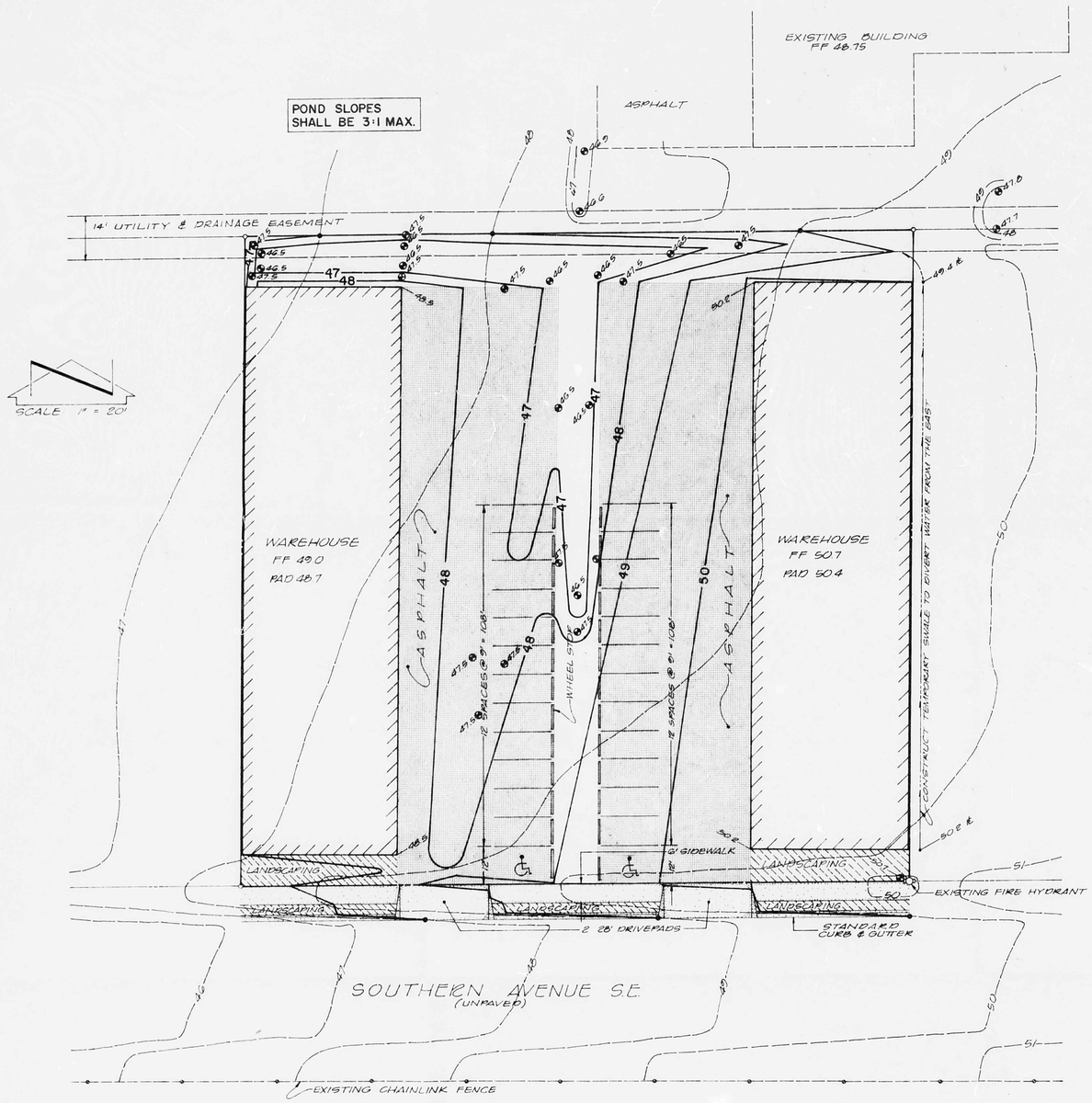
HYDROLOGY

L20/D2
ONE PLAN

L 20/ D2

1 PLAN



DRAINAGE PLAN

The following items concerning the Warehouses for F&S Enterprizes Drainage Plan are contained hereon:

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

The site, being lots 6 and 7, block 54A of Skyline Heights, is located north of Southern Avenue between Garcia Street and Conchas Street (see Vicinity Map below). There will be two buildings constructed on the site, each building being a one-story warehouse complex. Parking facilities and circulation space will be provided between the buildings.

