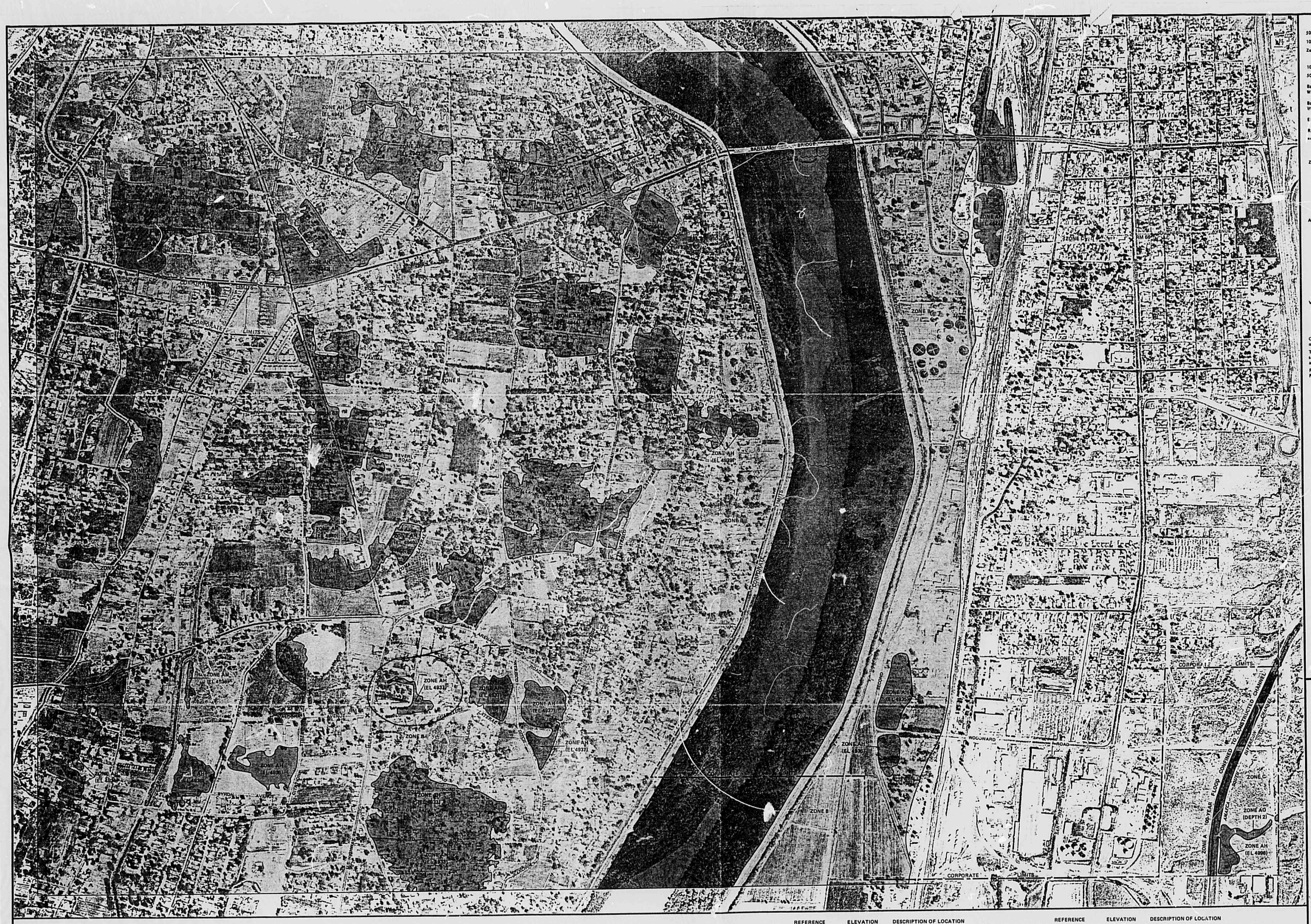
PUBLIC WORKS/HYDROLOGY 1 OF 2

M12/D5



KEY TO MAP

500-Year Flood Boundary	ZONE B
100-Year Flood Boundary	
Zone Designations*	
100-Year Flood Boundary	ZONE B
500-Year Flood Boundary	
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7×
River Mile	•M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

***EXPLANATION OF ZONE DESIGNATIONS**

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

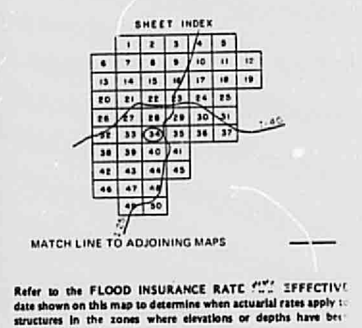
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
AUGUST 20, 1976
FLOOD HAZARD BOUNDARY MAP REVISIONS:
DECEMBER 4, 1979

FLOOD INSURANCE RATE MAP EFFECTIVE:



MATCH LINE TO ADJOINING MAPS

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6620.

N

SCALE 1"=500'
500 0 500

REFERENCE MARK	ELEVATION (FT. NGVD)	DESCRIPTION OF LOCATION
RM 63	4941.59	A "X" on the east bonnet bolt of a fire hydrant, located at the northeast quadrant of the intersection of Goff Blvd. and Bowe Ln., S.W.
RM 64	4936.90	A 60-penny nail in power pole No. 46, located at the intersection of Isleta Blvd. and Valdora Avenue, S.W.
RM 65	4938.12	A 60-penny nail in a power pole, located at the southeast quadrant of the intersection of La Vega Drive and La Vega Ct., S.W.
RM 66	4959.90	A square, ☒, chiseled on top of the concrete curb at the south-southwest curb return located at the intersection of Broadway Blvd. and Southern Avenue, S.E., in the southwest quadrant of the intersection.

NATIONAL FLOOD INSURANCE PROG

FIRM
FLOOD INSURANCE RATE MA

CITY OF
ALBUQUERQUE,
NEW MEXICO
BERNALILLO COUNTY

PANEL 34 OF 50

COMMUNITY-PANEL NUMB
350002 00
EFFECTIVE DAT

Federal Emergency Management Agen

PLANS/PLATS ON FILE

FILE DESC: ____________

M12/05

PLANS/PLATS 4

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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

R# 28 DATE 3-29-02 OP E.J.P.

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

4/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/02/02

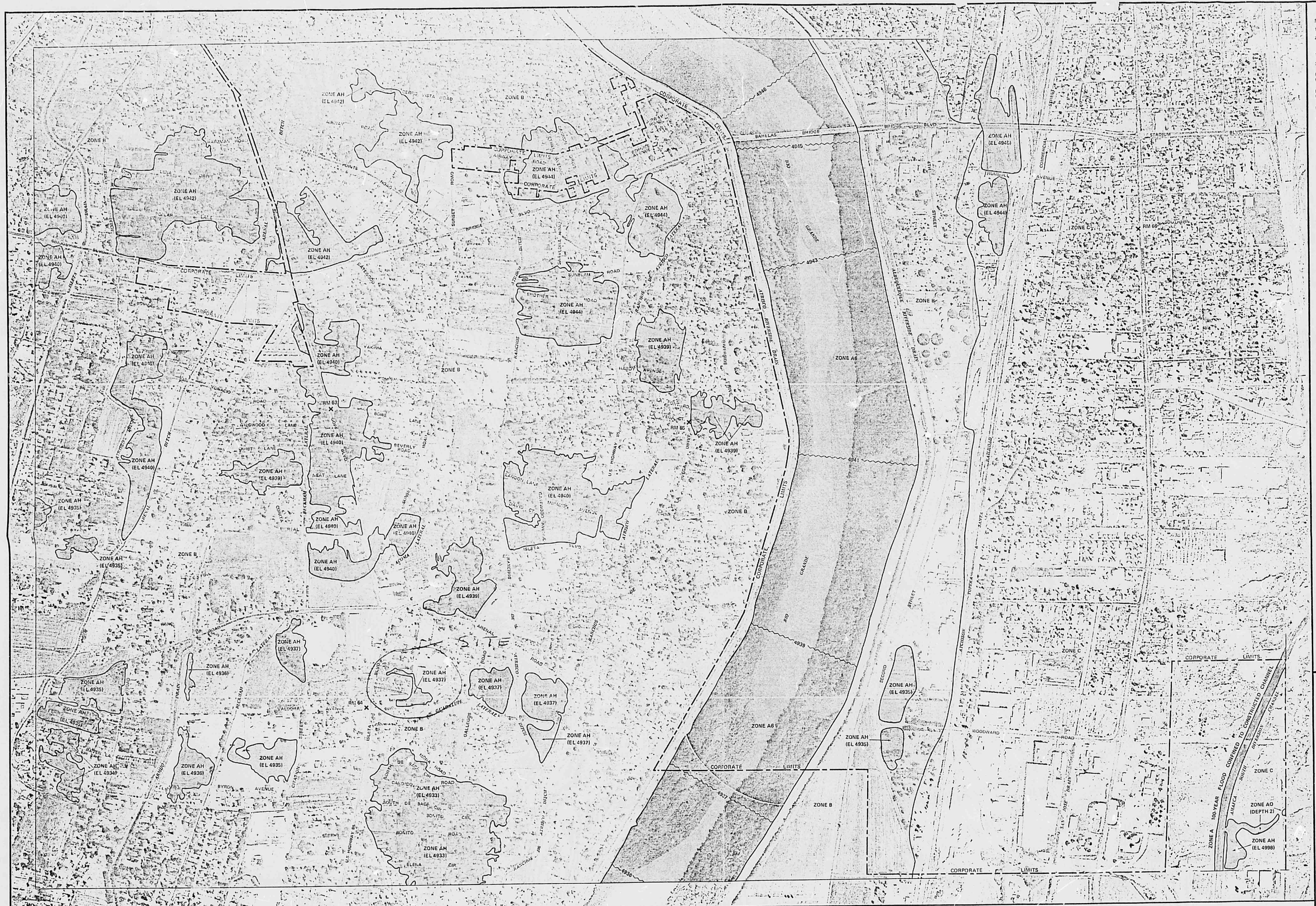
D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D

C C

B B

A A



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KEY TO MAP

500-Year Flood Boundary	ZONE B
100-Year Flood Boundary	
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100-Year Flood Boundary	ZONE B
500-Year Flood Boundary	
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Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7×
River Mile	•M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
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INITIAL IDENTIFICATION:
AUGUST 20, 1976
FLOOD HAZARD BOUNDARY MAP REVISIONS:
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FLOOD INSURANCE RATE MAP EFFECTIVE:

SHEET INDEX

MATCH LINE TO ADJOINING MAPS

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N

SCALE 1"=500'
500 0 500

NATIONAL FLOOD INSURANCE PROG

FIRM
FLOOD INSURANCE RATE M

CITY OF
ALBUQUERQUE,
NEW MEXICO
BERNALILLO COUNTY

PANEL 34 OF 50

COMMUNITY-PANEL NUM
350002 00
EFFECTIVE DAT

Federal Emergency Management Agen

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ORIGINAL DOCUMENT.

R# 28 DATE 3-27-02 OP E.J.P.

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

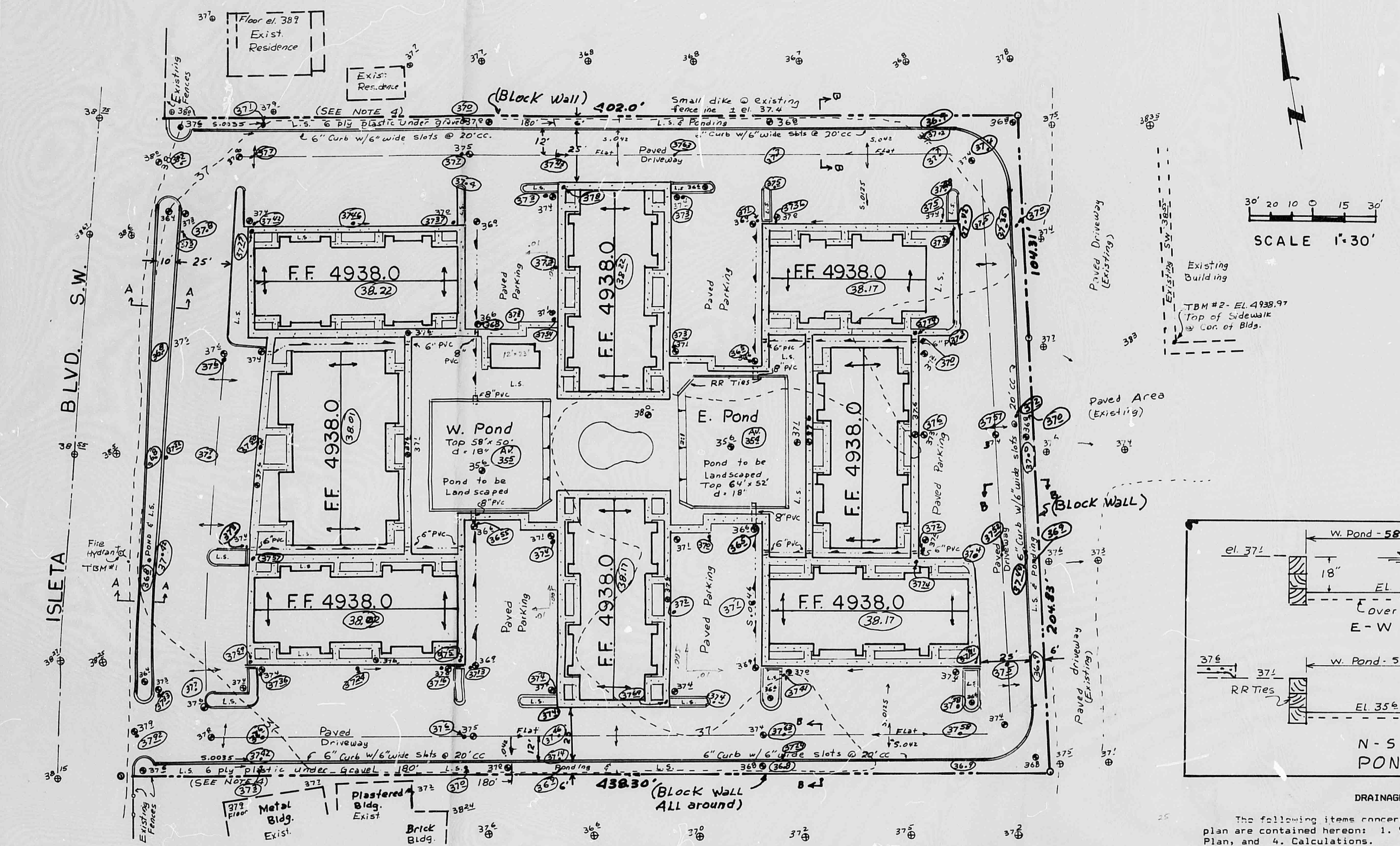
1/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/08/02

