HYDROLOGY

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1 PLAN
NO DOCUMENTS

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1 PLAN

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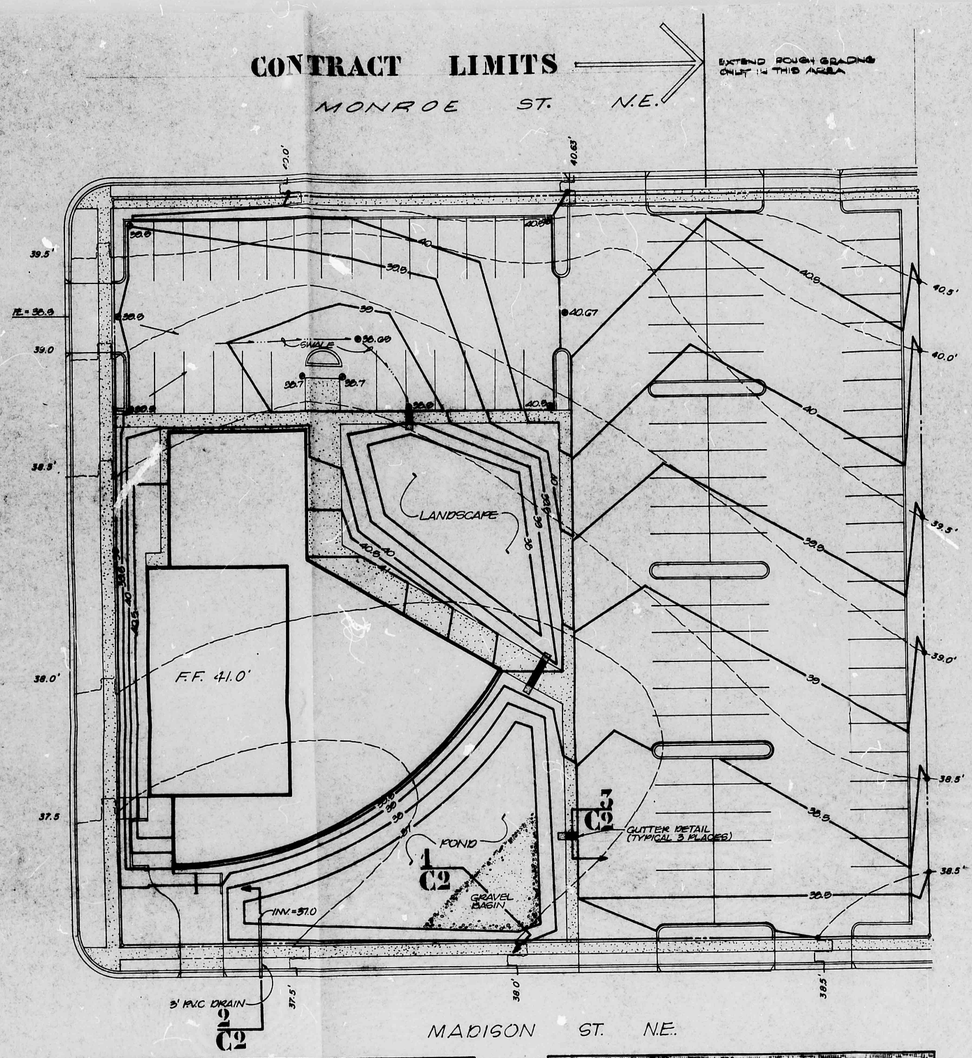
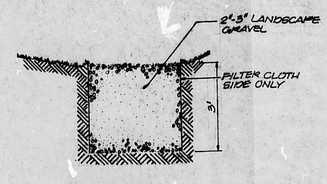
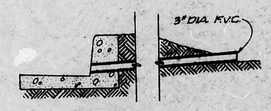




1 SECTION
N.T.S.



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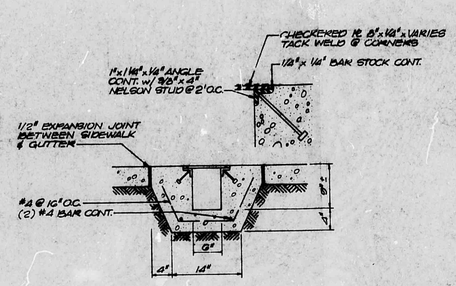


3 SECTION
N.T.S.

9-123

DRAINAGE PLAN

The following items concerning the Mid-Heights Senior Center are contained hereon:

1. Vicinity Map
2. Flood Hazard Map
3. Grading Plan
4. Calculations

The proposed building is located at the intersection of Monroe Street N.E., Madison Street N.E. and Copper Avenue N.E. The building will be used as a meeting center for senior citizens with associated parking.

The land to the south of the project site is slightly higher than the project site. Any runoff entering the site from the south will be conveyed westerly through a landscaped area and routed through the ponding system. The project site is bounded on the remaining three sides by streets. The project site is higher than all three streets, therefore, offsite flows will be negligible. The project 1) does not lie in a flood plain, 2) does not lie adjacent to a natural or artificial water course and 3) has no drainage easements on the property. Also, erosion will not result from upland runoff or from the proposed construction activities.

The grading plan shows 1) existing contours at 0'-6" intervals, 2) proposed grades indicated by spot elevations and contours, 3) swales, 4) continuity between proposed and existing elevations, 5) that sidewalks are adjacent to the property line and higher than the top of the curb, 6) that all runoff will be conveyed into ponds before leaving the site and 7) that retaining walls will not be required.

The runoff from the additional impervious areas will be retained in a pond in the center of the property and along the west property line. The ponds will retain in excess of 100% of the runoff that results from a 100 year frequency storm. The ponds are not greater than 18 inches deep and, therefore, fencing is not required.

CALCULATIONS

Area of Parcel = 68,750 s.f.

Impervious Area = 57,148 s.f.

Required Pond Volume = 57,148 x 0.1 = 5,715 c.f.

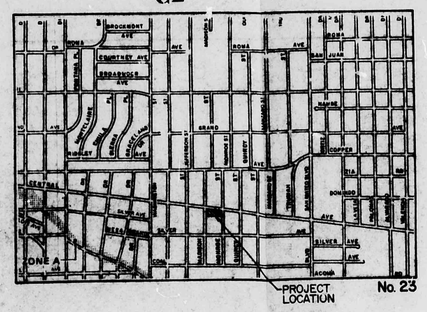
Pond Volumes:

Pond A = $\frac{12.5 + 8.5}{2}$ (400) 1 = 4,200 c.f.

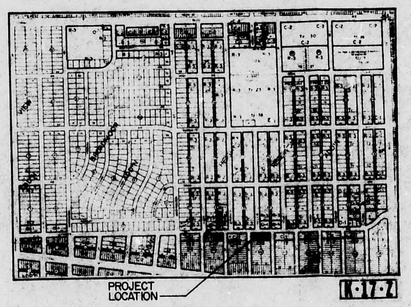
Pond B = $\frac{7.6 + 5.0}{2}$ (400) 1 = 2,520 c.f.

Parking Area = 5.0 (400) ½ (½) = 500 c.f.

Total Pond Volume = 6,320 c.f.



FLOOD HAZARD MAP



VICINITY MAP

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
THOMAS J. MANN JR.
7016-5706
AND LAND SURVEYOR

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1400 FIFTH STREET N.W. ALBUQUERQUE, N.M. 87102 (505) 247-5208

MID-HEIGHTS SENIOR CENTER
ALBUQUERQUE, NEW MEXICO

SHEET TITLE
GRADING & DRAINAGE PLAN
MISC. SITE DETAILS

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