HYDROLOGY

K19/D2

2 PLANS
NO DOCUMENTS

K9/D2

2 Plans

No Documents

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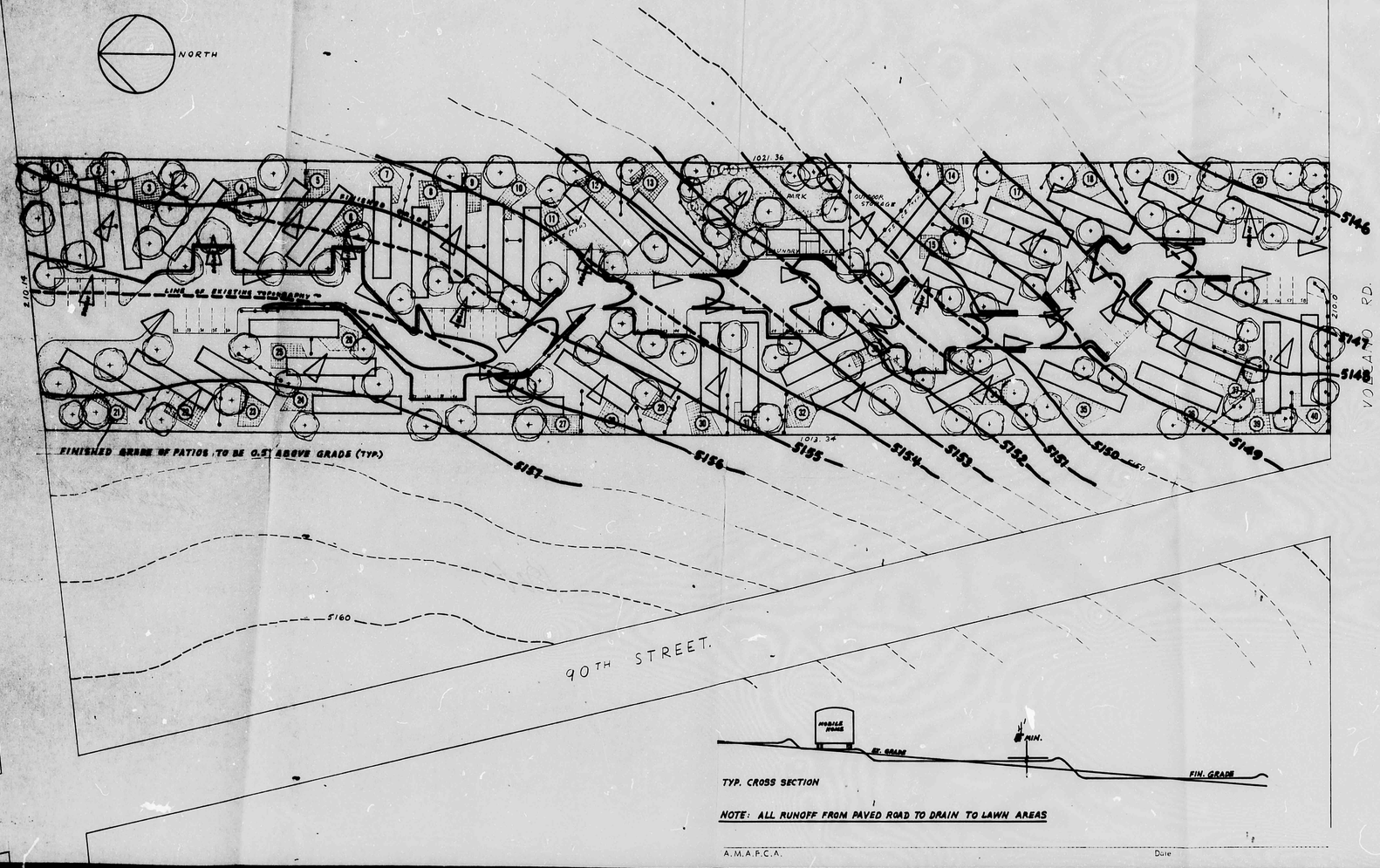
CITY OF ALBUQUERQUE C



AX 71-30
2 - 71-38

YGUADO ASSOCIATES

GRADING & DRAINAGE PLAN
Mobile Home Park
Sotero Apodaca & Gaspar Apodaca (owners)

SCALE: 1" = 40'