C20 B16 A12

CITY OF ALBUQERQUE C


ISLETA BLVD. S.W.
(Block Wall) 402.0'
(Block Wall)
438.30' (Block Wall All around)
F.F. 4938.0
W. Pond Top 58'x 50' d = 18"
Pond to be Land scaped
E. Pond
Pond to be Landscaped Top 64'x 52' d = 18"
Paved Parking
Paved Driveway
Small dike @ existing fence line ± el. 37.4
6" Curb w/6" wide slots @ 20' cc
L.S. 6 ply plastic under gravel
(SEE NOTE 4)
Floor el. 389 Exist. Residence
Exist. Residence
Existing Fences
Existing Building
TBM #2 - EL 4938.97 Top of Sidewalk at Cor. of Bldg.
Fire Hydrant TBM #1
Paved Area (Existing)
Paved Driveway (Existing)
Metal Bldg. Exist.
Plastered Bldg. Exist
Brick Bldg. Exist.
SCALE 1"=30'

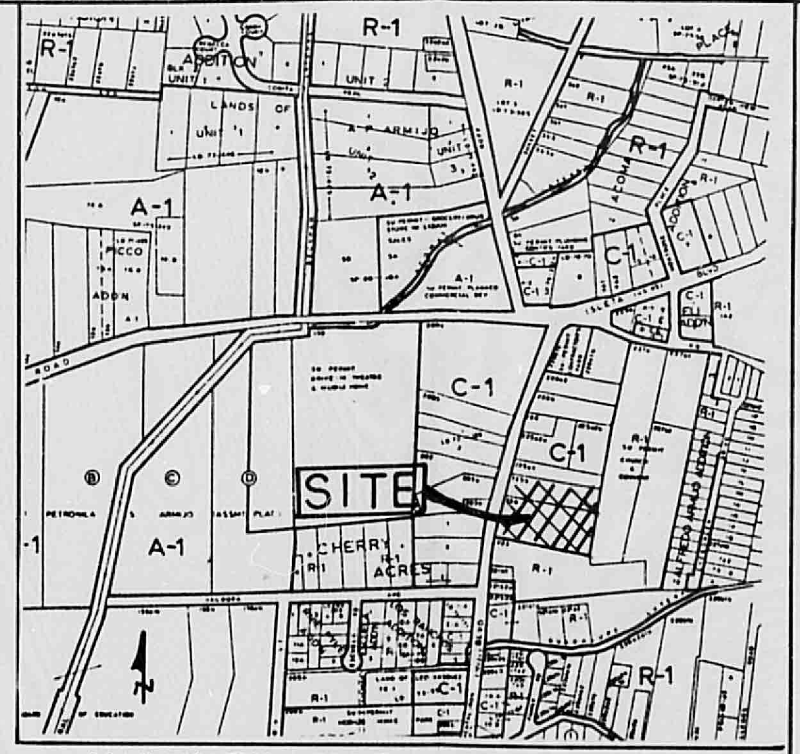
CALCULATIONS

HYDROLOGY:
Total Tract Area = 128,815 □' 2.957 Acs.
Isleta Blvd. Area = 9,350 □' 50% Paved
Soils: From SCS Std. Soil Survey - Sheet 40
Ge - Gila Clay Loam - 25% along East side - Hydro. Soil Grp = B
Ag - Agua Silty Clay Loam - 75% " " " = B
100-yr - 6 hr. rainfall = 2.25" Plate 22.2 D-1
I = 2.18 (Tc = >10 min.) " 22.2 D-2
i (intensity) = 2.18 x 2.25 = 4.90

Unimproved Condition: C = 0.4
CN = 81 Plate 22.2 C-2 R_o = 0.8" Plate 22.2 C-4
Q_{100} = CiA = 0.4 x 4.90 x 2.957 = 5.8 c.f.s.
Vol_{100} = (R_o ÷ 12) A = 0.8" ÷ 12" x 128,815 □' = 8,590 C.F. ⇐

Displaced Flood Volume:
Est. Area = 350' x 50' = 17,500 □' Overlay from Floodplain Map
Av. depth = 0.4' Volume = 0.4' x 17,500 □' = 7,000 C.F. ⇐
NOTE Existing Condition Vol. exceeds Displaced Vol. -

Improved Condition: Roofs = 31,900 □' = 27.2%
Sidewalks = 13,200 □' = 5.6%
Paved = 60,200 □' = 47.5%
Impermeable = 105,300 □' = 81.7%
Permeable = 23,600 □' = 18.3%
Composite CN = (18.3% x 61) + (81.7% x 98) = 91.2 R_o = 1.4" Plate 22.2 C-4
Vol_{100} = 1.4" ÷ 12" x 128,815 = 15,030 C.F. ⇐
From Isleta: Composite CN = (50% x 98) + (50% x 85) = 92 R_o = 1.5" Plate 22.2 C-4
Vol.100 = 1.5" ÷ 12" x 9,350 □' = 1,170 C.F. ⇐
Ponding Needed = 15,030 C.F. + 1,170 C.F. = 16,200 C.F. ⇐
Planned Ponding: Along Bdry. = 2,395 C.F. + Isleta Pond = 1,177 C.F. + driveway = 2,328 C.F.
+ Parking Area = 1,960 C.F. + W.Pond = 4,495 + E.Pond = 4,616 = 16,971 C.F.



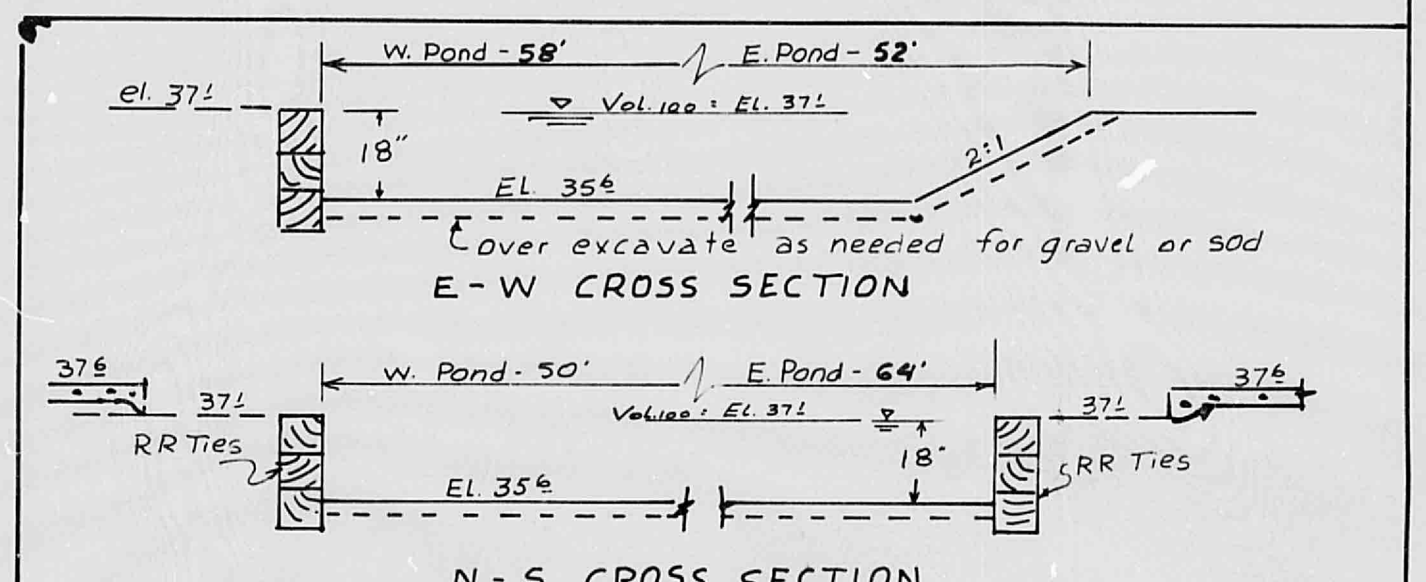
VICINITY MAP ZONE ATLAS M-12-Z

Address:
1712 - 1720 Isleta S.W.

Legal:
Tracts 224 & 225b as shown on M.R.G.C.D. Map 43, in Section 36, T10N, R2E, N.M.P.M. in Bernalillo County, New Mexico

LEGEND

Existing Contours	---37----
Existing Spot Elevs.	⊕
Proposed Spot Elevs.	●
Proposed Sidewalks	
Proposed Swales	
Proposed Finished Floor Elev. - F.F. 4938.0	
Proposed Landscaping	L.S.
AS-BUILT SPOT ELEVS	(37²) or 37⁰²



E-W CROSS SECTION

N-S CROSS SECTION
PONDS - Scale 3/8" = 1'

DRAINAGE AND PONDING PLAN

The following items concerning the Pueblito Del Paiz Apartments drainage plan are contained hereon: 1. Vicinity Map, 2. Drainage Plan, 3. Grading Plan, and 4. Calculations.

This site is located on the east side of Isleta Blvd. S.W. about 0.17 of a mile south of the intersection of Isleta Blvd. and Arenal Road S.W. and slightly north of the point where Valdora Av. meets Isleta Blvd.

The proposed apartment complex will include paved parking and driveway areas, sidewalks, and roofs which will be impervious. Pervious areas will include an open area in the center of the complex, planting areas around the buildings and all along the property boundary.

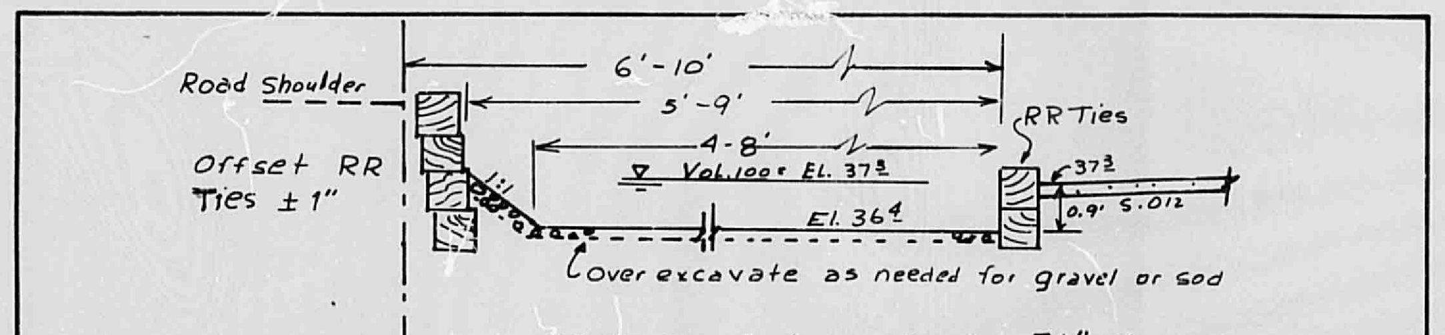
The surface of the land at this site is at a lower elevation than Isleta Blvd.. Existing topography is basicly flat, with slightly higher ground at the southeast corner of the property. It appears that there is no off-site runoff into the site except from half of Isleta Blvd. from the west.

The Flood Plain Maps show a narrow strip of land as being subject to flooding. The minimum finished floor elevation due to the flood potential is 4937.00. Planned floor elevations for these buildings is at or above the minimum elevation. The planned improvements will encroach on the flood prone area and displaced flood volume was computed. This volume was considered in providing the ponding volume from the total site.

