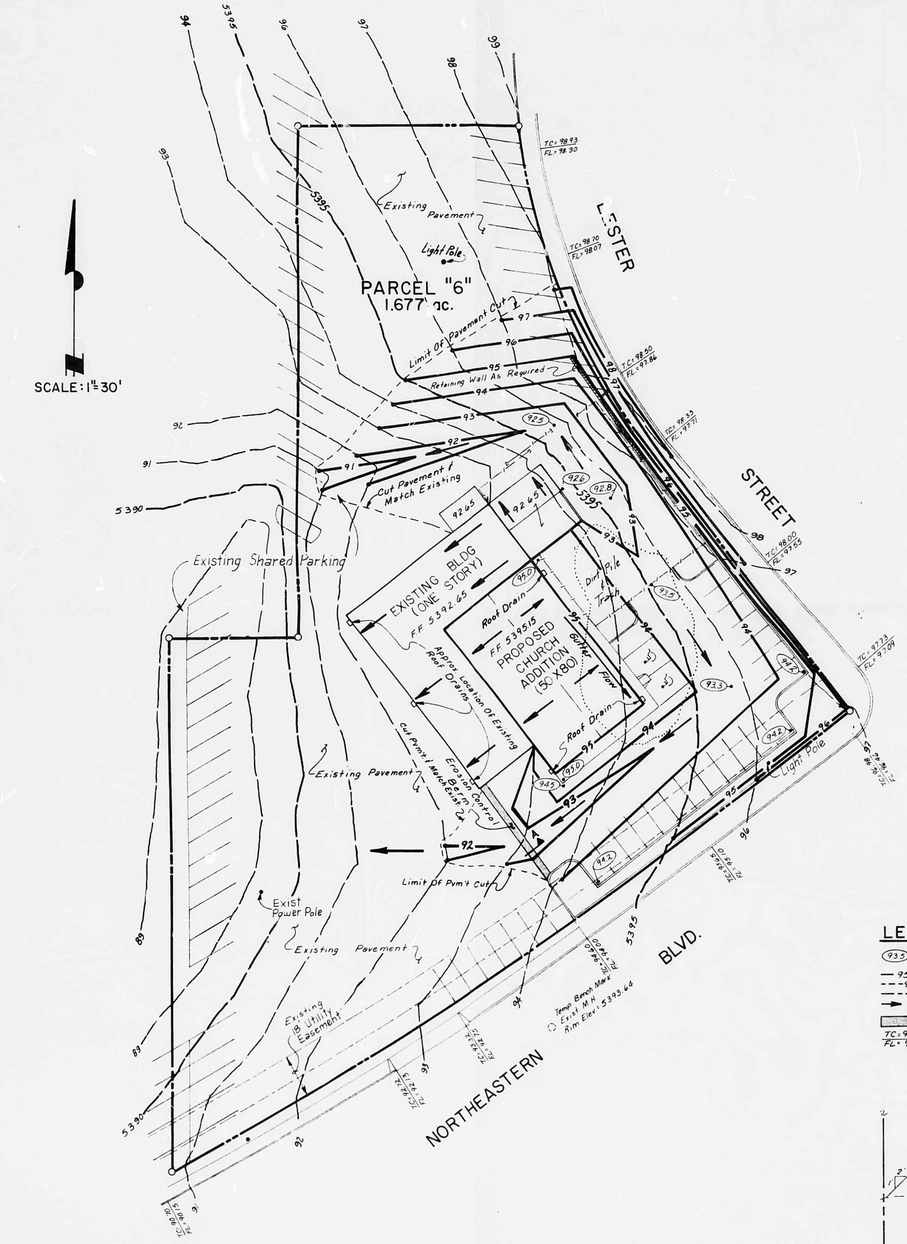
HYDROLOGY

H20/D3A
TWO PLANS

H20-D3A

2 PLANS



GENERAL NOTES:

The proposed development site consists of approximately 1.677 acres and is located at the Southwest Corner of Northeastern Boulevard and Lester Street, N.E.

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5. The site will have a minimum impact on downstream facilities.

