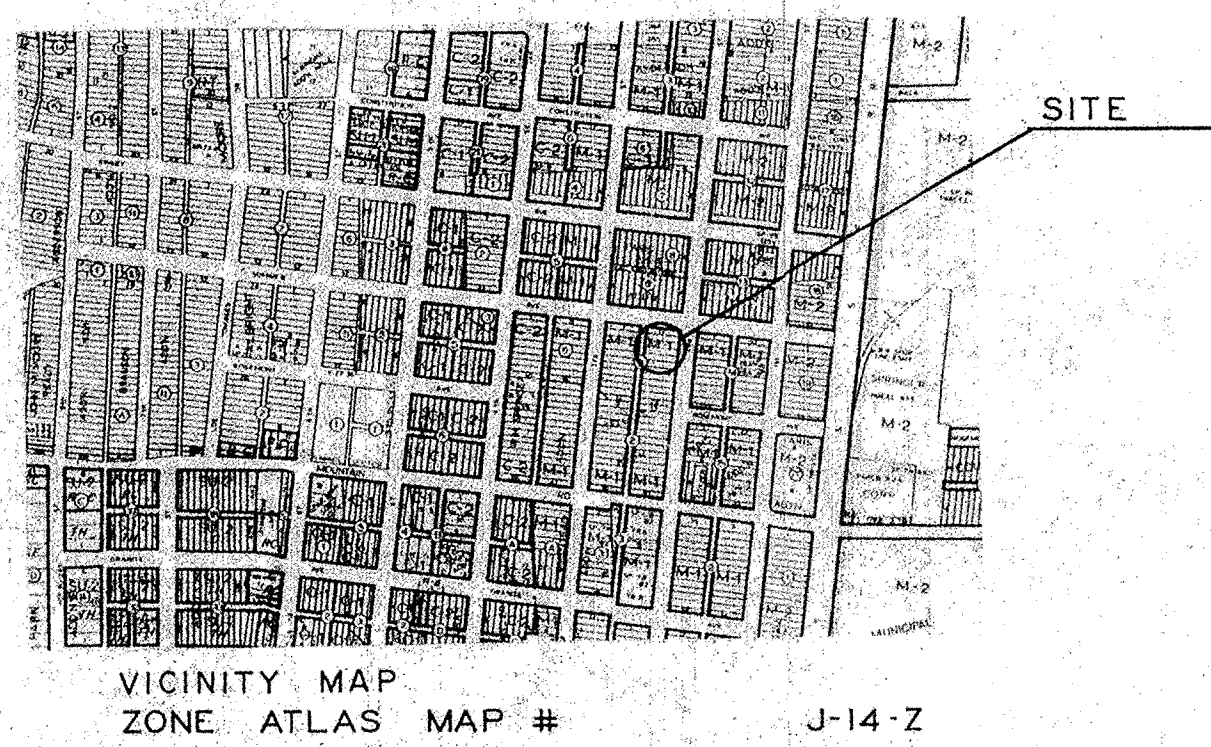
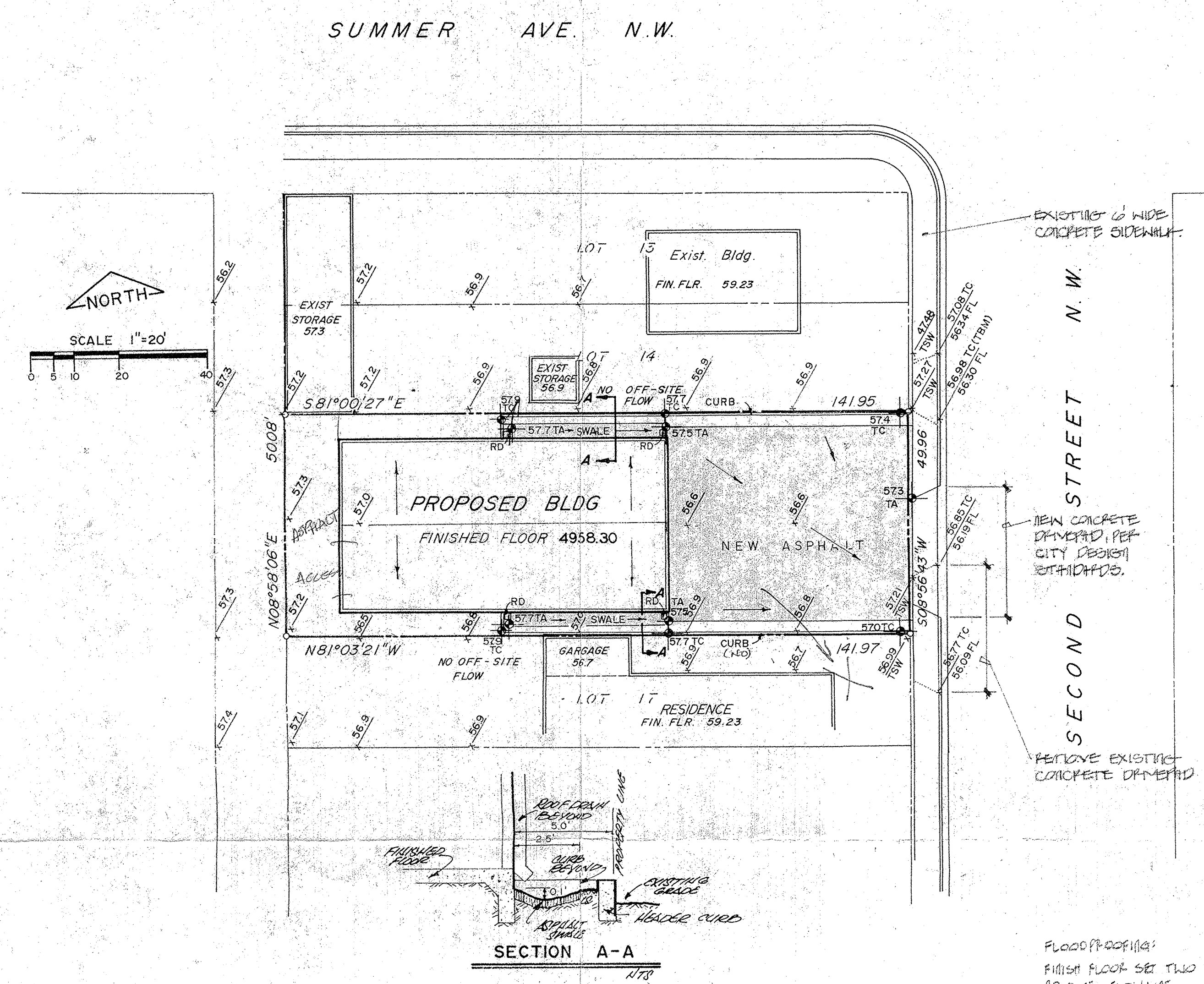


