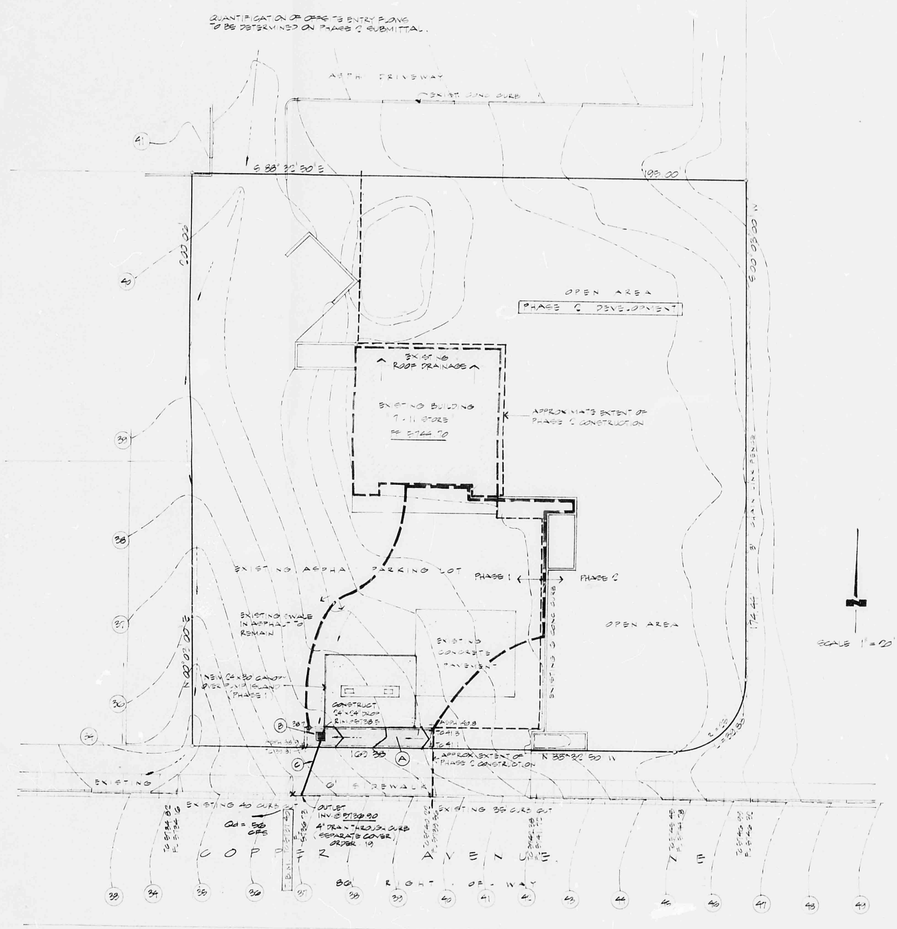
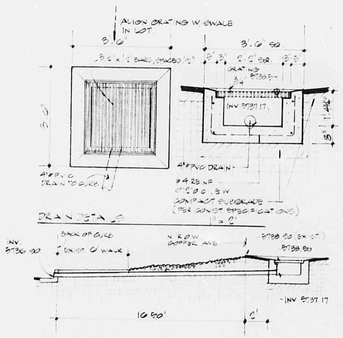
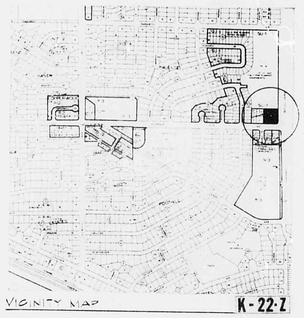
HYDROLOGY K22/D17 1 PLAN







VICINITY MAP K-22-Z

BENCH MARK

10" RCP @ INTERSECT ON SE LANE P.I. & BRANDS AND NE CORNER OF CHISELED IN HEAD OF CURB AT END RETURN

ELEV. 5822.028

TBM:

TOP OF CURB @ E END OF NORTHERN 40' DRIVE OUT

ELEV. 5787.40

LEGEND

CONTOUR INTERVAL = ONE FOOT

(40) EXIST. CONTOUR

40 PROPOSED CONTOUR

40.0 EXISTING SPOT ELEVATION

40.0 PROPOSED SPOT ELEVATION

PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO FINISH SURFACES.

