HYDROLOGY

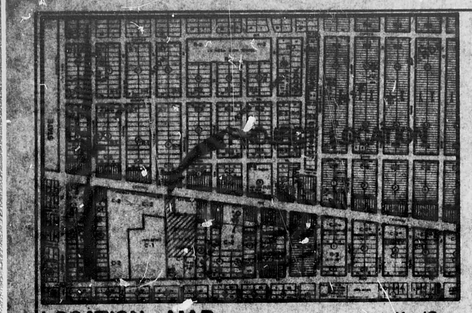
K19/D46

ONE PLAN

1 PLAN FOR

NATIONAL SELF STORAGE

K19-D46



LOCATION MAP K-19

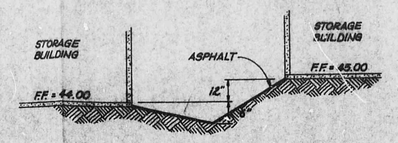
SCALE : 1" = 600'

BENCH MARK

[illegible]

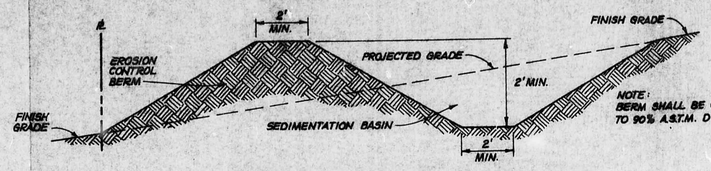
LEGAL DESCRIPTION

PLAT OF TRACTS X AND Z , SHAW ADDITION, NOW COMPRISING TRACTS X-1, Z-1 & Z-2, SHAW ADDITION, SITUATE WITHIN SECTION 19, TOWNSHIP 10 NORTH, RANGE 4 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.



SECTION A-A

NO SCALE



TEMPORARY EROSION CONTROL BERM

NO SCALE

SCALE : 1" = 40'

0 10 20 40 80

DRAINAGE AND GRADING PLAN

This Drainage and Grading Plan shows 1)existing and proposed elevations indicated by spot elevations and contours at 1'-0" intervals; 2)continuity between existing an proposed elevations; 3)proposed buildings,parking areas,and landscaped areas; and 4)drainage patterns and concepts.

The proposed improvements are located on Central Ave. S.E. just west of San Pablo St. S.E. The site is more particularly described as Tract 'X' of the Replat of Tracts 'A-1' and 'B', Shaw Addition, Now Comprising Tracts 'X,Y and Z', Shaw Addition. At present the site is developed with several buildings and asphalt parking and storage areas. The site previously served as a mobile home sales outlet.

As shown by Plate K-19 of the Albuquerque Master Drainage Study Volume II, the northern boundary of the site is inundated by the 100-year flood hazard area due to flooding in Central Ave. However, the recent completion of the Fairgrounds Storm Water Relief System has removed the site from the flood hazard area. No off-site flows enter the site.

As shown by the plan, storm runoff will be routed overland via swales to the discharge point at Central Ave. All storm water generated by this development will be accepted by the Fairgrounds Storm Water Relief System which was designed to drain the 4-hour design storm from Central Ave. The first of a series of inlets is located within 100 feet of the northwest corner of the site. The proposed development discharges approximately 16.7 cfs (Q100) into the system. This represents only a 1.9 cfs increase over the discharge from the existing site. Due to the minimal increase in excess runoff and the proximity of the Fairgrounds Storm Water Relief System, a free discharge of storm water was approved by City Hydrology.

Erosion will not result due to this development as all exposed soil will ultimately be landscaped. Temporary erosion control during the construction phase will consist of a ditch-dike system placed along the south and west boundaries of the site. This erosion control system is intended to limit the transport of sediment downstream and shall be in place until completion of all paving improvements.

The calculations which appear below analyze the existing and developed site conditions for the 100yr-6hr and 10yr-6hr design storms falling over the site. The Rational Method of estimating storm runoff was utilized as outlined in the Development Process Manual, Volume II, Chapter 22.

