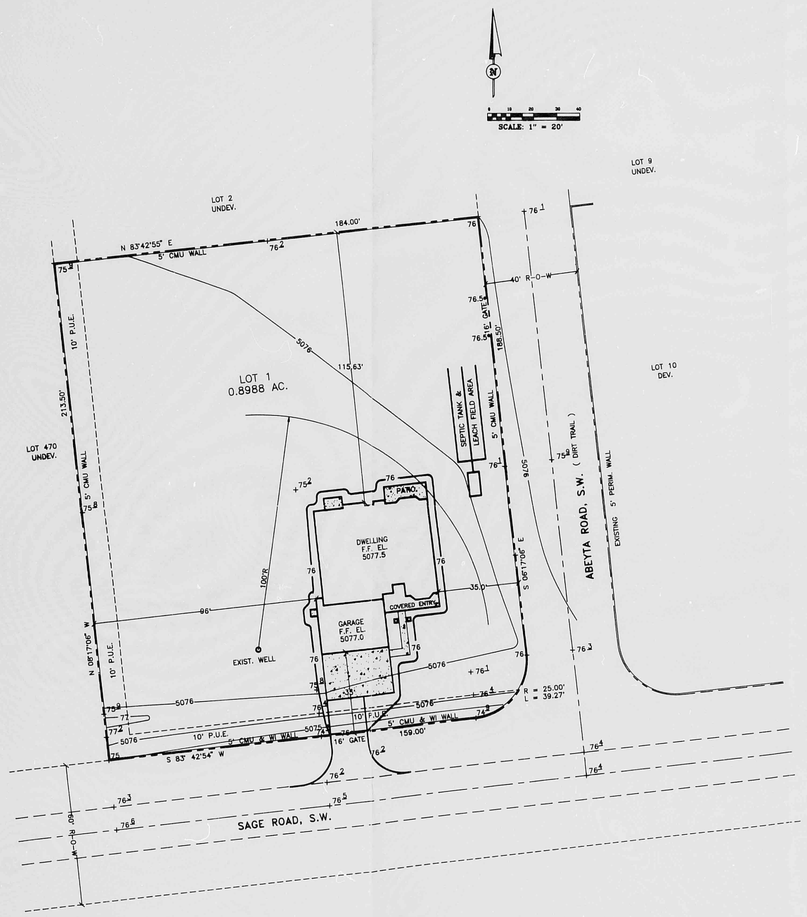
PUBLIC WORKS/HYDROLOGY

L10/D12



NOTES:
1) BASIS OF BEARINGS: C/L SAGE RD., S.W.
2) BASIS OF ELEVATION: ACS STA. 5 M-9, Elevation = 5150.92
3) TBM Top of bolt, South gate; East wall, bottom bolt = 5076.65
4) All corners set are 5/8" rebar with cap marked "Marquez 10283.
5) Date of Field Survey: September 12, 1994
6) Survey control and mapping by Marquez Surveying Co., 902 5th Street, N.W., Albuquerque, New Mexico (505) 842-6579

LOCATION MAP: L-10-Z

LEGAL DESCRIPTION: LOT 1, ABEYTA SUBDIVISION
BERNALILLO COUNTY, NEW MEXICO

ADDRESS: 3901 SAGE ROAD, N.W.

FLOOD INSURANCE RATE MAP

PANEL NO. 350002 0033

DISCUSSION:

THIS PROPOSED RESIDENCE IS LOCATED AT THE N.W. CORNER OF SAGE ROAD AND ABEYTA ROAD, S.W. THE LOT IS AT THE WESTERN FRINGE OF A 100 YEAR FLOOD PLAIN HAVING A WATER SURFACE LEVEL OF 5076.0. THE LOT IS WALLED ON ITS PERIMETER WITH A 5' HIGH CMU WALL, EXCEPT FOR THE SAGE FRONTAGE, WHICH HAS A 2' HIGH CMU WALL WITH DECORATIVE WROUGHT IRON TO THE 5' HIGH LEVEL.