CALCULATIONS

Existing Conditions

A = 1.677

Existing Paved Area = 1.12 Acres

Existing Roof Area = 0.1 Acres

Existing Undeveloped Area = 0.46 Acres

"C" Factor 1.12 x 0.95
0.1 x 0.9
0.46 x 0.4
C = 0.8

T_c = 10 minutes, R = 2.4 inches

$I = 6.84(2.4)(10)^{-0.51} = 5.07$

Rational Method

Q = CIA = 0.8(5.07)(1.677)

Q = 6.8 cfs Undeveloped Runoff

Proposed Conditions

Proposed paved Area = 1.43 acres

Proposed Roof Area = 0.2 acres

Proposed Landscaped Area = 0.05 acres

"C" Factor 1.43 x 0.95
0.2 x 0.9
0.05 x 0.25
C = 0.92

Q = CIA = 0.92(5.07)(1.677) = 7.8 cfs Developed Runoff

Volume

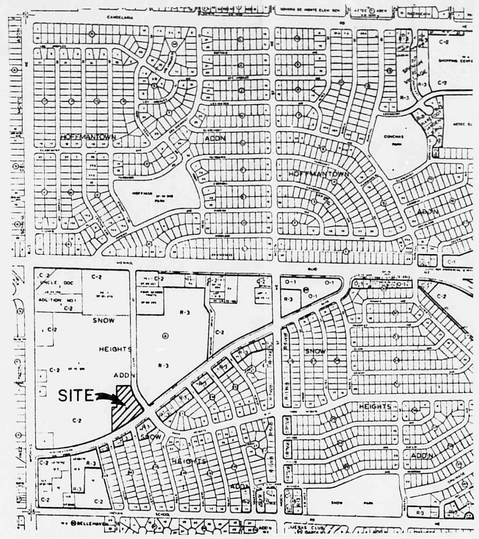
V = CRA

$V = 0.8\frac{(2.4)}{12}(1.677)(43560) =$ 1168 cf Undeveloped Volume

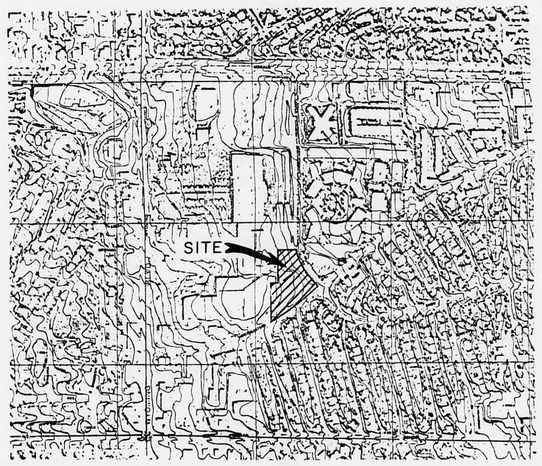
$V = 0.92\frac{(2.4)}{12}(1.677)(43560) =$ 13441 cf Developed Volume

$\triangle Q$ = 1 cfs

$\triangle V$ = 1753 cf



VICINITY MAP
SCALE: 1" = 800' H-20-Z



F.E.M.A.
FLOOD PLAIN MAP
SCALE: 1" = 500'

LEGEND

- (933) Proposed Spot Elevation
- 95 Proposed Finished Contours
- 95 Existing Contours
- Boundary
- Flow Arrows
- Erosion Control Berm
- TC=90.70 / FL=90.15 Existing Spot Elevation

BENCH MARK DATA

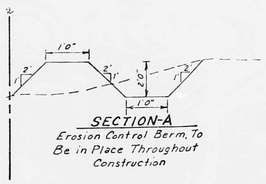
"This Station is An ACS Brass Tablet Stamped "3-G20-A" The Station is Set Flush In The Top Of The Concrete Curb Of The West Median Strip At The Intersection Of Wyoming Blvd. & Candeleria Blvd. Elevation= 5403.89 ft.

Temporary Bench Mark

Exist. Manhole Rim Elev= 5393.64. Approximately 250' West Of The Intersection Of Northeasterly Blvd. & Lester Street.

