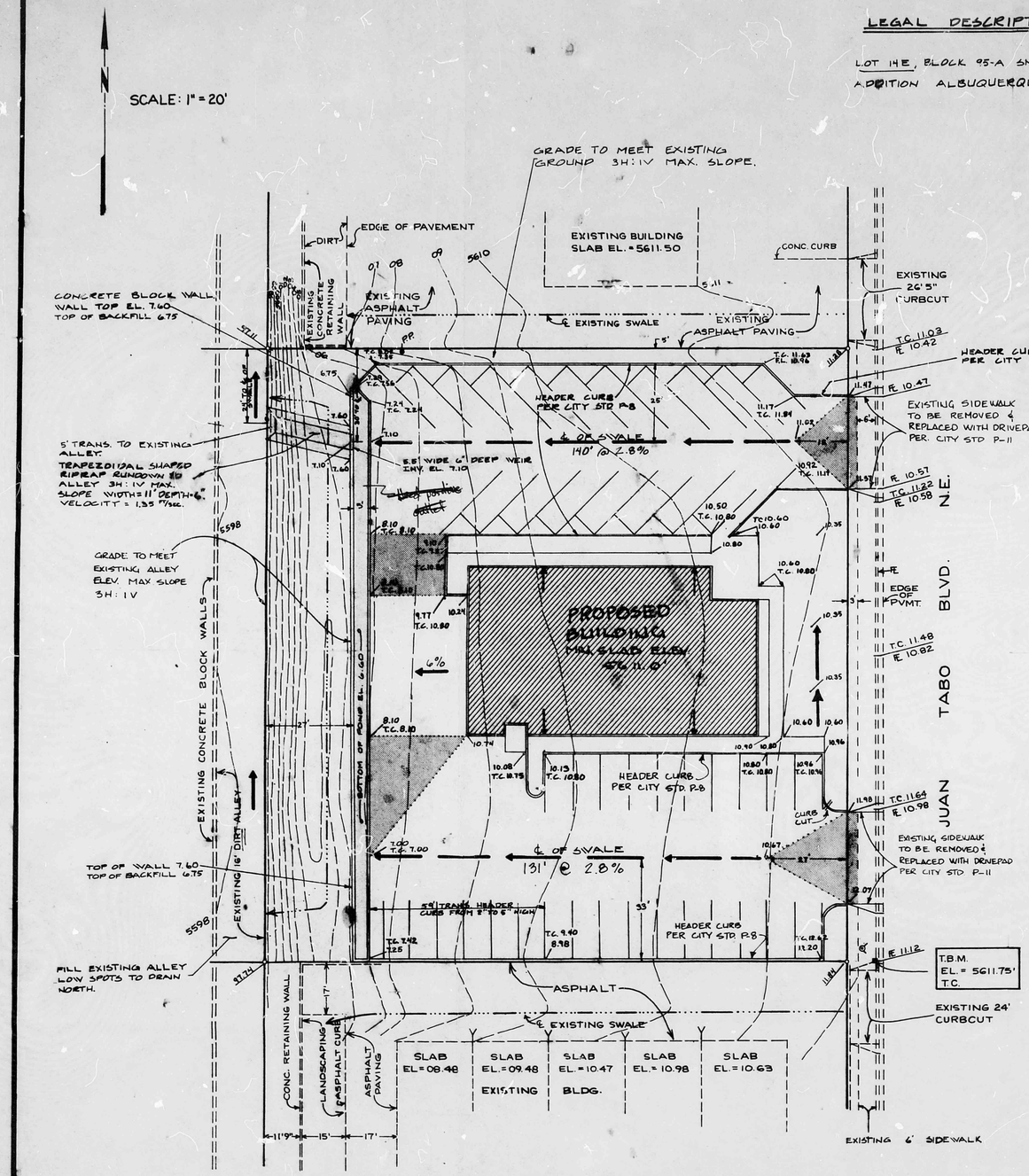
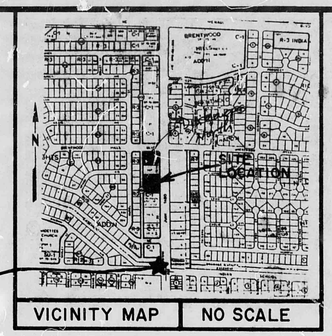
LEGAL DESCRIPTION

LOT 14E, BLOCK 95-A SNOW HEIGHTS ADDITION ALBUQUERQUE, NEW MEXICO.

SCALE: 1" = 20'



ADD 5600 TO ALL ELEVATIONS



BENCH MARK 10-H-21
A SQUARE X CHISLED ON CONCRETE
M.S.L. ELEV. = 5610.99

VICINITY MAP | NO SCALE

LEGEND	
	TRANSITION AREA
	FLOW DIRECTION
	EXISTING CONTOURS
	PROPOSED BUILDING
	℄ EXISTING SWALE
11.28	EXISTING ELEVATION

NOTE: ADD 5600' TO ALL ELEVATIONS

RUNDOWN TO ALLEY
Width = 11 ft.
Depth = 6 in.
Slope = 3H:1V
Velocity = 1.35 ft./sec.
Q = ?

