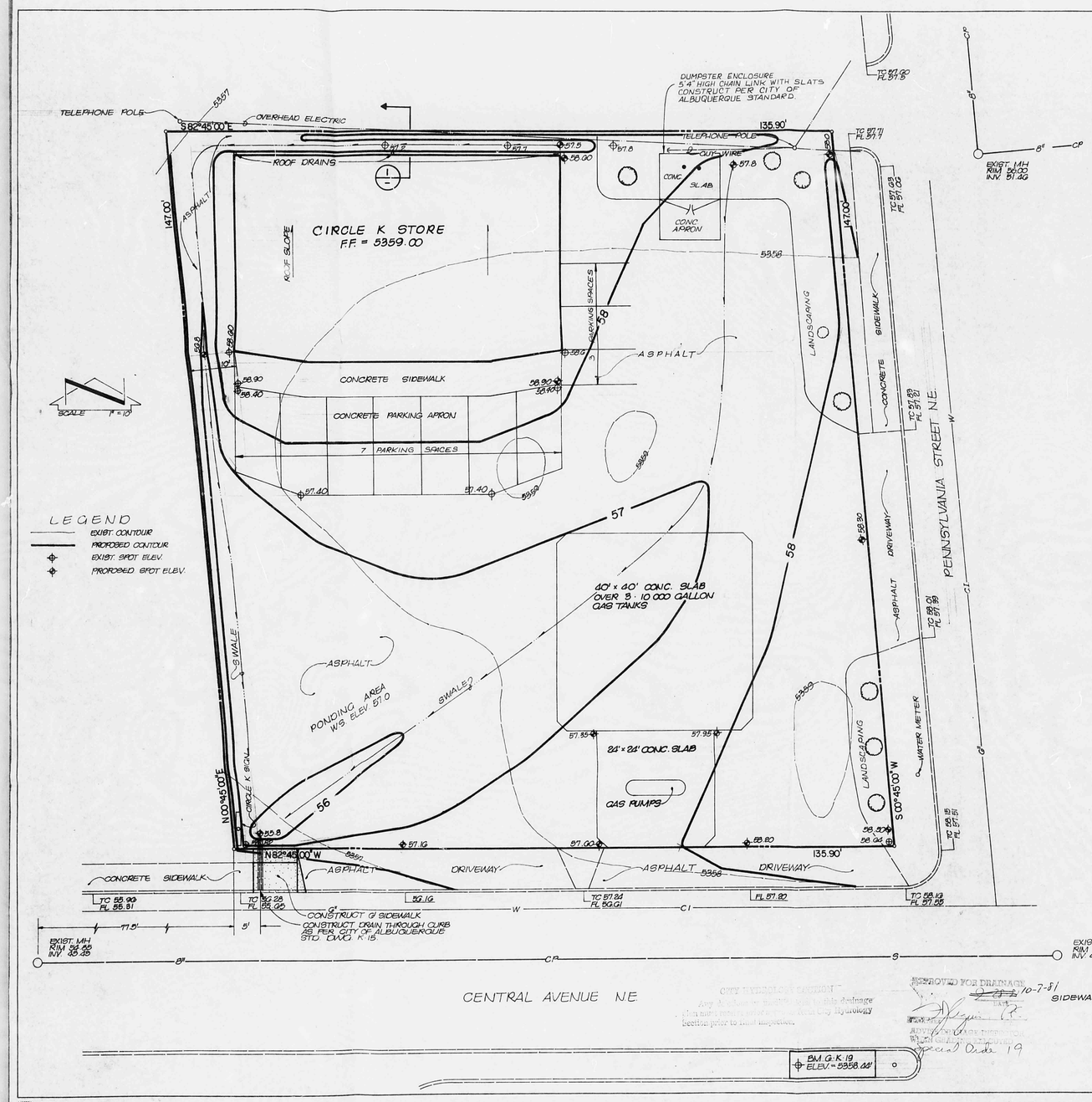
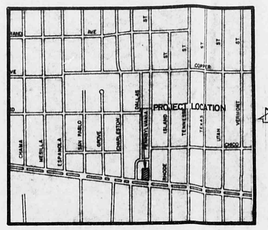
HYDROLOGY K19/D12 1 PLAN

