

March 4, 1998

Gilbert Aldaz, P.E. Aldaz Engineering 1605 Blair Drive NE Albuquerque, NM 87112

RE: MARBERRY FOUR PLEX (L16-D34). ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY APPROVAL. ENGINEER'S CERTIFICATION DATED FEBRUARY 23, 1998.

Dear Mr. Aldaz:

Based on the information provided on your February 23, 1998 submittal, the above referenced project is approved for Certificate of Occupancy

If I can be of further assistance, please feel free to contact me at 924-3984.

Since rely,

sa Ann Manwill, P.E.

Hydrology

c: Andrew Garcia
File———



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Marberry Four Plex	ZONE ATLAS/DRNG. FILE #: L-16/034
TECAL DESCRIPTION: Lot 7, Block 5A	Loma Linda Addt
DRB #: EPC #: LEGAL DESCRIPTION: Lot 7, Block 5A CITY ADDRESS: Girard Blvd, Noi	th of Voil
ENGINEERING FIRM: Aldaz Engr.	CONTACT: Silbert Aldaz
ADDRESS: 1605 Bbir Dr NE	PHONE: 237-1456
	CONTACT: Phil Malberry
OWNER:	JEIN PHONE: 869-1903
BOS QUE FARMS, NM BY	7068
ARCHITECT:	CUNTACT:
ADDRESS:	PHONE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
	CONTACT:
CONTRACTOR:	PHONE:
ADDRESS:	
TYPE OF SUBMITTAL: DRAINAGE REPORT DRAINAGE PLAN CONCEPTUAL GRADING & DRAINAGE PLAN GRADING PLAN EROSION CONTROL PLAN ENGINEER'S CERTIFICATION OTHER	CHECK TYPE OF APPROVAL SOUGHT: SKETCH PLAT APPROVAL PRELIMINARY PLAT APPROVAL S. DEV. PLAN FOR SUB'D. APPROVAL S. DEV. PLAN FOR BLDG. PERMIT APPROVAL SECTOR PLAN APPROVAL FINAL PLAT APPROVAL FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
PRE-DESIGN MEETING:	X CERTIFICATE OF OCCUPANCY APPROVAL
YES	GRADING PERMIT APPROVAL
X NO	PAVING PERMIT APPROVAL
COPY PROVIDED	S.A.D. DRAINAGE REPORT
DATE SUBMITTED: 02/25/98	OTHER FEB 2 5 1998 HYDROLOGY SECTION
DATE SUBMITTED: Ald 72	



July 9, 1997

Martin J. Chávez, Mayor

Gilbert Aldaz, P.E. Aldaz Engineering 1605 Blair Dr. NE Albuquerque, NM 87112

RE: MARBERRY FOUR PLEX (L16-D34). DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED JUNE 20, 1997.

Dear Mr. Aldaz:

Based on the information provided on your July 7, 1997 submittal, the above referenced project is approved for Building Permit.

An Engineer's Certification will be required prior to Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,

Jisa Ann Manwill, P.E.

Engineering Assoc./Hyd.

c: Andrew Garcia

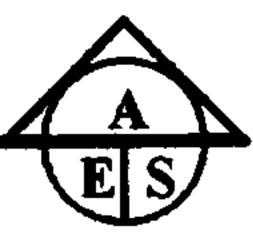


DRAINAGE INFORMATION SHEET

PROJECT TITLE: MARBERTY FOUR REX	ZONE ATLAS/DRNG. FILE #: L-16/D34
	WORK ORDER #:
1 10 12/00 15/	Long Linda Addt
CITY ADDRESS: Sirard Blud North	OF Yall DE
ENGINEERING FIRM: Alabz Engineering	CONTACT: Gilbert Alda L
ADDRESS: 1605 Blair Dr NE	PHONE: 237-1456
OWNER: Phil Marberry	CONTACT: Phil Marberry
ADDRESS: 2175 Camino De Chave Bosque Farms, NM 8700	27 PHONE: 869-7903
ARCHITECT: Bosque Farms, NM 2700	CONTACT:
ADDRESS:	PHONE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
7 1997	CONTACT:
CONTRACTOR:	PHONE:
ADDRESS: HYDROLDE	
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB'D. APPROVAL
GRADING PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER'S CERTIFICATION	FINAL PLAT APPROVAL
OTHER	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
and appetenting.	CERTIFICATE OF OCCUPANCY APPROVAL
PRE-DESIGN MEETING:	GRADING PERMIT APPROVAL
YES	PAVING PERMIT APPROVAL
X N0	S.A.D. DRAINAGE REPORT
COPY PROVIDED	DRAINAGE REQUIREMENTS
	OTHER (SPECIFY)
	Attachments:
DATE SUBMITTED 7 07/97	- As-Builts Channel Fond
BY: Liller all	
	- Plat of Easements