Town of Atrisco Grant · Bernalillo County, N.M. · Unit 5 Tract B3

T 10 N · R 2 E Section 21

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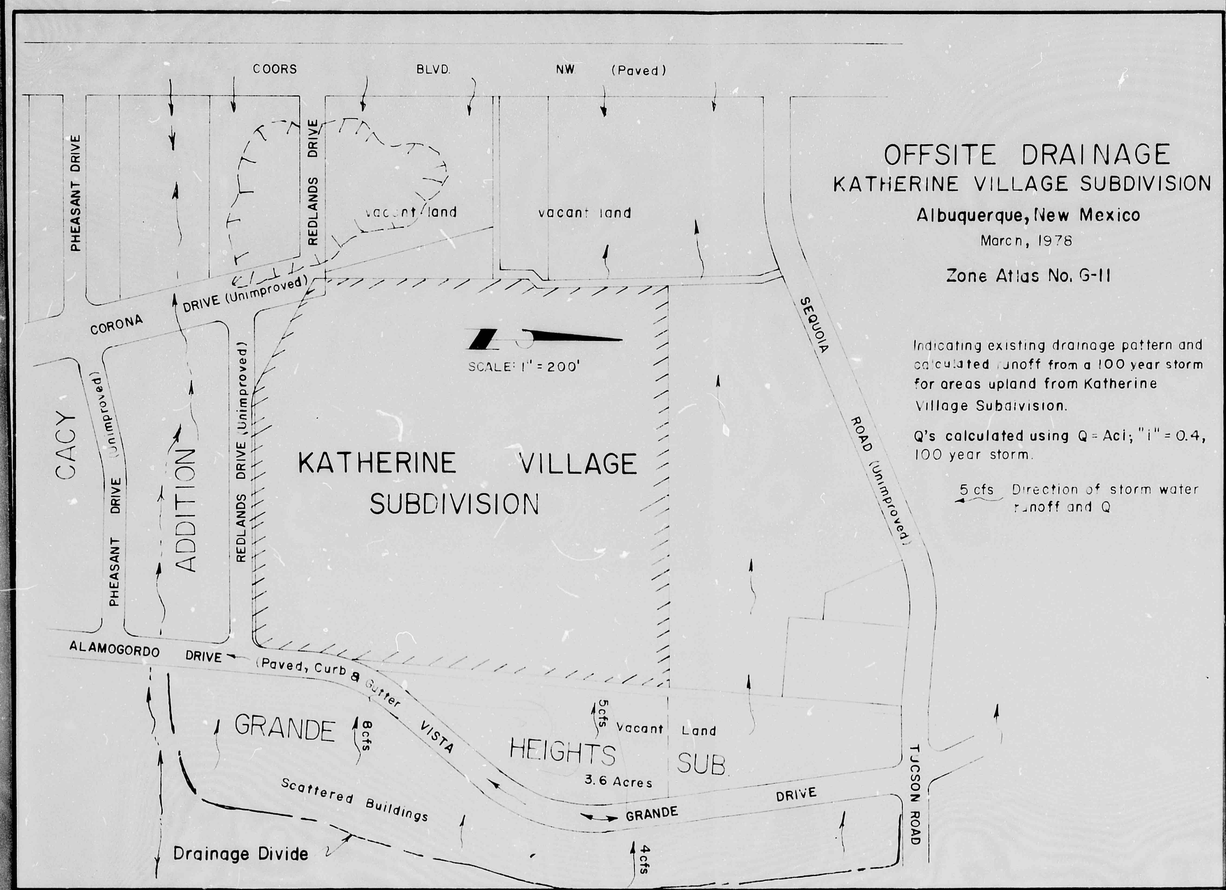

OFFSITE DRAINAGE
KATHERINE VILLAGE SUBDIVISION

Albuquerque, New Mexico

March, 1978

Zone Atlas No. G-11

Indicating existing drainage pattern and calculated runoff from a 100 year storm for areas upland from Katherine Village Subdivision.

Q's calculated using Q = Aci; "i" = 0.4, 100 year storm.

5 cfs Direction of storm water runoff and Q

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HYDROLOGY K19/D2 1 PLAN

K 19/D2

1 Plan

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DRAINAGE PLAN

The following items concerning the Sizzler Restaurant Drainage Plan are contained hereon:

1. Vicinity Map
2. Flood Plain Map
3. Site and Grading Plan
4. Calculations

The proposed restaurant is located at the intersections of Zuni Road S.E., Wisconsin Street S.E. and Virginia Street S.E. The land to the north is occupied by a drive-in restaurant and a used car dealer. The natural slope of the land is from southeast to northwest at approximately 1.5 percent.

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.

The property is bordered on three sides by streets, and the elevation of the property is above the streets. The property to the north is graded to drain to the north. Therefore, the property does not receive any offsite flows. Erosion will not result from upland runoff or from the proposed construction activities. This development will not block any drainage from adjacent properties.

The grading plan shows: (1) existing contours at 1'0" intervals, (2) proposed contours, (3) swales, (4) continuity between existing and proposed contours, (5) that the elevation at the property line is 0.3' above the top of curb at drive pads, (6) that all runoff will be conveyed into ponding areas before leaving the site and (7) that retaining walls are not required.

The ponds will retain in excess of 50 percent of the runoff from the impervious areas that results from a 100 year frequency storm. The ponds are less than 18 inches in depth and therefore do not require fencing.

The parcel of land in the southwest corner, not being developed, is owned by the owner/developer of the restaurant. Any grading required on the undeveloped site is acceptable to the owner.

