2-2
VISTA ORIENTE
D-17A
K-22/~~D-31~~

SOUTHLAND CORP.
S&J CONSTRUCTION

drawn	revised	
project no.	date	
sheet D-1 of		

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

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