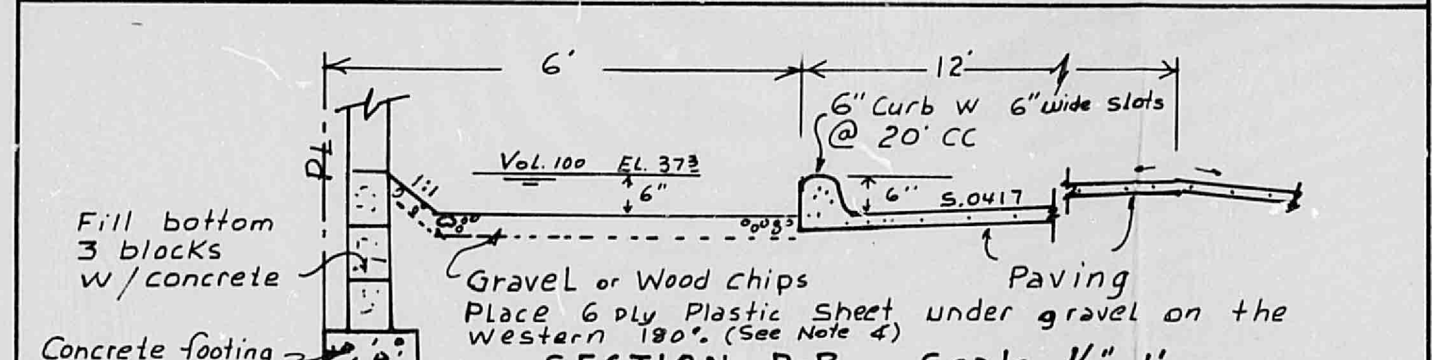
The grading planned is for the driveway areas along the outside of the apartment complex sloped toward the adjacent planting areas. This runoff will provide some additional irrigation to the planned plantings. The parking areas, and the other surface areas around the buildings will be graded so that runoff will flow toward the ponds in the center of the complex. Runoff from the eastern half of Isleta Blvd. will be intercepted in the planting area next to the street, where some ponding is planned.

The majority of the ponding planned will be in the ponds in the center of the complex. However some ponding is also planned in the planting areas all along the property boundary and temporary ponding in the driveway areas between the buildings and along the eastern portion of the north and south driveway areas and along the east driveway area.

The unpaved ponding areas will be landscaped with grass, trees, shurbs, gravel and rock. It is anticipated that pond waters will percolate into the ground rather fast because of the porous nature of the soil. Both soils, at this site, as shown by the SCS Standard Survey Maps, Gila clay loam and Agua silty clay loam have relatively high permeability rates.

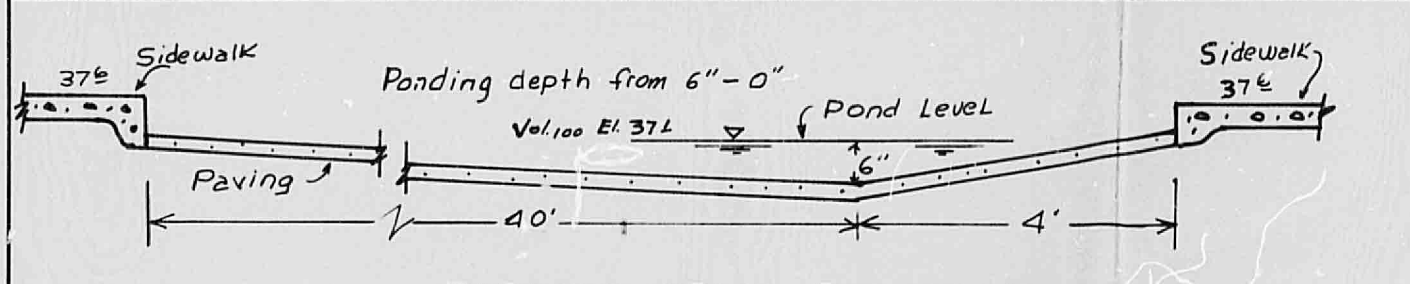


SECTION A-A Scale 3/8" = 1'



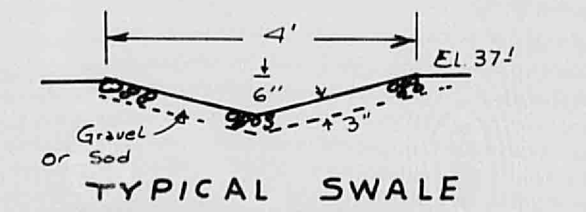
Place 6 ply Plastic Sheet under gravel on the Western 180'. (See Note 4)

SECTION B-B Scale 1/2" = 1'



PARKING AREAS BETWEEN BUILDINGS
SECTION @ D.S. END
Scale 1/2" = 1'

NOTE:
1. All finished floor elevations to be 4938.0.
2. All sidewalks around bldgs. are at elev. 4937⁶
3. At all islands where L.S. is shown, depress so that surface is 3" - 4" below adjact paving.
4. 6 ply plastic sheeting to be installed along the western 180' of the N. & S. landscape areas next to the bdry. Cut holes, on plastic, for plantings. ± 4' dia. for trees and ± 2' dia. for shrubs.



TYPICAL SWALE
(Between Buildings)

CERTIFICATION

I hereby certify that the "As-built" elevations as shown hereon are from a field survey performed by me and that the same are true and correct to the best of my Knowledge and belief.
Raul A. Rivera
PE & LS 1693
New Mexico
July 25, 1988

ENGINEER'S SEAL
Raul A. Rivera
11-19-'87

BENCH MARKS
City of Albuquerque BM # 6-M12 - EL. 4940.22' Standard ASC brass tablet flush w/conc., Center isle of Arenal Rd at intersection w/Isleta S.W.
Site BMs 1. Top of N.E. bolt at base of fire Hydrant along E. side of Isleta. EL 4939.54
2. Top of Concrete Sidewalk at SW corner of red brick Blg. east of site. EL 4938.97

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

REVISIONS

NO.	DATE	REMARKS	BY
1	12/3	Added Note 4, Bldg. F.F. Elevs. & Curb notes	RAR
2	12/22	Added 100yr. W.L., Corr. B-B arrows & slopes	RAR

DESIGN
DESIGNED BY RAR DATE 11/87
DRAWN BY RAR DATE 11/87
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: DRAINAGE PLAN
PUEBLITO DEL PAIZ APARTMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

DRAWING NO. MAP NO. SHEET OF

CITY OF ALBUQUERQUE
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R# 28 DATE 3-29-02 OP E.J.P.

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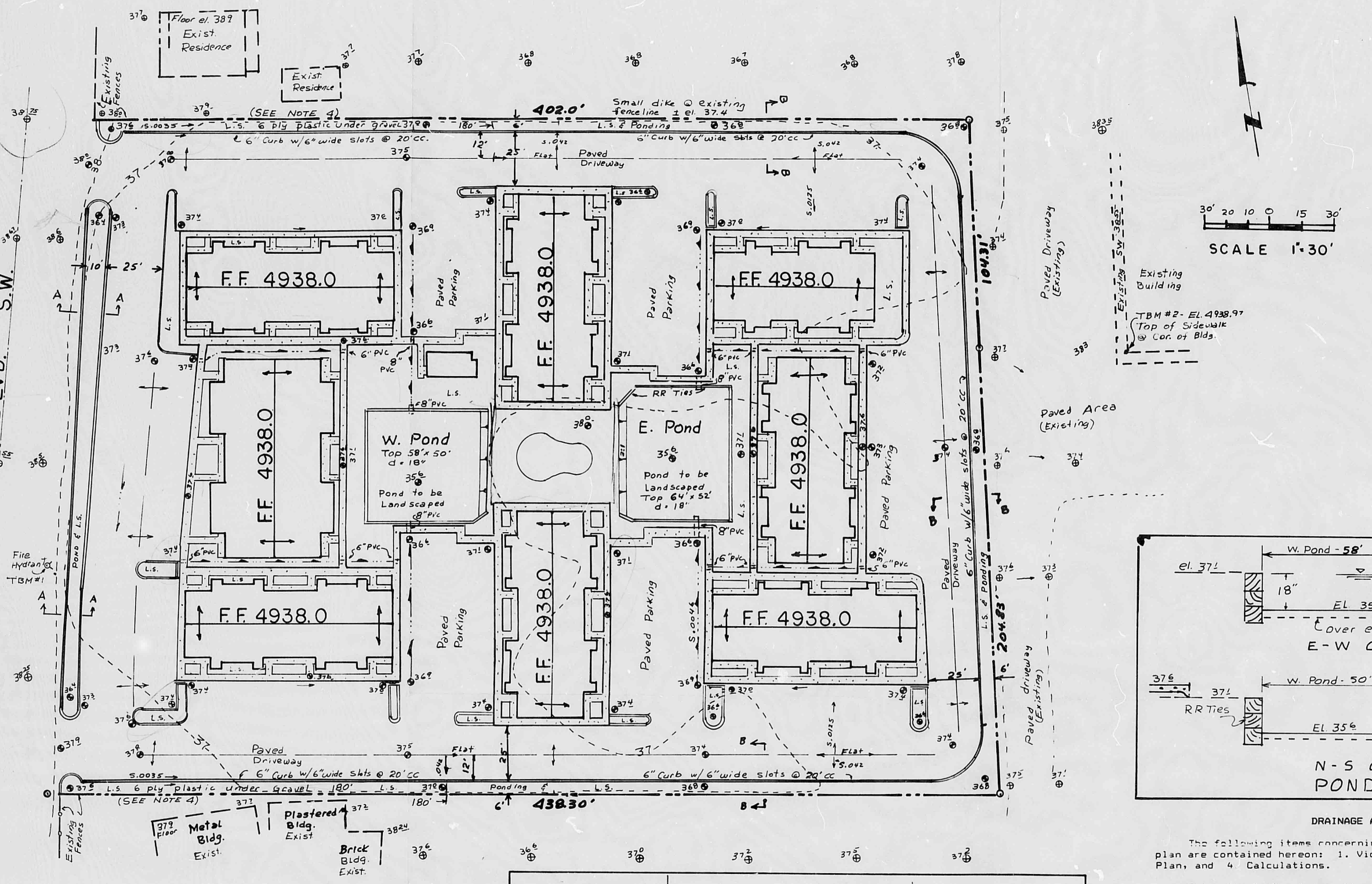
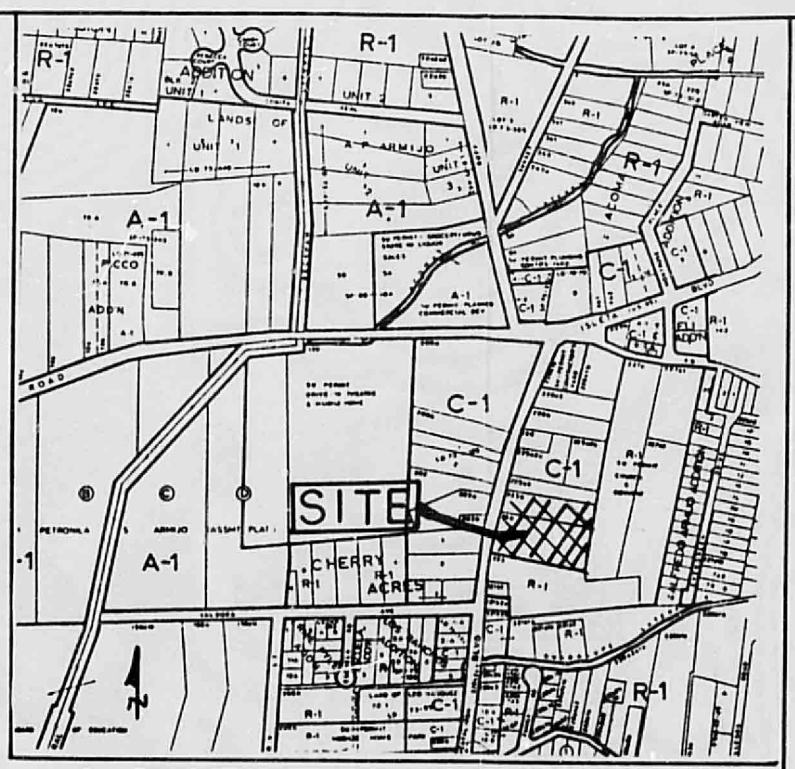
D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D





VICINITY MAP ZONE ATLAS M-12-Z

LEGEND

Existing Contours	---37----
Existing Spot Elevs.	⊕
Proposed Spot Elevs.	●
Proposed Sidewalks	
Proposed Swales	
Proposed Finished Floor Elev. - F.F. 4938.0	
Proposed Landscaping	L.S.

Address:
1712-1720 Isleta S.W.

