CITY OF ALBUQUERQUE

March 27, 2012

Ronald Ray Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109



Re: Rocky Mountain RV

Grading Plan

Engineer's Stamp dated 2/29/12 (L22/D35B)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 3/5/12, the above referenced plan is approved for Site Development Plan for Building Permit by the DRB, Grading Permit and Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Upon completion of the project, provide an Engineer Certification for our files.

PO Box 1293

If you have any questions you can contact me at 924-3986 or Rudy Rael at 924-3977.

Albuquerque

NM 87103

www.cabq.gov

Sincerely,

Curtis Cherne, P.E., CFM

Senior Engineer, Planning Dept.

Development and Building Services

RER/CAC

C: File

tierrawestllc.com



TIERRA WEST, LLC

'March 5, 2012

Mr. Curtis Cherne Senior Engineer City of Albuquerque Public Works Hydrology Department P.O. Box 1293 Albuquerque, NM 87103

DRAINAGE PLAN FOR PROPOSED AA RETAIL EXPANSION @ RE:

12700 CENTRAL AVE SE, ALBUQUERQUE NM

TRACT B1A1B1 OF DORADO VILLAGE SUBDIVISION / PROJECT #1006828

ZONE ATLAS MAP L-22-Z

Dear Mr. Cherne:

Transmitted with this letter is the drainage plan for the above referenced property. The site is located near the southeast corner of Central Avenue and Western Skies Drive SE. The site is currently developed, containing retail and services building for Rocky Mountain RV and Marine, along with parking lot facilities and landscaping on the 8.73 acre lot. The approved Drainage Report and Grading and Drainage Plan are included with this transmittal for your records. An Administrative Amendment package has been submitted to the City for the minor site amendment.

Rocky Mountain RV and Marine suffered an internal fire and will be repairing the damaged service bay area and proposes to expand the garage bays by 10 feet on the building's west side (shown as "ADDITION" on the attached plan), requiring an approved amendment to the site plan. The proposed additions were impervious prior to the fire and redevelopment. As such the drainage and hydrology does not change.

The drainage management plan for the amended site proposes to discharge the same developed flow rate and quantity as the existing site is currently demonstrating, in that total impervious square footage will remain unchanged and the approved grading design and drainage management will be maintained. The attached Grading and Drainage Plan narrative summarizes the existing drainage management plan. Positive drainage will be maintained for the building expansion and no other drainage alterations will result from the proposed change. Therefore, no increase to the peak discharge or change to developed drainage flow pattern will be experienced as a result of the proposed site amendment.

Tierra West LLC requests approval of a Grading and Drainage Plan based on the information provided. If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

Ronald R. Bohannan, PE

Enclosure/s

JN: 2011059 RRB/PE/cla

HYDROLOGY SECTION

MAR 0 5 2012

DRAINAGE AND TRANSPORTATION SHEET

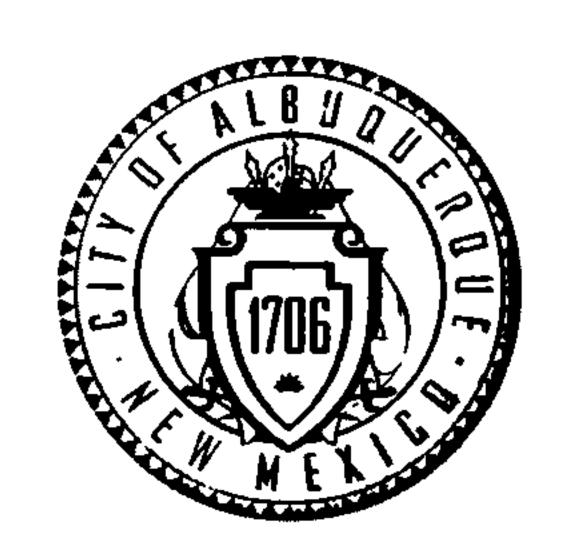
(REV. 1/28/2003rd)

PROJECT TITLE: DRB #: 1006828	Rocky Mountain RV and Marine EPC #:	ZONE MAP/ WORK ORD	DRG. FILE #: L-22 // つっろろう
LEGAL DESCRIPTION: CITY ADDRESS:	Tract B-1-A-1-B of Dorado Village Subdivisi 12700 Central Avenue, SE	ion	
ENGINEERING FIRM: ADDRESS: CITY, STATE: OWNER: ADDRESS: CITY, STATE: ARCHITECT:	Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM Rocky Mountain RV and Marine 12700 Central Avenue, SE Albuquerque, NM Parkline/ West, Inc	CONTACT: PHONE: ZIP CODE: CONTACT:	(505) 858-3100 87109 Rick Scholl 505-292-7800 87123
ADDRESS: CITY, STATE: SURVEYOR: ADDRESS: CITY, STATE:	PO Box 93457 Albuquerque, NM Precision Surveys, Inc. 5571 Midway Park Place, NE Albuquerque, NM	PHONE: ZIP CODE: CONTACT: PHONE: ZIP CODE:	(505) 761-9700 87199-3457 Larry Medrano 505-856-5700 87109
CONTRACTOR: ADDRESS: CITY, STATE:	TBD	CONTACT: PHONE: ZIP CODE:	
DRAINAGE PL CONCEPTUAL X GRADING PLAN EROSION CON ENGINEER'S C CLOMR/LOMR TRAFFIC CIRCLE ENGINEERS CE	PORT AN 1st SUBMITTAL, <i>REQUIRES TCL or equal</i> LAN RESUBMITTAL GRADING & DRAINAGE PLAN	SIA / FINAN PRELIMINA S. DEV. PL S. DEV. PL SECTOR P FINAL PLA FOUNDATI X BUILDING I CERTIFICA CERTIFICA GRADING I PAVING PE	APPROVAL SOUGHT: NACIAL GUARANTEE RELEASE NAY PLAT APPROVAL AN FOR SUB'D. APPROVAL AN FOR BLDG. PERMIT APPROVAL LAN APPROVAL T APPROVAL ON PERMIT APPROVAL PERMIT APPROVAL ATE OF OCCUPANCY (PERM.) ATE OF OCCUPANCY (TEMP.) PERMIT APPROVAL ERMIT APPROVAL ERMIT APPROVAL DER APPROVAL
WAS A PRE-DESIGN CON YES X NO COPY PROVIDE			MAR 0 5 2012 paid 50.00 HYDROLOGY
DATE SUBMITTED:	2/28/2012	BY: Ronald R Bo	Panann, ECTION

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of sumbittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plans: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE



August 27, 2012

Ronald Ray Bohannan, P.E.

rrb@tierrawestllc.com

Tierra West, LLC.
5571 Midway Park Place N.E.
Albuquerque, NM 87109

Re: Rocky Mountain RV and Marine, 12700 Central Ave SE,

Request for Permanent C.O. -Accepted

Engineer's Stamp dated: 02-29-12, (L22/D035B)

Certification dated: 08-23-12

Dear Mr. Bohannan,

Based upon the information provided in the Certification received 08-23-12, the above referenced Certification is acceptable for a release of a Permanent Certificate of Occupancy by Hydrology.

PO Box 1293

Hydrology is asking for an electronic copy, in .pdf format, of this certification for our records. This certification can be e-mailed to me at: <u>tsims@cabq.gov</u>.

If you have any questions, you can contact me at 924-3982.

Albuquerque

NM 87103

Timothy E. Sim,

Sincerely,

Plan Checker—Hydrology Section

Development and Building Services

www.cabq.gov

C: CO Clerk—Katrina Sigala

File

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: DRB #: 1006828	Rocky Mountain RV and Marine EPC #:	ZONE MAP/ WORK ORD	DRG. FILE # L-22 / DD 355 .
D11D π		_ ***********	ΈΙΙ Τ.
LEGAL DESCRIPTION:	Tract B-1-A-1-B of Dorado Village Subdivisi	on	
CITY ADDRESS:	12700 Central Avenue, SE	<u> </u>	· - · · · · · · · · · · · · · · · · · · ·
ENGINEERING FIRM:	Tierra West, LLC	CONTACT:	Ron Bohannan
ADDRESS:	5571 Midway Park Place NE	PHONE:	(505) 858-3100
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87109
OWNER:	Rocky Mountain RV and Marine	_ CONTACT:	
ADDRESS:	12700 Central Avenue, SE	_ PHONE:	505-292-7800
CITY, STATE:	Albuquerque, NM	_ ZIP CODE:	8/123
ARCHITECT:	Parkline/ West, Inc.	CONTACT	Bruce Ross
ADDRESS:	PO Box 93457	PHONE:	(505) 761-9700
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87199-3457
SURVEYOR:	Precision Surveys, Inc.	_	Larry Medrano
ADDRESS:	5571 Midway Park Place, NE	PHONE:	505-856-5700
CITY, STATE:	Albuquerque, NM	_ ZIP CODE:	87109
CONTRACTOR:	TBD	CONTACT:	
ADDRESS:		PHONE:	
CITY, STATE:		ZIP CODE:	
DRAINAGE PL CONCEPTUAL GRADING PLAN EROSION CON X ENGINEER'S C CLOMR/LOMR TRAFFIC CIRCUE ENGINEERS C	PORT AN 1st SUBMITTAL, REQUIRES TCL or equal LAN RESUBMITTAL GRADING & DRAINAGE PLAN TROL PLAN ERTIFICATION (HYDROLOGY) JLATION LAYOUT (TCL) ERTIFICATION (TCL) ERTIFICATION (DRB APPR. SITE PLAN) IFERENCE ATTENDED:	SIA / FINAN PRELIMINA S. DEV. PLA S. DEV. PLA SECTOR PLATE FOUNDATION BUILDING FOUNDATION CERTIFICATION GRADING FOUNDATION GRAD	
DATE SUBMITTED:	8/23/2012	BY: Ronald R. Bol	nanann, PE

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DRAINAGE REPORT For

ROCKY MOUNTAIN R.V. & MARINE SALES AND SERVICE

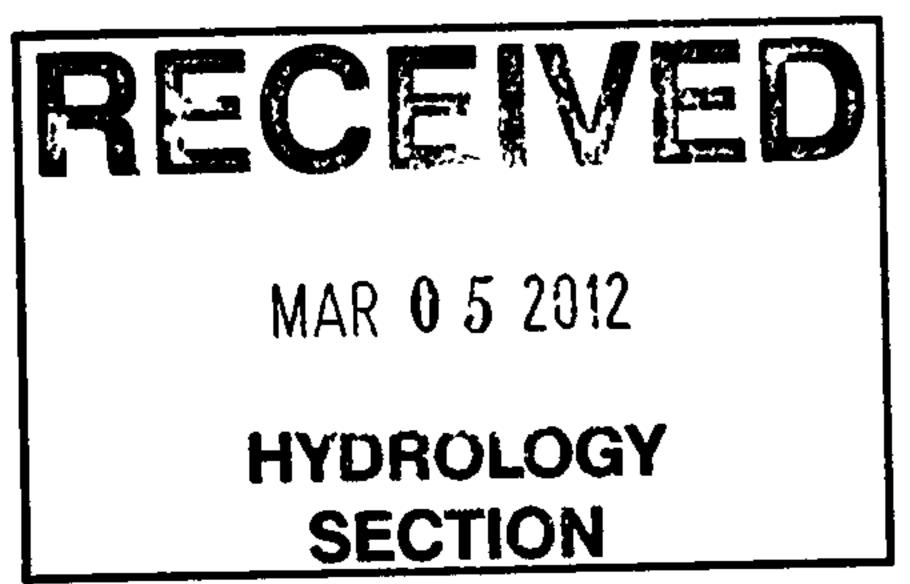
Prepared for:

Rocky Mountain R.V.
11109 Central Avenue, N.E.
Albuquerque, New Mexico 87123

Prepared by:

Tierra West Development Management Services
4421 McLeod RD. N.E., Suite D
Albuquerque, New Mexico
(505) 883-7592

January, 1996 Revised August 1996



I certify that this report was prepared under my supervision, and I am a registered Professional Engineer in good standing with the State of New Mexico.