The natural slope of the land is from the southeast to the northwest at approximately 1.2 percent. The project does not lie adjacent to a natural or artificial watercourse and has no drainage easements on the property. The site does not lie in a flood hazard zone, as indicated by the Flood Hazard Map (see below).

The surrounding property is undeveloped, except for an existing warehouse structure located north of lot seven. Runoff from this development is conveyed west and does not contribute flow to the project site. Southern Avenue, which is a graded dirt road intercepts flows from the south and conveys the runoff westward. The property to the east contributes runoff onto the project site, which is conveyed across the property in the form of sheet flow. Erosion will not result from upland runoff, or from the proposed construction activities. This development will not block any drainage from adjacent properties.

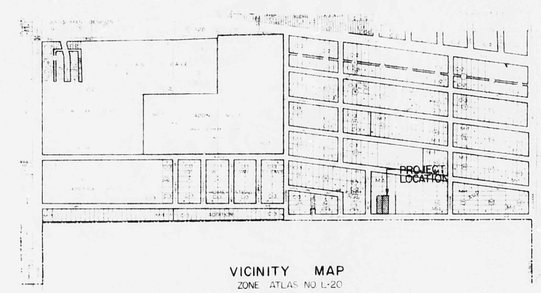
The grading plan shows 1) existing contours at 1' intervals, 2) proposed contours, 3) swales, 4) continuity between existing and proposed contours, 5) spot elevations and 6) that the runoff will be conveyed into ponding areas before leaving the site.

The pond will retain 100 percent of the excess runoff from the existing and proposed impervious areas that results from a 100 year frequency storm. The ponding is less than 18 inches deep and therefore does not require fencing.

CALCULATIONS

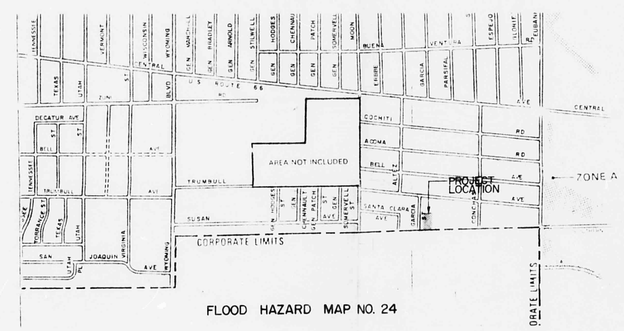
Impervious Area Draining into the Pond = 35,600 sq. ft.
Required Pond Volume = 35,600 x 0.1 = 3,560 cu. ft.
Pond Volume (calculated by average end method):
Contour 46.5: 4.65 sq. in. x 400 sq. ft./sq. in. = 1860 sq. ft.
Contour 47.0: 8.10 sq. in. x 400 sq. ft./sq. in. = 3240 sq. ft.
Contour 47.5: 15.60 sq. in. x 400 sq. ft./sq. in. = 6240 sq. ft.

$$\text{Volume} = \frac{1}{2}\left[\left(\frac{1860 + 3240}{2}\right) + \left(\frac{3240 + 6240}{2}\right)\right] = 3{,}650 \text{ cu. ft.}$$



VICINITY MAP
ZONE ATLAS NO L-20

NO SCALE



FLOOD HAZARD MAP NO. 24

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
AS BUILT DATA VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

CITY OF ALBUQUERQUE BRASS CAP NO 5-K20
LOCATED IN THE ENE CURB RETURN AT THE INTERSECTION OF MOON STREET NE AND CENTRAL AVENUE NE ELEVATION = 5427.362

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		
DESIGNED BY	S.C.	DATE 5/79
DRAWN BY	JW	DATE 5/79
CHECKED BY	T.M.	DATE 5/79

Conditionally APPROVED FOR DRAINAGE
5/17/79
DATE
Bruce Campbell
DIVISION CHIEF
CONTINGENCIES Subject to the provision of a paved swale in the easement from the WR to Garcia St

JOB NO. 9-39

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: WAREHOUSES FOR F & W ENTERPRIZES
GRADING AND 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 1 OF 1

L20/D2