K19/D12

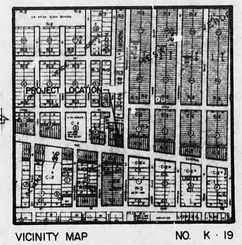
1 Plan

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





FLOOD HAZARD MAP NO. 6



VICINITY MAP NO. K - 19

DESCRIPTION

LOTS 1,2,3,4 & 5 OF
CAVALIER ADDITION AS
FILED ON JUNE 18, 1953.

DRAINAGE PLAN

The following items concerning the Circle K Drainage Plan are contained hereon:

1. Vicinity Map
2. Flood Hazard Map
3. Grading Plan
4. Calculations

The proposed building is located at the northwest corner of the intersection of Pennsylvania Street N.E. and Central Avenue N.E. This building will be used as a convenience food store and filling station with associated parking.

The land falls very slightly from east to west. Pennsylvania Street is on the east side of the project and is slightly higher than the project site. Central Avenue is along the south side of the project and parallels the project site. The land to the north of the project site parallels the site while the site is higher than the land to the west. A review of the master drainage plan indicates that portions of Pennsylvania and Central flood during the 100-year frequency storm. It is estimated that the elevation of the water during that storm is approximately 5358, therefore, the finished floor elevation of the store was established at 5359 which is one foot above the 100-year frequency storm. Any waters that enter the site would be conveyed through a swale to the southwest corner of the site where they would again exit onto Central Avenue. These offsite flows do not pose a problem. The project (1) does lie adjacent to a flood plain, (2) does not lie adjacent to a natural or artificial water course and (3) has no drainage easements on the property.

The Grading Plan shows (1) existing contours at 1'0" intervals, (2) proposed grades indicated by spot elevations and contours, (3) swales, (4) continuity between proposed and existing elevations, (5) that sidewalks are adjacent to the curb, (6) that all runoff will be conveyed into a pond before leaving the site, (7) that retaining walls will not be required and (8) that erosion will not result from upland runoff or the proposed construction activities.

CALCULATIONS

Area = 0.4557 ac = 19849 sf

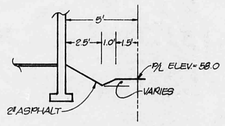
Composite C_N = 79(0.07) + 98(0.93) = 97

% ponding from Farmington Plate 4 = 56%

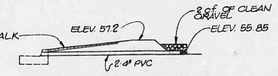
Required pond volume = 19.849(0.56)2.5÷12 = 2314 cf

Q_5 = cia = (0.4)5.4(0.46) = 0.99 cfs

From Cameron
$Q = 19.636(0.6)(4)^2\sqrt{1} \div (60 \times 7.5) = 0.43$ cfs
Use 2-4" PVC



SECTION 1
Scale: 1/4"=1'-0"



SECTION 2
Scale: 1" = 5'-0"

APPROVED FOR DRAINAGE
10-7-81
CITY HYDROLOGY SECTION
Any [illegible] drainage [illegible] Hydrology Section prior to final inspection.

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

JOB NO. 1-088

AS BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTORS ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS	
CITY OF ALBUQUERQUE BRASS CAP 6 K 19	
LOCATED AT PENNSYLVANIA & CENTRAL, N.E.	
ELEV.=5358.44	

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

REFERENCES		
MAP NO. K - 19		
EST. NO.	W.O. NO.	

NO.	DATE	REMARKS	BY

RICHARD J. DONOVAN & ASSOCIATES, INC.
811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87108
ENGINEERS

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
JOHN T. HILL
No. 5698
LAND SURVEYOR
9/24/81

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: CIRCLE K DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO. SHEET OF

THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D