Legal:
Tracts 224 & 225b as shown on M.R.G.C.D. Map 43, in Section 36, T10N, R2E, N.M.P.M. in Bernalillo, County, New Mexico

NOTE:

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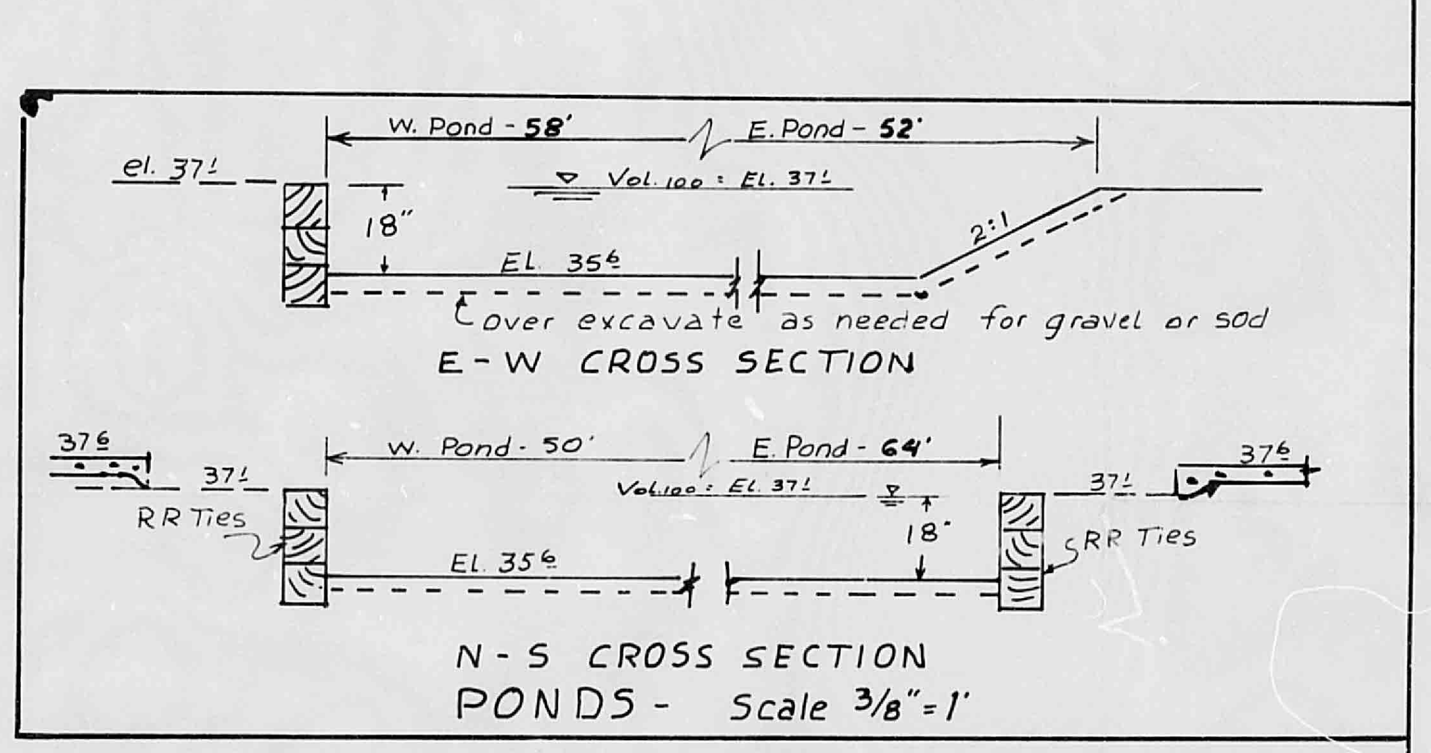
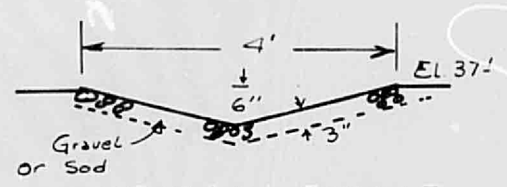


N-S CROSS SECTION
PONDS - Scale 3/8"=1'



TYPICAL SWALE
(Between Buildings)

CALCULATIONS

HYDROLOGY:
Total Tract Area = 128,815 □' 2.957 Acs.
Isleta Blvd. Area = 9,350 □' 50% Paved
Soils: From SCS Std. Soil Survey - Sheet 40
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Ag - Agua Silty Clay Loam - 75% " " " = B
100-yr - 6 hr. rainfall = 2.25" Plate 22.2 D-1
I = 2.18 (T_c = > 10 min.) " 22.2 D-2
i (intensity) = 2.18 x 2.25 = 4.90

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Vol_{100} = (R_o ÷ 12) A = 0.8" ÷ 12" x 128,815 □' = 8,590 C.F. ⇐

Displaced Flood Volume:
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Av. depth = 0.4' Volume = 0.4' x 17,500 □' = 7,000 C.F. ⇐
NOTE Existing Condition Vol. exceeds Displaced Vol. -

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Paved = 60,200 □' = 47.5%
Impermeable = 105,300 □' = 81.7%
Permeable = 23,600 □' = 18.3%
Composite CN = (18.3% x 61) + (81.7% x 98) = 91.2 R_o = 1.4" Plate 22.2 C-4
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From Isleta: Composite CN = (50% x 98) + (50% x 85) = 92 R_o = 1.5" Plate 22.2 C-4
Vol.100 = 1.5" ÷ 12" x 9,350 □' = 1,170 C.F. ⇐
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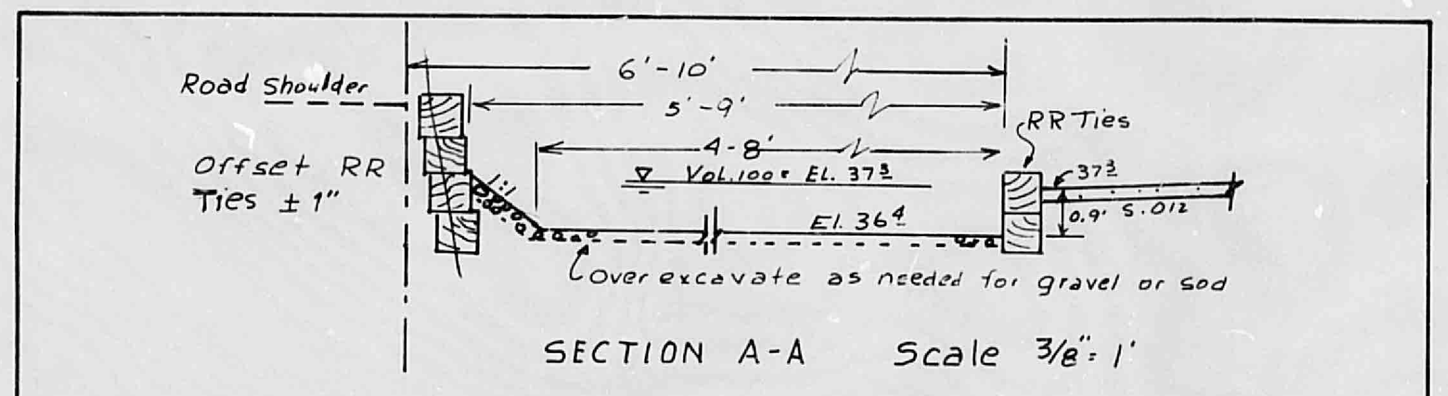
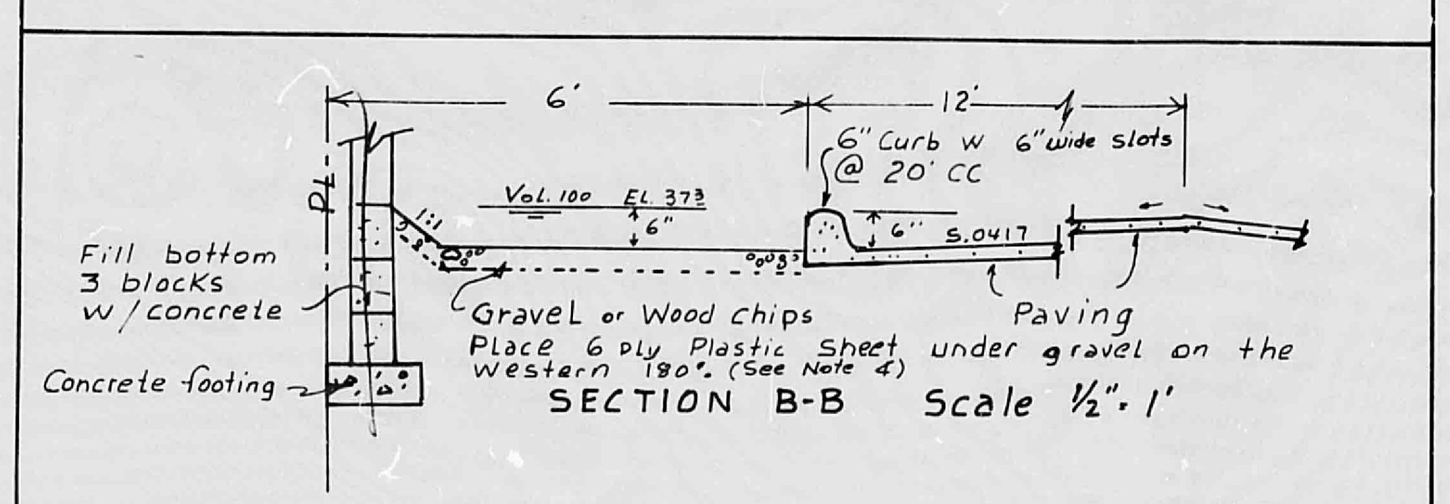
Planned Ponding: Along Bdry. = 2,395 C.F. + Isleta Pond = 1,177 C.F. + driveway = 2,328 C.F. + Parking Area = 1,960 C.F. + W. Pond = 4,495 + E. Pond = 4,616 = 16,971 C.F.

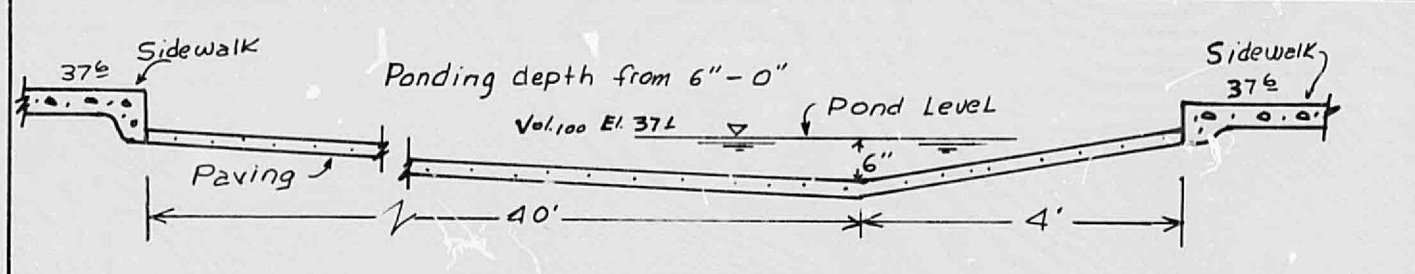
107819



SECTION A-A Scale 3/8"=1'



Place 6 ply Plastic Sheet under gravel on the western 180'. (See Note 4)
SECTION B-B Scale 1/2"=1'



PARKING AREAS BETWEEN BUILDINGS
SECTION @ D.S. END
Scale 1/2"=1'

DRAINAGE AND PONDING PLAN

The following items concerning the Pueblito Del Paiz Apartments drainage plan are contained hereon: 1. Vicinity Map, 2. Drainage Plan, 3. Grading Plan, and 4 Calculations.

This site is located on the east side of Isleta Blvd. S.W. about 0.17 of a mile south of the intersection of Isleta Blvd. and Arenal Road S.W. and slightly north of the point where Valdora Av. meets Isleta Blvd.

The proposed apartment complex will include paved parking and driveway areas, sidewalks, and roofs which will be impervious. Pervious areas will include an open area in the center of the complex, planting areas around the buildings and all along the property boundary.

The surface of the land at this site is at a lower elevation than Isleta Blvd.. Existing topography is basicly flat, with slightly higher ground at the southeast corner of the property. It appears that there is no off-site runoff into the site except from half of Isleta Blvd. from the west.

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The grading planned is for the driveway areas along the outside of the apartment complex sloped toward the adjacent planting areas. This runoff will provide some additional irrigation to the planned plantings. The parking areas, and the other surface areas around the buildings will be graded so that runoff will flow toward the ponds in the center of the complex. Runoff from the eastern half of Isleta Blvd. will be intercepted in the planting area next to the street, where some ponding is planned.

The majority of the ponding planned will be in the ponds in the center of the complex. However some ponding is also planned in the planting areas all along the property boundary and temporary ponding in the driveway areas between the buildings and along the eastern portion of the north and south driveway areas and along the east driveway area.

The unpaved ponding areas will be landscaped with grass, trees, shurbs, gravel and rock. It is anticipated that pond waters will percolate into the ground rather fast because of the porous nature of the soil. Both soils, at this site, as shown by the SCS Standard Survey Maps, Gila clay loam and Agua silty clay loam have relatively high permeability rates.

RECEIVED
DEC 23 1987
HYDROLOGY SECTION

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY		DATE
NO.		

BENCH MARKS

City of Albuquerque BM # 6-M12-EL. 4940.22' Standard ASC brass tablet flush w/conc. Center isle of Arenal Rd at intersection w/Isleta S.W.
Site BMs 1. Top of N.E. bolt at base of fire Hydrant along E. side of Isleta. EL. 4939.54
2. Top of Concrete Sidewalk at SW corner of red brick Blg. east of site. EL. 4938.97

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

Paul A. Rivera
11-19-'87

REVISIONS

NO.	DATE	REMARKS	BY
1	12/3	Added Note 4, Bldg. FF. Elevs. & Curb notes	RAR
2	12/22	Added 100yr. W.L., Corr. B-B arrows & slopes	RAR

DESIGN

DESIGNED BY	RAR	DATE 11/87
DRAWN BY	RAR	DATE 11/87
CHECKED BY		DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: DRAINAGE PLAN
PUEBLITO DEL PAIZ APARTMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

DRAWING NO. MAP NO. SHEET OF

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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

R# 28 DATE 3-29-02 OP E.J.P.