LEGAL DESCRIPTION

Parcel "6" Of The Wyoming Mall



SECTION-A
Erosion Control Berm, To Be in Place Throughout Construction

dtm & associates, inc
Denney-Tiblas-McLean & Associates, Inc.
Consulting Engineers ■ Planners ■ Surveyors
2400 COMANCHE ROAD NE ■ ALBUQUERQUE, NM 87107
TELEPHONE (505) 884-0699
D.T.M. JOB NO. 889.10

Architect

Engineer

G.W. Walker & Company
ARCHITECTS ★ CONTRACTORS ★ DEVELOPERS
150 Louisiana n.e.
Albuquerque, New Mexico
87108
Phone (505) 268-4551

HILLSIDE COMMUNITY CHURCH
PROPOSED ADDITION
GRADING AND DRAINAGE PLAN

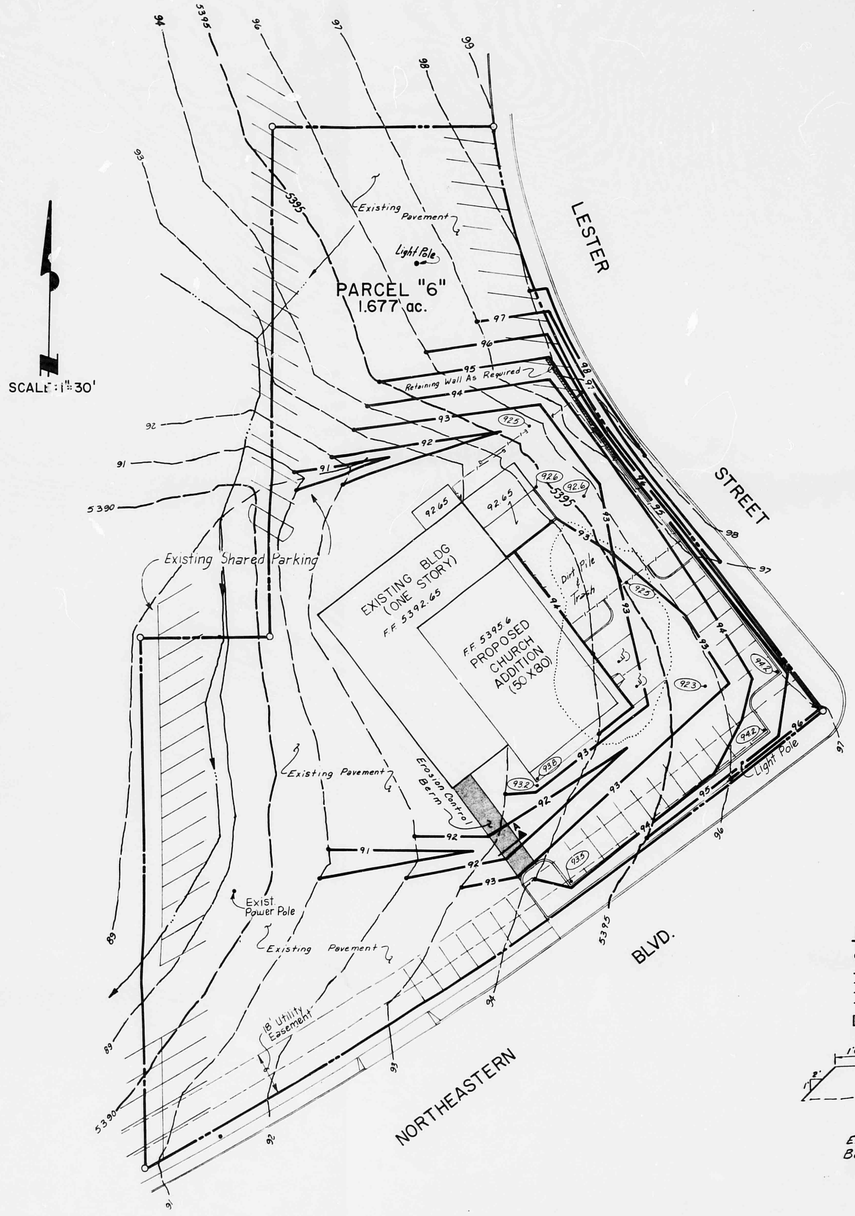
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HYDROLOGY SECTION

