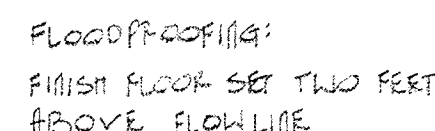


SUMMER AVE. N.W.



J-14-7

	DIRECTION OF FLOW
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
FL	FLOW LINE
TA	TOP OF ASPHALT
TSW	TOP OF SIDEWALK
FG	FINISH GRADE
TBM	TEMPORARY BENCHMARK
NTS	NOT TO SCALE



1. REFERENCES:

- II. GENERAL INFORMATION:

- A. Soil Type (Ref. B., Page 30):
Soil type is GK, Glendale Loam, Hydrologic Soil Group B.

- B. Imperviousness:

C. "C" Factor (See Ref. A., Plate 22.2 C-1):

1. Undeveloped "C" Factor = 0.34
2. Developed "C" Factor = 0.73

- D. Rainfall, 100 Year, 6-Hour, R(6), (See Ref.A., Plate 22.2 D-1):
R(6) = 22 inches

- E. Time of Concentration, $T(c)$:
 $T(c) =$ (use 10 minutes)

- F. Rainfall Intensity, I, (See Ref.A., Plate 22.2 D-2):
 $I = R(6) \times 6.84 \times T(c) \text{ (exp. } -0.51)$
 $= 2.2 \times 6.84 \times 10 \text{ (exp. } -0.51)$
 $= 4.65 \text{ in/hr}$

III. PEAK DISCHARGE:

- A. Existing Conditions (Use Rational Equation):
 $Q(100) = 0.34 \times 4.65 \times 0.16 = 0.25 \text{ cfs}$
 $Q(10) = 0.657 \times 0.25 = 0.16 \text{ cfs} \quad (\text{Ref. A., Plate 22.2 D-1})$

- B. Developed Conditions:
- $$Q(100) = 0.73 \times 4.65 \times 0.16 = 0.54 \text{ cfs}$$
- $$Q(10) = 0.657 \times 0.54 = 0.35 \text{ cfs}$$

IV. CONCLUSIONS:

- A. New generated run-off will discharge via driveway into Summer Avenue.
- B. Proposed development will have no adverse effect on downstream capacity as this site is the only site presently vacant in the area.
- C. The development of this site will not create any surface drainage ingress or egress to adjacent 16' alley.

GENERAL NOTES:

No search has been made for easements of record within the subject property other than shown on the map here attached.

BENCH MARK REFERENCE:

Standard USIC and GSI Brass cap stamped "L-224 RESET" set in the top of traffic warning light at the intersection of Mountain Road NW and the A.T. & S.F. Railroad track. M.S.L. elevation: 4358.560'.

LEGAL DESCRIPTION:

A certain tract or parcel of land situated within the legal limits of the City of Albuquerque, Bernalillo County, New Mexico; being more particularly described as: TRACT A, BLOCK 9, of the PARIS ADDITION to the CITY of ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

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HYDROLOGY SECTION

GRADING AND DRAINAGE PLAN

CAR QUEST AUTO PARTS STORE
1321 SECOND STREET NW
ALBUQUERQUE, NEW MEXICO