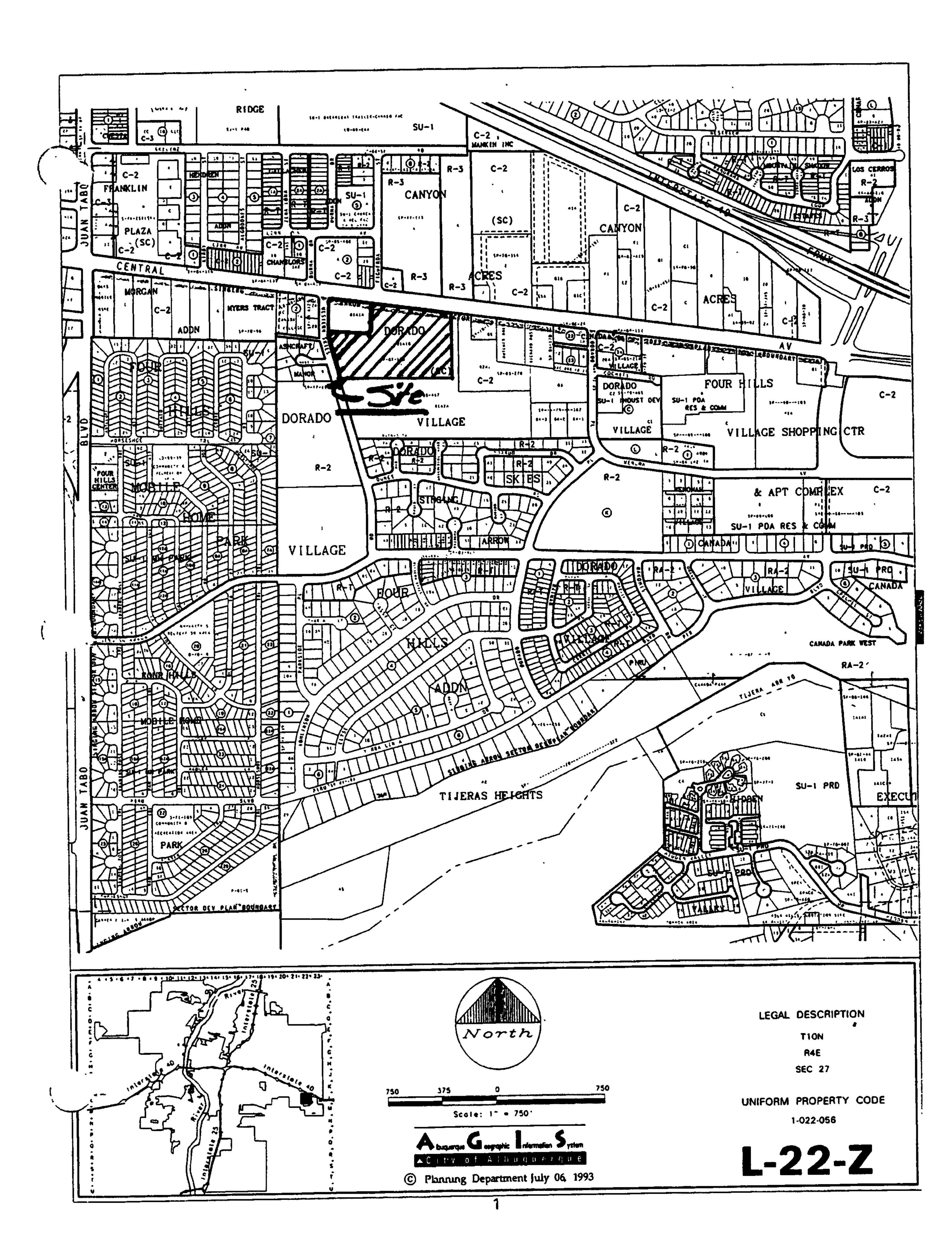
Ronald R. Bohannan

Responses

Re

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LOCATION

The site is located at the southwest corner of a 42' private drive, Whispering Pines and Central Avenue. The site lies just east of Western Skies on the South side of Central Avenue. The street address is 12700 Central Avenue and comprises Lot B1A1B, Dorado Village, containing approximately 8.7303 acres. The intent of this report is to present the drainage management plan for Building Permit Purpose and Site Development Plan approval. All applicable ordinances and the Development Process Manual were utilized for this analysis.

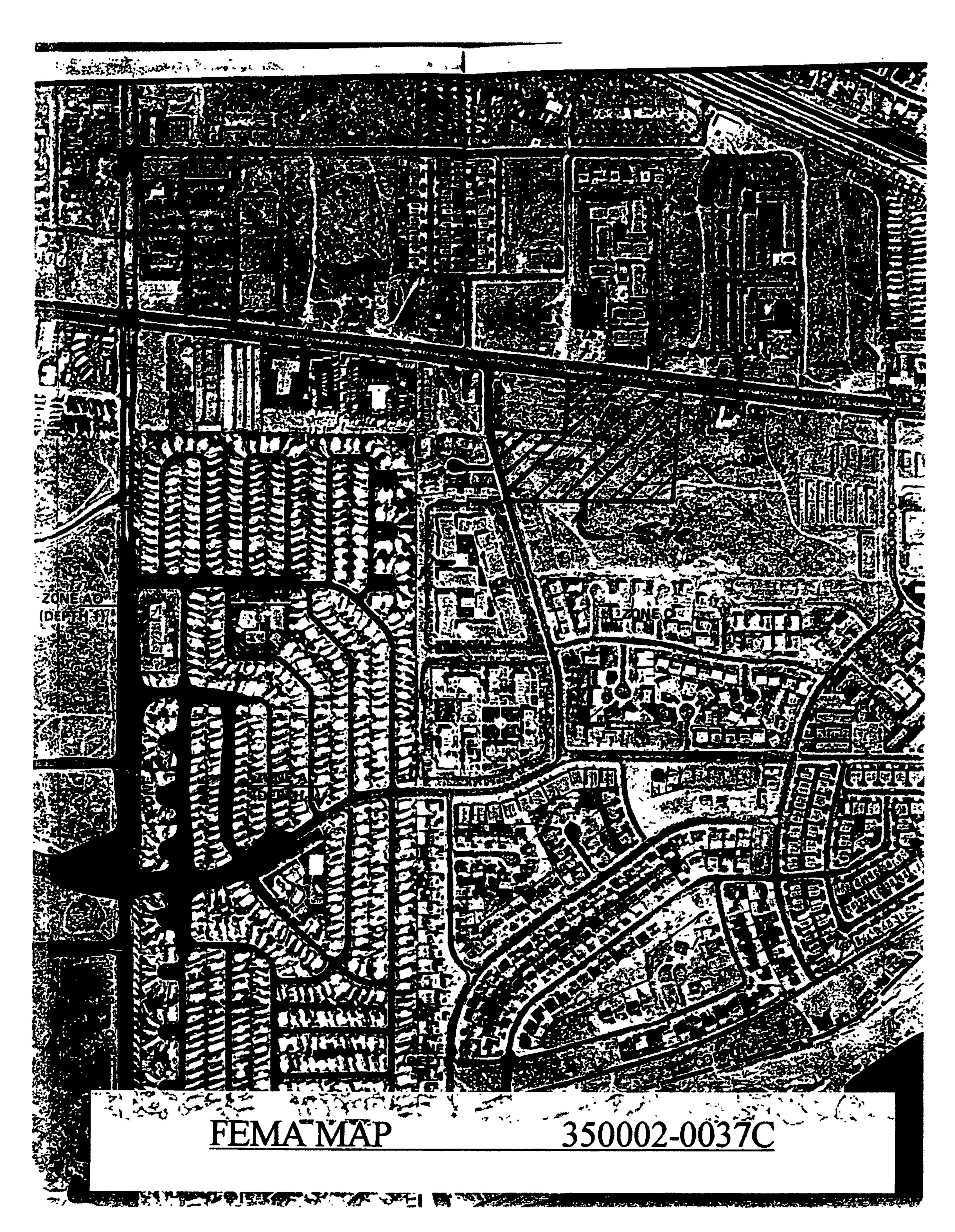
DESIGN METHOD

The method used will be and is designated in Part A for smaller water sheds under 40 acres, as described in the Design Procedures Manual. The runoff was calculated based on 100-year, 6 hour storm. The site lies within Zone 3, but to be more conservative, we have used the Zone 4 rain fall data in our runoff calculations due to proximity of zone line.

EXISTING CONDITIONS

The site lies on the south side and adjacent to Central Avenue and lies immediately east of Western Skies. A private access road (Whispering Pines) leads into a developed apartment complex on the east. Whispering Pines on the upstream development redirects and protects the site from any off-site flow from entering the site. Currently, flows on site sheet flows west to Western Skies and off-site.

The site is partially developed with the site having approximately six inches (6") of base course over the entire site. Some landscaping, while sparse, is present along the south and eastern edge of the site. The existing flow rate is 25.48 cfs. According to FEMA MAP 350002-0037C the site dose not fall within the flood zone. See attached FEMA MAP.



PROPOSED MANAGEMENT PLAN

The City of Albuquerque has prepared storm drainage improvements in Central Avenue and Western Skies to handle localized flooding. This revised drainage plan proposes to discharge the runoff from the site into the new 24" storm drain system in Western Skies which connects to a 30" storm drain system in Central Avenue.

The site is divided into three proposed drainage basins. Basin 1 contains the eastern two-thirds of the site. This basin has a developed runoff flow of 31.16 cfs. It will drain into a parking lot pond (Pond 1) located on the south side of the basin. Two single 'D' catch basins will drain Pond 1 at a rate of 7.65 cfs through an 12" PVC pipe. The runoff will be routed to Pond 2 located on the south side of Basin 2. Basin 2 has a developed runoff rate of 9.32 cfs. The flow from Basin 2 will drain to Pond 2 located on the west side of the site A 12" RCP pipe with a 10.25" orifice plate will route the flow to the existing 24" storm drain system in Western Skies. The pond will drain at a rate of 5.53 cfs which is less than the historical flow of 25.48 cfs. Basin 3 has a developed runoff flow of 3.38 cfs. This basin contains the northwest corner of the site. The developed flows will drain to the northwest and be conveyed into Western Skies Drive through three 12" sidewalk culverts. In case of events larger than a 100 year storm, Pond 1 will have an 30 foot wide emergency spillway and Pond 2 will have 12 foot wide emergency spillway

SUMMARY

There are three proposed basins on the site. Basin 1 has a runoff flow rate of 31.16 cfs, Basin 2 has a runoff flow rate of 9.32 cfs, and Basin 3 has a runoff rate of 3.38 cfs. Two detention ponds will limit the flow rate to the existing storm drain line in Western Skies to 5.53 cfs. The combined discharge from the sidewalk culverts and the pond is 8.91 cfs.