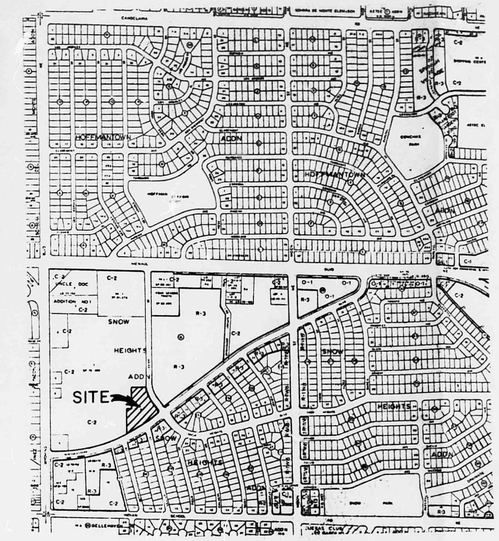
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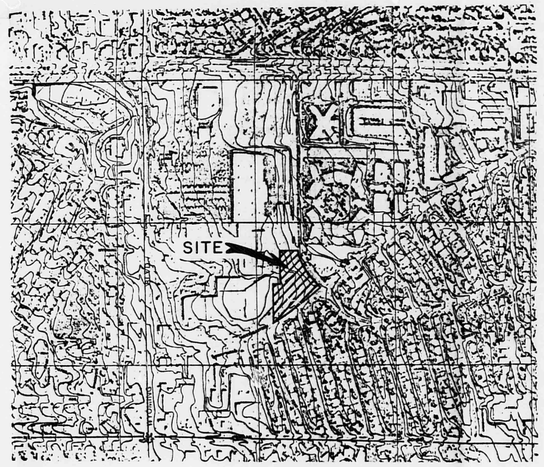




SECTION A
Erosion Control Berm, To Be in Place Throughout Construction



VICINITY MAP
SCALE: 1" = 800' H-20-Z



F.E.M.A.
FLOOD PLAIN MAP
SCALE: 1" = 500'

LEGAL DESCRIPTION

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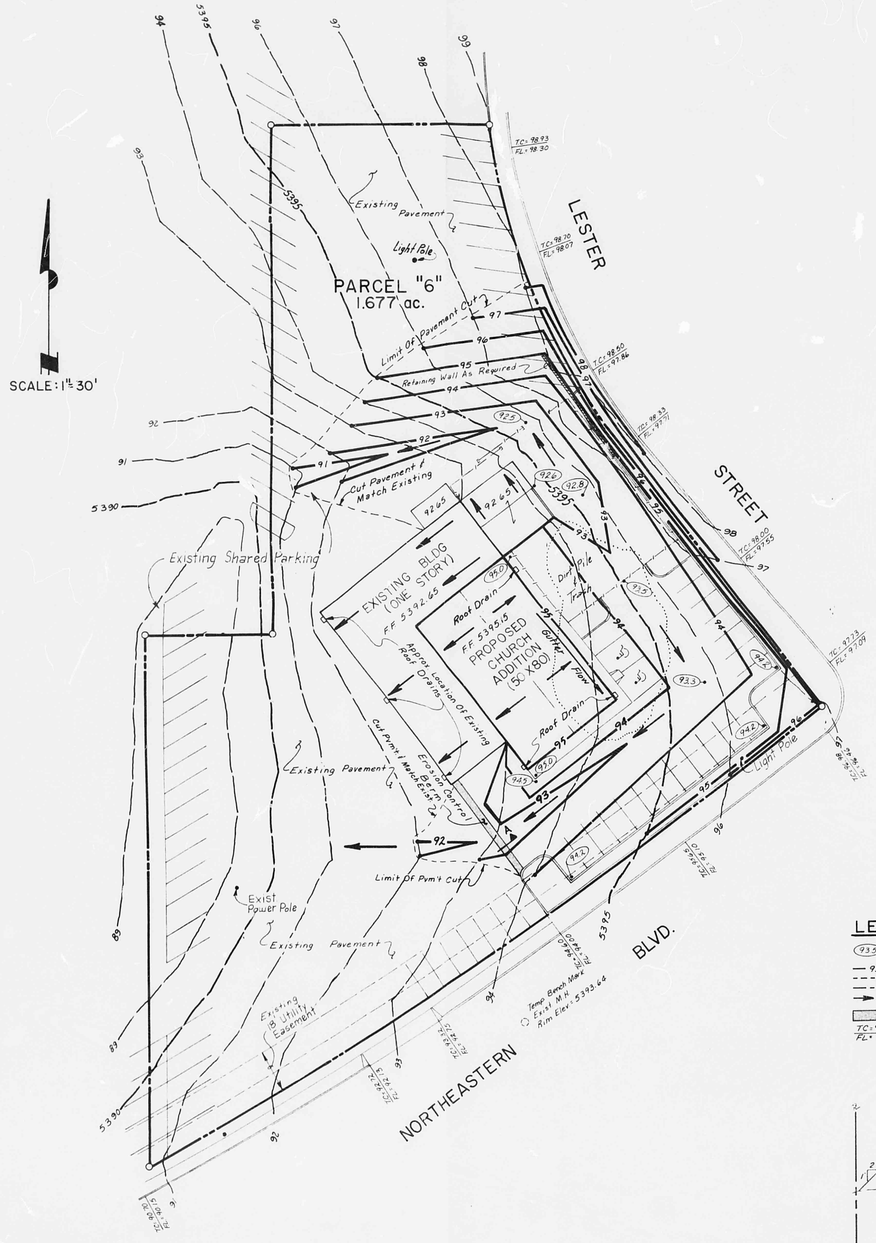
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HYDROLOGY

