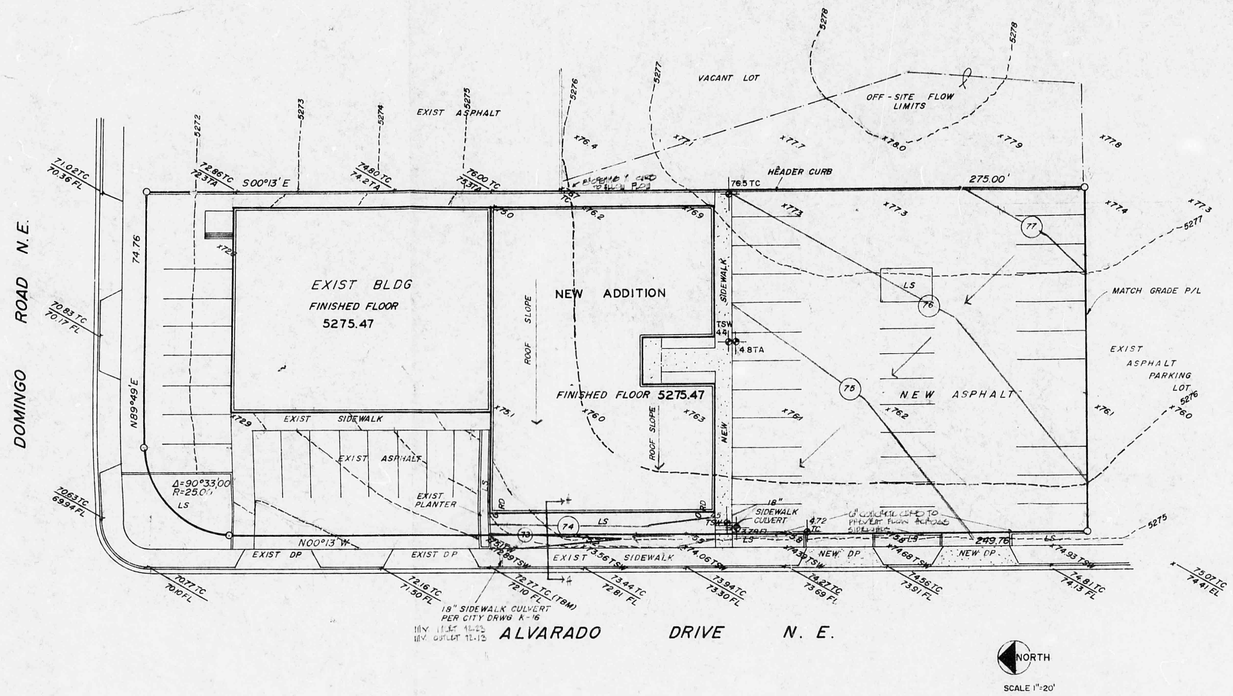
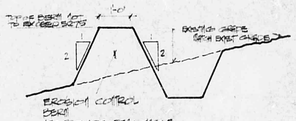
HYDROLOGY

K18/D33
TWO PLANS

K18-D33

2 PLANS

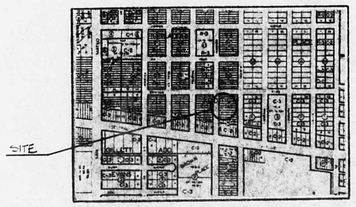




EROSION CONTROL PLAN

GRADING & DRAINAGE PLAN

SECTION A-A



VICINITY MAP 1" = 750'
ZONE ATLAS # K-18

REVISED 10/24/85

DRAINAGE CALCULATIONS

I. REFERENCES:

A. City of Albuquerque Development Process Manual (DPM) Vol. 2, Design Criteria, Chapter 22: Drainage, Flood Control, and Erosion Control.

B. Soil Survey of Bernalillo County and parts of Sandoval and Valencia Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service.

