HYDROLOGY K14/D33 1 PLAN

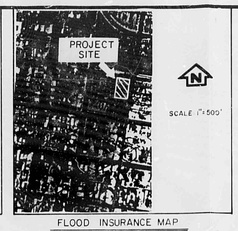
K14/D33

1 Plan

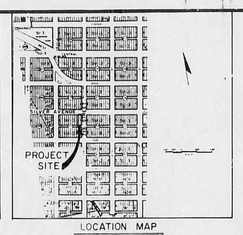
D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

SOILS MAP
SOURCE: SCS SOILS SURVEY SHEET 30



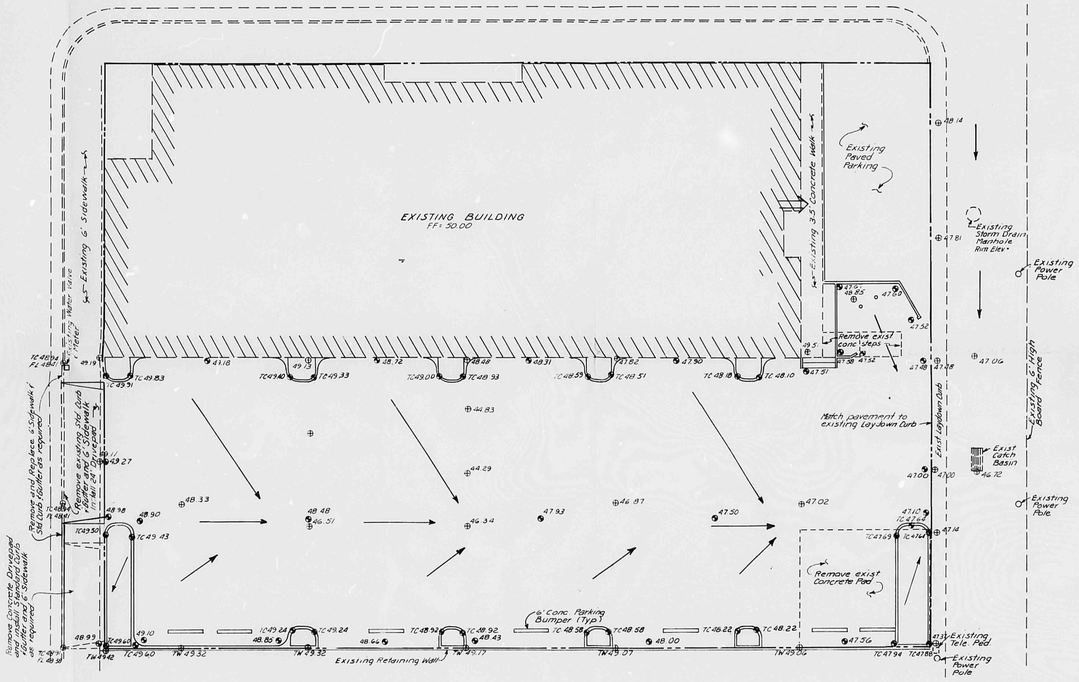
FLOOD INSURANCE MAP
SOURCE: FLOODWAY MAP SHEET 28



LOCATION MAP
ZONE ATLAS MAP K-14-Z

LEGAL DESCRIPTION

LOTS NUMBERED THREE (3) AND FOUR (4) IN BLOCK NUMBERED THIRTY-FIVE (35) OF NEW MEXICO TOWN COMPANY ORIGINAL TOWNSITE, AN ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID ADDITION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON DECEMBER 29, 1882.



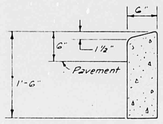
GRADING NOTES:

Disclaimer: These notes are not based on a geotechnical report, they are based on similar previous projects. Contractor is responsible for field testing and notifying owner of any abnormal results.

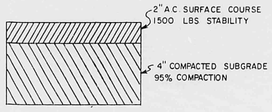
1. Grading operations shall be performed in a manner which meets all current City, State and Federal dust control regulations.
2. Prior to grading, the existing surface to be graded shall be stripped of organic matter. These strippings may be placed in landscaped areas. All other areas shall remain undisturbed.
3. After the surface to receive fill has been exposed, cleaned as appropriate, the resulting surface shall be scarified to a depth of 8 inches and recompacted as for compacted fill.
4. No frozen material shall be placed in fill.
5. All material placed in fill shall have been excavated from an approved borrow area.
6. Do not puddle or jet backfill.
7. Fill material shall be placed in horizontal layers not to exceed 8 inches, watered as necessary, and compacted to a density of not less than 95% of maximum dry density for pavement and 90% of maximum dry density for landscaped areas.
8. Slopes shall not exceed 3:1 (horizontal-vertical) throughout the site.
9. Grading tolerances shall be ± .10' in all parking and landscaped areas.