THE RESIDENCE HAS A BUILDING PERMIT (BP-94-884). SOME PAD SITE WORK HAS BEEN DONE, AND THE WELL HAS BEEN INSTALLED.

DEVELOPED HYDROLOGY:

THIS PROPOSED DEVELOPMENT INCLUDES 3640 S.F. OF IMPERVIOUS AREA (HOUSE, GARAGE, DRIVEPAD, PATIOS, SIDEWALKS, AND 235 S.F. OF PAVED DRIVEWAY. IT IS ASSUMED THAT 2000 S.F. OF LAWN AND GARDEN WILL BE DEVELOPED. IN THE SHORT TERM, UNTIL RE-VEGETATION TAKES PLACE, 2000 S.F. OF DISTURBED SOIL WILL EXIST. THE ACTUAL RUN-OFF WILL DECREASE AFTER NATIVE VEGETATION HAS RE-ESTABLISHED.

IN ACCORDANCE WITH DPM PROCEDURES, THE FOLLOWING TABLE GIVES THE MAXIMUM 100 YEAR DISCHARGE FOR THIS DEVELOPMENT IN ZONE 1 AND FOR A TIME OF CONCENTRATION OF 12 MIN.

TABLE

TREATMENT	AREA (AC)	MAX RUNOFF (CFS/AC)	MAX Q (CFS)
A	0.718	1.29	0.93
B	0.046	2.03	0.09
C	0.051	2.87	0.15
D	0.084	4.37	0.37
TOTAL AREA	0.599 AC.	TOTAL 100 YR. Q	1.54 CFS = 1.71 CFS/ AC

THIS TRACT IS WALLED AROUND THE PERIMETER AND THE STORM WATERS WILL STAY ON SITE. THE EXCESS PRECIPITATION WILL BE [(AREA A)(EA) + (AREA B) (EB) + (AREA C)(EC) + (AREA D)(ED)]/ TOTAL AREA, WHERE A, B, C, AND D ARE LAND TREATMENTS AND E IS EXCESS PRECIPITATION FOR ZONE 1 FOR EACH LAND TREATMENT.

E = [(0.718)(0.44) + (0.046)(0.67) + (0.051)(0.99) + (0.084)(1.97)]/ 0.899
E = 0.63"

THE LOT AT THE END OF A MAXIMUM VOLUME 100 YEAR 6 HOUR STORM WOULD HAVE AN AVERAGE DEPTH OF 0.63 INCHES OF WATER. WITH THE HOUSE AND DRIVEWAY AREA REMOVED, THE AVERAGE DEPTH OF WATER OVER THE REMAINDER OF THE LOT IS 0.7 INCHES. THIS IS OF NO CONSEQUENCE, SINCE THE DWELLING UNIT IS 1.5 FEET ABOVE THE AVERAGE TERRAIN, AND THE GARAGE IS 1 FOOT ABOVE THE AVERAGE.

OFFSITE FLOWS:

THIS IS A WALLED LOT AND NO OFFSITE FLOWS CROSS OR LEAVE THIS SITE.

LOT ACCESS:

THIS LOT HAS A GATED ACCESS TO THE PAVED SAGE ROAD, S.W. AND A SIDE YARD GATED ACCESS TO UNIMPROVED ABEYTA ROAD, S.W.

WALLS AND FENCES:

THE LOT IS WALLED AS SHOWN ON THIS SITE PLAN.

FLOODPLAIN STATUS:

THIS LOT IS ON THE FRINGE OF A FLOODPLAIN WITH A FEMA FIRM ELEVATION OF 5076 FEET. THE FINISHED FLOOR ELEVATION IS 5077.5 FEET MSL.

AFFIDAVIT

I HAVE PERSONALLY INSPECTED THIS TRACT OF LAND.A BUILDING PERMIT HAS BEEN ISSUED, AND PRELIMINARY SITE WORK HAS BEEN DONE SINCE THIS CONTOUR MAP WAS MADE.

C.A. COONCE, N.M.P.E. # 2934 — DATE 2/19/95

LEGEND
- EXISTING SPOT ELEVATIONS
- 5000 EXISTING CONTOURS
- 5000 PROPOSED CONTOURS
- CONC CONCRETE
- PROPOSED SPOT ELEVATIONS, AS NOTED

BP-94-884

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — NO. 2934 — C.A. COONCE

C.A. COONCE & ASSOC.