C. Flood Insurance Rate Map, City of Albuquerque, New Mexico, Bernalillo County, Panel 30 of 50.

II. GENERAL INFORMATION:

A. Soil Type (Ref. B, Page 31) Soil type is WeB (Wink Embudo Complex) Hydrologic Soil Group B.

B. Imperviousness:

Type of Surface	Existing Area Sq. Ft.	Existing Area / Acres	Proposed Area Sq. Ft.	Proposed Area / Acres
Building Roof	4500	0.103	9900	0.227
Concrete Surfaces	652	0.015	1152	0.026
Asphalt Surfaces	3950	0.091	13848	0.318
Landscaping	980	0.022	2462	0.057
Undeveloped Surface	17280	0.397	0.0	0.0
Site Total	27362	0.628	27362	0.628
Percent Impervious	33.3%		91.0%	

C. "C" Factor (See Ref. A, Plate 22.2 C-1)
1. Undeveloped "C" Factor = 0.49
2. Developed "C" Factor = 0.87

D. Rainfall, 100-year, 6-hour, R(6); (See Ref. A, Plate 22.2 D-1); R(6) = 2.30 inches.

E. Time of Concentration, Tc; Use 10 min. for calculation.

F. Rainfall intensity, I; (See Ref. A, Plate 22.2 D-2)
I = R(6) x 6.84 x Tc(-0.51)
= 2.30 x 6.84 x 10(-0.51)
= 4.86 in/hr

III. PEAK DISCHARGE:

A. Existing Conditions. (Use Rational Equation)
Q(100) = 0.49 x 4.86 x 0.63 = 1.50 cfs
Q(10) = 0.657 x 1.50 = 0.99 (Ref. A, Plate 22.2 D-1)

B. Developed Conditions.
Q(100) = 0.87 x 4.86 x 0.63 = 2.66 cfs
Q(10) = 0.657 x 2.66 = 1.75 cfs

IV. CONSTRUCTION NOTES:

1. Two (2) working days prior to any excavation, contractor must contact line locating service at 765-1234 for location of existing utilities.

2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.

3. All work on this project shall be performed in accordance with applicable Federal, State and Local laws, rules, and regulations concerning construction safety and health.

4. All construction within City Right-of-Way shall be performed in accordance with applicable City of Albuquerque standards and proceedures.

SYMBOL LEGEND

	Existing contour
	Proposed contour
	Existing spot elevation
	Proposed spot elevation
	Direction of flow
TC	Top of curb
TA	Top of asphalt
FL	Flowline
TSW	Top of sidewalk

RECEIVED NOV 08 1985 HYDROLOGY SECTION

LEGAL DESCRIPTION

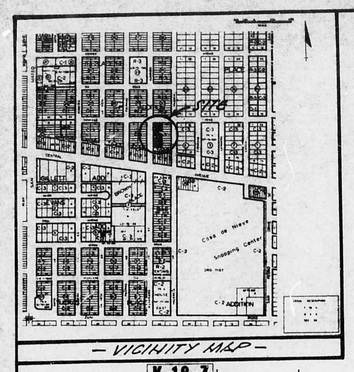
Lots 1 thru 11
Block 20
Tijeras Place Addition
Albuquerque, N.M.
Bernalillo County

GRADING AND DRAINAGE PLAN

U F C W BUILDING
130 ALVARADO N E
ALBUQUERQUE, NEW MEXICO

C-2

DRB No. 85-753
TAX CODE # 1-018-057-142-210-32608



— VICINITY MAP —

K-18-Z

TALOS LOG NUMBER
ZONE ATLAS INDEX NUMBER K-18-Z

APPROVED Richard Tomer 11.22.85
CITY OF ALBUQUERQUE/BERNALILLO COUNTY
PLANNING DEPARTMENT

PLAT NUMBER SP-85-490

APPROVED Rose Ellwell 11-19-85
PROPERTY MANAGEMENT

APPROVED Abdulla Tamayo 11-12-85
TRAFFIC ENGINEERING

APPROVED Frank J. Cayemi 11-20-85
CITY ENGINEERING

APPROVED Frank J. Cayemi 11-20-85
A.M.A.F.C.A.

APPROVED Martin Cobb 11/12/85
PARKS AND RECREATION DEPARTMENT

APPROVED Joe E. Fitzgerald 11/12/85
WATER RESOURCES DEPARTMENT

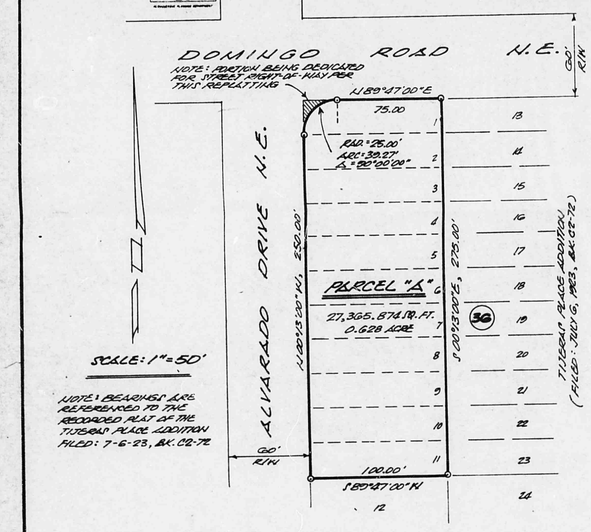
APPROVED 111685
CITY SURVEYOR

85 99893

PLAT SHOWING PARCEL "A"