LEGEND

- PROPERTY LINE
- EXISTING CURB & GUTTER
- PROPOSED CURB
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF DRAINAGE FLOW
- ROOF DRAIN
- TW49.32 EXISTING TOP OF WALL ELEVATION
- TC49.60 PROPOSED TOP OF CURB ELEVATION



HEADER CURB
SCALE 1"=1'



PAVEMENT DETAIL.
NOT TO SCALE

DRAINAGE PLAN
FOR
DOWNTOWN JOURNAL
BUILDING PARKING LOT

PURPOSE

The purpose of this report is to outline the drainage plan for the development of a 0.16 acre parking lot. Chapter 22 of the Development Process Manual (DPM) has been used to develop this plan.

SITE LOCATION AND DESCRIPTION

The Journal Center building is located on the southwest corner of 7th and Silver Streets. The proposed parking lot is located on the west side of the building and is currently a dirt area.

At this time, the dirt lot drains to a catch basin located in an alley which runs along the southern border of the site. No previous drainage report exists which covers this area.

EXISTING CONDITIONS

The peak flow rate for the existing drainage basin, which includes the entire lot, was determined by the application of the Rational Method. The time of concentration was calculated to be less than ten minutes, therefore, ten minutes was used in all calculations. Rainfall intensities were determined by applying Plates 22.2 D-1 and 22.2 D-2 of the DPM.

The following flow rates were calculated for the basin in its present condition:

Area (Acre)	% Impervious	"C" Factor	Intensity 10 yr	(in/hr) 100 yr	Flowrate (cfs) 10 yr	100 yr
.163	0	.40	3.06	4.65	.20	.30

PROPOSED CONDITIONS

The peak flow rate for the proposed drainage basin under proposed conditions were determined in the same manner as flow rates for the undeveloped basin. The following flowrates were calculated for the basin under proposed conditions:

Area (Acre)	% Impervious	"C" Factor	Intensity 10 yr	(in/hr) 100 yr	Flowrate (cfs) 10 yr	100 yr
.163	96	.95	3.06	4.65	.47	.72

Flows from the parking area will continue to discharge to the catch basin in the alley directly south of the site. No additional runoff from the roof is included since it drains to the south. Comparing the existing flow rates with the proposed values, there will be a small increase in runoff flow added to the alley due to the development of the parking area so the impact is minimal.

SUMMARY AND CONCLUSIONS

Hydrologic analysis of the 0.16 acre undeveloped lot located due west of an existing building on the southwest corner of 7th and Silver led to the following conclusions:

- On-site grading for the new parking area will provide for convenience of flows to the alley.
- The construction of the new parking area will result in a minor increase in the runoff discharged to the alley.
- The drainage pattern for the areas on and near the proposed site will not be altered. They will continue to flow as in their present state.

APPROVED FOR DRAINAGE
7/10/86
DATE
Roger D. Green PE Hydrology
SIGNATURE TITLE

RECEIVED
JUN 19 1986
HYDROLOGY SECTION

BENCH MARK

Description: Station is located downtown Albuquerque at 6th St. and Copper Ave., N.W. in the SW quadrant of the intersection. Station is 12.0 ft. south of the back of curb of Copper Ave. and 10.5 ft. west of the back of curb on 6th St., 2.0 ft. northeast of the northeast corner of the building. Station is a standard City of Albuquerque disk set in a drilled hole in the side walk. Station is marked "1-K14 ACS". An underground mark is about 3.0 ft. below the ground.

No.	Date	Revision	By

DOWNTOWN JOURNAL BUILDING PARKING LOT
SILVER AVENUE & 7TH STREET

DRAINAGE/GRADING PLAN

Project No.
Seal
DAVID B. THOMPSON NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 7-10-86

Job No. 6218I | Sheet 1 Of 1
Drawn By LAD | Date 6/86
Checked By DBT | Scale 1"=10'

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

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