Runoff Calculations

SAMPLE CALCULATIONS FOR ROCKY MOUNTAIN RY

The site is @ Zone 4

LAND TREATMENT

Treatment D:

D = 90 %

Treatment B:

B = 10 %

DEPTH (INCHES) @ 100-YEAR, 6-HR STORM

 $P_{60} = 2.23$ inches

 $P_{360} = 2.90$ inches

 $P_{1440} = 3.65 \text{ inches}$

DEPTH (INCHES) @ 10-YEAR, 6-HR STORM

 $P_{60} = 2.23 \times 0.667$

= 1.49 inches

 $P_{360} = 1.93$

 $P_{1440} = 2.43$

Runoff
Summary Tables
for
Proposed and Existing
Drainage Basins

DRAINAGE BASINS

Existing

BASIN	AREA (SF)	AREA (AC)	AREA (MI²)
	380291.87	8.7303	0.013641

Proposed

BASIN	AREA (SF)	AREA (AC)	AREA (MI ²)	
1	270872.96	6.2184	0.009716	
2	80943.32	1.8582	0.002903	
3	29197.36	0.6703	0.001047	

RUNOFF CALCULATION RESULTS

Existing

BASIN	BASIN Q-100		V-100	V-10
	CFS	CFS	AC-FT	AC-FT
1	25.48	12.44	0.783	0.325

Proposed

SUB-BASIN	Q-100	Q-10	V-100	V-10
	CFS	CFS	AC-FT	AC-FT
1	31.16	20.41	1.288	0.807
2	9.32	6.11	0.385	0.241
3	3.38	2.21	0.139	0.087

Storm Sewer

DROP INLET CALCULATIONS

ORIFICE EQUATION

Q = CA sqrt(2gH)

C =

0.6

g =

32.2

POND	TYPE OF INLET	AREA (SF)	(CFS)	H (FT)	H ALLOW (FT)
1	2 Single 'D'	4.60	31.16	1.9792	2
2	Single 'D'	2.30	9.32	0.7083	1.5

STORM DRAIN INLET EFFECTIVE AREA ASSUMING A 50% CLOGGING FACTOR

SINGLE 'D':

Area at the grate:

$$L = 38.375" - 7 (1/2"_{middle bars})$$

$$= 34.875"$$

$$= 2.906'$$

$$W = 25.5" - 13 (1/2"_{middle bars})$$

$$= 19"$$

$$= 1.583'$$

Area =
$$1.583 \times 2.906$$

= 4.601 ft^2

Effective Area =
$$4.601$$
- .5 (4.601) Clogging Factor = 2.30 ft^2 at the grate

DOUBLE 'D':

Area at the grate:

L =
$$76.75$$
" - $14 (1/2$ " middle bars) - 6 " conter piece = 63.75 " = 5.3125 '

$$W = 25.5" - 13 (1/2)_{\text{middle bers}}$$

$$= 19"$$

$$= 1.583'$$

Area =
$$1.583' \times 5.3125'$$

= 8.410 ft^2

Effective Area =
$$8.410 - .5 (8.410)$$

= 4.21 ft^2

PIPE VELOCITY

(Pipes flowing full)

12" Pipe Connecting Pond 1 and Pond 2:

$$V = Q/A$$

$$V = \frac{7.65}{\left(1^2 * \frac{\pi}{4}\right)}$$

12" Outfall Pipe from Pond 2:

$$V = Q/A$$

$$V = \frac{5.53}{\left(1^2 * \frac{\pi}{4}\right)}$$

$$V = 7.04$$
 (cfs) ft

Sidewalk Culvert

Orifice Equation

$$Q = CA\sqrt{2gH}$$

$$C = 0.6$$

$$A = (7*12)/144$$

$$= 0.5833 \text{ ft}^2$$

$$g = 32.2$$

$$H = 7/(2*12)$$

$$= 0.29167$$

$$Q = flow (cfs)$$

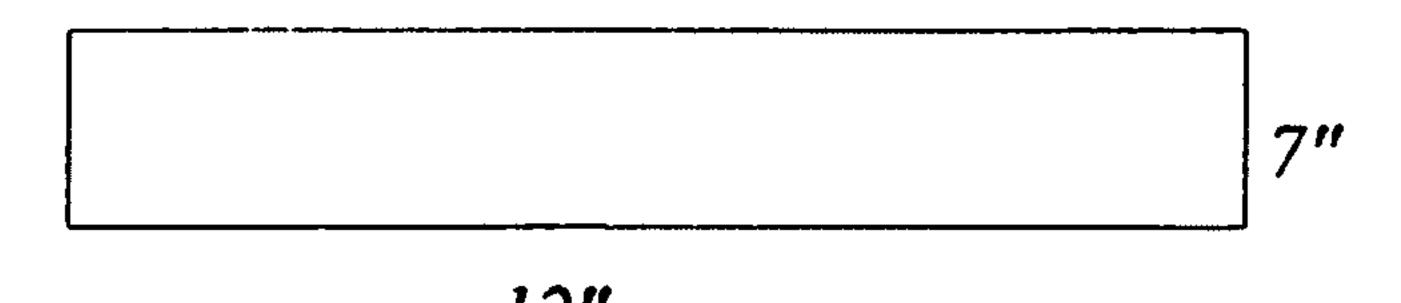
$$Q=0.6*0.5833\sqrt{2*32.2*0.29167}$$

$$Q=1.52$$
 cfs

Basin 2 = 3.38 cfs

3.38 cfs / 1.52 cfs = 2.22

Use 3 sidewalk culverts



Ponding Calculations

VOLUME CALCULATIONS

POND 1

Ab - Bottom Of The Pond Surface Area

At - Top Of The Pond Surface Area

D - Water Depth

Dt - Total Pond Depth

C - Change In Surface Area / Water Depth

Volume = Ab * D + 0.5 * C * D²

C = (At - Ab) / Dt

Ab = 13.59 (@ elevation 5567.00)

At = 35,309.72 (@ elevation 5569.00)

Dt = 2.00

C = 17648.07

ACTUAL	DEPTH	VOLUME	Q
ELEV.	(FT)	(AC-FT)	(CFS)
64	0	0	0.0000
67.00	3	0.0009	5.9794
67.20	3.2	0.0091	6.2139
67.40	3.4	0.0335	6.4400
67.60	3.6	0.0740	6.6583
67.80	3.8	0.1308	6.8698
68.00	4	0.2038	7.0749
68.20	4.2	0.2930	7.2742
68.40	4.4	0.3984	7.4682
68.60	4.6	0.5200	7.6573
68.80	4.8	0.6578	7.8418
69.00	5	0.8118	8.0221

Orifice Equation

Q = CA SQRT(2gH)

C = 0.6

Diameter (in 12

Area (ft²)= 0.785398g = 32.2

H (ft) = Depth of water above center of orifice

Q(cfs)=Flow

VOLUME CALCULATIONS

POND 2

Ab - Bottom Of The Pond Surface Area

At - Top Of The Pond Surface Area

D - Water Depth

Dt - Total Pond Depth

C - Change In Surface Area / Water Depth

Volume = $Ab * D + 0.5 * C * D^2$

C = (At - Ab) / Dt

Ab = 6.80 (@ elevation 5559.50)

At = 21,976.07 (@ elevation 5560.00)

Dt = 0.50

C = 43938.54

Ab = 21,976.07 (@ elevation 5560.00)

At = 25,114.04 (@ elevation 5561.00)

Dt = 1.00

C = 3137.97

ACTUAL	DEPTH	VOLUME	Q
ELEV.	(FT)	(AC-FT)	(CFS)
60.5	0	0	0.0000
63.50	3	0.0005	4.4257
63.70	3.2	0.0207	4.5945
63.90	3.4	0.0812	4.7573
64.00	3.5	0.1266	4.8367
64.20	3.7	0.2290	4.9916
64.40	3.9	0.3342	5.1418
64.60	4.1	0.4423	5.2878
64.80	4.3	0.5533	5.4299
65.00	4.5	0.6672	5.5683

Orifice Equation

Q = CA SQRT(2gH)

C = 0.6

Diameter (in 10.25 Area (ft^2)= 0.573027

q = 32.2

H (Ft) = Depth of water above center of orifice

Q(CFS)=Flow

EMERGENCY SPILLWAY

Pond 2

Weir Equation:

$$Q=CLH^{3/2}$$

Q = 9.32 cfs

C = 2.95

H = 0.5 ft

L = Length of weir

$$L = \frac{9.32}{2.95(0.5)^{3/2}}$$

L = 8.94 ft

Use 9.00 feet for length of weir

Pond 1

Weir Equation:

$$Q=CLH^{3/2}$$

Q = 31.16 cfs

C = 2.95

 $H=0.5~\mathrm{ft}$

L = Length of weir

$$L = \frac{31.16}{2.95(0.5)^{3/2}}$$

L = 29.87 ft

Use 30.00 feet for length of weir

AHYMO
Runoff Input
and
Summary Output
for
Proposed and Existing
Drainage Basins

*	ROCKY MOUNTAIN RV
*****	***********
*	6-HR STORM
****	******************
* E)	(ISTING CONDITIONS 100-YEAR STORM
****	 ****************************
*	
START	TIME=0.0
RAINFALL	TYPE=1 RAIN QUARTER=0.0 IN
	RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR
COMPUTE NN HYD	ID=1 HYD NO=100.1 AREA=0.013641 SQ MI
COMPOIL MA MID	PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.0
	TP=-0.1333 HR MASS RAINFALL=-1
*	
*****	***********
*	EXISTING CONDITIONS 10-YEAR STORM
*****	***********
*	
START	TIME=0.0
RAINFALL	TYPE=1 RAIN QUARTER=0.0 IN
	RAIN ONE=1.49 IN RAIN SIX=1.93 IN
	RAIN DAY=2.43 IN DT=0.03333 HR
COMPUTE NM HYD	ID=1 HYD NO=110.1 AREA=0.013641 SQ MI
	PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.0
	TP=-0.1333 HR MASS RAINFALL=-1
*	
*	
*	
* PROPO	SED/FUTURE CONDITIONS 100-YEAR STORM
* PROPO	SED/FUTURE CONDITIONS 100-YEAR STORM
* PROPO	SED/FUTURE CONDITIONS 100-YEAR STORM
* PROPC	SED/FUTURE CONDITIONS 100-YEAR STORM
* PROPO	SED/FUTURE CONDITIONS 100-YEAR STORM
* PROPO ************ * * * * * * * * * * *	SED/FUTURE CONDITIONS 100-YEAR STORM
* PROPC	SED/FUTURE CONDITIONS 100-YEAR STORM
* PROPO ********** * * * * * * * * * * * *	SED/FUTURE CONDITIONS 100-YEAR STORM TIME=0.0
* PROPO ************ * * * * * * * * * * *	TYPE=1 RAIN QUARTER=0.0 IN
* PROPO ********** * * * * * * * * * * * *	TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN
* PROPO ********* * START * * BASIN 1 * RAINFALL	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR
* PROPO ********** * * * * * * * * * * * *	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ MI
* PROPO ********* * START * * BASIN 1 * RAINFALL	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ NI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0
* PROPO ********* * START * * BASIN 1 * RAINFALL	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ MI
* PROPO ************ * START * * BASIN 1 * RAINFALL COMPUTE NM HYD	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ NI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0
PROPO ********** * START * BASIN 1 * RAINFALL COMPUTE NM HYD	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ NI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0
* PROPO ************ * START * * BASIN 1 * RAINFALL COMPUTE NM HYD * * BASIN 2	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ NI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0
* PROPO ************ * START * BASIN 1 * COMPUTE NM HYD * BASIN 2 *	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 TP=-0.1333 HR MASS RAINFALL=-1
* PROPO ************ * START * BASIN 1 * COMPUTE NM HYD * BASIN 2 *	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 TP=-0.1333 HR MASS RAINFALL=-1
* PROPO ************ * START * BASIN 1 * COMPUTE NM HYD * BASIN 2 *	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 TP=-0.1333 HR MASS RAINFALL=-1 ID=1 HYD NO=101.1 AREA=0.001047 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0
* PROPO ************* * START * BASIN 1 * RAINFALL COMPUTE NM HYD * BASIN 2 * COMPUTE NM HYD	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 TP=-0.1333 HR MASS RAINFALL=-1 ID=1 HYD NO=101.1 AREA=0.001047 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0
PROPO ************** * START * BASIN 1 * RAINFALL COMPUTE NM HYD * COMPUTE NM HYD	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 ID=1 HYD NO=101.1 AREA=0.001047 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0
PROPO ************** START BASIN 1 RAINFALL COMPUTE NM HYD BASIN 2 COMPUTE NM HYD BASIN 3	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 TP=-0.1333 HR MASS RAINFALL=-1 ID=1 HYD NO=101.1 AREA=0.001047 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0
PROPO ************** START BASIN 1 RAINFALL COMPUTE NM HYD COMPUTE NM HYD BASIN 2 BASIN 3 BASIN 3	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD NO=101.1 AREA=0.009716 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 TP=-0.1333 HR MASS RAINFALL=-1 ID=1 HYD NO=101.1 AREA=0.001047 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 TP=-0.1333 HR MASS RAINFALL=-1
PROPO ************** START BASIN 1 RAINFALL COMPUTE NM HYD COMPUTE NM HYD BASIN 2 BASIN 3 BASIN 3	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.23 IN RAIN SIX=2.90 IN RAIN DAY=3.65 IN DT=0.03333 HR ID=1 HYD MO=101.1 AREA=0.009716 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 TP=-0.1333 HR MASS RAINFALL=-1 ID=1 HYD NO=101.1 AREA=0.001047 SQ MI PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.0 TP=-0.1333 HR MASS RAINFALL=-1

*

START TIME=0.0

*

* BASIN 1

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.49 IN RAIN SIX=1.93 IN

RAIN DAY=2.43 IN DT=0.03333 HR

COMPUTE NM HYD

ID=1 HYD NO=110.1 AREA=0.009716 SQ MI

PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00

TP=-0.1333 HR MASS RAINFALL=-1

*

* BASIN 2

•

COMPUTE NM HYD ID=1 HYD NO=110.2 AREA=0.001047 SQ MI

PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00

TP=-0.1333 HR MASS RAINFALL=-1

*

* BASIN 3

*-

COMPUTE NM HYD ID=1 HYD NO=110.3 AREA=0.002903 SQ MI

PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00

TP=-0.1333 HR MASS RAINFALL=-1

W

FINISH

RUN DATE (MON/DAY/YR) =09/13/1996
USER NO.= R_BOHANN.IO1

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE =	
START										TIME=	.00
RAINFALL T	YPE= 1									RAIN6=	2.900
COMPUTE NM	HYD 100.10	-	1	.01364	25.48	.783	1.07600	1.500	2.919	PER IMP=	.00
START										TIME=	.00
RAINFALL T	YPE= 1									RAIN6=	1.930
COMPUTE NM	HYD 110.10	•	1	.01364	12.44	.325	.44688	1.500	1.424	PER IMP=	.00
START										TIME=	.00
RAINFALL TY	YPE≖ 1									RAIN6=	2.900
COMPUTE NM I	HYD 101.10	•	1	.00972	31.16	1.288	2.48487	1.500	5.011	PER IMP=	90.00
COMPUTE NM I	HYD 101.10	•	1	.00105	3.38	.139	2.48487	1.500	5.038	PER IMP=	90.00
COMPUTE NM I	HYD 101.10	•	1	.00290	9.32	.385	2.48487	1.500	5.019	PER IMP=	90.00
START										TIME=	.00
RAINFALL TY	'PE= 1									RAIN6=	1.930
COMPUTE NM I	YD 110.10	-	1	.00972	20.41	.807	1.55658	1.500	3.282	PER IMP=	90.00
COMPUTE NM I	YD 110.20	-	1	.00105	2.21	.087	1.55658	1.500	3.297	PER IMP=	90.00
COMPUTE NM H	110.30	-	1	-00290	6.11	.241	1.55658	1.500	3.286	PER IMP=	90.00
FINISH											

AHYMO
Input and Output
for
Ponding

```
**************
                   ROCKY MOUNTAIN RV PARK
***********
          100-YEAR, 24-HR STORM (PONDING CALCULATIONS)
                  TIME=0.0
START
* BASIN 1
                  TYPE=2 RAIN QUARTER=0.0 IN
RAINFALL
                  RAIN ONE=2.23 IN RAIN SIX=2.90 IN
                  RAIN DAY=3.65 IN DT=0.03333 HR
                  ID=1 HYD NO=100.1 AREA=0.009716 SQ MI
COMPUTE NM HYD
                  PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00
                  TP=-0.1333 HR MASS RAINFALL=-1
* BASIN 1 PONDING
                  ID=2 HYD NO=501.1 INFLOW ID=1 CODE=24
ROUTE RESERVOIR
                  OUTFLOW(CFS)
                                  STORAGE (AC-FT) ELEVATION (FT)
                                       0.0000
                                                     64.00
                      0.0000
                                                     67.00
                                       0.0009
                      5.9794
                      6.2139
                                       0.0091
                                                     67.20
                                       0.0335
                                                      67.40
                      6.4400
                      6.6583
                                       0.0740
                                                      67.60
                      6.8698
                                       0.1308
                                                      67.80
                      7.0749
                                                      68.00
                                       0.2038
                      7.2742
                                                     68.20
                                       0.2930
                                                     68.40
                      7.4682
                                       0.3984
                      7.6573
                                       0.5200
                                                     68.60
                      7.8418
                                       0.6578
                                                     68.80
                                                      69.00
                      8.0221
                                       0.8118
* BASIN 2
                 ID=3 HYD NO=100.2 AREA=0.002903 SQ NI
COMPUTE NM HYD
                  PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00
                  TP=-0.1333 HR MASS RAINFALL=-1
* ADD POND 1 AND BASIN 2
                  ID=1 HYD NO=101.2 ID=2 ID=3
ADD HYD
* BASIN 2 PONDING
                  ID=2 HYD NO=501.2 INFLOW ID=1 CODE=24
ROUTE RESERVOIR
                  QUTFLOW(CFS)
                                  STORAGE(AC-FT) ELEVATION(FT)
                                                     60.50
                     0.0000
                                       0.0000
                                                     63.50
                     4.4257
                                       0.0005
                                                     63.70
                     4.5945
                                       0.0207
                                                     63.90
                     4.7573
                                       0.0812
```

4.8367 0.1266 64.00 4.9916 0.2290 64.20 5.1418 64.40 0.3342 64.60 5.2878 0.4423 64.80 5.4299 0.5533 65.00 5.5683 0.6672

AHYMO SUMMARY TABLE (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
INPUT FILE = a:pond2.dat

RUN DATE (MON/DAY/YR) =09/13/1996
USER NO.= R_BOHANN.IO1

	HYDROGRAPH	FROM	ID	AREA	PEAK DISCHARGE	RUNOFF	RUNOFF	TIME TO PEAK	CFS PER	PAGE =	
COMMAND	IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)	ACRE	NOTATI	ON
START										TIME=	.00
RAINFALL TYPE	E= 2									RAIN24=	3.650
COMPUTE NM HY	100.10	•	1	.00972	31.16	1.576	3.04092	1.500	5.011	PER IMP=	90.00
ROUTE RESERVO	IR 501.10	1	2	-00972	7.65	1.578	3.04599	2.000	1.230	AC-FT=	.513
COMPUTE NM HY	100.20	-	3	.00290	9.32	.471	3.04095	1.500	5.019	PER IMP=	90.00
ADD HYD	101.20	24 3	1	.01262	16.40	2.049	3.04483	1.500	2.030		
ROUTE RESERVO	IR 501.20	1	2	.01262	5.53	2.049	3.04479	3.133	.685	AC-FT=	.635

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
RUN DATE (MON/DAY/YR) = 09/13/1996
START TIME (HR:MIN:SEC) = 10:38:46 USER NO.= R_BOHANN.IO1
INPUT FILE = a:pond2.dat

