HYDROLOGY G19/D1 1 PLAN

G19/D1

1 PLAN

A DRAINAGE REPORT

FOR THE

ALBUQUERQUE FEDERAL SAVINGS & LOAN BRANCH

Located At

Hendrix and Wyoming, NE

Albuquerque, New Mexico

STATE OF NEW MEXICO
WILLIAM W. ELLISON
NO. 77
ALBUQUERQUE, N. M.
REGISTERED ARCHITECT

GRADING PLAN BY:

WM. W. ELLISON AND ASSOCIATES ARCHITECTS

TOPOGRAPHIC MAPS BY

CHAMBERS, CAMPBELL, ISAACSON & CHAPLIN, INC.
dated 8/30/73 Portion of Lot 12 and 14 of the La Mirada Subdivision.

PREPARED BY: Roger Byrnes

ROGER BYRNES, NMPE NO. 3885

APPROVED FOR DRAINAGE

27 Nov 73

J Kubich ACE

PREFACE:

In this Report a study is made of the Site being developed for the Albuquerque Federal Savings and Loan Branch.

SCOPE:

As supported by the Topographic Map, Plot Plan and Calculations, this report deals with the analysis of the on-site drainage in compliance with current storm drainage practice. Inasmuch that the Site is protected by storm sewer collectors at the intersection of Wyoming and Hendrix Streets, no off site drainage will be considered.

This Project shall be developed in accordance with the Provisions of this Drainage Report.

APPROVED:

AMAFCA _____ 11-27-73
John B. Robert — Date

for _____ 27 Nov 73
City Engineer — Date

CALCULATIONS:

A. Storm Frequency 100 years

Runoff Coefficient C

Pavement C_p .95

Sandy Soil C_s .25 (City will allow C_s = .35)

ΔC = .70

B. Q = Runoff in cfs

A = Area of water shed in acres (.805 acres) 35,083 sq. ft.

I = Intensity of rainfall in inches per hour.
Pg. 144 Drainage Handbook

I = 180/Tc + 25 = 180/10.5 + 25 = 5.3239

C. Runoff from Unimproved Site:

Q = ACI

= (.8053)(.25)(5.3239)

Q = 1.0717 cfs

D. Runoff from Improved Site:

A = 35,083 sq. ft. - 6,437. sq. ft.

$= \frac{28,646 \text{ ft.}^2}{43,560} = .657$ acres

Q = (.657)(.95)(5.324) = 3.322 cfs

E. Amount to be Detained:

D - C = 3.32 - 1.07 = 2.25 cfs

CALCULATIONS: Continued

F. Restrict flow of onsite drainage by under sidewalk drain at

Size 6" deep x 24" wide

Table 6-1 Pg. 227 Drainage Handbook

2.4 cfs $\approx$ 2.25

G. Ponding Required:

$Vr = I \times A \times \Delta C$

Where;

I =

A = Area in ft.^{2}

=

$\frac{2.3}{12} \times .657 \times 43,560 \times .70 = 3835.9$

Vr = 3,836. ft.^{3} required.

Provide 8" deep Ponding Area in Planters.