(COMPRISING A REPLAT OF LOTS 1 THRU 11, INCLUSIVE)
BLOCK 36
TIJERAS PLACE ADDITION
ALBUQUERQUE, NEW MEXICO
OCTOBER, 1985

State of New Mexico } SS
County of Bernalillo
This instrument was filed for record
11:27 AM NOV 26 1985
At ... o'clock A.m. Recorded in Vol. ...
of records of said County Folio .....
..... Clerk & Recorder
..... Deputy Clerk



THE FOREGOING REPLAT OF THAT CERTAIN PARCEL OF LAND SITUATE WITHIN THE CITY LIMITS OF THE CITY OF ALBUQUERQUE, NEW MEXICO; BEING AND COMPRISING LOTS NUMBERED ONE (1) THROUGH ELEVEN (11), INCLUSIVE, IN BLOCK NUMBERED THIRTY-SIX (36), TIJERAS PLACE ADDITION, AN ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME ARE SHOWN AND DESIGNATED ON THE PLAT OF SAID ADDITION FILED IN THE OFFICE OF THE COUNTY CLLERK OF BERNALILLO COUNTY, NEW MEXICO, ON JULY 6, 1923, (BK. C2-72).

REPLATTED AND NOW BEING IDENTIFIED AS PARCEL LETTERED "A" IN BLOCK THIRTY-SIX (36), TIJERAS PLACE ADDITION, AN ADDITION TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, WITH THE FREE CONSENT OF, AND IN ACCORDANCE WITH THE WISHES AND DESIRES OF THE UNDERSIGNED OWNER(S) AND PROPRIETOR(S), THEREOF; SAID OWNER(S) AND PROPRIETOR(S) DO HEREBY DEDICATE TO THE CITY OF ALBUQUERQUE, NEW MEXICO, THE NORTH-WESTERLY PORTION OF LOT ONE (1) AS SHOWN ON THE PLAT HEREON FOR STREET RIGHT-OF-WAY.

James E. Cayer
JAMES E. CAYER

ACKNOWLEDGEMENT:

STATE OF NEW MEXICO,)
COUNTY OF Bernalillo) SS:

ON THIS 5 DAY OF November, 1985, BEFORE ME, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE, THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BY THE PERSON(S) DESCRIBED HEREIN, AND THAT SAID PERSON(S) ACKNOWLEDGED THE SAME AS THEIR OWN FREE ACT AND DEED.

Nancy Henry
NOTARY PUBLIC
MY COMMISSION EXPIRES: 11/29/86

SURVEYOR'S CERTIFICATION:

I, JOHN B. TORRES, NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR NO. 3221, LICENSED AND REGISTERED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR UNDER MY SUPERVISION AND DIRECTIONS, SHOWS ALL EASEMENTS OF RECORD, MEETS MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS OF THE ALBUQUERQUE SUBDIVISION ORDINANCE, AND IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DISCLOSURE NOTE:

THIS REPLAT WAS PREPARED FROM DATA SHOWN ON THE PLATS OF RECORD AS REFERRED TO ON THE MAP HEREON, NO ACTUAL ON THE GROUND FIELD SURVEY WORK WAS PERFORMED PER THIS REPLATTING.

JOHN B. TORRES, N.M.R.P.L.S. NO. 3221

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO
NO. 3221
JOHN B. TORRES

ACKNOWLEDGEMENT:

ON THIS 12th DAY OF October, 1985, BEFORE ME, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE, THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BY JOHN B. TORRES, N.M.R.P.L.S. NO. 3221, AS HIS OWN FREE ACT AND DEED.

NOTARY PUBLIC: _____ DATE: 12 Oct 1985

3 March 1987

NOTE: PRIOR TO DEVELOPMENT CITY OF ALBUQUERQUE WATER AND SANITARY SEWER SERVICE TO PARCEL "A" MUST BE VERIFIED AND COORDINATED WITH THE WATER UTILITIES DEPARTMENT, CITY OF ALBUQUERQUE VIA A REQUEST FOR A WATER AND SANITARY SEWER AVAILABILITY STATEMENT.