TYPE=2 RAIN QUARTER=0.0 IN

RAIN ONE=2.23 IN RAIN SIX=2.90 IN

RAIN DAY=3.65 IN DT=0.03333 HR

RAINFALL

COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

```
.033330 HOURS
DT =
                         END TIME =
                                      19.964670 HOURS
   .0000
          .0055
                 .0110
                         .0167
                                .0225
                                       .0284
                                               .0345
   .0406
          .0469
                 .0534
                         .0600
                                .0668
                                       .0738
                                               .0809
   .0882
          .0958
                 . 1035
                         .1115
                                .1197
                                               .1370
                                       .1282
   .1461
          . 1555
                 . 1653
                         .1754
                                .1860
                                       .1971
                                               .2086
          .2334
   .2207
                 .2469
                         .2530
                                .2596
                                               .2818
                                       .2667
          .3677
   .3156
                 .4425
                        .5446
                                .6787
                                       .8498 1.0629
 1.3228 1.5642 1.6650 1.7500 1.8257 1.8946 1.9579
 2.0168 2.0718 2.1233 2.1719 2.2176 2.2608 2.3018
 2.3405 2.3773 2.4122 2.4453 2.4767 2.4850 2.4927
 2.5002 2.5074 2.5143 2.5210 2.5275 2.5338 2.5400
 2.5459 2.5518 2.5575 2.5630 2.5685 2.5738 2.5790
 2.5841 2.5891 2.5940 2.5988 2.6036 2.6082 2.6128
 2.6173 2.6218 2.6262 2.6305 2.6347 2.6389 2.6431
 2.6471 2.6512 2.6552 2.6591 2.6630 2.6668 2.6706
 2.6743 2.6780 2.6817 2.6853 2.6889 2.6925 2.6960
 2.6995 2.7029 2.7063 2.7097 2.7131 2.7164 2.7197
 2.7229 2.7262 2.7294 2.7325 2.7357 2.7388 2.7419
 2.7450 2.7480 2.7511 2.7541 2.7570 2.7600 2.7629
 2.7658 2.7687 2.7716 2.7745 2.7773 2.7801 2.7829
 2.7857 2.7885 2.7912 2.7939 2.7966 2.7993 2.8020
 2.8046 2.8073 2.8099 2.8125 2.8151 2.8177 2.8202
 2.8228 2.8253 2.8279 2.8304 2.8329 2.8353 2.8378
 2.8402 2.8427 2.8451 2.8475 2.8499 2.8523 2.8547
 2.8571 2.8594 2.8618 2.8641 2.8664 2.8687 2.8710
 2.8733 2.8756 2.8779 2.8801 2.8824 2.8846 2.8868
 2.8890 2.8912 2.8934 2.8956 2.8978 2.9000 2.9021
 2.9042 2.9063 2.9083 2.9104 2.9125 2.9146 2.9166
 2.9187 2.9208 2.9228 2.9249 2.9269 2.9290 2.9310
 2.9330 2.9351 2.9371 2.9391 2.9411 2.9431 2.9451
 2.9471 2.9491 2.9511 2.9531 2.9551 2.9571 2.9591
 2.9610 2.9630 2.9650 2.9669 2.9689 2.9708 2.9728
 2.9747 2.9766 2.9786 2.9805 2.9824 2.9844 2.9863
 2.9882 2.9901 2.9920 2.9939 2.9958 2.9977 2.9996
 3.0015 3.0034 3.0052 3.0071 3.0090 3.0109 3.0127
 3.0146 3.0164 3.0183 3.0201 3.0220 3.0238 3.0257
 3.0275 3.0293 3.0312 3.0330 3.0348 3.0366 3.0384
 3.0402 3.0420 3.0439 3.0457 3.0474 3.0492 3.0510
```

3.0528 3.0546 3.0564 3.0582 3.0599 3.0617 3.0635

```
3.0652 3.0670 3.0687 3.0705 3.0722 3.0740 3.0757
3.0775 3.0792 3.0809 3.0827 3.0844 3.0861 3.0878
3.0896 3.0913 3.0930 3.0947 3.0964 3.0981 3.0998
3.1015 3.1032 3.1049 3.1066 3.1082 3.1099 3.1116
3.1133 3.1149 3.1166 3.1183 3.1199 3.1216 3.1233
3.1249 3.1266 3.1282 3.1299 3.1315 3.1331 3.1348
3.1364 3.1381 3.1397 3.1413 3.1429 3.1446 3.1462
3.1478 3.1494 3.1510 3.1526 3.1542 3.1558 3.1574
3.1590 3.1606 3.1622 3.1638 3.1654 3.1670 3.1685
3.1701 3.1717 3.1733 3.1748 3.1764 3.1780 3.1795
3.1811 3.1827 3.1842 3.1858 3.1873 3.1889 3.1904
3.1919 3.1935 3.1950 3.1966 3.1981 3.1996 3.2012
3.2027 3.2042 3.2057 3.2072 3.2088 3.2103 3.2118
3.2133 3.2148 3.2163 3.2178 3.2193 3.2208 3.2223
3.2238 3.2253 3.2268 3.2283 3.2297 3.2312 3.2327
3.2342 3.2357 3.2371 3.2386 3.2401 3.2415 3.2430
3.2445 3.2459 3.2474 3.2488 3.2503 3.2517 3.2532
3.2546 3.2561 3.2575 3.2590 3.2604 3.2618 3.2633
3.2647 3.2661 3.2676 3.2690 3.2704 3.2718 3.2732
3.2747 3.2761 3.2775 3.2789 3.2803 3.2817 3.2831
3.2845 3.2859 3.2873 3.2887 3.2901 3.2915 3.2929
3.2943 3.2957 3.2971 3.2984 3.2998 3.3012 3.3026
3.3040 3.3053 3.3067 3.3081 3.3094 3.3108 3.3122
3.3135 3.3149 3.3163 3.3176 3.3190 3.3203 3.3217
3.3230 3.3244 3.3257 3.3271 3.3284 3.3297 3.3311
3.3324 3.3338 3.3351 3.3364 3.3378 3.3391 3.3404
3.3417 3.3431 3.3444 3.3457 3.3470 3.3483 3.3496
3.3510 3.3523 3.3536 3.3549 3.3562 3.3575 3.3588
3.3601 3.3614 3.3627 3.3640 3.3653 3.3666 3.3679
3.3691 3.3704 3.3717 3.3730 3.3743 3.3756 3.3768
3.3781 3.3794 3.3807 3.3819 3.3832 3.3845 3.3857
3.3870 3.3883 3.3895 3.3908 3.3921 3.3933 3.3946
3.3958 3.3971 3.3983 3.3996 3.4008 3.4021 3.4033
3.4046 3.4058 3.4070 3.4083 3.4095 3.4108 3.4120
3.4132 3.4145 3.4157 3.4169 3.4181 3.4194 3.4206
3.4218 3.4230 3.4243 3.4255 3.4267 3.4279 3.4291
3.4303 3.4315 3.4328 3.4340 3.4352 3.4364 3.4376
3.4388 3.4400 3.4412 3.4424 3.4436 3.4448 3.4460
3.4472 3.4484 3.4495 3.4507 3.4519 3.4531 3.4543
3.4555 3.4567 3.4578 3.4590 3.4602 3.4614 3.4625
3.4637 3.4649 3.4661 3.4672 3.4684 3.4696 3.4707
3.4719 3.4731 3.4742 3.4754 3.4765 3.4777 3.4788
3.4800 3.4812 3.4823 3.4835 3.4846 3.4858 3.4869
3.4880 3.4892 3.4903 3.4915 3.4926 3.4938 3.4949
3.4960 3.4972 3.4983 3.4994 3.5006 3.5017 3.5028
3.5040 3.5051 3.5062 3.5073 3.5085 3.5096 3.5107
3.5118 3.5129 3.5141 3.5152 3.5163 3.5174 3.5185
3.5196 3.5207 3.5218 3.5229 3.5241
```

COMPUTE NM HYD ID=1 HYD NO=100.1 AREA=0.009716 SQ MI
PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00
TP=-0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420 UNIT PEAK = 34.523 CFS UNIT VOLUME = .9990 B = 526.28 P60 = 2.2300 AREA = .008744 SQ NI IA = .10000 INCHES INF = .04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .0333330

UNIT PEAK = 2.3307 CFS UNIT VOLUME = .9945 B = 319.76 P60 = 2.2300AREA = .000972 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOURRUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .0333330

* BASIN 1 PONDING

ROUTE RESERVOIR	ID=2 HYD NO=501.1	INFLOW ID=1 COD	E=24
	OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
	0.0000	0.0000	64.00
	5.9794	0.0009	67.00
	6.2139	0.0091	67.20
	6.4400	0.0335	67.40
	6.6583	0.0740	67.60
	6.8698	0.1308	67.80
	7.0749	0.2038	68.00
	7.2742	0.2930	68.20
	7.4682	0.3984	68.40
	7.6573	0.5200	68.60
	7.8418	0.6578	68.80
	8.0221	0.8118	69.00
* * * * *	* * * * *	* * * *	

TIME	INFLOW	ELEV	VOLUME	OUT FLOW
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
.00	.00	64.00	.000	.00
.80	1.10	64.55	.000	1.09
1.60	21.51	68.34	.368	7.41
2.40	1.52	68.37	.385	7.44
3.20	.49	64.00	.000	.00
4.00	.38	64.19	.000	.37
4.80	.35	64.18	.000	.35
5.60	.35	64.18	.000	.35
6.40	.35	64.18	.000	.35
7.20	.33	64.17	.000	.33
8.00	.32	64.16	.000	.32
8.80	.30	64.15	.000	.30
9.60	.29	64.14	.000	.29
10.40	.28	64.14	.000	.28
11.20	.27	64.13	.000	.27
12.00	.26	64.13	.000	-26
12.80	.25	64.12	.000	-25
13.60	.24	64.12	.000	.24
14.40	.23	64.12	.000	.23
15.20	.22	64.11	-000	.22
16.00	.22	64.11	.000	.22
16.80	.21	64.11	.000	.21
17.60	.20	64.10	.000	.20
18.40	.20	64.10	.000	.20
19.20	.19	64.10	.000	.19
		= 444		

7.646 CFS - PEAK OCCURS AT HOUR PEAK DISCHARGE =

MAXIMUM WATER SURFACE ELEVATION = 68.589

.5130 AC-FT MAXIMUM STORAGE = INCREMENTAL TIME= .033330HRS

^{*} BASIN 2

TP=-0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420 UNIT PEAK = 10.315 CFS UNIT VOLUME = .9982 B = 526.28 P60 = 2.2300 AREA = .002613 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .0333330

K = .134742HR TP = .133300HR K/TP RATIO = 1.010815 SHAPE CONSTANT, N = 3.492236 UNIT PEAK = .69638 CFS UNIT VOLUME = .9804 B = 319.76 P60 = 2.2300 AREA = .000290 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

* ADD POND 1 AND BASIN 2

*

ADD HYD ID=1 HYD NO=101.2 ID=2 ID=3

*

* BASIN 2 PONDING

*

ROUTE RESERVOIR	ID=2 HYD NO=501.2	INFLOW ID=1 COD	E=24
	OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
	0.0000	0.0000	60.50
	4.4257	0.0005	63.50
	4.5945	0.0207	63.70
	4.7573	0.0812	63.90
	4.8367	0.1266	64.00
	4.9916	0.2290	64.20
	5.1418	0.3342	64.40
	5.2878	0.4423	64.60
	5.4299	0.5533	64.80
	5.5683	0.6672	65.00

* * * * * * * * * * * * * *

TIME	INFLOW	ELEV	VOLUME	OUTFLOW
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
.00	.00	60.50	.000	.00
.80	1.42	61.46	.000	1.42
1.60	13.85	64.18	.218	4.97
2.40	7.90	64.75	.528	5.40
3.20	.14	64.92	.623	5.51
4.00	.49	64.35	.308	5.10
4.80	.46	63.66	.017	4.56
5.60	.46	60.81	.000	.46
6.40	.46	60.81	.000	.46
7.20	.43	60.79	.000	.43
8.00	.41	60.78	.000	.41
8.80	.39	60.77	.000	.39
9.60	.38	60.75	.000	.38
10.40	.36	60.74	.000	.36
11.20	.35	60.73	.000	.35
12.00	.33	60.73	.000	.33
12.80	.32	60.72	.000	.32
13.60	.31	60.71	.000	.31
14.40	.30	60.70	.000	.30
15.20	.29	60.70	.000	.29
16.00	.28	60.69	.000	.28
16.80	.27	60.69	.000	.27

```
17.60
               .26
                      60.68
                                 .000
                                          .26
   18.40
               .26
                      60.67
                                 .000
                                           .26
   19.20
               .25
                     60.67
                                 .000
                                           .25
PEAK DISCHARGE =
                      5.529 CFS - PEAK OCCURS AT HOUR 3.13
MAXIMUM WATER SURFACE ELEVATION =
                                  64.944
MAXINUM STORAGE =
                       .6352 AC-FT
                                       INCREMENTAL TIME=
                                                            .033330HRS
```

NORMAL PROGRAM FINISH

FINISH

END TIME (HR:MIN:SEC) = 10:38:47

Drainage Approval September 16, 1996



The.
Mydrology File

September 16, 1996

Martin J. Chávez, Mayor

Ronald Bohannan

Tierra West Development

4421 McCleod NE

Suite D

Albuquerque, NM 87109

RE: ROCKY MOUNTAIN R.V. (L22-D35) DRAINAGE REPORT SUBMITTAL FOR SITE DEVELOPMENT PLAN FOR SUBDIVISION APPROVAL, BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED 9-13-96.