ENVIRONMENTAL, WATER RESOURCES, & SANITARY CONSULTING ENGINEERS
12224 PINERIDGE N.E. ALBUQUERQUE, N.M. 87112 PH (505) 296-1089

TITLE	DRAINAGE AND GRADING PLAN		
PROJECT	RESIDENCE FOR ANACLETO AND ALICIA MARQUEZ		
DATE	02/08/95	REVISED	
DRAWN	LRC		
CHECKED	CAC		SHEET 1 of 1

R# 217 DATE 3-27-02 COP EGP

CITY OF ALBUQUERQUE

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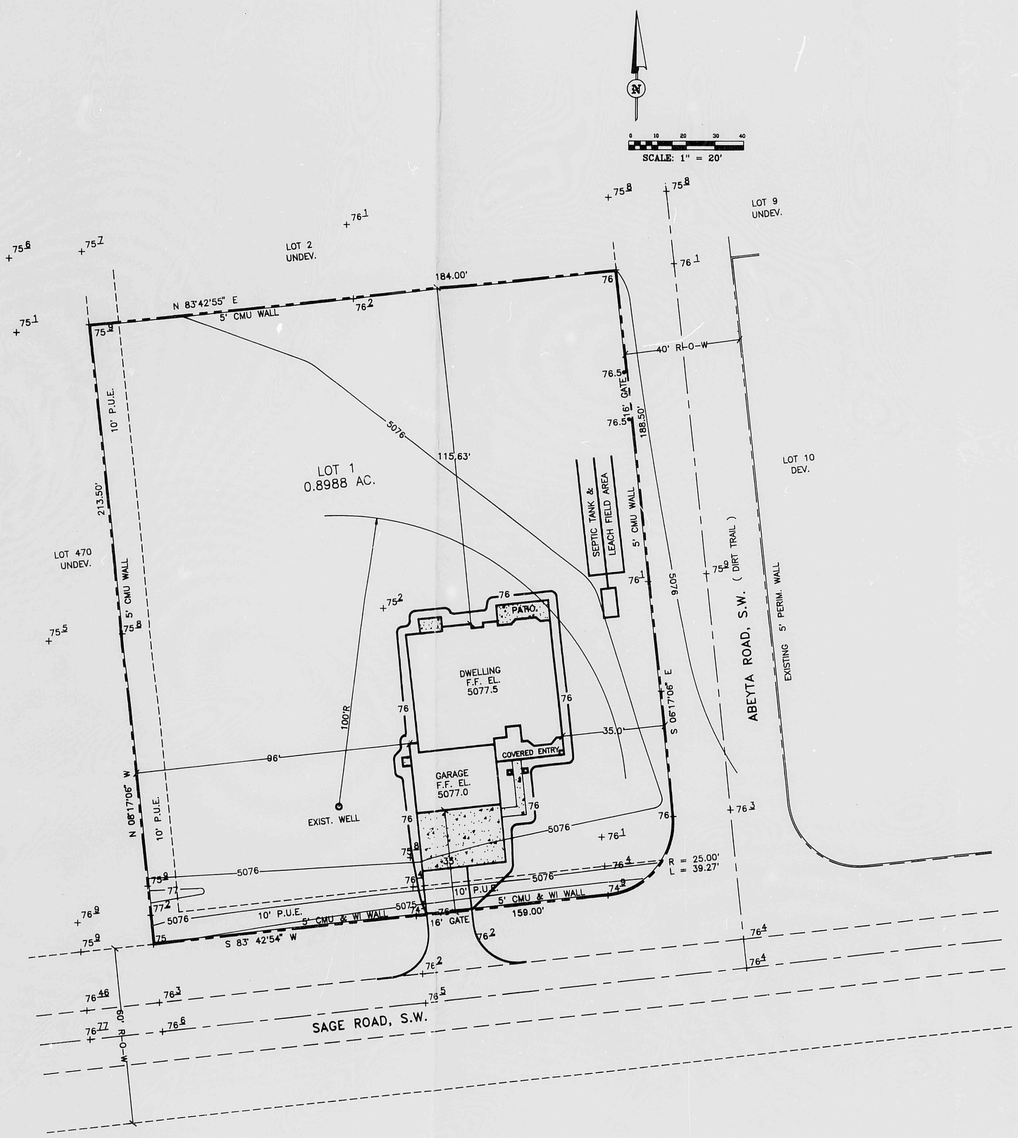
PLANS/PLATS ON FILE