H20/D3A
TWO PLANS

H20-D3A

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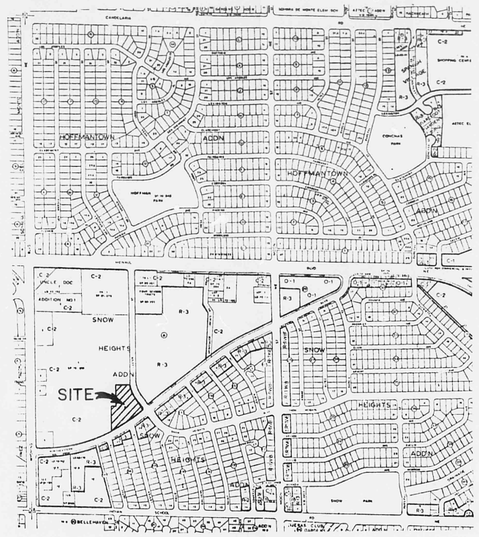
V = CRA

$V = 0.8(\frac{2.4}{12})(1.677)(43560) = 11688$ cf Undeveloped Volume

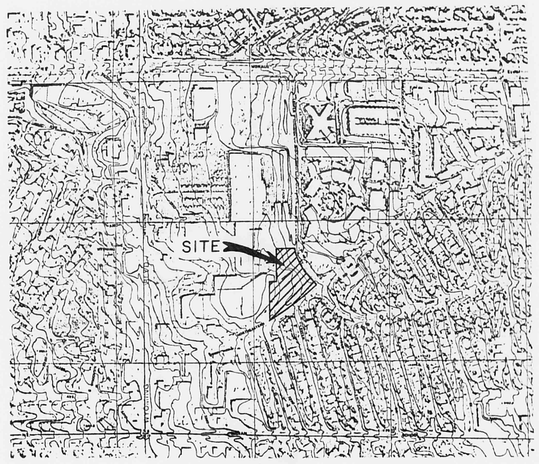
$V = 0.92(\frac{2.4}{12})(1.677)(43560) = 13441$ cf Developed Volume

$\triangle Q = 1$ cfs

$\triangle V = 1753$ cf



VICINITY MAP
SCALE: 1" = 800' H-20-Z



F.E.M.A.
FLOOD PLAIN MAP
SCALE: 1" = 500'

LEGEND

- (935) Proposed Spot Elevation
- 95 Proposed Finished Contours
- --95-- Existing Contours
- Boundary
- Flow Arrows
- Erosion Control Berm
- TC:90.70 FL=90.15 Existing Spot Elevation