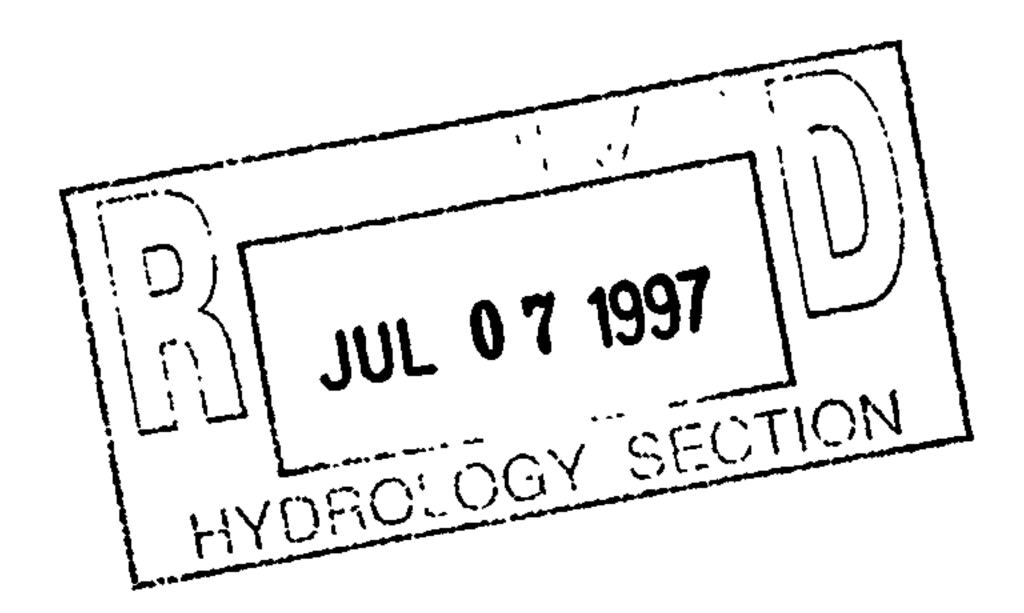
Aldaz Engineering and Surveying, Inc.

Civil Engineering, Land Planning & Surveying



July 7, 1997

Lisa Ann Manwill, P.E. Engineering Assoc. / Hyd. P.O. Box 1293 Albuquerque, NM 87103



RE: YOUR COMMENTS DATED JUNE 30, 1997 FOR MARBERRY FOUR PLEX (L16-D34)

Dear Ms. Manwill:

According to the Albuquerque Master Drainage Study (Volume 2), dated January 1981, an analysis point at the floodplain location and Girard was identified as AP-3903. This analysis point indicated a flow rate of 148cfs was to be expected at this location. The Study goes on to state that 97cfs is overland and the remaining flow of 51cfs is carried by an existing 27" storm drain that lies within the floodplain. A concrete channel was constructed in the center of this floodplain by the apartment complex south of this proposed site, this channel has a 25 foot wide throat at the entrance on Girard and gradually narrows to 7.5 feet width.

Attached is a cross section at the throat and a weir calculation assuming a rectangular opening, the capacity at this location indicates a flow rate of 274cfs. Also shown is a cross section at the main channel where it is at the narrowest, using a open channel flow program that utilizes a manning's equation indicates a normal depth of 1.06 feet with 1.83 feet of freeboard. In 1991 the City constructed a Intercepting and Detention Facility immediately east of Girard Boulevard which intercepts offsite flows, this may have further reduced the flow rate expected at this location.

I will respond to your comments as follows:

- 1. The base flood elevation assuming none of the above mention drainage improvements were in place would be 5265.5. This is based on taking a cross section at the east side of the four plex, extending this section to the bottom of the channel which has a invert elevation of 5264.5 and adding 1 foot since this is an AO(Depth 1). The finish floor elevation proposed is 5269.83, 4.33 feet above the base flood elevation.
- 2. Moving the building off the shaded floodplain area would not work since the lot is only 60 foot wide, an exception is requested based on the above calculations provided.
- 3. See previous calculations.