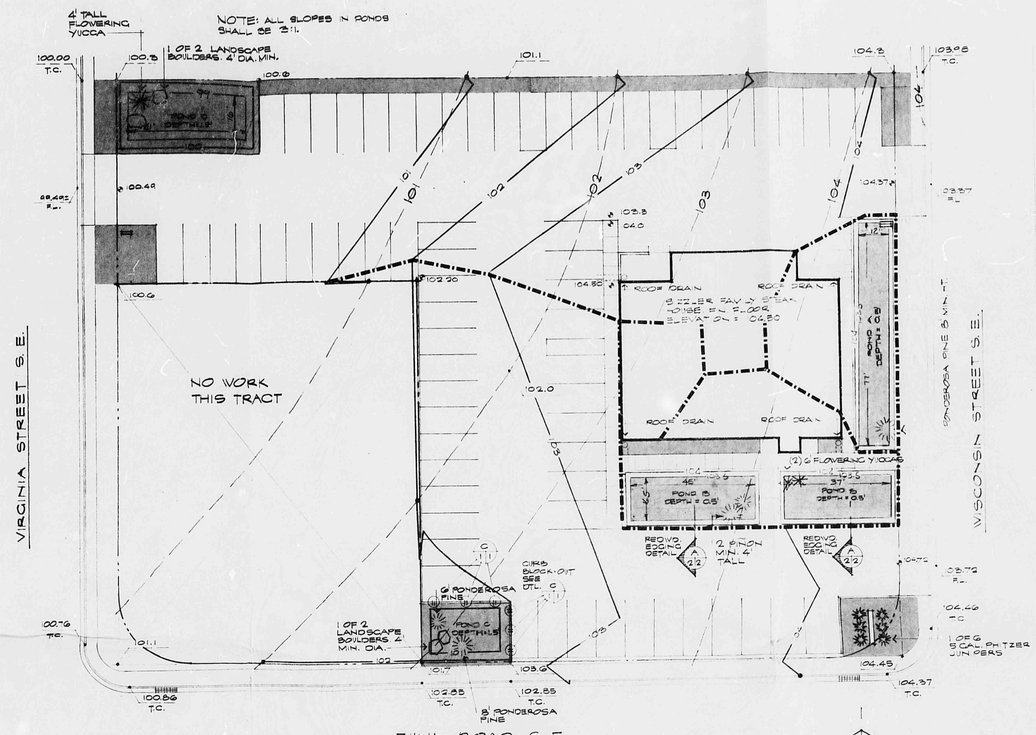
CALCULATIONS

Area of Parcel = 200 x 165 + 70 x 103 = 40,210 s.f.

Impervious Area = 33,758 s.f.

Required Pond Volume = 0.1 x 33,758 - 3,376 c.f.

Pond Volumes			Areas
Pond A	15 x 80 12 x 77		
	1,062 (½)	= 531 c.f.	2,800 s.f.
Pond B	19.5 x 90 16.5 x 87		
	1,595 (½)	= 798 c.f.	5,000 s.f.
Pond C	30 x 21.5 21 x 12.5		
	454 (1½)	= 681 c.f.	12,000 s.f.
Pond D	25 x 50 16 x 41		
	953 (1½)	= 1,430 c.f.	20,000 s.f.
Total Pond Volume		= 3,440 c.f.	

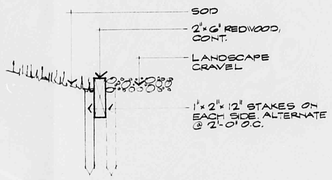


SITE GRADING / LANDSCAPING PLAN | 1" = 20'

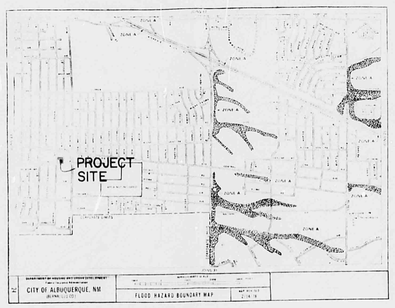
NOTE: LANDSCAPE CONTRACTOR TO PROVIDE IRRIGATION PLAN FOR ALL SODDED AREAS. SUBMIT TO ARCHITECT FOR APPROVAL. SEE SPECS, SHT. 12 FOR INFORMATION.

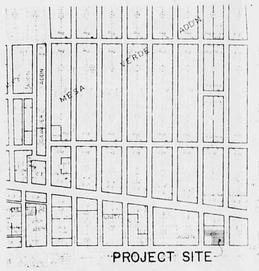
LEGEND

- PROPERTY LINE
- 102 EXIST. CONTOUR ELEV.
- 102 FINISH CONTOUR ELEV.
- 102 EXIST SPOT ELEV.
- 102 FINISH SPOT ELEV.
- LANDSCAPE GRAVEL
- SODDED AREAS
- DRAINAGE BASIN BOUNDARY



DETAIL A/2.2 1½" = 1'-0"





VICINITY MAP K-19-Z

Architect

Engineer

SIZZLER FAMILY STEAK HOUSE

ALBUQUERQUE NEW MEXICO

PROJECT 77-3

SITE GRADING / LANDSCAPING / DRAINAGE PLAN

VICINITY MAP

THE BURNS/PETERS GROUP
Architects & Planners
8000 Pennsylvania Circle NE
Albuquerque, New Mexico
87110 505 265 8645

Date 2-16-79

C-2

2 OF 40

Sheet No.

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