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

1/15/02
DIRECTOR

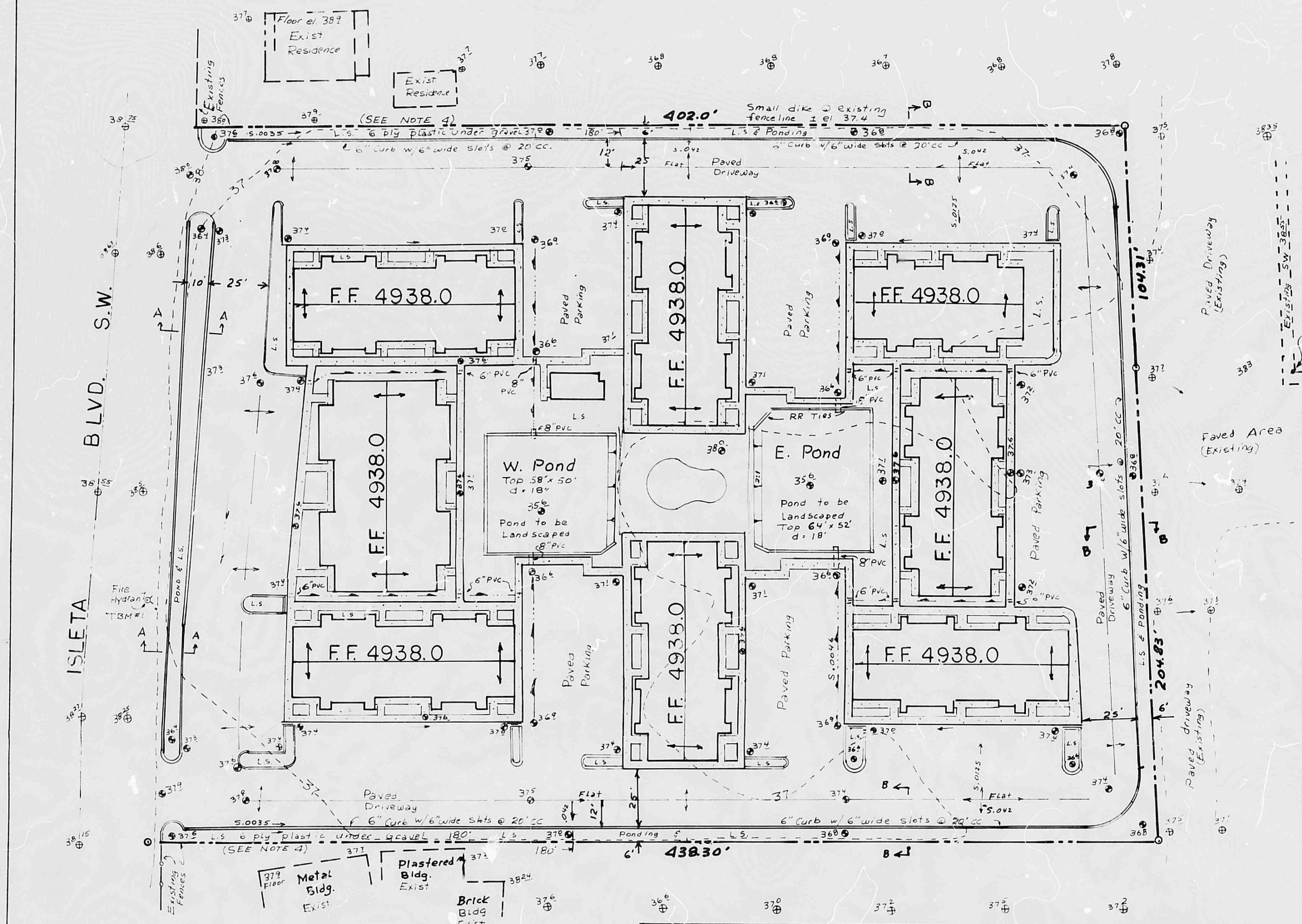
Roberta Duran
NOTARY PUBLIC

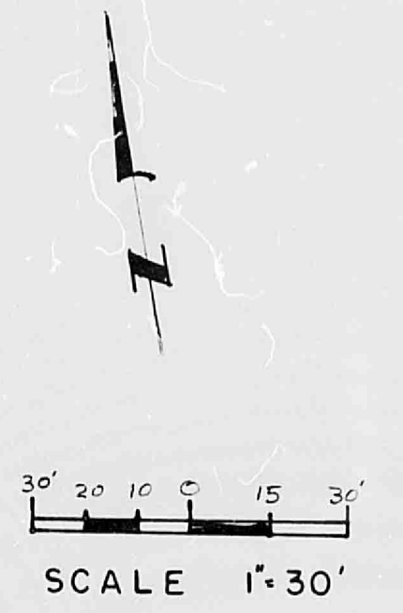
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/08/02

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

PUBLIC WORKS/HYDROLOGY 2 OF 2

M12/D5





CALCULATIONS

HYDROLOGY:

Total Tract Area = 128,815 □' 2.957 Acs.

Isleta Blvd. Area: 9,350 □' 50% Paved

Soils: From SCS Std. Soil Survey - Sheet 40

Ge - Gila Clay Loam - 25% along East side - Hydro. Soil Grp = B

Ay - Agua Silty Clay Loam - 75% " " " = B

100-yr - 6 hr rainfall = 2.25" Plate 22.2 D-1

I = 2.18 (T_c = > 10 min.) " 22.2 D-2

i (intensity) = 2.18 × 2.25 = 4.90

Unimproved Condition: C = 0.4

CN = 81 Plate 22.2 C-2 R_o = 0.8" Plate 22.2 C-4

Q_{100} = CiA = 0.4 × 4.90 × 2.957 = 5.8 c.f.s.

Vol_{100} = (R_o ÷ 12) A = 0.8" ÷ 12" × 128,815 □' = 3,590 C.F. ⇦

Displaced Flood Volume:

Est. Area = 350' × 50' = 17,500 □' Overlay from Floodplain Map

Av. depth = 0.4' Volume = 0.4' × 17,500 □' = 7,000 C.F. ⇦

NOTE Existing Condition Vol. exceeds Displaced Vol. -

Improved Condition: Roofs = 31,900 □' = 27.2%

Sidewalks = 13,200 □' = 5.6%

Paved = 60,200 □' = 47.5%

Impermeable = 105,300 □' = 81.7%

Permeable = 23,600 □' = 18.3%

Composite CN = (18.3% × 61) + (81.7% × 98) = 91.2 R_o = 1.4" Plate 22.2 C-4

Vol_{100} = 1.4" ÷ 12" × 128,815 = 15,030 C.F. ⇦

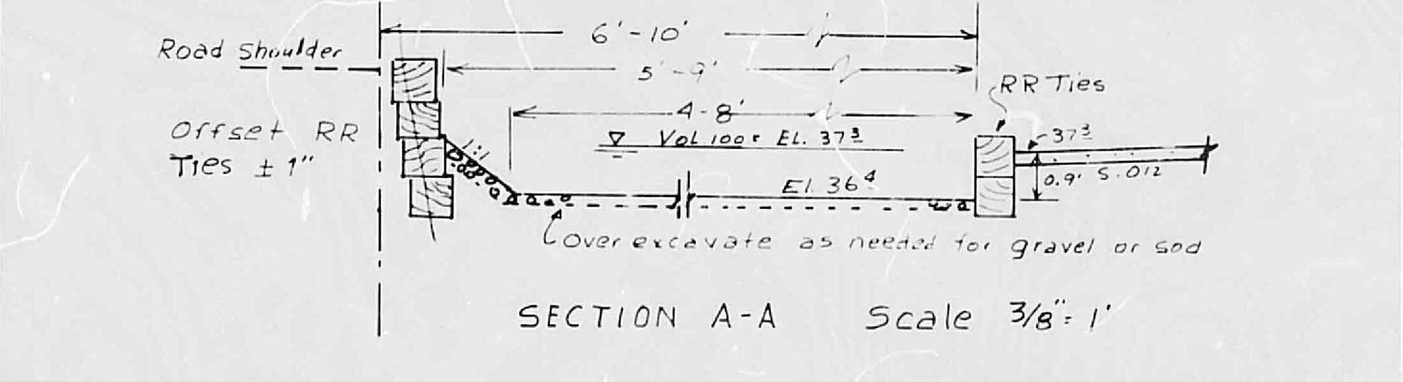
From Isleta: Composite CN = (50% × 98) + (50% × 85) = 92 R_o = 1.5" Plate 22.2 C-4

Vol.100 = 1.5" ÷ 12" × 9,350 □' = 1,170 C.F. ⇦

Ponding Needed = 15,030 C.F. + 1,170 C.F. = 16,200 C.F. ⇦

Planned Ponding: Along Bdry. = 2,395 C.F. + Isleta Pond = 1,177 C.F. + driveway = 2,328 C.F. + Parking Area = 1,960 C.F. + W Pond = 4,495 + E. Pond = 4,616 = 16,971 C.F.

107819



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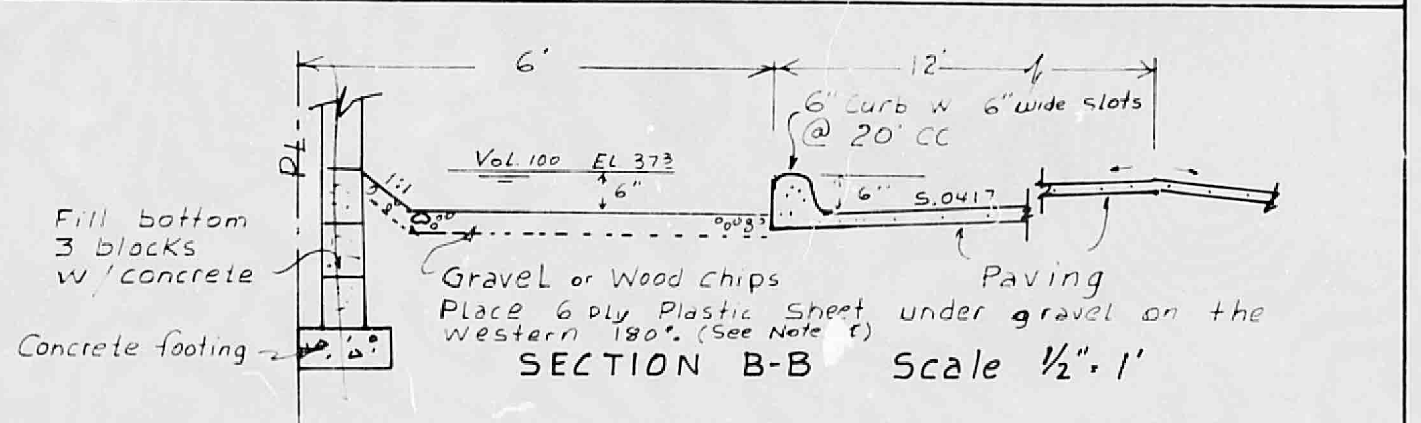
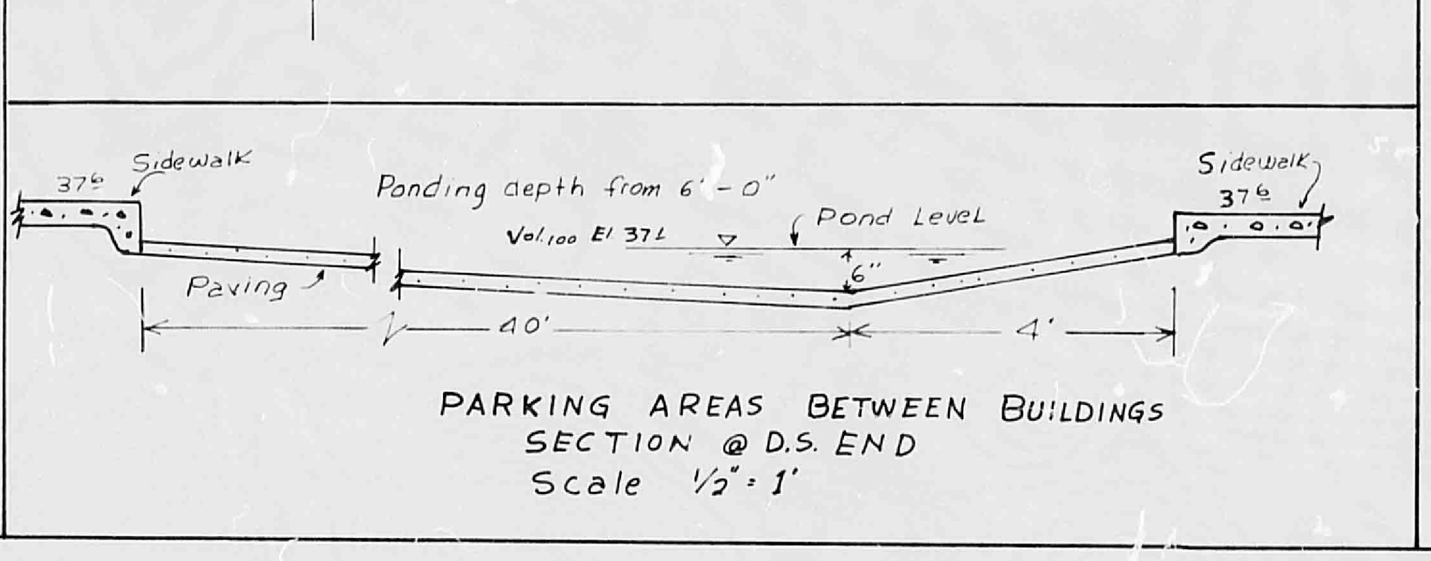

6'
12'
P.L.
1:1
Vol. 100 El 37.3
6"
6" Curb w 6" wide slots @ 20' CC
S.0417
Fill bottom 3 blocks w/concrete
Concrete footing
Gravel or Wood chips
Paving
Place 6 ply Plastic Sheet under gravel on the western 180'. (See Note 4)