Dear Mr. Bohannan:

Based on the information provided on your August 20, 1996 submittal, the above referenced project is approved for Site Development Plan for Building Permit approval. Prior to Building or SO #19 Permit approvals, please address the following comments:

- 1. An SO #19 Permit is required for this project due to the work proposed in the right-of-way. Please be certain to show the required notes and sign-off block on the plan sheet. Also, provide two copies of the Grading and Drainage plan.
- 2. Shown on your plan sheet is a distance and bearing line from catch basin 2 to the corner of Western Skies and Central. Please change the line type. It looks very similar to a storm drain line.
- 3. If you desire, you can use an 12-inch pipe with a 10-inch orifice to tie into the back of the existing inlet on Western Skies.
- 4. Are your sidewalk culverts in a submerged condition? If not, I believe you can get away with using two sidewalk culverts instead of three

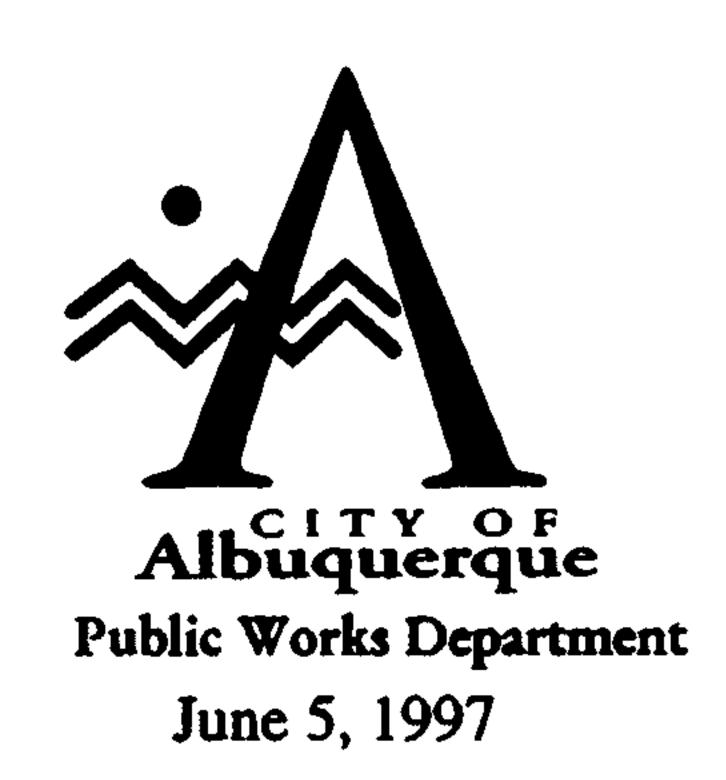
If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Engineering Assoc./Hyd.

c: Andrew Garcia File

Drainage Approval June 5, 1997 w/G&D Plan



JN: 9400/2-Incoming Drainage

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Sara McCollam
Tierra West Development
4421 McLeod Rd. NE Suite D
Albuquerque, New Mexico 87109

RE: Drainage Plan for Rocky Mountain R.V. (L22-D35B) Received June 5, 1997

Dear Ms. McCollam:

The above referenced plan stamp dated June 5, 1997 is approve for the following:

- 1. The plan is approved for Building Permit.
- 2. Approval of the drainage plan allows the approval of the Site Development Plan from the drainage criteria. The drainage plan and the Site Plan should match for approval.
- 3. Approval of the Drainage Facilities Within City Right-Of-Way (SO #19) for the back of curb pipe connection.

A separate permit is required for construction within City Right-of Way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy release the Engineer will need to certify the project per the DPM.

If you have any questions please call at 924-3984.

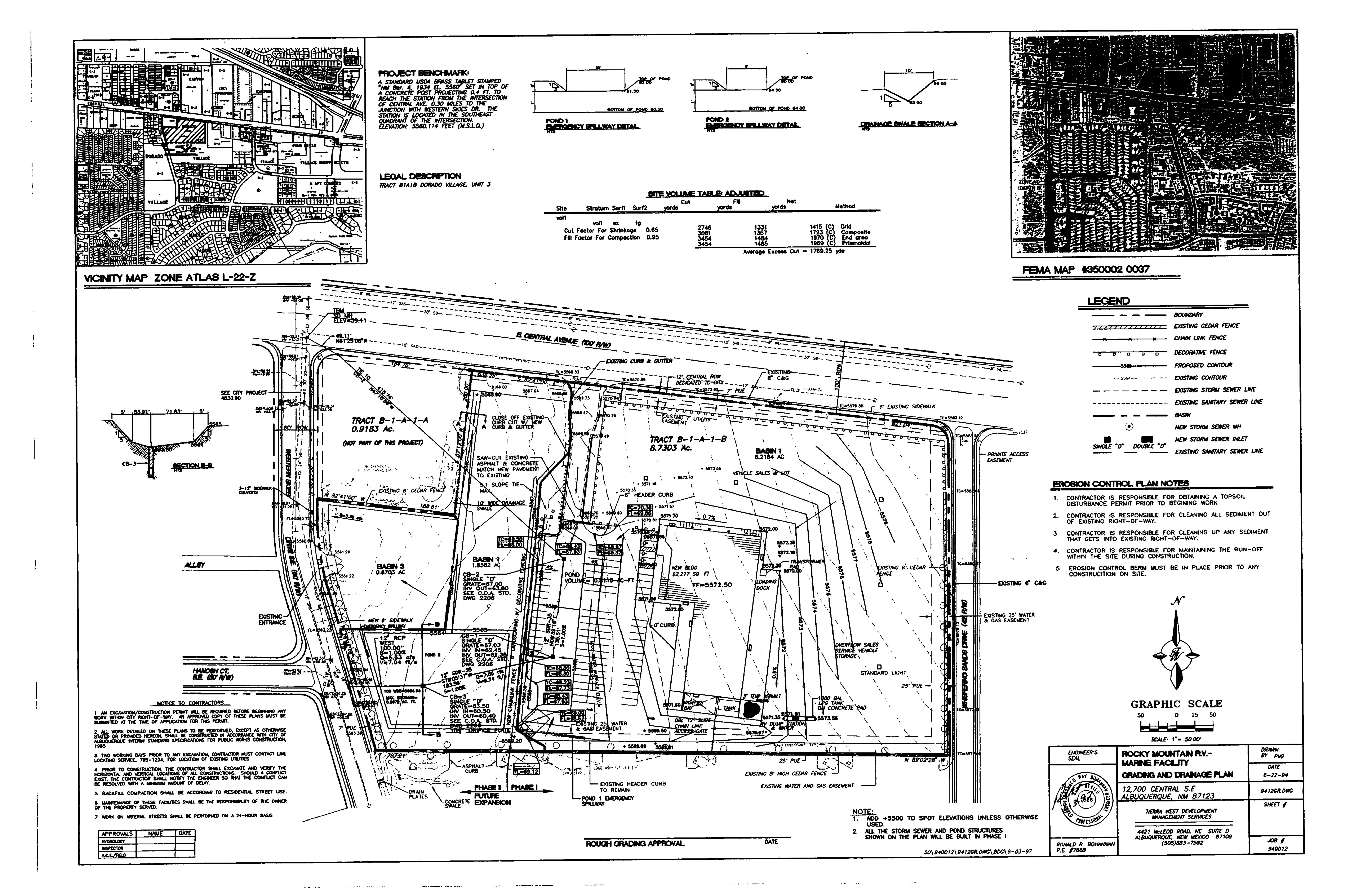
Sincerely,

Carlos A. Montoya

Project Manager

c: Andrew Garcia
File

Good for You, Albuquerque!



CITY OF ALBUQUERQUE



Planning Department Transportation Development Services Section

September 10, 2012

Ronald R. Bohannan, PE Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Re: Certification for Permanent Building Certificate of Occupancy (C.O.)

Rocky Mountain RV and Marine, [L-22/D035B]

12700 Central Ave. NE

Architect's Stamp Dated 09/06/12

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 09-06-12, Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy.

PO Box 1293

This letter serves as a "green tag" from Transportation Development for a <u>Permanent Certificate of Occupancy</u> to be issued by the Building and Safety Division.

Albuquerque

If you have any questions, please contact me at (505)924-3630.

NM 87103

www.cabq.gov

Nile/E. Salgado-Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

Planning Department J

C:

Sincerely//

Engineer
Hydrology file
CO Clerk

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: DRB #:	Rocky Mountain RV and Marine —EPC #:	ZONE MAP/ WORK ORD	DRG. FILE # L-22 \\(\sum_{\text{DG}} \overline{355}_{\text{ER #:}}
LEGAL DESCRIPTION: CITY ADDRESS:	Tract B-1-A-1-B of Dorado Village Subdivisi 12700 Central Avenue, SE	on	
ENGINEERING FIRM: ADDRESS: CITY, STATE:	Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM	PHONE:	Ron Bohannan (505) 858-3100 87109
OWNER: ADDRESS: CITY, STATE:	Rocky Mountain RV and Marine 12700 Central Avenue, SE Albuquerque, NM	CONTACT: PHONE: ZIP CODE:	Rick Scholl 505-292-7800 87123
ARCHITECT: ADDRESS: CITY, STATE:	Parkline/ West, Inc. PO Box 93457 Albuquerque, NM	CONTACT: PHONE: ZIP CODE:	Bruce Ross (505) 761-9700 87199-3457
SURVEYOR: ADDRESS: CITY, STATE:	Precision Surveys, Inc. 5571 Midway Park Place, NE Albuquerque, NM	CONTACT: PHONE: ZIP CODE:	Larry Medrano 505-856-5700 87109
CONTRACTOR: ADDRESS: CITY, STATE:	TBD	CONTACT: PHONE: ZIP CODE:	
DRAINAGE PL CONCEPTUAL O GRADING PLAN EROSION CONT ENGINEER'S CI CLOMR/LOMR TRAFFIC CIRCU ENGINEERS CE	PORT IN 1st SUBMITTAL, <i>REQUIRES TCL or equal</i> IAN RESUBMITTAL GRADING & DRAINAGE PLAN	SIA / FINAN PRELIMINA S. DEV. PLA S. DEV. PLA SECTOR PI FINAL PLAT FOUNDATIO BUILDING F CERTIFICA CERTIFICA GRADING F PAVING PE	APPROVAL SOUGHT: IACIAL GUARANTEE RELEASE ANY PLAT APPROVAL AN FOR SUB'D. APPROVAL AN FOR BLDG. PERMIT APPROVAL LAN APPROVAL ON PERMIT APPROVAL PERMIT APPROVAL TE OF OCCUPANCY (PERM.) TE OF OCCUPANCY (TEMP.) PERMIT APPROVAL ERMIT APPROVAL ERMIT APPROVAL ERMIT APPROVAL
WAS A PRE-DESIGN CON YES X NO COPY PROVIDE			[EC][[[]]] AUB 6 - 2012 [[] SEPT.
DATE SUBMITTED:	9/5/2012	BY: Ronald R. Bot	nanann, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of sumbittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plans: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

tierrawestllc.com

301

TIERRA WEST, LLC

September 05, 2012

Ms. Kristal Metro, P.E.
Development and Building Services
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: AA SITE PLAN FOR BUILDING PERMIT

CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY ROCKY MOUNTAIN RV AND MARINE, 12700 CENTRAL AVENUE, SE

Dear Ms. Metro:

I, Ronald R. Bohannan, NMPE # 7868, of the firm Tierra West LLC, hereby request approval of the AA Site Plan for Building Permit for issuance of the Permanent Certificate of Occupancy for the project referenced above. This project is in substantial compliance as inspected on September 06, 2012, and is in accordance with the design intent of the Approved Administrative Amended Site Plan for Building Permit dated 5/22/12. This certification is submitted in support of the request for Permanent Certificate of Occupancy.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Enclosed, please find the information sheet and the as-built Approved Administrative Amended Site Plan for Building Permit. Therefore, we request approval of the as-built Approved Administrative Amended Site Plan for Building Permit for a Permanent Certificate of Occupancy

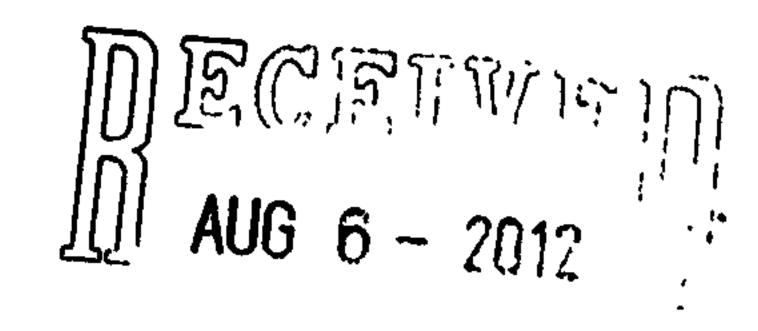
If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerel

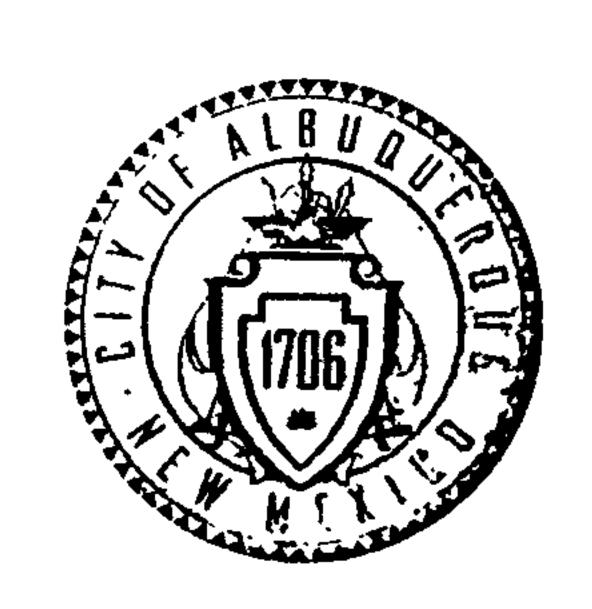
Enclosuse/s

JN: 2011059 RRB/BF/cla

Z \2011\2011059 - Rocky Mountain RV and Manne\Correspondence\2011059 Kristal Metro Perm CO Letter 9-05-12 doc



CITY OF ALBUQUERQUE



June 2, 2008

Ronald Ray Bohannan, P.E.

Tierra West, LLC.

5571 Midway Park Place N.E.
Albuquerque, NM 87109

Re: Rocky Mountain RV, 12700 Central Ave. SE, (L-22/D035B)

Approval of Permanent Certificate of Occupancy,

Engineer's Stamp Date 10/02/2007

Certification dates: 6-02-08

Mr. Bohannan,

PO Box 1293

Based upon the information provided in your submittal received 6/02/08, the above referenced certification is approved for release a CD.

referenced certification is approved for release of Permanent Certificate of Occupancy

by Hydrology.

Albuquerque If you have any questions, you can contact me at 924-3982.

Sincerely,

Timothy Sims

NM 87103

Plan Checker-Hydrology, Planning Dept

www.cabq.gov

Development and Building Services

C: CO Clerk—Katrina Sigala file

PROJECT TITLE: DRB #:	Rocky Mountain RV EPC #:	ZONE MAP/ WORK ORD	DRG. FILE # L-22 / DO356 ER #:
LEGAL DESCRIPTION CITY ADDRESS:	Tract B-1-A-1-B Dorado Village 12700 Central Avenue SE		
ENGINEERING FIRM: ADDRESS: CITY, STATE: OWNER: ADDRESS: CITY, STATE:	Tierra West, LLC 5571 Midway Park Place NW Albuquerque, NM Rocky Moun tain RV 12700 Central Avenue SE Albuquerque, NM	PHONE: ZIP CODE: CONTACT: PHONE:	Ronald R. Bohannan / Jessica Hunter (505) 858-3100 87109 Terry Roberts (505) 292-7800 87123
ARCHITECT: ADDRESS: CITY, STATE:	N/A	CONTACT: PHONE: ZIP CODE:	
SURVEYOR: ADDRESS: CITY, STATE:	Forstbauer Surveying 4116 Lomas Blvd. Albuquerque, NM	CONTACT: PHONE: ZIP CODE:	Ronald Forstbauer 268-2112
CONTRACTOR: ADDRESS: CITY, STATE:	Shiver Construction, Inc. 1412 B rodway Boulevard SE Albuquerque, NM	CONTACT: PHONE: ZIP CODE:	Bruce Ross (505) 344-3461 87102
DRAINAGE PL CONCEPTUAL GRADING PLAN EROSION CON X ENGINEER'S C CLOMR/LOMR TRAFFIC CIRCLE ENGINEERS C	PORT AN 1st SUBMITTAL, <i>REQUIRES TCL or equal</i> LAN RESUBMITTAL GRADING & DRAINAGE PLAN	SIA / FINAN PRELIMINA S. DEV. PL S. DEV. PL SECTOR P FINAL PLA FOUNDATI BUILDING X CERTIFICA GRADING R PAVING PE	APPROVAL SOUGHT: NACIAL GUARANTEE RELEASE NRY PLAT APPROVAL AN FOR SUB'D. APPROVAL AN FOR BLDG. PERMIT APPROVAL LAN APPROVAL T APPROVAL ON PERMIT APPROVAL PERMIT APPROVAL ATE OF OCCUPANCY (PERM.) ATE OF OCCUPANCY (TEMP.) PERMIT APPROVAL ERMIT APPROVAL ERMIT APPROVAL DER APPROVAL
WAS A PRE-DESIGN C YES X NO COPY PROVID	ONFERENCE ATTENDED:		RECEIVED
DATE SUBMITTED:	June 2, 2008	BY: Ron Wright (2	JUN 02 2008 HYDROLOGY SECTION

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of sumbittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plans: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE



Planning Department Transportation Development Services Section

June 20, 2008

Kent Trauernicht, Registered Architect AKT Architects, LLC PO BOX 3366 Albuquerque, NM 87190

Certification Submittal for Final Building Certificate of Occupancy for Re:

Rocky Mountain RV & Marine Addition, [L-22 / D035B]

12700 Central Ave. SE

Architect's Stamp Dated 06/01/08

P.O. Box 1293

Dear Mr. Trauernicht:

Albuquerque

The TCL / Letter of Certification submitted on June 20, 2008 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

New Mexico 87103

www.cabq.gov

Milo/E. Salgado\Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

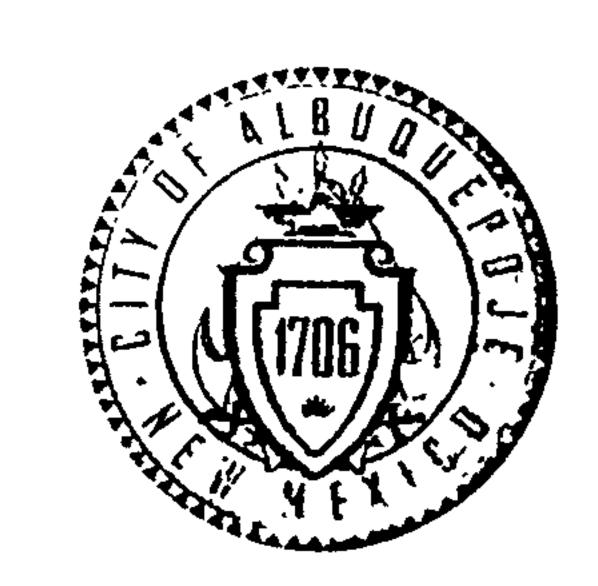
Planning Department

C:

Sincerely

Engineer Hydrology file CO Clerk

CITY OF ALBUQUERQUE



Planning Department Transportation Development Services Section

June 18, 2008

Kent Trauernicht, Registered Architect, AKT Architects, LLC PO BOX 3366 Albuquerque, NM 87190

Re: Approval of Temporary Certificate of Occupancy (C.O.) for

Rocky Mountain RV & Marine Addition, [L-22 / D035B]

12700 Central Ave. SE

Architect's Stamp Dated 06/01/08

Dear Mr. Trauernicht:

Based on the information provided on your submittal dated June 17, 2008, the above referenced project is approved for a 90-day Temporary C.O.

PO Box 1293

A Temporary C.O. has been issued allowing the outstanding Site Plans (need to provide original DRB Site plan and the Administrated Amended Site that constructed addition) issues to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

Albuquerque

NM 87103

www.cabq.gov

The Certification package for Final C.O. must include an <u>exact</u> copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead-stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

If you have any questions, please call me at 924-3630.