FILE DESC: L10/D12

PLANS/PLATS 2

E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D F



NOTES:
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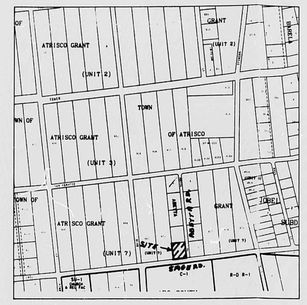
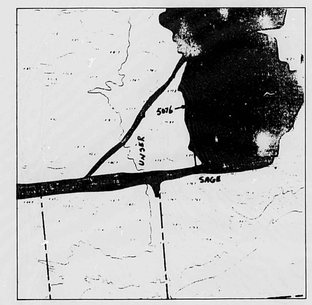


LOCATION MAP L-10-Z

LEGAL DESCRIPTION: LOT 1, ABEYTA SUBDIVSION
BERNALILLO COUNTY, NEW MEXICO
ADDRESS: 3901 SAGE ROAD, N.W.



FLOOD BOUNDARY AND FLOODWAY MAP
PANEL NO. 350002 0033

DISCUSSION:

THIS PROPOSED RESIDENCE IS LOCATED AT THE N.W. CORNER OF SAGE ROAD AND ABEYTA ROAD, S.W. THE LOT IS AT THE WESTERN FRINGE OF A 100 YEAR FLOOD PLAIN HAVING A WATER SURFACE LEVEL OF 5076.0. THE LOT IS WALLED ON ITS PERIMETER WITH A 5' HIGH CMU WALL, EXCEPT FOR THE SAGE FRONTAGE, WHICH HAS A 2' HIGH CMU WALL WITH DECORATIVE WROUGHT IRON TO THE 5' HIGH LEVEL.

THE RESIDENCE HAS A BUILDING PERMIT (BP-94-884). SOME PAD SITE WORK HAS BEEN DONE, AND THE WELL HAS BEEN INSTALLED.

DEVELOPED HYDROLOGY:

THIS PROPOSED DEVELOPMENT INCLUDES 3640 S.F. OF IMPERVIOUS AREA (HOUSE, GARAGE, DRIVEPAD, PATIOS, SIDEWALKS, AND 235 S.F. OF PAVED DRIVEWAY. IT IS ASSUMED THAT 2000 S.F. OF LAWN AND GARDEN WILL BE DEVELOPED. IN THE SHORT TERM, UNTIL RE-VEGETATION TAKES PLACE, 2000 S.F. OF DISTURBED SOIL WILL EXIST. THE ACTUAL RUN-OFF WILL DECREASE AFTER NATIVE VEGETATION HAS RE-ESTABLISHED.

IN ACCORDANCE WITH DPM PROCEDURES, THE FOLLOWING TABLE GIVES THE MAXIMUM 100 YEAR DISCHARGE FOR THIS DEVELOPMENT IN ZONE 1 AND FOR A TIME OF CONCENTRATION OF 12 MIN.

TABLE

TREATMENT	AREA (AC)	MAX RUNOFF (CFS/AC)	MAX Q (CFS)
A	0.718	1.29	0.93
B	0.046	2.03	0.09
C	0.051	2.87	0.15
D	0.084	4.37	0.37
TOTAL AREA	0.899 AC.	TOTAL 100 YR. Q	1.54 CFS = 1.71 CFS/ AC

THIS TRACT IS WALLED AROUND THE PERIMETER AND THE STORM WATERS WILL STAY ON SITE. THE EXCESS PRECIPITATION WILL BE [(AREA A)(EA) + (AREA B) (EB) + (AREA C)(EC) + (AREA D)(ED)]/ TOTAL AREA, WHERE A, B, C, AND D ARE LAND TREATMENTS AND E IS EXCESS PRECIPITATION FOR ZONE 1 FOR EACH LAND TREATMENT.