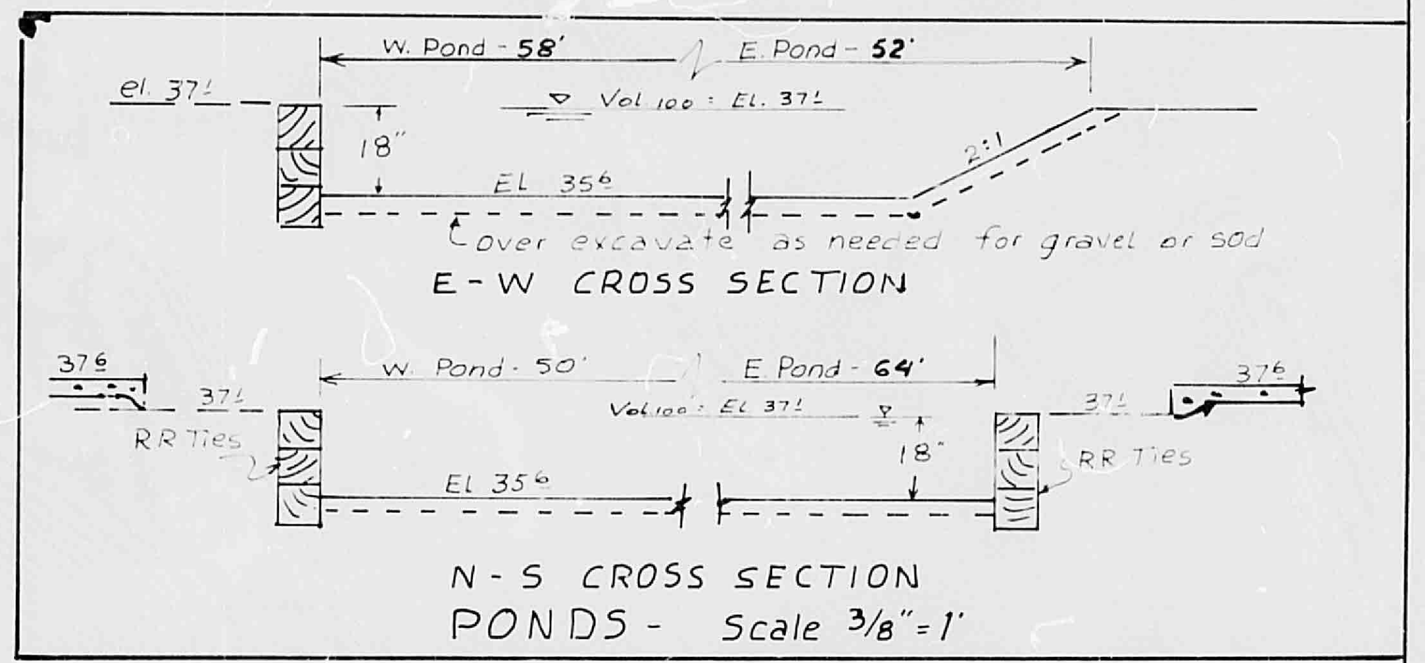
SECTION B-B Scale 1/2" = 1'



PARKING AREAS BETWEEN BUILDINGS

SECTION @ D.S. END

Scale 1/2" = 1'



E-W CROSS SECTION

N-S CROSS SECTION

PONDS - Scale 3/8" = 1'

DRAINAGE AND PONDING PLAN

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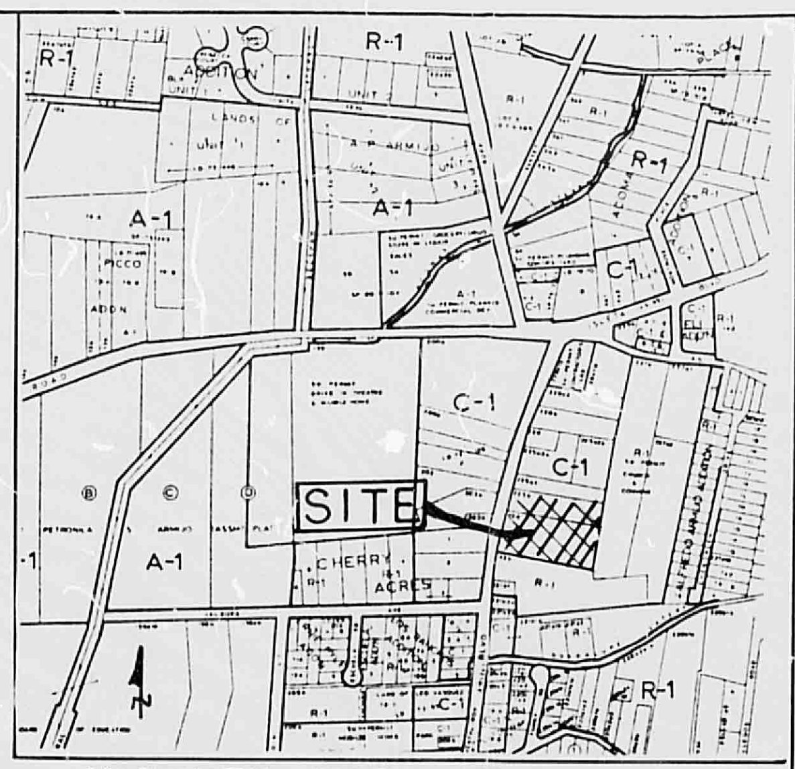


VICINITY MAP ZONE ATLAS M-12-Z

LEGEND

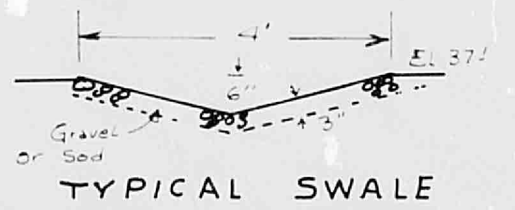
Existing Contours	- - - 37 - - -
Existing Spot Elevs.	⊕
Proposed Spot Elevs.	●
Proposed Sidewalks	═══
Proposed Swales	— ▲ — ▲ — ►
Proposed Finished Floor Elev.	F.F. 4938.0
Proposed Landscaping	L.S.

Address:
1712 - 1720 Isleta S.W.

Legal:
Tracts 224 & 225b as shown on M.R.G.C.D. Map 43, in Section 36, T10N, R2E, N.M.P.M. in Bernalillo County, New Mexico

NOTE:

1. All finished floor elevations to be 4938.0.
2. ALL sidewalks around bldgs. are at elev. 4937.6
3. At all islands where L.S. is shown, depress so that surface is 3" - 4" below adjact paving.
4. 6 ply plastic sheeting to be installed along the western 180' of the N. & S. landscape areas next to the bdry. Cut holes, on plastic, for plantings. ± 4' dia. for trees and ± 2' dia. for shrubs.



TYPICAL SWALE
(Between Buildings)

RECEIVED
DEC 23 1987
HYDROLOGY SECTION

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO	

BENCH MARKS

City of Albuquerque BM # 6-M12 - EL. 4940.22' Standard ASC brass tablet flush w/conc. center isle of Arenal Rd at intersection w/Isleta S.W.

Site BMs 1. Top of N.E. bolt at base of fire Hydrant along E. side of Isleta. EL 4929.54

2. Top of Concrete Sidewalk at SW corner of red brick Blg. east of site. EL. 4938.97

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

11-19-'87

REVISIONS

NO.	DATE	REMARKS	BY
1	12/3	Added Note 4, Bldg. F.F. Elevs & Curb notes	RAR
2	12/22	Added 100yr W.L., Corr B-B arrows & slopes	RAR

DESIGN

DESIGNED BY RAR DATE 11/87
DRAWN BY RAR DATE 11/87
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: DRAINAGE PLAN

PUEBLITO DEL PAIZ APARTMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans Dev					
Utility Dev					

DRAWING NO. MAP NO. SHEET OF

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 28 DATE 3-29-02 OP E.P.

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

1/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/08/02

D24 C20 B16 A12 CITY OF ALBUQUERQUE C D

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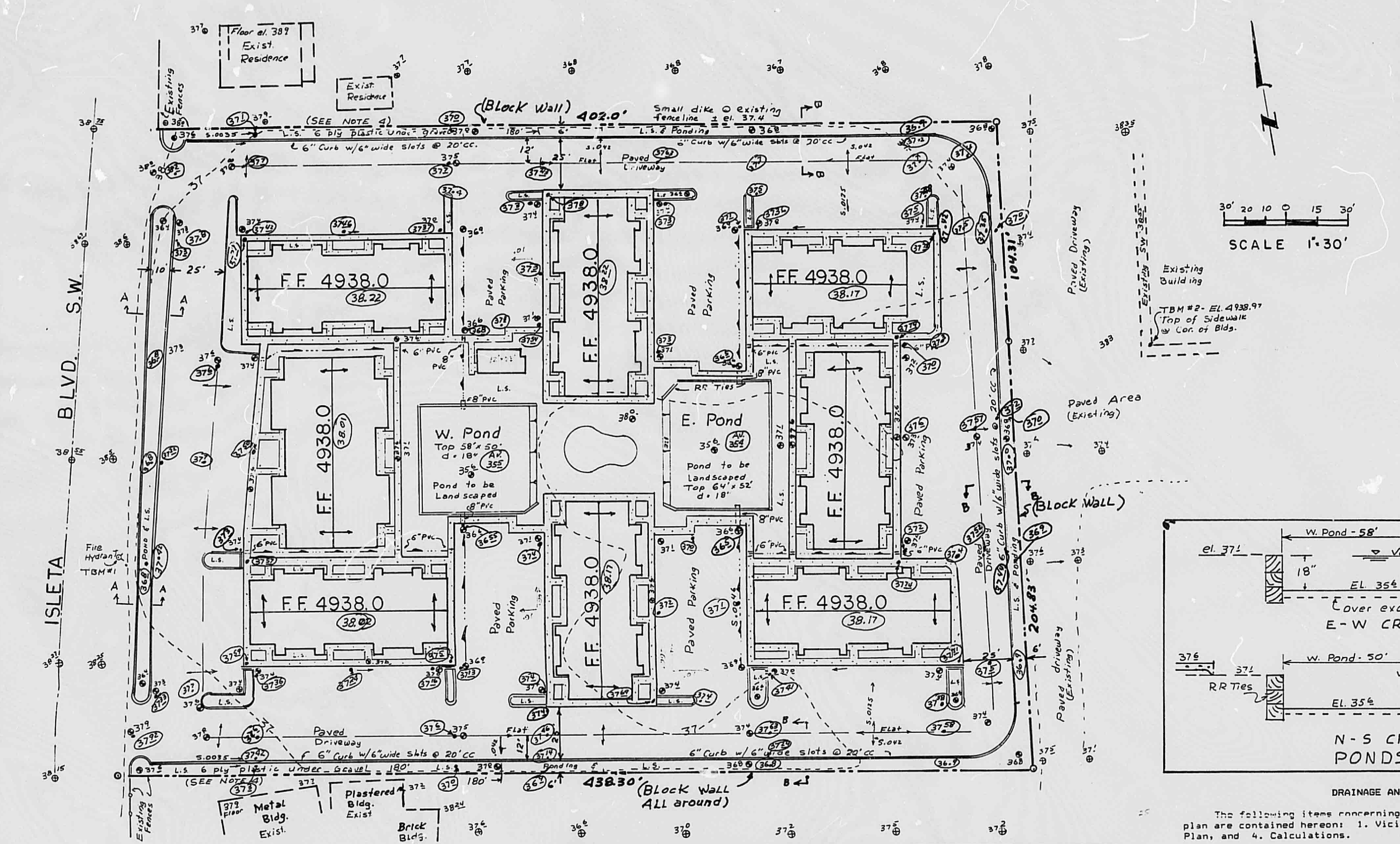

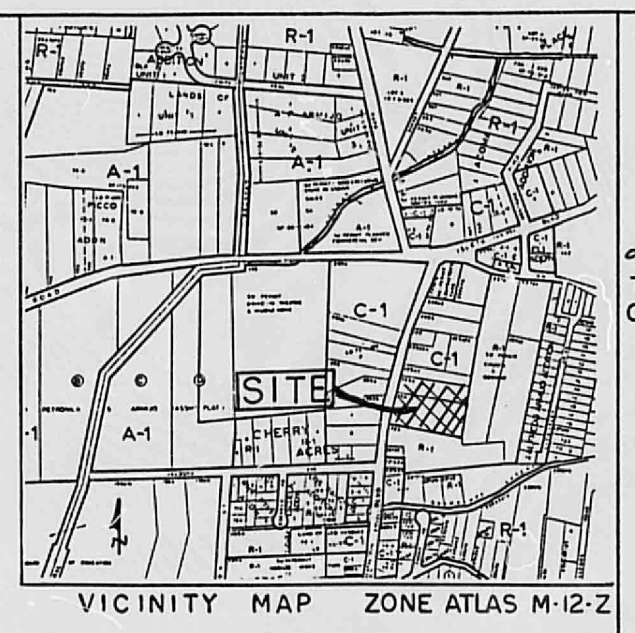
VICINITY MAP ZONE ATLAS M-12-Z

Address:
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LEGEND

Existing Contours	---37----
Existing Spot Elevs.	⊕
Proposed Spot Elevs.	●
Proposed Sidewalks	═
Proposed Swales	—▲—▲—
Proposed Finished Floor Elev.	F.F. 4938.0
Proposed Landscaping	L.S.
AS-BUILT SPOT ELEVS	(37⁷) or 37⁰⁷