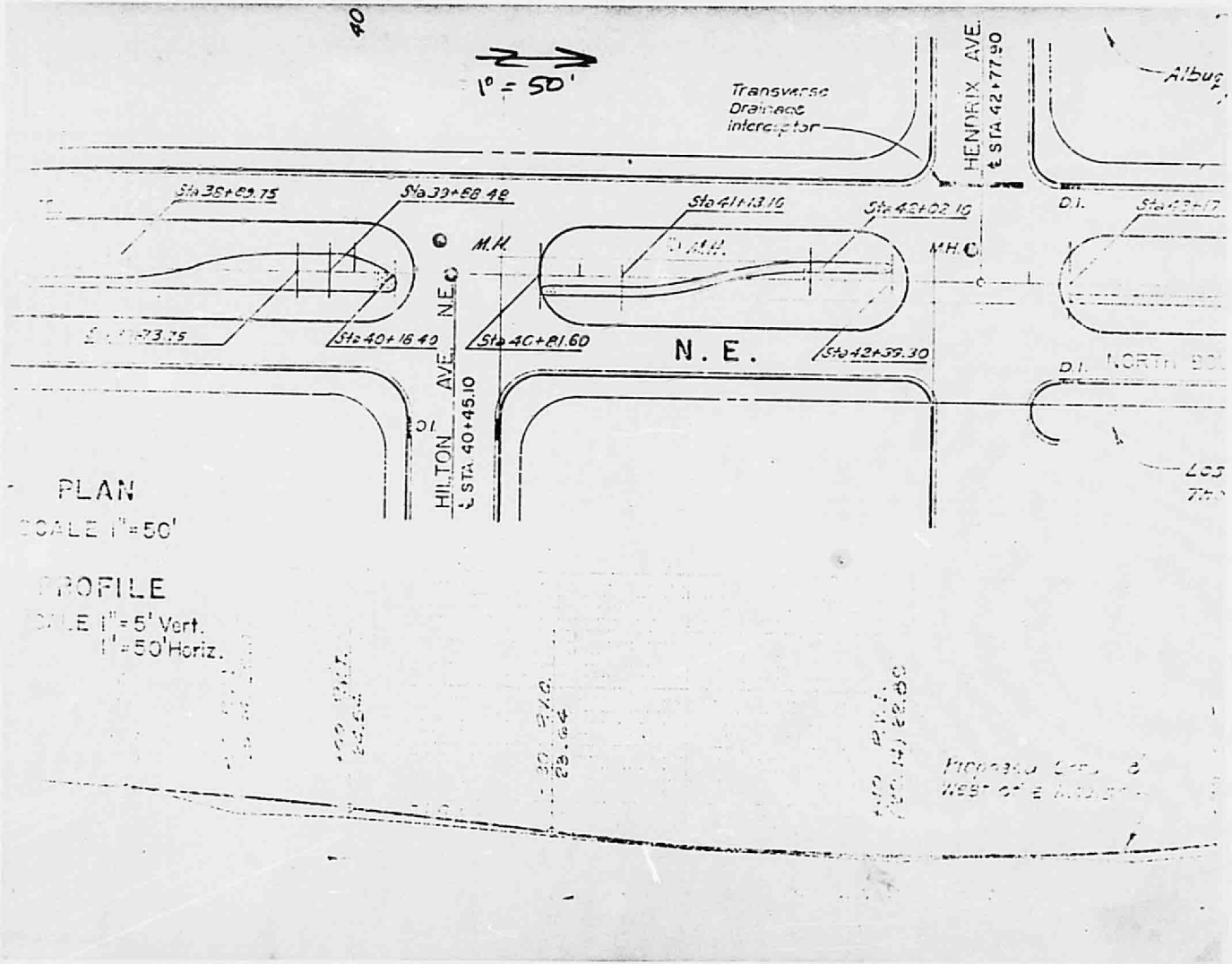
(.67)(6437) = 4312 Actual > 3,836. Required

CONCLUSIONS:

Onsite Drainage will be intercepted by the Planting-Ponding Areas and metered through an under sidewalk drain at the Northwest corner of the Property.

The rate of flow into the Storm Sewer collectors on Hendrix Street will not exceed that of the original runoff.

The capacity of the Planting-Ponding Areas will exceed the Ponding Area required by the improved project site.


40
1" = 50'
Transverse Drainage Interceptor
HENDRIX AVE.
℄ STA 42+77.90
Albuq
Sta 38+69.75
Sta 39+68.48
Sta 41+13.16
Sta 42+02.16
D.I.
M.H.
M.H.
M.H.
Sta 40+16.40
Sta 40+81.60
N. E.
Sta 42+59.30
HILTON AVE. N.E.
℄ STA. 40+45.10
D.I.
D.I.
PLAN
SCALE 1"=50'
PROFILE
SCALE 1"=5' Vert.
1"=50' Horiz.

DESCRIPTION OF A TRACT OF LAND IN THE LA MIRADA SUBDIVISION

That portion of lot 13 and lot 14, situate in the La Mirada Subdivision, Section 6, Township 10 North, Range 4 East, N.M.P.M. within the city limits of the City of Albuquerque, Bernalillo County, New Mexico. Being more particularly described as follows: Beginning at the southeast corner of the above mentioned subdivision, thence N89°58'10"W, a distance of 53.00 feet to the west right-of-way line of Wyoming Boulevard, N.E.; thence N00°25'50"W, a distance of 162.00 feet along said right-of-way to the True Point of Beginning; thence N00°25'50"W, 163.24 feet; thence along a curve to the left having a radius of 25 feet, arc length of 39.08 feet; thence N90°00'00"W, 50.19 feet; thence along a curve to the left having a radius of 115.14 feet, an arc length of 49.23 feet; thence S65°30'00"W, 84.52 feet; thence S00°25'50"E, 142.53 feet; thence S89°58'10"E, 200.00 feet to the True Point of Beginning, and containing 0.597 acres, more or less.

