

LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- TC TOP OF CURB ELEVATION
- TA TOP OF ASPHALT ELEVATION
- FL FLOWLINE ELEVATION
- SWALE
- HC HANDICAP PARKING
- EXISTING CURB
- EXISTING CHAINLINK FENCE
- EXISTING WIRE FENCE
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- TW TOP OF WALL ELEVATION

SECTION POND 3

NO SCALE

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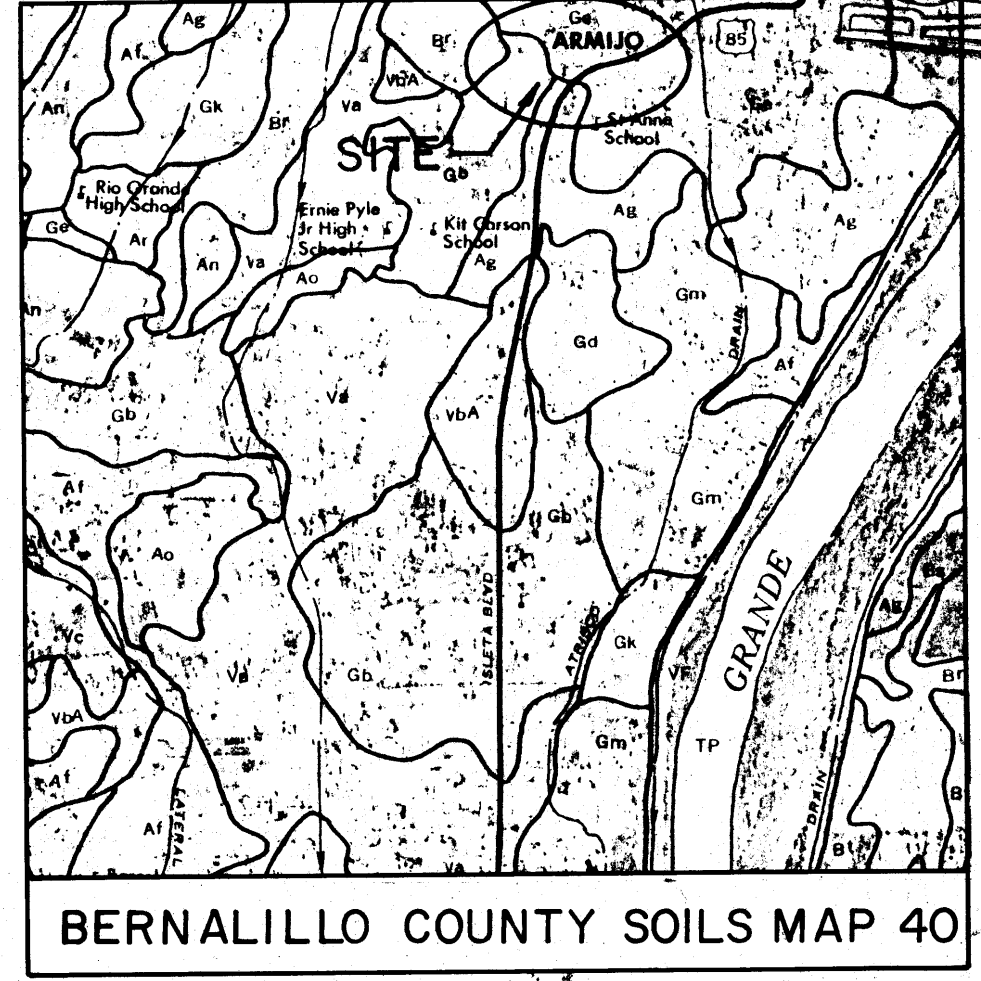
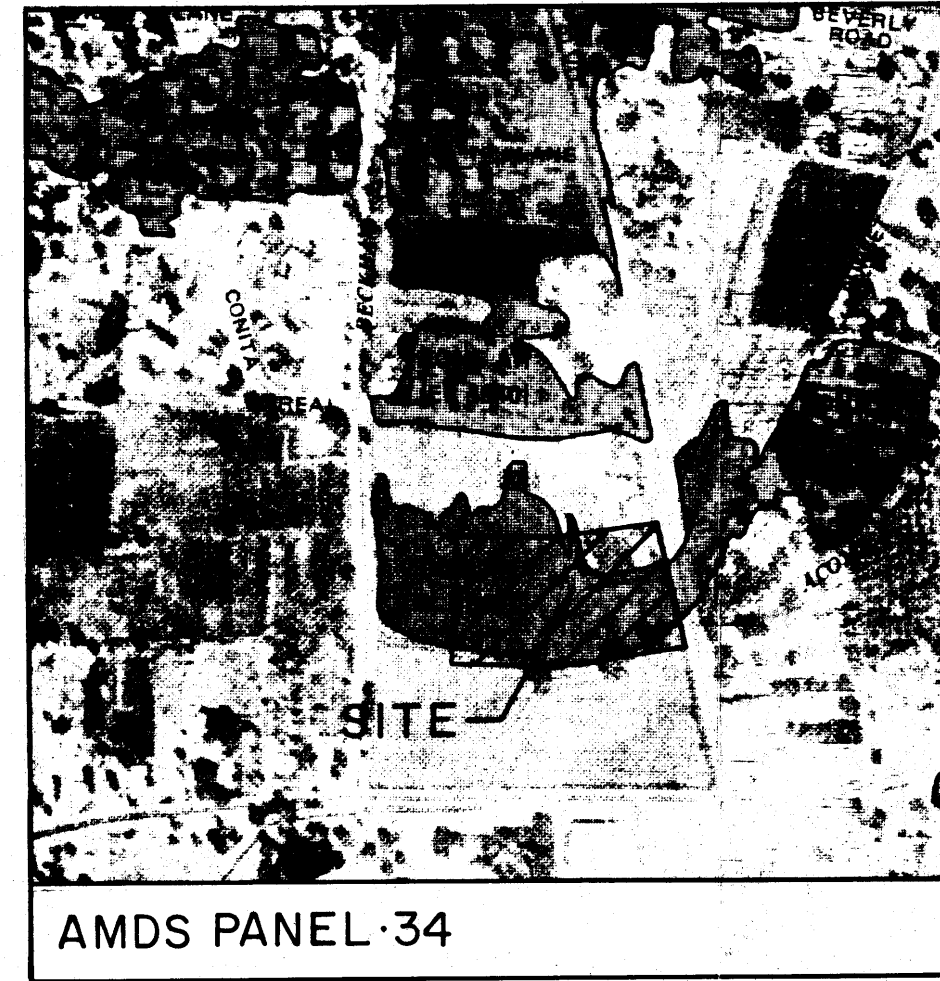
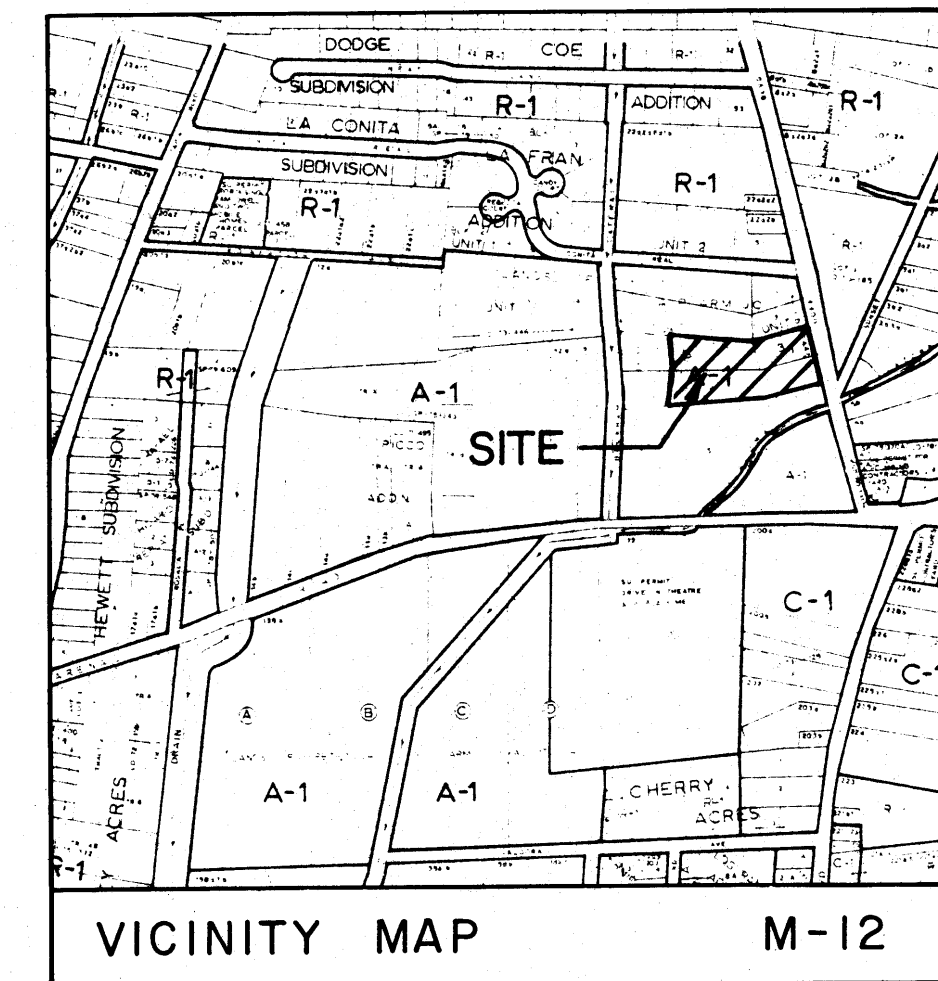
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SCALE: 1" = 30'