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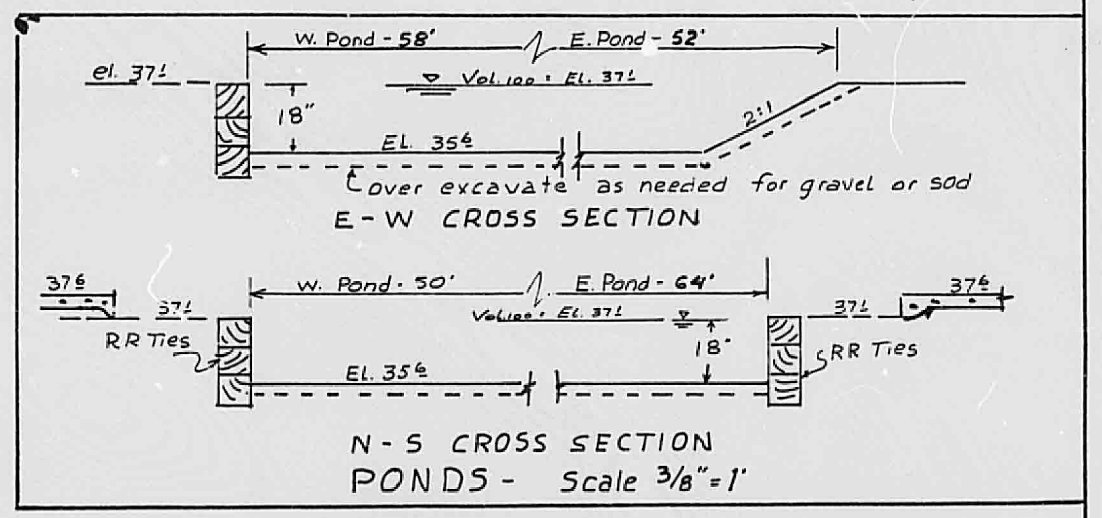

CALCULATIONS

HYDROLOGY:
Total Tract Area: 128,815 □' 2.957 Acs.
Isleta Blvd. Area: 9,350 □' 50% Paved
Soils: From SCS Std. Soil Survey - Sheet 40
Ge - Gila Clay Loam - 25% along East side - Hydro. Soil Grp = B
Ag - Agua Silty Clay Loam - 75% " " " = B
100-yr - 6 hr rainfall = 2.25" Plate 22.2 D-1
I = 2.18 (T_c = >10 min.) " 22.2 D-2
i (intensity) = 2.18 x 2.25 = 4.90

Unimproved Condition: C = 0.4
CN = 81 Plate 22.2 C-2 R_o = 0.8" Plate 22.2 C-4
Q_{100} = CiA = 0.4 x 4.90 x 2.957 = 5.8 c.f.s.
Vol_{100} = (R_o ÷ 12) A = 0.8" ÷ 12" x 128,815 □' = 8,590 C.F. ⇐

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Est. Area = 350' x 50' = 17,500 □' Overlay from Floodplain Map
Av. depth = 0.4' Volume = 0.4' x 17,500 □' = 7,000 C.F. ⇐
NOTE Existing Condition Vol. exceeds Displaced Vol. -

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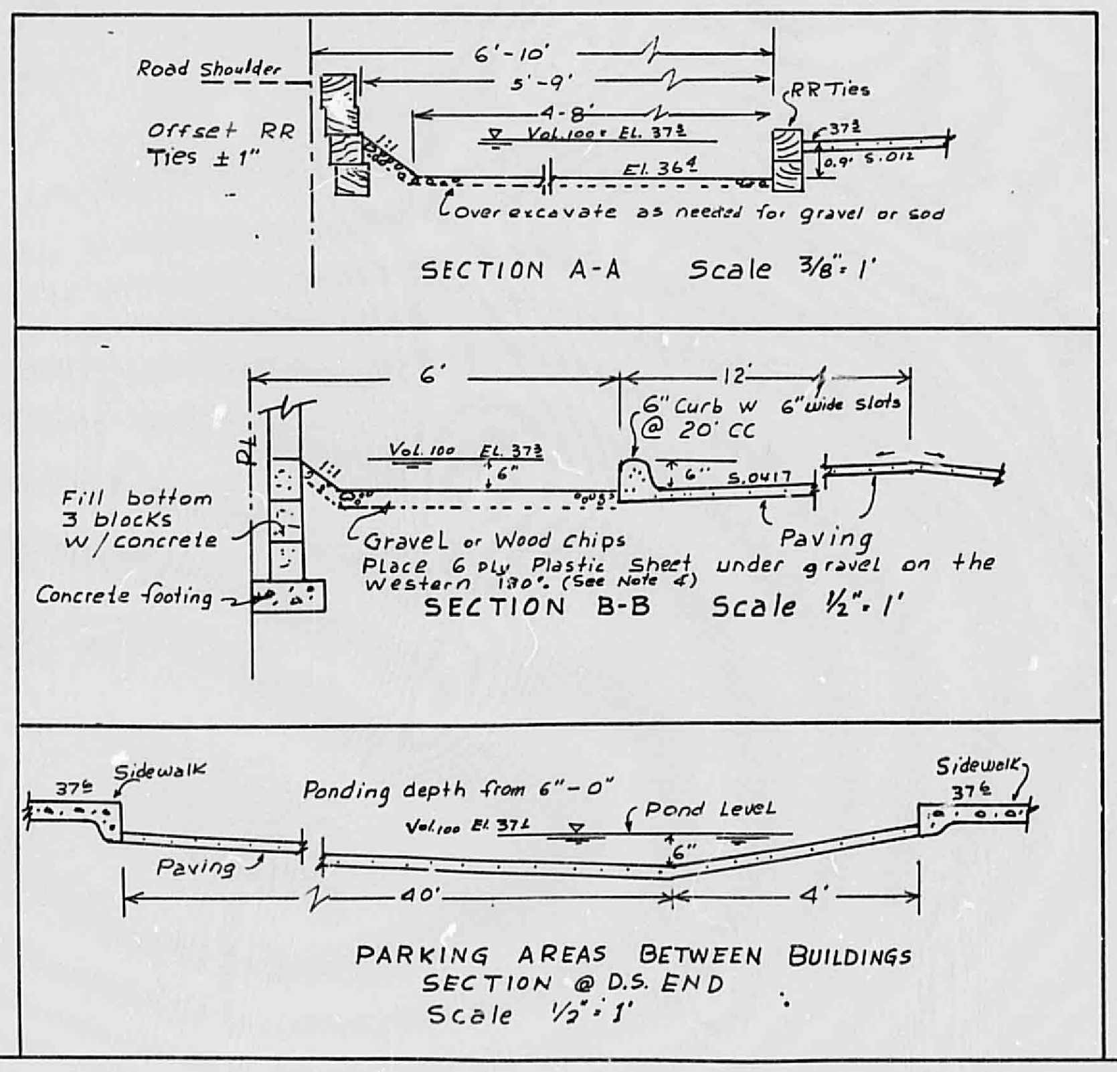
Road shoulder
Offset RR Ties ±1'
RR Ties
Over excavate as needed for gravel or sod
SECTION A-A Scale 3/8" = 1'
Fill bottom 3 blocks w/concrete
Concrete footing
6" Curb @ 20' CC
6" wide Slots
Gravel or Wood chips Place 6 ply Plastic Sheet under gravel on the western 180'. (See Note 4)
Paving
SECTION B-B Scale 1/2" = 1'
Sidewalk
Ponding depth from 6" - 0"
Pond level
Paving
PARKING AREAS BETWEEN BUILDINGS
SECTION @ D.S. END
Scale 1/2" = 1'

DRAINAGE AND PONDING PLAN

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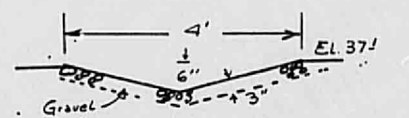

TYPICAL SWALE
(Between Buildings)

CERTIFICATION

I hereby certify that the "As-built" elevations as shown hereon are from a field survey performed by me and that the same are true and correct to the best of my knowledge and belief.
Raul A. Rivera
PE & LS 1693
New Mexico
July 25, 1988

RAUL A. RIVERA

JUL 27 1988
HYDROLOGY SECTION

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: DRAINAGE PLAN

PUEBLITO DEL PAIZ APARTMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

DRAWING NO. | MAP NO. | SHEET OF

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
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DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
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NO.

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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
Raul A. Rivera 11-19-'87

REVISIONS

NO.	DATE	REMARKS	BY
1	12/3	Added Note 4, Bldg. F.F. Elevs. & Curb cutes	RAR
2	12/22	Added 100yr W.L., Corr. B-B arrows & slopes	RAR

DESIGN
DESIGNED BY RAR DATE 11/87
DRAWN BY RAR DATE 11/87
CHECKED BY DATE

PLAN SHOT TWICE
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R# 28 DATE 3-29-02 OP E.J.P.

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.

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1/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 07/08/02

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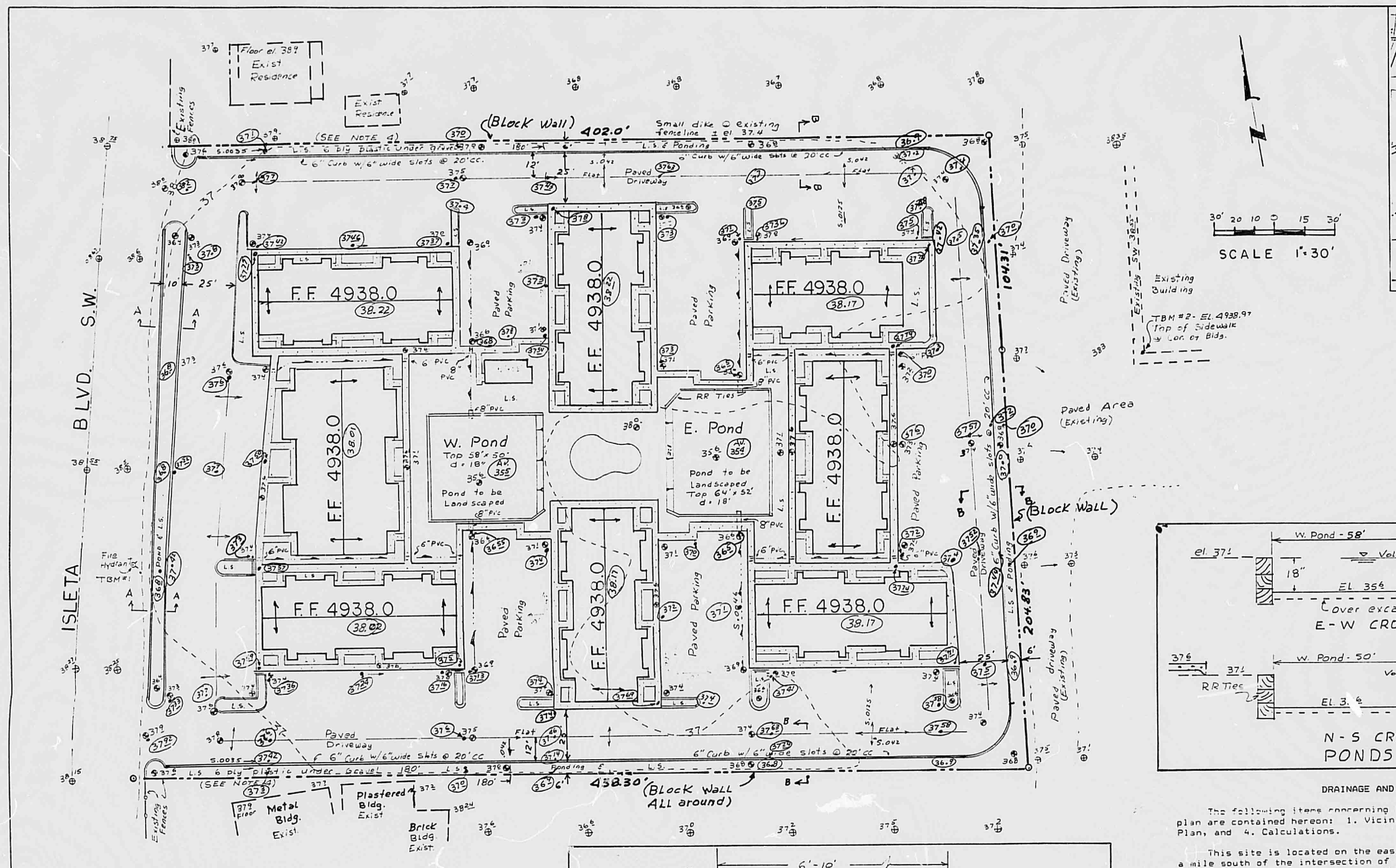
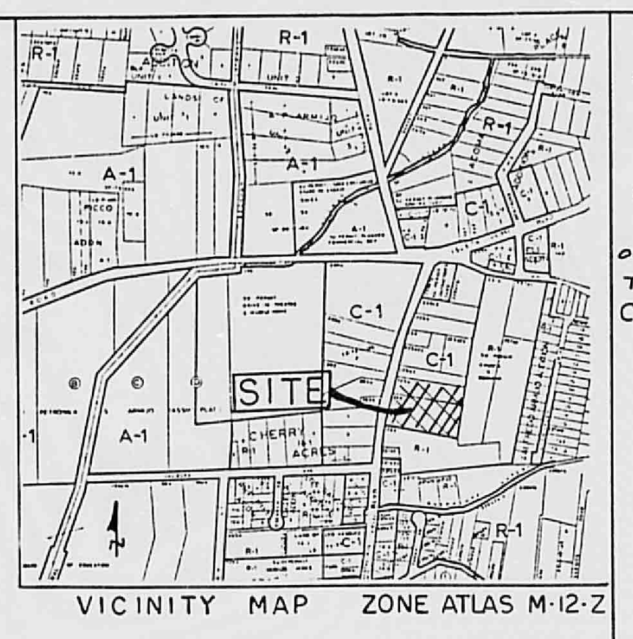
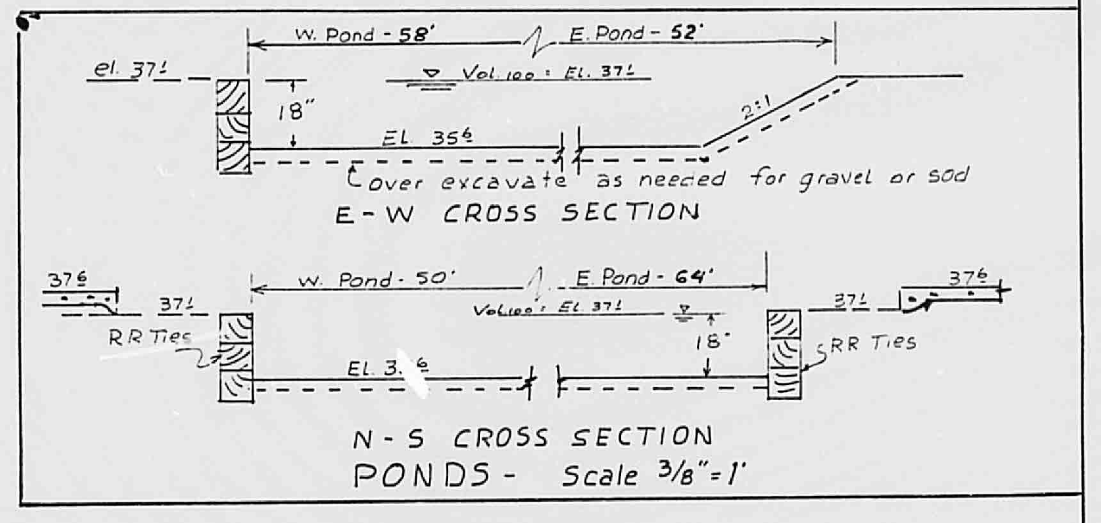




