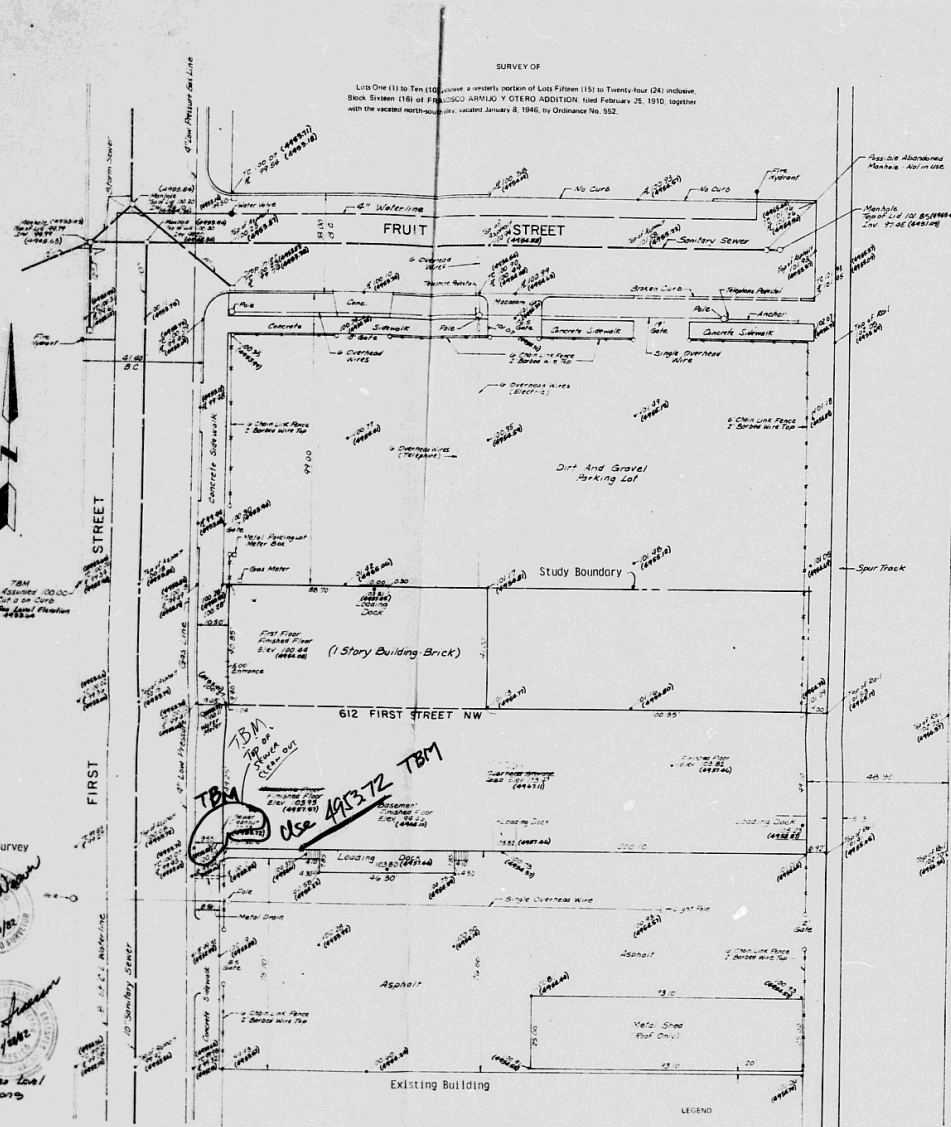
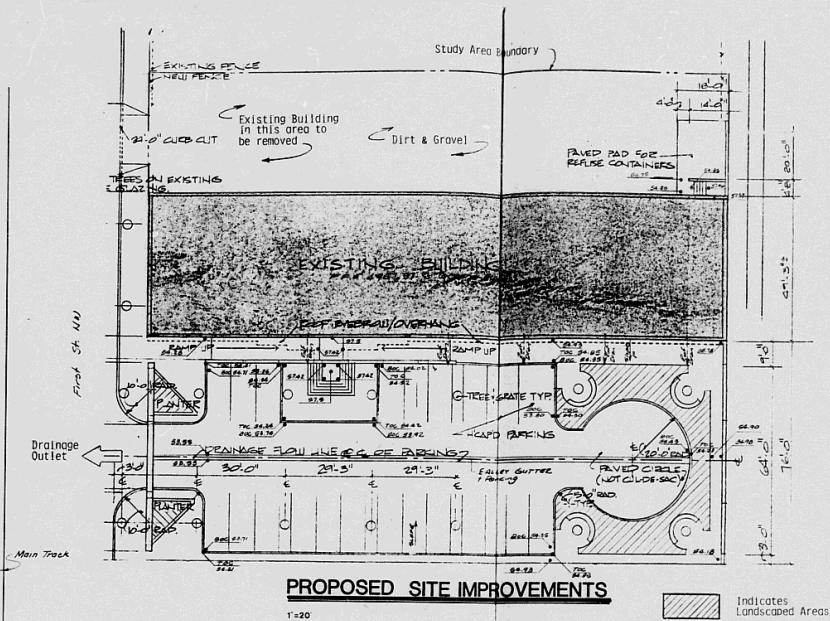




STUDY AREA RUNOFF ESTIMATES (100 Year)

- A. Impermeable Areas: (28,894 sq. ft.)
 $\text{Peak } (28,894 \times 43,560) \times 0.90 \times 4.82 = 2.9 \text{ cfs}$
 $\text{Volume } 28,894 \times 0.90 \times (2.2 \div 12) = 4768 \text{ cubic feet}$
- B. Permeable Areas: (4502 sq. ft.)
 $\text{Peak } (4502 \times 43,560) \times 0.35 \times 4.82 = 0.2 \text{ cfs}$
 $\text{Volume } 4502 \times 0.35 \times (2.2 \div 12) = 289 \text{ cubic feet}$
- C. Total Area (33,396 sq. ft.)
 $\text{Peak } 2.9 + 0.2 = 3.1 \text{ cfs, Volume } 4768 + 289 = 5057 \text{ cubic feet}$

DRAINAGE PLAN



STUDY AREA RUNOFF ESTIMATES (100 Year)

- A. Impermeable Areas (24,149 sq. ft.)
 $\text{Peak } (24,149 \times 43,560) \times 0.90 \times 4.82 = 2.4 \text{ cfs}$
 $\text{Volume } 24,149 \times 0.90 \times (2.2 \div 12) = 3985 \text{ cubic feet}$
- B. Permeable Areas (9247 sq. ft.)
 $\text{Peak } (9247 \times 43,560) \times 0.35 \times 4.82 = 0.4 \text{ cfs}$
 $\text{Volume } 9247 \times 0.35 \times (2.2 \div 12) = 593 \text{ cubic feet}$
- C. Total (33,396 sq. ft.)
 $\text{Peak } 2.4 + 0.4 = 2.8 \text{ cfs}$
 $\text{Volume } 3985 + 593 = 4578 \text{ cubic feet}$

NOTES:

- City BM: BM No 1224-R, USCGS B.C. In top of concrete base of traffic warning device, on Mountain Road at crossing with AT&SF Railway mainline. Elev. = 4958.56
- Offsite drainage areas pond and do not enter site.



JAN 29, 1982

Van H. Gilbert Architect

612 FIRST STREET RENOVATION
ALBUQUERQUE NEW MEXICO

RECEIVED
JAN 29 1982
ENGINEERING

J-14



CITY OF ALBUQUERQUE