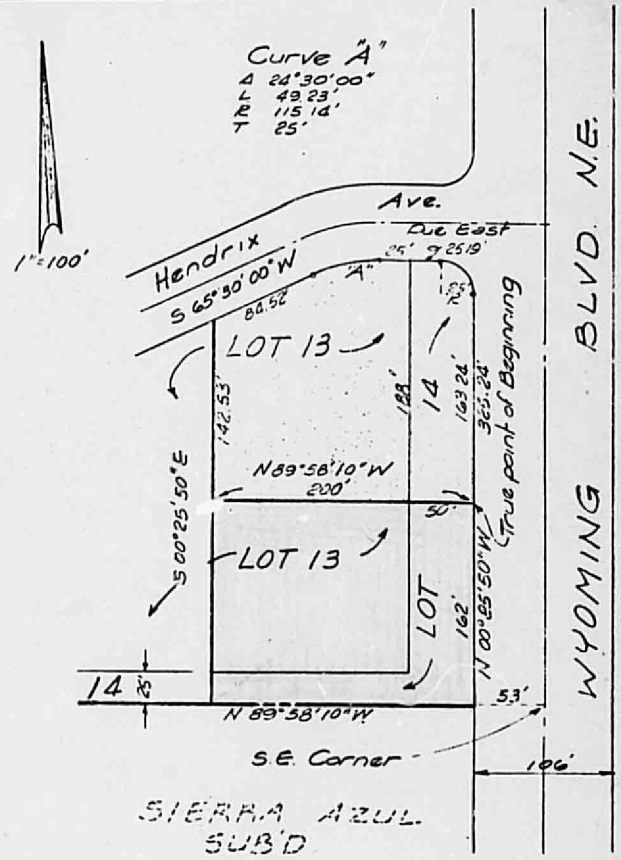
CERTIFICATION

This description has been obtained from record bearings and distances, is mathematically computed in part, and is not from an actual field survey.

Oct. 1, 1973
Date

Thomas O. Isaacson
N.M. P.E. & L.S.
#3895

Property Description for:
SAVING & LOAN ASSOC.
BUILDING



PLANNING DEPARTMENT
CITY OF ALBUQUERQUE

P. O. Box 1293
Zip Code: 87103
Telephone 842-7422

Date: 8-30-73
File: Z-73-127

Mr. Vance Mauney
520 Simms Bldg.
City 87102

The Planning Commission made this recommendation at its meeting of August 21, 1973

Findings:
1. The proposed zoning is compatible with the surrounding land use.
2. The traffic pattern on the site plan is to be revised to the satisfaction of the Traffic Engineer prior to obtaining signatures on the development plan.
3. Submission of a drainage plan satisfactory to the City Engineer and [illegible], filing of a land division plat delineating the subject parcels from the remainder of Tracts 13 & 14, and securing all required signatures on the development plan are required prior to issuance of building permits.

THEREFORE, BE IT RESOLVED THAT Z-73-127, subject to compliance with Items 2 & 3 above, be approved, changing the zoning from P-1 & O-1 to SU-1 (Special Use for a Savings & Loan Office).

Should you wish to appeal this decision, you may do so by _____ in the manner described below:

c. Appeals — Appeal of a decision by the Planning Commission may be submitted in writing to the City Commission . . .

If a written protest is signed by the owners of twenty per cent (20%) in area, either of the area of the lots or lands included in such proposed change, or of those immediately adjacent within one hundred (100) feet of the area proposed for change, disregarding public ways, such change to the Zone Map shall require the concurring vote of at least four (4) members of the City Commission.

(1) Written notice of appeal shall be filed with the Planning Director.

(2) Public notice of any appeal shall be given by legal advertisement in the newspaper [illegible] a change to the text of ordinances. The Planning Director shall [illegible] written notice of any appeal [illegible] notice of hearing [illegible] the [illegible] representative of signatures [illegible] appeal. The appeal shall be [illegible] the City Commission within [illegible] months after the date of [illegible] or [illegible] is presented to the City Commission [illegible] any request for delay of action [illegible] and be acted upon at a regular City Commission meeting.

TP:new

cc: M-M Co., 420 Simms Bldg., City 87102

Yours sincerely,

Theodore Pochter
Planner

Letter of Advice

Trustee
answer

Form for signature
at Clerks dept

12-7-73

UM

Ed Chapman
266-7711

11:35

WA