CONTRACTOR SHALL DETERMINE APPROPRIATE ELEVATIONS.

INTERNAL BASIN DIVISION

CONSTRUCTION PHASE LINE

FIELD NOTES TAKEN MAY 3, 1985

CALCULATIONS & DATA

TOTAL LOT AREA	83854 SQ FT (1.92 AC)
SOILS	2'-4' AVERAGE, 18" MIN., 10' MAX
GROUP	B
LOCATION	C & N
TIME OF CONCENTRATION	10 MINUTES
INTENSITY	2.6 IN/HR

- COMPUTATIONS AND NOTES SHOWN BELOW REFER TO PHASE 1 CONSTRUCTION ONLY WHEN AREA FOR PHASE 1 AND 2 ARE DISTINCT AND IT WILL REMAIN AS SUCH UPON COMPLETION OF PHASE 2.
- PHASE 2 DATA WILL APPEAR ON SEPARATE SHEET

DEVELOPED RUNOFF (PHASE 1)

AREA 4800 SQ FT (.11 AC)

100% IMPERVIOUS C = 1.00

$Q_{PEAK} = 1.00 \times 2.6 \times .11 =$ .60 CFS PEAK

$Q_{10} = .06 \times .11 =$ .34 CFS

OFFSITE RUNOFF

NONE OF SITE ALONG EAST SIDE OF PARKING LOT DIVERTS UPSTREAM FLOWS. THIS BREAK IN GRADE WILL BE MAINTAINED WITH REDEVELOPMENT.

DISCUSSION

SEE PLAN, MAP ON THIS SHEET

RUNOFF FROM THIS PART OF THE SITE CONTRIBUTES TO A DEFINED LOW-POINT ZONE AT THE INTERSECTION OF COPPER AVE AND DENVER RAIL BOULEVARD.

RELEASE IS TO BE THROUGH A 4" PVC DRAIN THROUGH CURB. CATCHMENT AS USED IN THIS SHEET WILL REPLACE EXISTING PLANTING STRIP

(A) REMOVE 40' OF PLANTING STRIP, APPROX. 100 L.F. OF HEADER CURB. EXCAVATE AND REMOVE SUBGRADE MATERIAL. REPLACE W/ ASPHALT PAVEMENT, GRADE TO MATCH

(B) 24" x 24" INLET PER DETAIL ON THIS SHEET, GRATE TO MATCH

(C) 4" DRAIN THROUGH CURB (SEPARATE CONCRETE CURB)

RESIDENT RETENTION (HYDROGRAPH METHOD)

IN SITE VOLUME GENERATED $V = 4800 \times 1.00 \times \frac{0.6}{12} = 1200$ CU FT

$Q_{10} = .06$ CFS $T = \frac{1000 \times 2}{60} = 33.33$ SEC

Q_{10} T PIPE $= \frac{1.0 \text{ CFS}}{60}$ (5788.5 - 5786.9 = 1.6')

$= .02$ CFS/FT

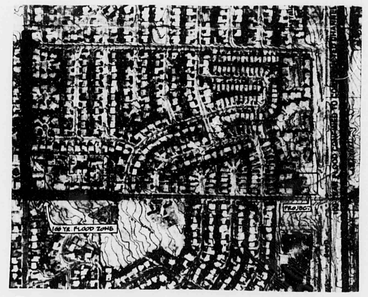
$\left(\frac{1}{2} = \frac{30'}{1.6'}\right)$

$\frac{1}{3} = \frac{30'}{1.6'}$ @ 5787.40

$= 20.63$ (1% OF 1.6') = 30 SEC PEAK

VOLUME = $\frac{(40 + 16.6)}{2} .04 = 1.1$ CU FT

VOLUME IN CATCH = .17 x 2.17 x .17 = .07 CU FT



PORTION OF 4 FEMA PANEL 3 OF 50

FLOOD ZONE MAP

RECEIVED
JUN 07 1985
HYDROLOGY SECTION

TECH Inc.
333 East Main
Farmington
New Mexico

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

SOUTHLAND CORP.
S & J CONSTRUCTION

revised	
date	05-30-85
drawn	E.W. KLEBS
project no.	5855.0505
sheet	of

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