If you should have any questions, please do not hesitate to contact me at 237-1456.

Sincerely,

Gilbert Aldaz, P.E. & P.S.

22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

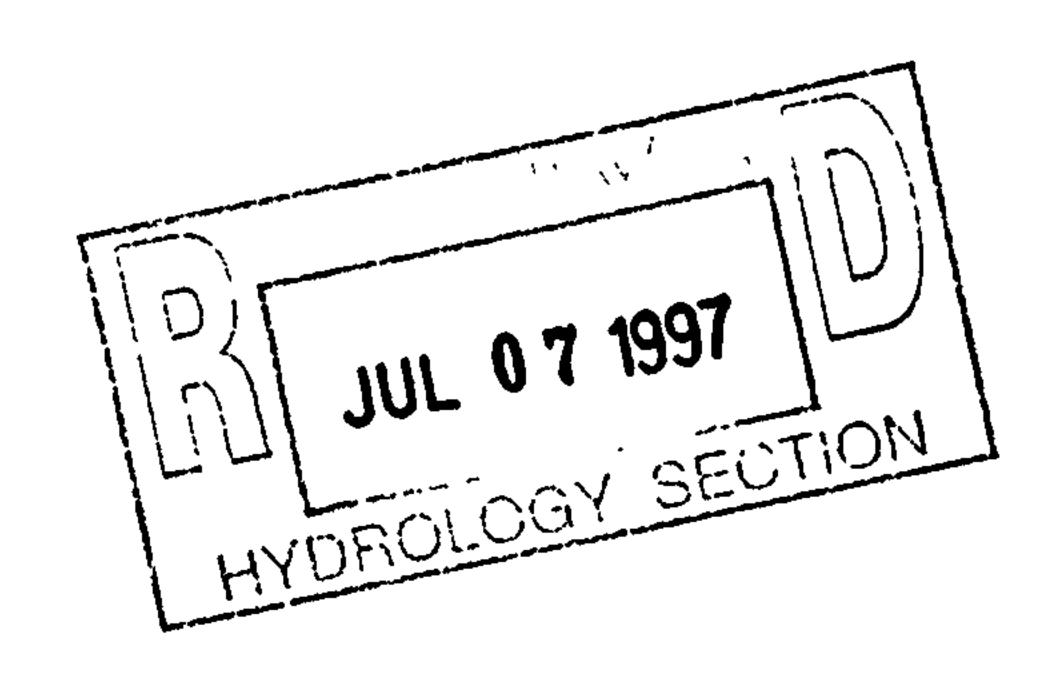
Canpana

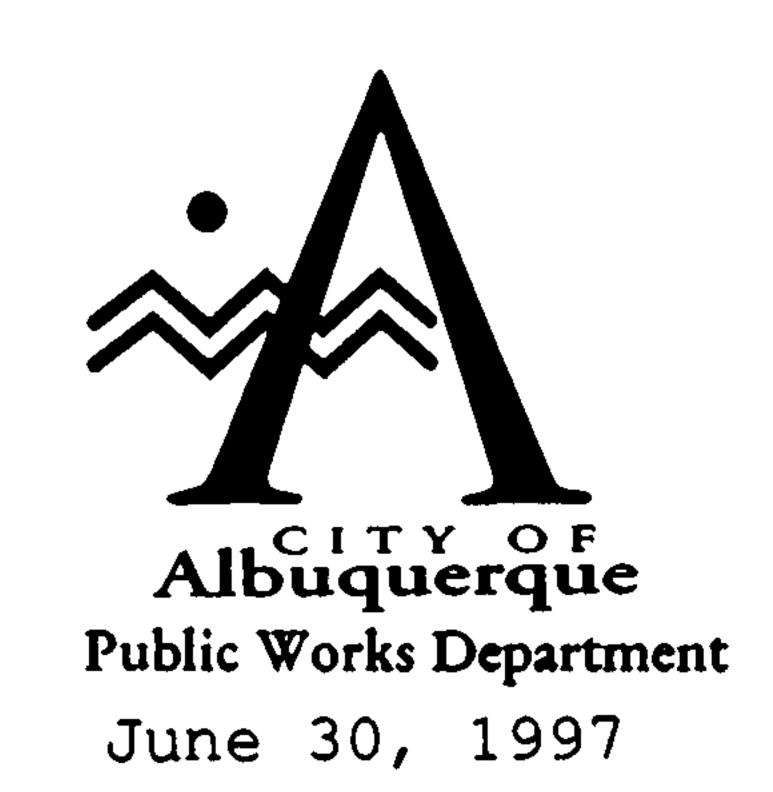
TRAPEZOIDAL CHANNEL ANALYSIS NORMAL DEPTH COMPUTATION

July 1, 1997 open channel flow from Girard Blvd for Manning's Equation

PROGRAM INPUT DATA: VALUE DESCRIPTION 148.0 Flow Rate (cubic feet per second)........... 0.0450 Channel Bottom Slope (feet per foot).......... 0.0150 Manning's Roughness Coefficient (n-value)....... Channel Side Slope - Left Side (horizontal/vertical)... 0.01 Channel Side Slope - Right Side (horizontal/vertical)... 0.01 Channel Bottom Width (feet)............... 7.5 PROGRAM RESULTS: VALUE DESCRIPTION 1.06 18.54 Flow Velocity (feet per second)............ 3.171 Froude Number (Flow is Super-Critical)....... Velocity Head (feet).............. 5.34 6.40 Energy Head (feet)................... 7.98 Cross-Sectional Area of Flow (square feet)...... 7.52 Top Width of Flow (feet)................ TRAPEZOIDAL CHANNEL ANALYSIS COMPUTER PROGRAM, Version 1.3 (c) 1986

Dodson & Associates, Inc., 7015 W. Tidwell, #107, Houston, TX 77092 (713) 895-8322. A manual with equations & flow chart is available.





Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Gilbert Aldaz Aldaz Engineering 1605 Blair Dr. NE Albuquerque, NM 87112

RE: MARBERRY FOUR PLEX (L16-D34). DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED JUNE 20, 1997.

Dear Mr. Aldaz:

Based on the information provided on your June 23, 1997 submittal, I offer the following comments:

- The finish floor elevation must be a minimum of 1-foot above the base flood elevation. What is the base flood elevation.