BENCH MARK DATA

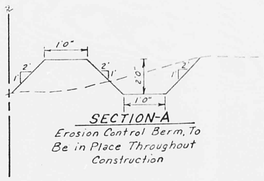
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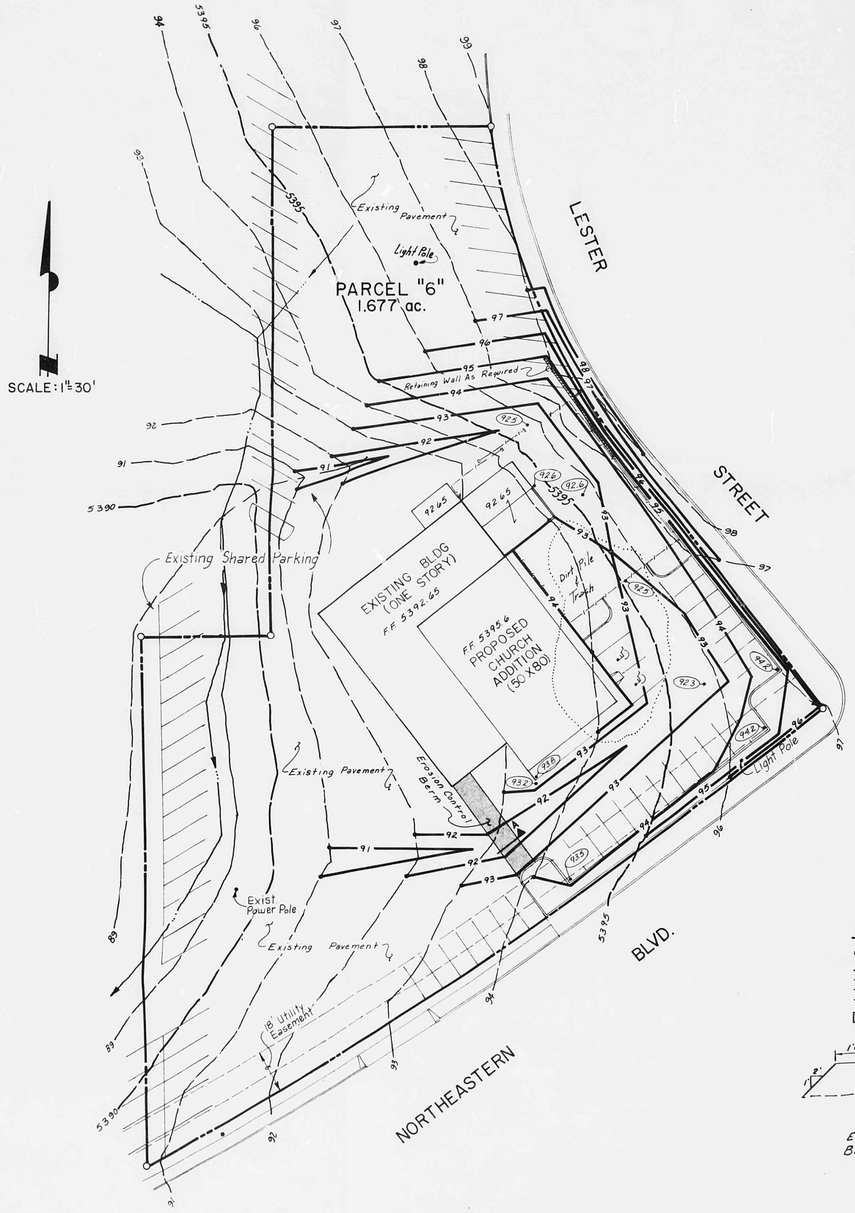
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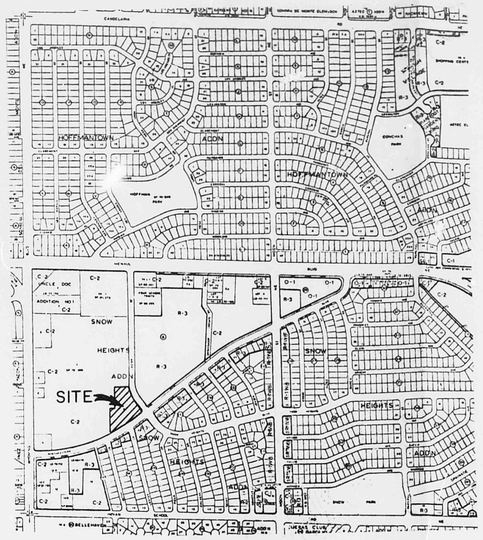
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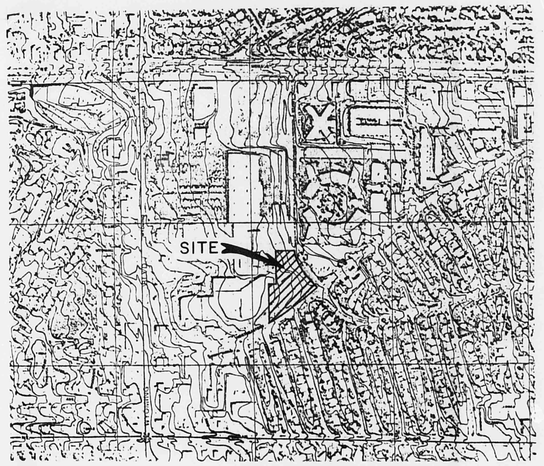


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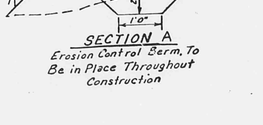
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FLOOD PLAIN MAP
SCALE: 1" = 500'

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