update plan
 ① Additional asphalt
 ② II conclusion
 C.



- LEGEND**
- 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

DRAINAGE CALCULATIONS
 FOR
 1321 SECOND STREET NW, ALBUQUERQUE, N.M.

- I. REFERENCES:**
- A. City of Albuquerque Development Process Manual (DPM) Volume 2, Design Criteria, Chapter 22: Drainage, Flood Control, and Erosion Control.
 - B. Soil Survey of Bernalillo County and Parts of Sandoval Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service.

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

TYPE OF SURFACE	EXISTING AREA Sq.Ft. Acres	PROPOSED Sq.Ft. Acres	AREA Sq.Ft. Acres
Building Roof		3000	0.0689
Asphalt Surfaces	(VACANT LOT)	2420	0.0556
Landscaping		0	0.0000
Undeveloped Surface		1681	0.0386
Site Total	7101 0.1631	7101 0.1631	
Percent Impervious	0 percent	76.3 percent	

 - 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):
 $I = R(6) \times 6.84 \times T(c)^{-0.51}$
 $= 2.2 \times 6.84 \times 10^{-0.51}$
 $= 4.65 \text{ in/hr}$

- III. PEAK DISCHARGE:**
- A. Existing Conditions (Use Rational Equation):
 $Q(100) = 0.34 \times 4.65 \times 0.16 = 0.25 \text{ cfs}$
 $Q(10) = 0.657 \times 0.25 = 0.16 \text{ cfs}$ (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:

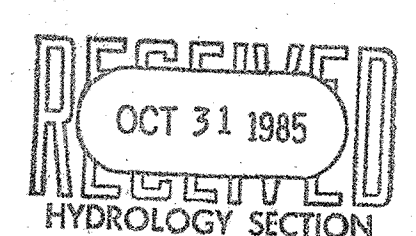
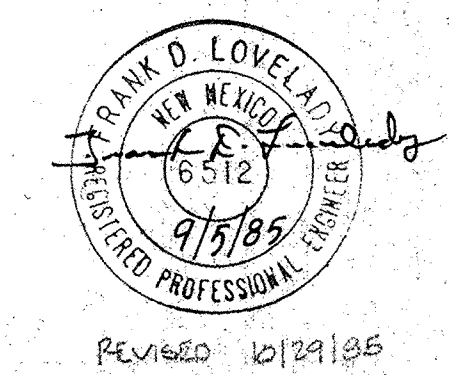
No search has been made for easements of record within the subject property other than shown on the map here attached.

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: 4958.560'.

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.



GRADING AND DRAINAGE PLAN
 CAR QUEST AUTO PARTS STORE
 1321 SECOND STREET NW
 ALBUQUERQUE, NEW MEXICO