E = [(0.718)(0.44) + (0.046)(0.67) + (0.051)(0.99) + (0.084)(1.97)]/ 0.899
E = 0.63"

THE LOT AT THE END OF A MAXIMUM VOLUME 100 YEAR 6 HOUR STORM WOULD HAVE AN AVERAGE DEPTH OF 0.63 INCHES OF WATER. WITH THE HOUSE AND DRIVEWAY AREA REMOVED, THE AVERAGE DEPTH OF WATER OVER THE REMAINDER OF THE LOT IS 0.7 INCHES. THIS IS OF NO CONSEQUENCE. SINCE THE DWELLING UNIT IS 1.5 FEET ABOVE THE AVERAGE TERRAIN, AND THE GARAGE IS 1 FOOT ABOVE THE AVERAGE.

OFFSITE FLOWS:

THIS IS A WALLED LOT AND NO OFFSITE FLOWS CROSS OR LEAVE THIS SITE.

LOT ACCESS:

THIS LOT HAS A GATED ACCESS TO THE PAVED SAGE ROAD, S.W. AND A SIDE YARD GATED ACCESS TO UNIMPROVED ABEYTA ROAD, S.W.

WALLS AND FENCES:

THE LOT IS WALLED AS SHOWN ON THIS SITE PLAN.

FLOODPLAIN STATUS:

THIS LOT IS ON THE FRINGE OF A FLOODPLAIN WITH A FEMA FIRM ELEVATION OF 5076 FEET. THE FINISHED FLOOR ELEVATION IS 5077.5 FEET MSL.

PAD VOLUME DISPLACED:

THE AREA OF THE PAD AT OR ABOVE THE 5076 ELEVATION IS 5000 S.F. IF ONE ASSUMES A SMOOTH TRANSITION FROM THE 5076 CONTOUR TO THE 5075.2 ELEVATION, WHICH IS THE LOWEST POINT MEASURED BY THE SURVEYOR. THEN BY THE AVERAGE END AREA METHOD THE VOLUME DISPLACED (i.e. FILLED) IS [(5000 + 0)/2] (0.8) = 2000 CF. IF THIS VOLUME IS EQUATED TO THE ~ 1000 F X 2000 F FLOOD PLAIN, THE INCREASE IN FLOOD PLAIN ELEVATION IS 0.001 F.

LEGEND
+ EXISTING SPOT ELEVATIONS
5000 EXISTING CONTOURS
5000 PROPOSED CONTOURS
CONCRETE
• PROPOSED SPOT ELEVATIONS, AS NOTED

APR 12 1995

BERNALILLO COUNTY PUBLIC WORKS DEPT. DATE

AMAFCA DATE

AFFIDAVIT

I HAVE PERSONALLY INSPECTED THIS TRACT OF LAND, AND IT DOES NOT APPEAR THAT GRADING, FILLING, OR EXCAVATION HAVE OCCURRED SINCE THIS CONTOUR MAP WAS MADE.

C.A. COONCE, N.M.P.E. # 2934 4/6/95 DATE

PWD-54-029
BP-94-884

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO NO. 2934 CARROLL A. COONCE

4/6/95

C.A. COONCE & ASSOC.

ENVIRONMENTAL, WATER RESOURCES, & SANITARY CONSULTING ENGINEERS
12324 PINERIDGE N.E. ALBUQUERQUE, N.M. 87112 PH (505) 296-1089

TITLE DRAINAGE AND GRADING PLAN

PROJECT RESIDENCE FOR ANACLETO AND ALICIA MARQUEZ

DATE	02/08/95	REVISED				
DRAWN	LSC	04/08/95				
CHECKED	CAC					

SHEET 1 OF 1

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STATE OF NEW MEXICO
My Commission Expires 8/28/02

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