N



Legal Description:

A Portion of Lot 1 of Armiño Acres and a portion of Tract "5-A" Unit 2 Lands of A. P. Armiño.

Benchmark

A.C.S. Brass Tablet stamped "6-M12" set flush with the concrete located approximately 100 feet north of the centerline of the north entrance to the existing Smith's Grocery Store on Goff Road, Elevation = 4942.92.

Temporary Benchmark

Chisled X on top southeast bonnet bolt of the fire hydrant located approximately 100 feet north of the centerline of the north entrance to the existing Smith's Grocery Store on Goff Road, Elevation = 4942.92.

POND CHARACTERISTICS

A one (1) foot layer of gravel will be placed at the bottom of each pond resulting in a 60% loss in pond volume.

POND NO. 1

ELEVATION	AREA (SQ. FT.)	DEPTH (FT.)	% VOID	VOLUME (C.F.)
39.0	3186	0.5	100	1188
38.5	1566	1.0	100	1359
37.5	1152	3.17	(Gravel)	1461
34.33	1152			4008 C.F. Δ

POND NO. 2

ELEVATION	AREA (SQ. FT.)	DEPTH (FT.)	% VOID	VOLUME (C.F.)
39.0	8172	0.5	100	3528
38.5	5940	1.0	100	5468
37.5	4995	3.17	(Gravel)	6334
34.33	4995			15330 C.F. Δ

COMBINED VOLUME PONDS 1 & 2 = 10,338 C.F.
POND 1 & 2 VOLUME REQUIRED = 10,119 C.F. < 10,338
100-YEAR WATER SURFACE ELEVATION = 4938.91'

