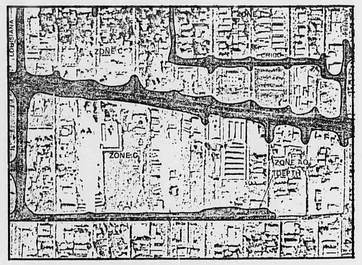
HYDROLOGY K19/D76 1 PLAN

K19/D76

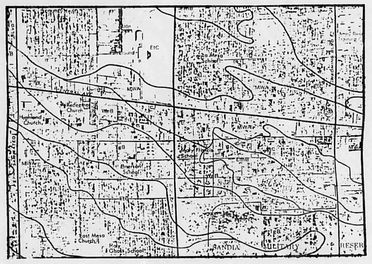
1 Plan

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

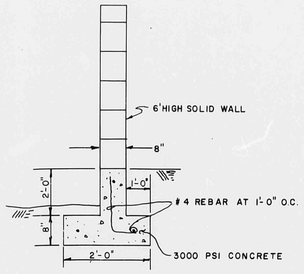


FLOOD HAZARD MAP

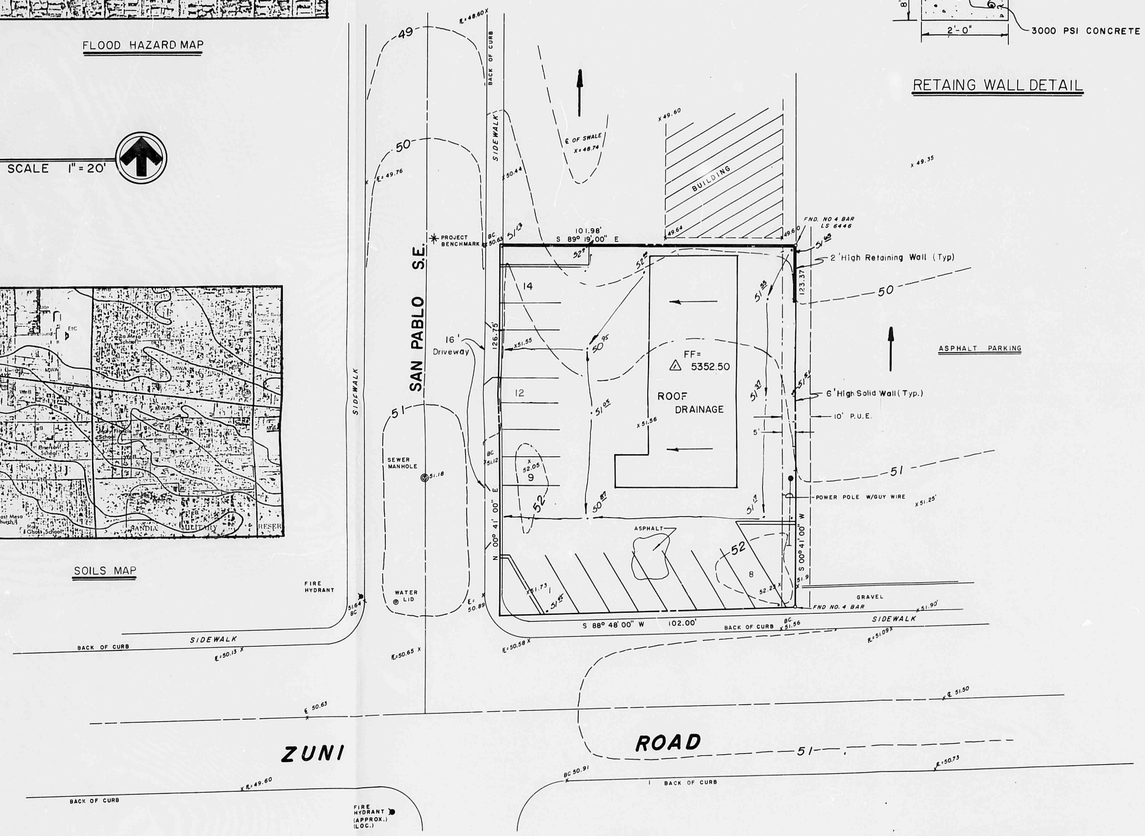
SCALE 1" = 20'