- The building pad is not to encroach the shaded floodplain area.
- Please discuss the offsite flows from the east that create this floodplain.

If I can be of further assistance, please feel free to contact me at 924-3984 or Susan Calongne at 924-3982.

Singerely

Lisa Ann Manwill, P.E.

Engineering Assoc./Hyd.

Andrew Garcia File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: MARBERTY FOUR PIEX 2	ONE ATLAS/DRNG. FILE #:
npr #.	WORK ORDER #:
LEGAL DESCRIPTION: Lot 7, Block 5A,	Loma Linda Addt
CITY ADDRESS: Sirard Blud, North o	of Vail SE
ENGINEERING FIRM: Aldaz Engineering	contact: Gilbert Aldaz
ADDRESS: 1605 Blair Dr NE	PHONE: 237-1456
OWNER: Phil Marberry	CONTACT: Phil Marberry
ADDRESS: 2175 Camino De Chavez Bosque Farms, NM 87068	PHONE: 869-7903
ARCHITECT: Bosque Farms, NM 87068	CONTACT:
	DUANTE A
ADDRESS:	PHONE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
	ECK TYPE OF APPROVAL SOUGHT:
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DRAINAGE REPORT —	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN —	S. DEV. PLAN FOR SUB'D. APPROVAL
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GRADING PLAN	
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER'S CERTIFICATION	FINAL PLAT APPROVAL
OTHER	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
PRE-DESIGN MEETING:	CERTIFICATE OF OCCUPANCY APPROVAL
YES SEED SEED SEED SEED SEED SEED SEED S	GRADING PERMIT APPROVAL
X NO	PAVING PERMIT APPROVAL
	S.A.D. DRAINAGE REPORT
COPY PROVIDED JUN 2 181997	DRAINAGE REQUIREMENTS
TO T	/annertwy)
HYDROUGH	OTHER (SPECIFI)
	Attachments:
	Attachments: - As-Builts Channel
DATE SUBMITTED, 96/23/97 BY: Sullim Ull	Attachments: - As-Builts Channel Fond