POND NO. 3

ELEVATION	AREA (SQ. FT.)	DEPTH (FT.)	% VOID	VOLUME (C.F.)
38.5	3352	1.5	100	4527
37.0	2684	1.0	40	1073
35.0	2684			5600 C.F. Δ

POND NO. 3 VOLUME REQUIRED = 5322 C.F.
100-YEAR WATER SURFACE ELEV. = 4938.42'

TOTAL POND VOLUME PROVIDED = 24,938 C.F. / 24,441 O.K. Δ

DRAINAGE PLAN

Lot 1 of Armiño Acres and a portion of Tract "5-A", Unit 2, Lands of A. P. Armiño is located on the west side of Goff Road SW just north of Arenal Road SW. The site is generally flat and lies within the AH Flood Zone (E.L. 4940.0) per FIRM Panel No. 34, City of Albuquerque New Mexico.

The west half of the property has previously been developed for retail use with associated parking and landscaping. Proposed development for the east half of the property includes approximately 30,300 square feet of additional retail space with associated parking and landscaping.

All on site storm water will be retained on site in ponds. There will be no contribution of offsite flows onto the site due to landscaping or curb and gutter barriers around the perimeter.

DRAINAGE COMPUTATIONS

Rational Method:

Existing Conditions:

Undeveloped 6 = 0.40
Contributing Area = 138,670
6 Hr - 100 yr. Storm Depth = 2.25 in. (Plate 22.2 D-1) (DPM Vol. 1)
Existing Runoff Volume: (V₁)
V₁ = (0.40)(138,670)(2.25)(1/12) = 10,400 C.F.

Developed Conditions:

Surface Type	% Value	Area	CA
Roofs	0.90	30,270	27,243
Pavement	0.95	108,400	102,980
		138,670	130,223

Composite "C" CA/A = 130,223/138,670 = 0.94

Developed Runoff Volume: (V₂)

V₂ = (0.94)(138,670)(2.25)(1/12) = 24,441 C.F.

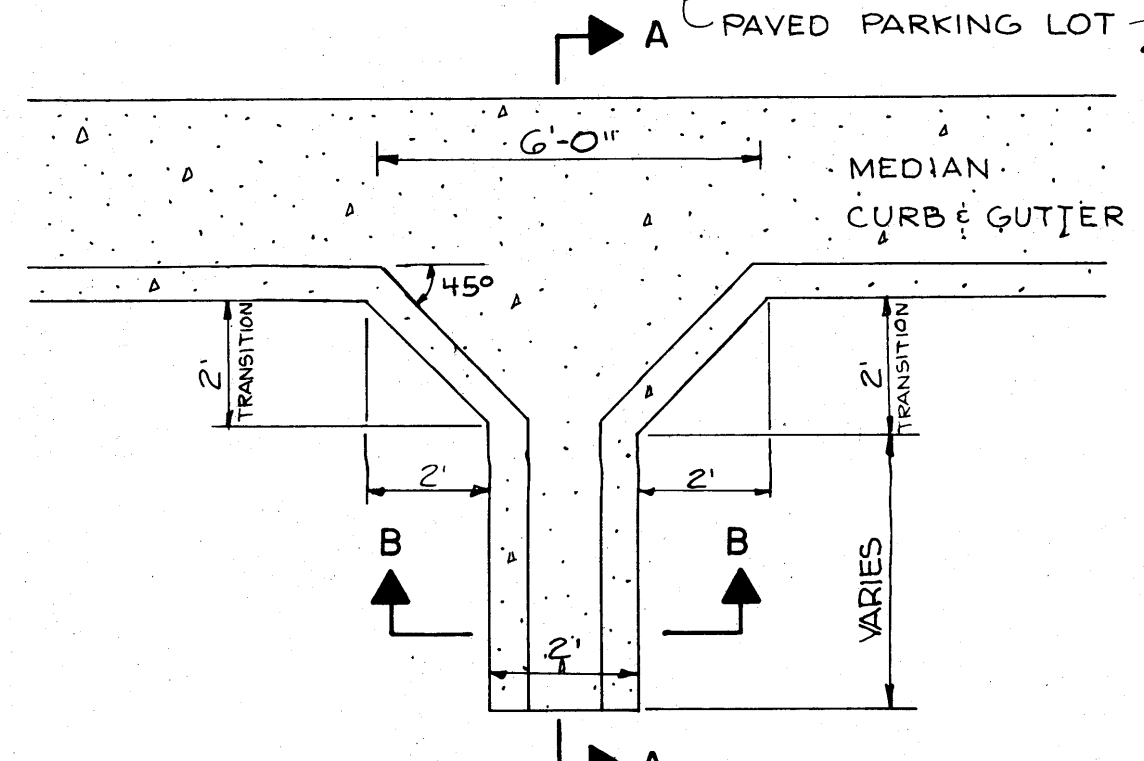
Flood Plain Displacement Method:

All water displaced below elevation 4940.0 shall be retained on site. A computer program using a grid type routine was used to compute the change in elevation between existing ground and finish ground below elevation 4940.0. Approximately 70,000 square feet of water will be displaced at an average depth of 0.27 feet. This yields a required pond volume of 19,000 cubic feet.

APPROVED:

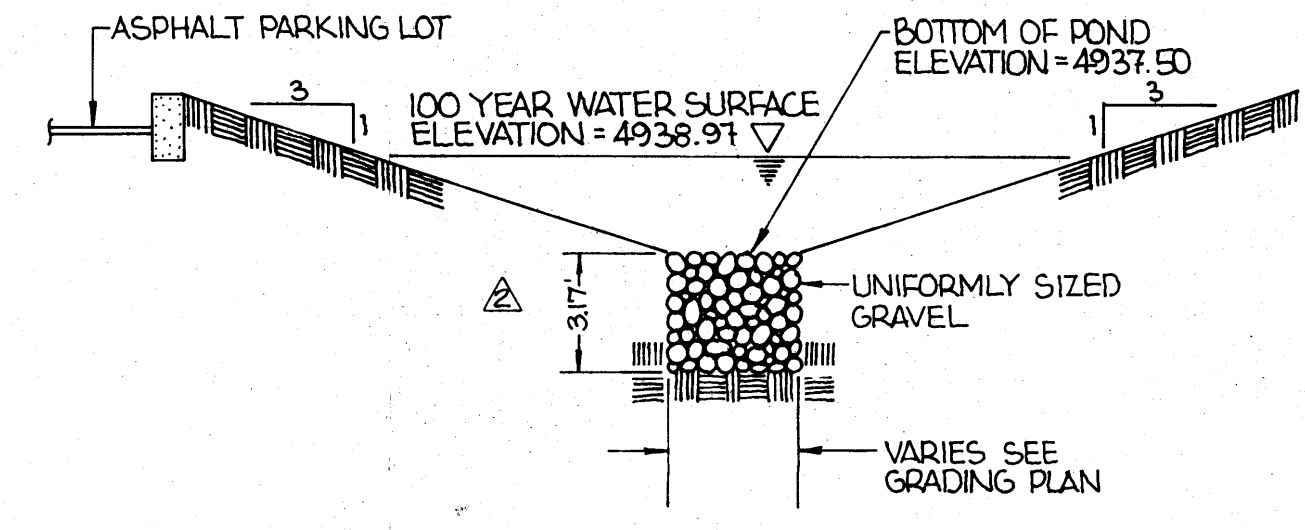
BERNALILLO COUNTY PUBLIC WORKS DEPT.

DATE



SECTION A-A

NO SCALE



SECTION B-B

NO SCALE

PIPE SECTION AT INLET & OUTLET

NO SCALE

GRADING AND DRAINAGE PLAN
SHOPPING CENTER ADDITION
ARENAL RD. & GOFF BLVD. SW

C-2