

Frederick S. Scott

Architect

717 Office Parkway
St. Louis, Mo. 63141
Phone 314-567-9000

September 23, 1981

243-1707

Mr. Eugene Mares
Planning Division
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: Albuquerque Bell Federal Credit Union
Albuquerque, New Mexico

Dear Mr. Mares:

On September 3, 1981 you signed an approved Redevelopment Plan of this project. Since that time revisions were required to satisfy specific drainage ordinances, and therefore, the documents were revised.

Enclosed for your signature, and signatures of the Traffic Engineer, City Engineer and AMAFCA, please find the revised document, along with the original document.

If there are any questions, please contact me at 314/567-9000.

Thank you for your cooperation.

Very truly yours,

Lynn A. Riley/pah
Lynn A. Riley

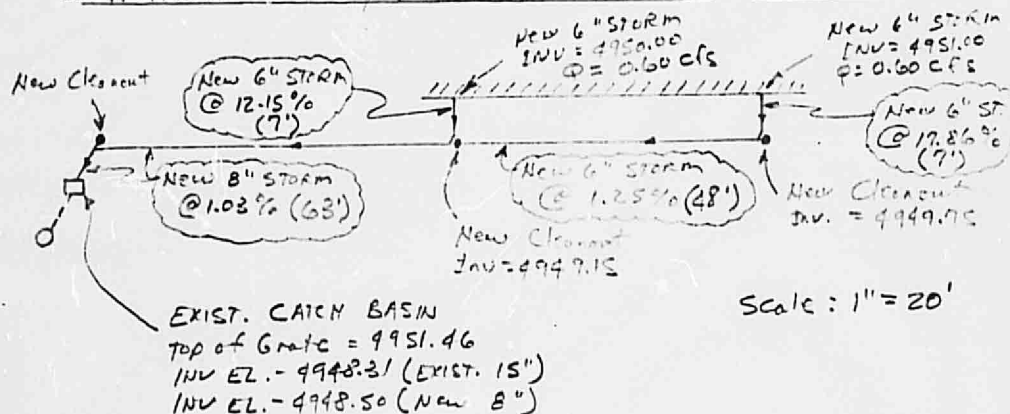
LAR/pah

Enc.

cc: Tom Ryan, Manager - Albuquerque Bell Federal Credit Union

CIVIL
STRUCTURAL ENGINEERING CALCULATIONS

JOB NO. 144 PROJECT Albuquerque NM. (Poll Fed.) SHEET NO. 1 of 2
BY William L. Ragsdale DATE 9/9/81



Total Building Roof Area = 11,296 S.F.
Each 6" Storm Line carries 5,648 S.F. = 0.13 Ac.
Use $C = 1.00$
 $I^* = 4.50 \text{ "/hr.}$
 $A = 0.13 \text{ Ac.}$
 $Q = 1.00 \times 4.50 \times 0.13 = 0.585$
Say $Q = 0.60 \text{ cfs}$
* I is base on a 10 year, 5 minute storm.

Minimum slope for 6" pipe running full ($Q=0.60 \text{ cfs}$):

$$Q = \frac{1.486}{n} \times R^{2/3} \times A \times S^{1/2} \rightarrow S = \left(\frac{Q \times n}{1.486 \times R^{2/3} \times A} \right)^2$$

$$n = 0.013$$

$$R = 0.125$$

$$R^{2/3} = 0.250$$

$$A = 0.196 \text{ SF.}$$

$$Q = 0.60 \text{ cfs}$$

$$S = \left[\frac{(0.60)(0.013)}{(1.486)(0.250)(0.196)} \right]^2 = 0.011475$$

$$\text{Min. Slope} = 1.15 \%$$

CIVIL
STRUCTURAL ENGINEERING CALCULATIONS

JOB NO. 124 PROJECT Albuquerque, N.M. (Bell Fed.) SHEET NO 2 of 2
BY William L. Ragsdale DATE 9/9/81

Minimum Slope for 8" pipe running full (Q = 1.20 cfs):

$$Q = \frac{1.486}{n} \times R^{7/2} \times A \times S^{1/2} \rightarrow S = \left(\frac{Q \times n}{1.486 \times R^{7/2} \times A} \right)^2$$

$$n = 0.013$$

$$R = 0.167$$

$$R^{7/2} = 0.303$$

$$A = 0.349 \text{ SF.}$$

$$Q = 1.20 \text{ cfs}$$

$$\left. \begin{array}{l} n = 0.013 \\ R = 0.167 \\ R^{7/2} = 0.303 \\ A = 0.349 \text{ SF.} \\ Q = 1.20 \text{ cfs} \end{array} \right\} S = \left[\frac{(1.20)(0.013)}{(1.486)(0.303)(0.349)} \right]^2 = 0.00986$$

$$\text{Min. Slope} = 0.99 \%$$

6" Pipe:

Minimum Slope allowed = 1.15 %

Minimum Slope used = 1.25 %

8" Pipe:

Minimum Slope allowed = 0.99 %

Minimum Slope used = 1.03 %

RECEIVED

MAY 4 - 1981

HBE Bank Facilities

CITY ENGINEER

Division of HBE Corporation, 717 Office Parkway, St. Louis, Missouri 63141, Phone (314) 567-9000

May 8, 1981

CC Fran

Richard S. Heller
City Engineer
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: ALBUQUERQUE BELL FEDERAL CREDIT UNION
ALBUQUERQUE, NEW MEXICO

Dear Mr. Heller:

We are enclosing one copy of a survey giving topographical features of the above noted project which is to be located at the intersection of Tijeras Avenue N.W. and North Sixth Street.

Please note the extent and types of development surfaces on the existing conditions survey in comparison with the proposed development. There is; as you can see, only a very small difference in the amount of impervious surface between the existing and proposed conditions.

A request is hereby made to waive the requirement for detention of storm water on this site.

Thank you for your consideration in this matter.

Sincerely,

HBE BANK FACILITIES

Robert R. Keyes
Executive Vice President

RRK/el

Enc:

cc: Ray Houston, Chairman of the Bldg Committee
Albuquerque Bell Federal Credit Union

Approved
Robert R. Keyes
5/14/81

RRK	<u>RRK</u>	ADM	_____
HBO	_____	SUR	_____
COS	_____	COUN	_____
DES	_____	SEC	_____
DRP	_____	FILE	_____
OTHER	_____	FILE	_____

D. and

ME