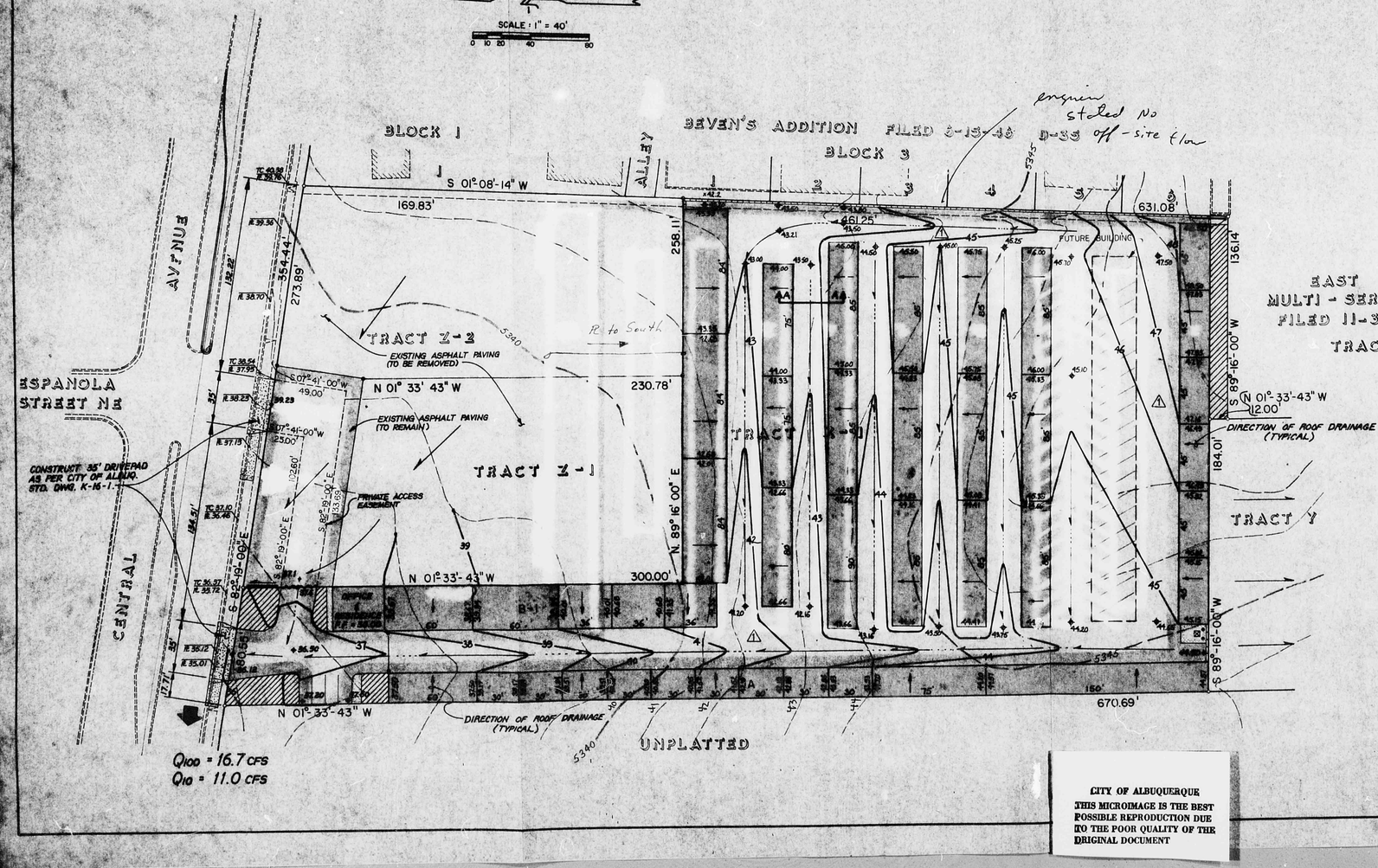
CALCULATIONS

1. DESIGN CRITERIA
   P100=2.35 IN. P10=1.54 IN.
   Tc=0.0078L*0.77/S*0.385
   i=P6.84Tc*(-0.51)
   Q=CiA
   VOLUME=PCA
   SOIL: MADUREZ WINK ASSOCIATION - SOIL GROUP 'B'

2. EXISTING CONDITION
   A=3.5 ACRES
   C=0.84
   Tc=10 MIN.
   i100=4.97 IN/HR i10=3.26 IN/HR
   Q100=14.9 CFS Q10=9.8 CFS
   V100=25680 CF V10=16870 CF

3. DEVELOPED CONDITION
   AREA=3.5 ACRES
   C=0.96
   Tc=10 MIN.
   i100=4.97 IN/HR i10=3.26 IN/HR
   Q100=16.7 CFS Q10=11.0 CFS
   V100=28660 CF V10=18830 CF

engineer stated No off-site flow



Property Address : 7440 Central Ave. S.E.

LEGEND

	EXISTING CONTOUR		EXISTING SANITARY SEWER
	PROPOSED CONTOUR		EXISTING WATER LINE
	EXISTING SPOT ELEVATION		EXISTING GAS LINE
	PROPOSED SPOT ELEVATION		EXISTING UNDERGROUND ELECT.
	EXISTING TOP OF CURB & FLOWLINE ELEVATIONS		PROPOSED BUILDING
	DIRECTION OF FLOW		PROPERTY LINE
	EXISTING BLOCK WALL		NEW BLOCK WALL
	NEW CONCRETE		ASPHALT PAVING
	WATER STOP		LANDSCAPED AREA

RECEIVED JUL 26 1985 HYDROLOGY SECTION

NO.	REVISIONS	BY	DATE
	REVISED GRADING TO REFLECT PLAN REVISIONS	PWC	7/25/85

NATIONAL SELF STORAGE
DRAINAGE & GRADING PLAN

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PHONE (505) 255-1625

DESIGNED BY D.A.L. DATE SEPT. 1984
DRAWN BY R.D. FB
CHECKED BY D.A.L. JOB NO. 5479-02
APPROVED BY

SHEET NO. 4 OF 4 SHEETS

K19 / D46

CITY OF ALBUQUERQUE
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