VICINITY MAP ZONE ATLAS M-12-Z

LEGEND

Existing Contours	---37----
Existing Spot Elevs.	⊖
Proposed Spot Elevs.	●
Proposed Sidewalks	
Proposed Swales	
Proposed Finished Floor Elev.	F.F. 4938.0
Proposed Landscaping	L.S.
AS-BUILT SPOT ELEVS	(37⁷) or 37.7



E-W CROSS SECTION

N-S CROSS SECTION
PONDS - Scale 3/8"=1'

Address:
1712-1720 Isleta S.W.

Legal:
Tracts 224 & 225b as shown on M.R.G.C.D. Map 43, in Section 36, T10N, R2E, N.M.P.M. in Bernalillo County, New Mexico

BENCH MARKS

City of Albuquerque BM # 6-M12-EL. 4940.22' Standard ASC brass tablet flush w/conc. center isle of Arenal Rd at intersection w/Isleta S.W.

Site BMs 1. Top of N.E bolt at base of fire Hydrant along E. side of Isleta. EL 4939.54
2. Top of Concrete Sidewalk at SW corner of red brick Blg. east of site. EL 4938.97

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

NOTE:

1. All finished floor elevations to be 4938.0.
2. ALL sidewalks around bldgs. are at elev. 4937⁶
3. At all islands where L.S. is shown, depress so that surface is 3"-4" below adjact paving.
4. 6 ply plastic sheeting to be installed along the western 180' of the N. & S. Landscape areas next to the bdry. Cut holes, on plastic, for plantings. ± 4' dia. for trees and ± 2' dia. for shrubs.

ENGINEER'S SEAL

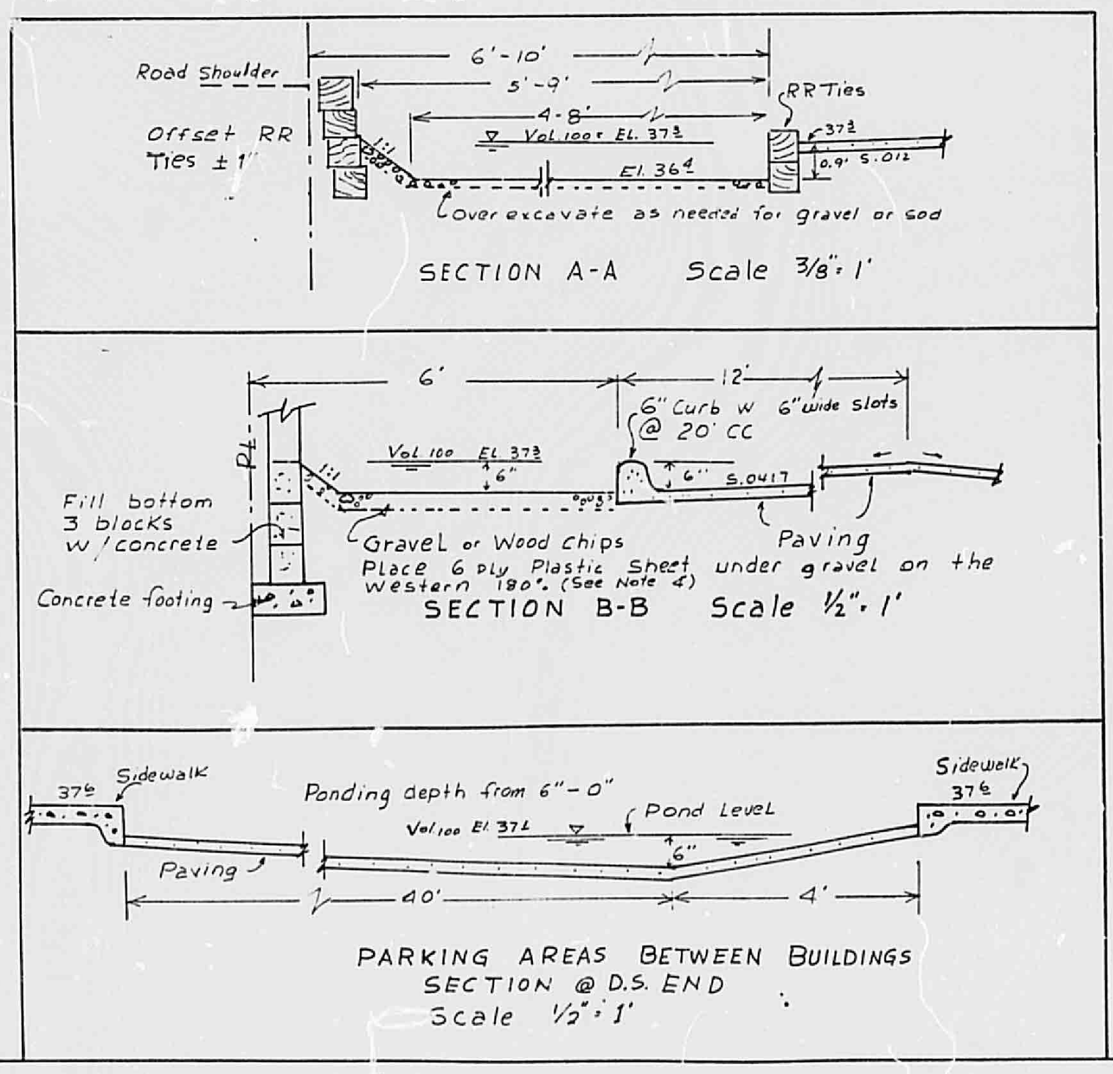
Raul A. Rivera
11-19-87

CALCULATIONS

HYDROLOGY:
Total Tract Area: 128,815□' 2.957 Acs.
Isleta Blvd. Area: 9,350□' 50% Paved
Soils: From SCS Std. Soil Survey - Sheet 40
Ge - Gila Clay Loam - 25% along East side - Hydro. Soil Grp = B
Ag - Agua Silty Clay Loam - 75% " " " = B
100-yr - 6 hr rainfall = 2.25" Plate 22.2 D-1
I = 2.18 (Tc = >10 min.) " 22.2 D-2
i (intensity) = 2.18 × 2.25 = 4.90

Unimproved Condition: C = 0.4
CN = 81 Plate 22.2 C-2 R_o = 0.8" Plate 22.2 C-4
Q_{100} = CiA = 0.4 × 4.90 × 2.957 = 5.8 c.f.s.
Vol_{100} = (R_o ÷ 12) A = 0.8" ÷ 12" × 128,815□' = 8,590 C.F. ⇦

Displaced Flood Volume:
Est. Area: 350' × 50' = 17,500□' Overlay from Floodplain Map
Av. depth = 0.4' Volume = 0.4' × 17,500□' = 7,000 C.F. ⇦
NOTE Existing Condition Vol. exceeds Displaced Vol. -
Improved Condition: Roofs = 31,900□' = 27.2%
Sidewalks = 13,200□' = 5.6%
Paved = 60,200□' = 47.5%
Impermeable = 105,300□' = 81.7%
Permeable = 23,600□' = 18.3%
Composite CN = (18.3% × 61) + (81.7% × 98) = [illegible] R_o = 1.4" Plate 22.2 C-4
Vol_{100} = 1.4" ÷ 12" × 128,815 = 15,030 C.F. ⇦
From Isleta: Composite CN = (50% × 98) + (50% × 85) = 92 R_o = 1.5" Plate 22.2 C-4
Vol_{100} = 1.5" ÷ 12" × 9,350□' = 1,170 C.F. ⇦
Ponding Needed: 15,030 C.F. + 1,170 C.F. = 16,200 C.F. ⇦
Planned Ponding: Along Bdry.: 2,395 C.F. + Isleta Pond: 1,177 C.F. + driveway = 2,328 C.F. + Parking Area: 1,960 C.F. + W Pond: 4,495 + E. Pond: 4,616 = 16,971 C.F.


Road Shoulder
Or 6"x8" RR Ties ±1'
6'-10"
RR Ties
Vol.100 El. 37³
Cover excavate as needed for gravel or sod
Fill bottom 3 blocks w/concrete
Concrete footing
6" Curb w/6" wide slots @ 20' CC
Gravel or Wood chips
Place 6 ply Plastic Sheet under gravel on the western 180' (See Note 4)
Paving
Sidewalk
Ponding depth from 6"-0"
Pond Level
Vol.100 El. 37⁶
Paving
40'

SECTION A-A Scale 3/8"=1'

SECTION B-B Scale 1/2"=1'

PARKING AREAS BETWEEN BUILDINGS
SECTION @ D.S. END
Scale 1/2"=1'

DRAINAGE AND PONDING PLAN

The following items concerning the Pueblito Del Paiz Apartments drainage plan are contained hereon: 1. Vicinity Map, 2. Drainage Plan, 3. Grading Plan, and 4. Calculations.

This site is located on the east side of Isleta Blvd. S.W. about 0.17 of a mile south of the intersection of Isleta Blvd. and Arenal Road S.W. and slightly north of the point where Valdora Av. meets Isleta Blvd.

The proposed apartment complex will include paved parking and driveway areas, sidewalks, and roofs which will be impervious. Pervious areas will include an open area in the center of the complex, planting areas around the buildings and all along the property boundary.

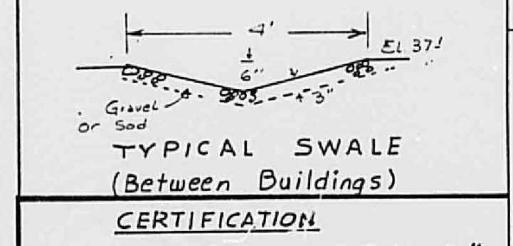
The surface of the land at this site is at a lower elevation than Isleta Blvd.. Existing topography is basicly flat, with slightly higher ground at the southeast corner of the property. It appears that there is no off-site runoff into the site except from half of Isleta Blvd. from the west.

The Flood Plain Maps show a narrow strip of land as being subject to flooding. The minimum finished floor elevation due to the flood potential is 4937.00. Planned floor elevations for these buildings is at or above the minimum elevation. The planned improvements will encroach on the flood prone area and displaced flood volume was computed. This volume was considered in providing the ponding volume from the total site.

The grading planned is for the driveway areas along the outside of the apartment complex sloped toward the adjacent planting areas. This runoff will provide some additional irrigation to the planned plantings. The parking areas, and the other surface areas around the buildings will be graded so that runoff will flow toward the ponds in the center of the complex. Runoff from the eastern half of Isleta Blvd. will be intercepted in the planting area next to the street, where some ponding is planned.

The majority of the ponding planned will be in the ponds in the center of the complex. However some ponding is also planned in the planting areas all along the property boundary and temporary ponding in the driveway areas between the buildings and along the eastern portion of the north and south driveway areas and along the east driveway area.

The unpaved ponding areas will be landscaped with grass, trees, shurbs, gravel and rock. It is anticipated that pond waters will percolate into the ground rather fast because of the porous nature of the soil. Both soils, at this site, as shown by the SCS Standard Survey Maps, Gila clay loam and Agua silty clay loam have relatively high permeability rates.



TYPICAL SWALE
(Between Buildings)

CERTIFICATION

I hereby certify that the "As-built" elevations as shown hereon are from a field survey performed by me and that the same are true and correct to the best of my Knowledge and belief.
Raul A. Rivera
PE & LS 1693
New Mexico
July 25, 1988

NO.	DATE	REVISIONS	BY
1	12/3	Added Note 4, Bldg. F.F. Elevs & Curb notes	RAR
2	12/22	Added 100yr W.L., Corr. B-B arrows & slopes	RAR

DESIGN
DESIGNED BY RAR DATE 11/87
DRAWN BY RAR DATE 11/87
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: DRAINAGE PLAN
PUEBLITO DEL PAIZ APARTMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

DRAWING NO. MAP NO. SHEET OF

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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

R# 28 DATE 3-29-02 OP E.J.P.

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