EROSION CONTROL DURING CONSTRUCTION
Contractor will build the west wall of the minor retention pond with a piece of plywood sheathing across the weir and a dirt berm along the northern extension of the wall, contractor will excavate a temporary sediment control pond 1.0 feet deep and 9 feet wide for the full length and along the east side of the wall (where the permanent pond will be). The capacity of this temporary sediment pond will be approximately 1,800 cubic feet which is sufficient to control the 10-year storm.

RETENTION POND

To reduce the frequency of runoff from this site into the alley, a small (465 cu. ft.) retention pond is proposed. This minor volume will have no impact on major flows and it is not considered in the design of the weir and rundown. Must be positive outlet

GENERAL

Zone Atlas Page H-21; Flood Hazard Zone C

LAND USE - Present - undeveloped with no improvements. Frontage is to Juan Tabo Blvd. NE which is paved with standard curbs and gutters.

Proposed - to be developed as a restaurant.

SOIL TYPE - Embudo - Gravelly fine sandy loam and gravelly sandy loam.

TOTAL LOT AREA - 200 ft. x 192 ft. = 38,400 ft. or 0.882 ac.

HYDROLOGY

TIME OF CONCENTRATION
Flow path 310 ft.
Elevation difference 13.78 ft.
Time of Concentration 4.7 min.; use 10 min. ✓

6-HR. RAINFALL DEPTH
10-yr. = 1.63 in. ✓
100-yr. = 2.48 in. ✓

RAINFALL INTENSITY
10-yr. = 3.54 in./hr. ✓
100-yr. = 5.38 in./hr. ✓

RUNOFF COEFICIENTS
Undeveloped condition C = 0.34 ✓
Developed condition C = 0.78 ✓

RUNOFF RATES
Undeveloped condition
10-yr. = 1.1 cfs
100-yr. = 1.6 cfs
Developed condition
10-yr. = 2.4 cfs ✓
100-yr. = 3.7 cfs ✓

3.7
1.6
2.1 cfs

RUNOFF VOLUMES
Undeveloped condition
10-yr. = 1,774 cu. ft.
100-yr. = 2,699 cu. ft.
Developed condition
10-yr. = 4,069 cu. ft. ✓
100-yr. = 6,190 cu. ft. ✓

✓OFF-SITE FLOWS

The two lots on each side of this site are developed. Both have asphalt paved swales draining to the alley on the west side of the site. Juan Tabo Blvd. NE, to the east, is higher than the site and drains to the south. All flows are contained within the curbs. Therefore, there are no off-site flows.

ALLEY CAPACITY

The alley to the west of this site presently drains to the north and south from a high point as shown on the plan. Alley grades have already been approved by the City of Albuquerque. As designed, the capacity in the alley is 3.1 cfs. The 100-yr. flows from existing conditions from upstream lots is 10.3 cfs, if all upstream areas are considered developed, with Lot 14E undeveloped. Development of Lot 14E will increase the flowrate by 2.1 cfs. Therefore, it will have minor impact on the existing condition flows in the alley. This is the drainage condition if the alley was constructed as designed.

At present there is no real grade on the alley. There are low spots and high spots with the drainage generally flowing north [All of the presently developed lots upstream and down, do not pond on-site runoff.] Therefore, at this time all of the low spots will be filled in so that the alley will drain to the north without any shallow puddles adjacent to the Lot 14E.

must show downstream capacity and
~~Show downstream lots~~ HYDRAULICS
~~along lot~~ alley are not affected

$Q = CLH^{3/2}$

WEIR CAPACITY
Required Capacity 3.7 cfs
Depth 0.5 ft.; C = 2.0
Length 5.2 ft.; use 5.5 ft. ✓

TRIANGULAR PAVED SWALE IN PARKING LOT - Swale size varies. This flowrate is at the smallest swale area.

Width = 56 ft.
Depth = 0.13 ft
Slope = 2.8%
Maximum capacity = 11.3 cfs ✓
Required capacity = 3.7 cfs

RECEIVED
OCT 22 1985
HYDROLOGY SECTION

APPROVED FOR DRAINAGE
12/27/85
Roger L. Green, PE Hydrology
SECTION
ADVISE DRAINAGE INSPECTOR WHEN GRADING EXECUTED

DESIGNED BY: E.D.	DRAINAGE AND GRADING PLAN FOR PEREAS RESTAURANT
DRAWN BY: J.L. & A.P.	
CHECKED BY:	
OCT. 1985	PREPARED BY: RESOURCE TECHNOLOGY INC.

H21 / D30