SOILS MAP



RETAING WALL DETAIL



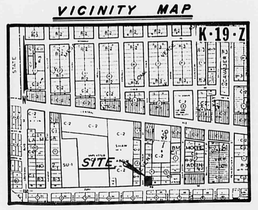
LEGEND

- x 50.23 EXISTING SPOT ELEVATION
- EXISTING CONTOUR ELEVATION
- • PROPOSED ELEVATION (TOP OF ASPHALT)
- BUILDING PAD
- EXISTING BUILDING
- PROPERTY LINE
- FF= FINISH FLOOR ELEVATION

ELEVATION BASED ON ACS MONUMENT 7-K19, ELEVATION=5323.308

PROJECT BENCHMARK, ELEV.=5350.63 (SCRATCH ON ℄ AT BACK OF CURB.)

VICINITY MAP



PREPARE BY:
TIERRA WEST DEVELOPMENT MANAGEMENT SERVICES
4127 CARLISLE N.E., ALB., N.M. 87107
505-883-7592

Legal Description

Lots eight (8) and nine (9) of Block 4, Bevens Addition as the same is shown and designated on the Plat thereof, filed in the office of the County Clerk of Bernalillo, New Mexico, on June 15, 1946.

Site Data

The site will consist of 2400 square feet of paint and body shop and will require 12 parking spaces and one handicap space. The entire area will be impervious with the exception of the planters which represent 7 percent of the parking area.

Ground Cover Information

The existing site is currently undeveloped with isolated rubble through the site. The ground is Madurez-Wink association (Mwe) as shown in SCS Bernalillo County Soil Survey and is a Hydrologic Soil Group B.

Offsite Conditions

The site is situated near the intersection of San Pablo and Zuni Road and is undeveloped. Development to the north consists of single story buildings and pavement draining away from the site to the north. Development towards the east consists of a paved parking lot draining away from the site to the north. San Pablo Road and Zuni Road border the remaining two sides. Zuni Road is in a flood hazard zone AO and drains to the Fairgrounds Storm Drain System II.

Proposed Conditions

The site will impact the existing Fairgrounds drainage basin minimally and will drain from the site towards San Pablo. In San Pablo the road drains towards Central Ave. and is collected in the Fairgrounds System. The site will surface flow towards San Pablo and free discharge from the site.

Rational Method

Discharge Q = C I A
Rtes = Rainfall Intensity (DPM Plate 22.2 D-1)
A = (102.00' x 101.98') = 12,925.97 SF = 0.2967 ac
I = Rtes(5.84) Ic** = (0.51) = 2.63 inches/hour
Tc = 10 Minutes (minimum)
C = Varies

Volume V = C Ic(60) A (0.083)

All variables listed above.

Existing Drainage Conditions

Total Area = 12,925.97 SF = 0.2967 Acres
A(imp) = Impervious Area = 0 %
C = 0.90
Q(100) = (0.90)(2.63)(0.2967) = 0.55 cfs
V(100) = (0.90)(2.0)(0.083)(12,925.97) = 947.53 cf

Developed Drainage Conditions

Total Area = 12,925.97 SF = 0.2967 Acres
A(imp) = 12,190 SF = 94 %
C = Roof Area 2544 SF x 0.90 = 2289.60
Landscape 722 SF x 0.25 = 181.25
Driver 9656 SF x 0.95 = 9173.49
Total 12,922.84 / 12925.97
= 0.90
Q(100) = (0.90)(2.63)(0.2967) = 1.24 cfs
V(100) = (0.90)(2.0)(12,925.97)(0.083) = 2131.93 cf

RECEIVED AUG 07 1986 HYDROLOGY SECTION

Revised 7/24/86 860061

ENGINEERS SEAL	TITLE: FINAL GRADING & DRAINAGE PLAN FAT RUBEN'S PAINT & BODY SHOP					
	APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
	CITY ENGR.					
	A.C.E. DESIGN					
	A.C.E. HYD.					
	A.M.A.F.C.A.					
	DRAWING NO.		MAP NO. K-19	SHEET	OF 1	1

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CITY OF ALBUQUERQUE
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D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D