Sincerely/

Milo E. Salgado Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

Planning Department

C:

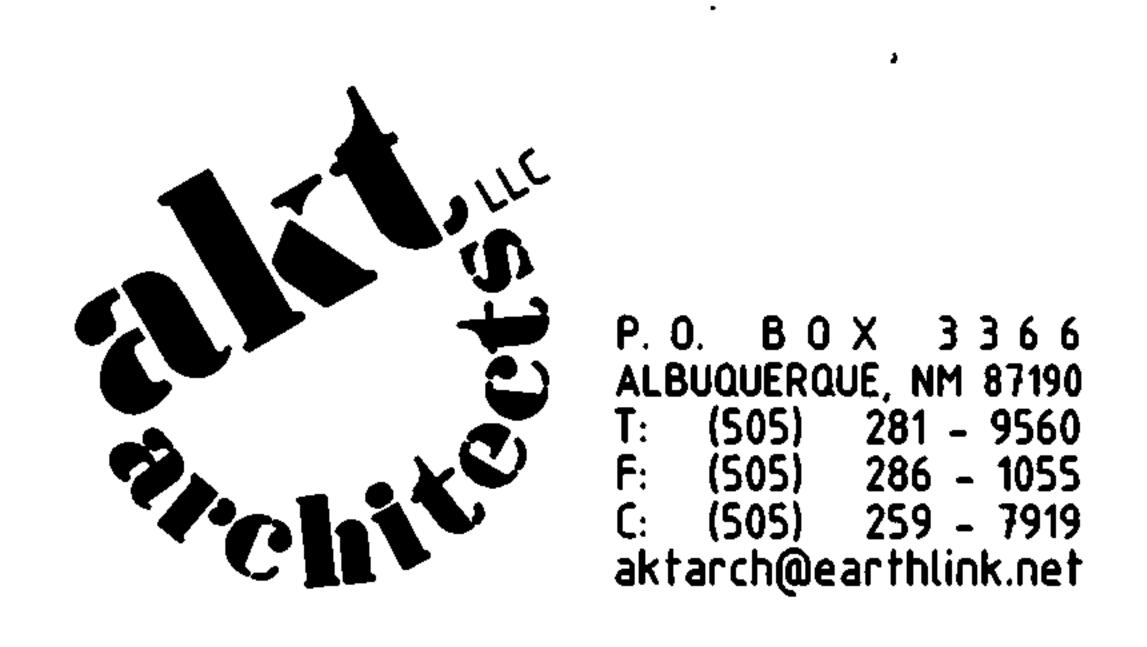
Engineer
Hydrology file
CO Clerk

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 12/2005) ZONE MAP: L-ZZ 006829 DRB#: EPC#: **WORK ORDER#:** LEGAL DESCRIPTION: CITY ADDRESS: 12700 Comman Ave TIERRA WEST ENGINEERING FIRM: CONTACT: ADDRESS: PIACE MIOWAT PHONE: CITY, STATE: Alb. 87105 NMZIP CODE: _ 87109 160ck w **OWNER:** CONTACT: ADDRESS: 7700 CENTRAL AVE SE PHONE: 292-7200 CITY, STATE: NM ZIP CODE: ピカルン ARCHITECT: RAUERNICHT CONTACT: 1604 ADDRESS: 408 BROADWAY Blud. PHONE: 344-346 CITY, STATE: Alb. NM ZIP CODE: 21102 TIERRA WEST **SURVEYOR:** CONTACT: ADDRESS: PHONE: _ CITY, STATE: ZIP CODE: SHIVER **CONTRACTOR:** DNSTRUCTION CONTACT: ADDRESS: 408 Broshus **ISJUD** PHONE: 344-346 i CITY, STATE: 87102 NM ZIP CODE: TYPE OF SUBMITTAL: CHECK TYPE OF APPROVAL SOUGHT: DRAINAGE REPORT SLA/FINANCIAL GUARANTEE RELEASE DRAINAGE PLAN 1st SUBMITTAL PRELIMINARY PLAT APPROVAL DRAINAGE PLAN RESUBMITTAL S. DEV. PLAN FOR SUB'D APPROVAL CONCEPTUAL G & D PLAN S. DEV. FOR BLDG. PERMIT APPROVAL GRADING PLAN SECTOR PLAN APPROVAL **EROSION CONTROL PLAN** FINAL PLAT APPROVAL ENGINEER'S CERT (HYDROLOGY) FOUNDATION PERMIT APPROVAL CLOMR/LOMR BUILDING PERMIT APPROVAL: TRAFFIC CIRCULATION LAYOUT CERTIFICATE OF OCCUPANCY (PERM) ENGINEER'S CERT (TCL) CERTIFICATE OF OCCUPANCY (TEMP) ENGINEER'S CERT (DRB SITE PLAN) GRADING PERMIT APPROVAL OTHER (SPECIFY) PAVING PERMIT APPROVAL WORK ORDER APPROVAL OTHER (SPECIFY) WAS A PRE-DESIGN CONFERENCE ATTENDED: YES NO COPY PROVIDED DATE SUBMITTED: BY: Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature,

location, and scope to the proposed development defines the degree of drainage detail. One or more by the following levels of submittal may be required based on the following:

Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans That that the Conceptual

Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) Ecto Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.



June 1, 2008

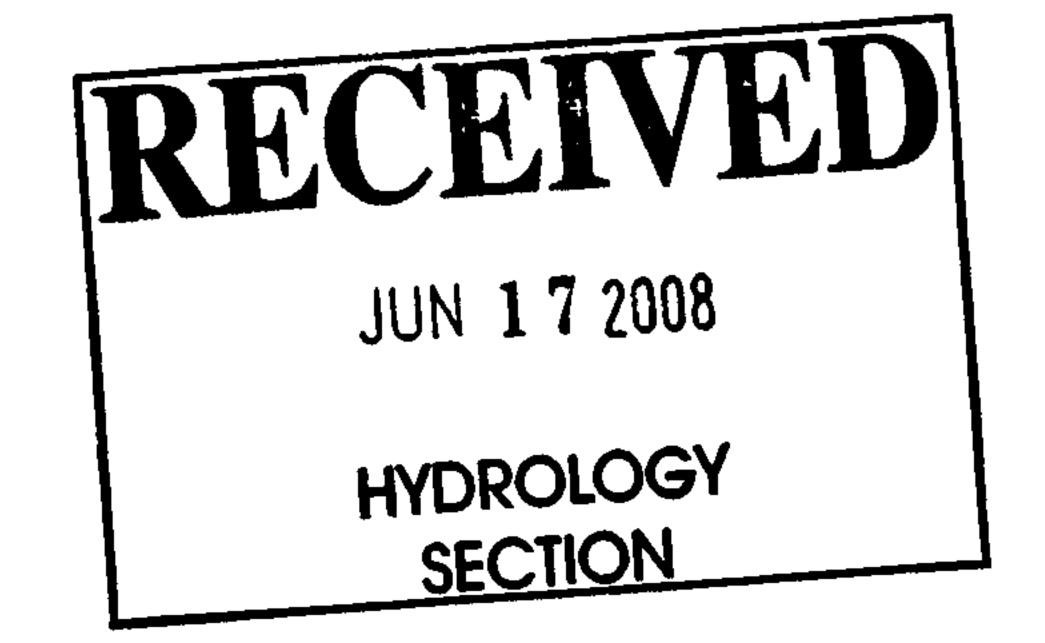
City of Albuquerque Public Works Department Transportation Development Services 600 2nd Street NW Albuquerque, NM 87102

RE: Traffic Circulation Layout – Certification COA BP# 0713368 Rocky Mountain RV & Marine Addition 12700 Central Ave SE Albuquerque, NM 87123

I have visited the completed project and to the best of my knowledge and information it appears to be in substantial compliance with the intent of the design concepts and the "Traffic Circulation Layout", as approved by the City. Minor site changes may have occurred during the construction of this project but have no adverse impact to the site and its ability to comply with the approved plan. Those relying upon this record are advised to obtain independent verification of its accuracy before using it for any other purpose.

This document neither expresses nor implies a warranty.





SHIVER CONSTRUCTION COMPANY

408 Broadway Blvd SE
Albuquerque, New Mexico 87102
505-344-3461 Fax 505-764-8198
WWW.SHIVERCONSTRUCTIONCOMPANY.COM

****** ELECTRONIC TRANSMITTAL *******

June 20, 2008

To: Nilo Fernandez

City of Albuquerque

Transportation Development Section

From: Rich

Transmitted as attachment(s):

FOR TCL SUBMITTAL - FINAL C.O.

Original DRB Approved Site Plan 12700 Central Ave SE

Nilo,

Thanks for your time and attention to this matter.

Please, do not hesitate to call me with any questions. 344-3461

Thanks,

Richard Bills

Shiver Construction

* NILO-Please fax us a copy of the final approval.

CITY OF ALBUQUERQUE



October 4, 2007

Ronald Ray Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Re: Rocky Mountain R.V.- Marine Facility Grading and Drainage Plan Engineer's Stamp dated 10-2-07 (L22/D035B)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 10-3-07, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

P.O. Box 1293

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3695.

Albuquerque

New Mexico 87103

www.cabq.gov

Curtis A. Cherne, P.E.

Sincerely,

Engineering Associate, Planning Dept. Development and Building Services

C: file



CITY OF ALBUQUERQUE



August 31, 2007

Ronald Ray Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Re: Rocky Mountain RV Grading and Drainage Plan Engineer's Stamp dated 8-28-07 (L22/D035B)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 8-29-07, the above referenced plan is approved for Grading Permit and Paving Permit.

When submitting for Building Permit please provide the following information:

P.O. Box 1293

- A project narrative
- Drainage calculations

Albuquerque

• New water surface elevation for Pond 1

If you have any questions, you can contact me at 924-3695.

New Mexico 87103

www.cabq.gov

Sincerely,

Curtis A. Cherne, P.E.

Engineering Associate, Planning Dept. Development and Building Services

C: file

3



February 26, 1998

Ronald Bohannan, P.E. Tierra West, LLC 4421 McLeod NE Albuquerque, NM 87109

RE: ROCKY MOUNTAIN RV MARINE FACILITY (L22-D35B). ENGINEER'S CERTIFICATION DATED FEBRUARY 12, 1998.

Dear Mr. Bohannan:

Based on the information provided on your February 10, 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.

Sincerely,

Lisa Ann Manwill, P.E.

Hydrology

c: Andrew Garcia

Rocky Mountain Marine and RV, copy of the green tag for the storm sewer work in the Public Right of Way. SO-19 Permit # 2001845.

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February 10, 1998

Mrs. Lisa Manwill Albuquerque Public Works Dept. P.O. Box 1293 Albuquerque, New Mexico 87103

Re:

Certification of Occupancy and Certification of Drainage

Lot B-1-A-1-B, Dorado Village Subdivision

Rocky Mountain R.V. and Marine Facility, 11109 Central Avenue, NE

Albuquerque New Mexico 87123

Dear Lisa:

Enclosed please find one copy of the as-built Grading and Drainage Plan for Lot B-1-A-1-B, Dorado Village Subdivision and a copy of the SO- 19 green tag for the storm sewer work in the Public Right of Way. Banes Southwest is the prime contractor on the project and has completed the storm sewer, paving and site landscaping improvements. Also, all work completed has been constructed in substantial compliance with the approved plan. As-built grades have been provided by Ronald Forstbauer, a registered land surveyor. We are therefore certifying the site for drainage as required for Certificate of Occupancy.

Should you have any questions, please do not hesitate to contact our office.

Sincerely,

Ronald R. Bohannan, P.E.

Enclosure

CC:

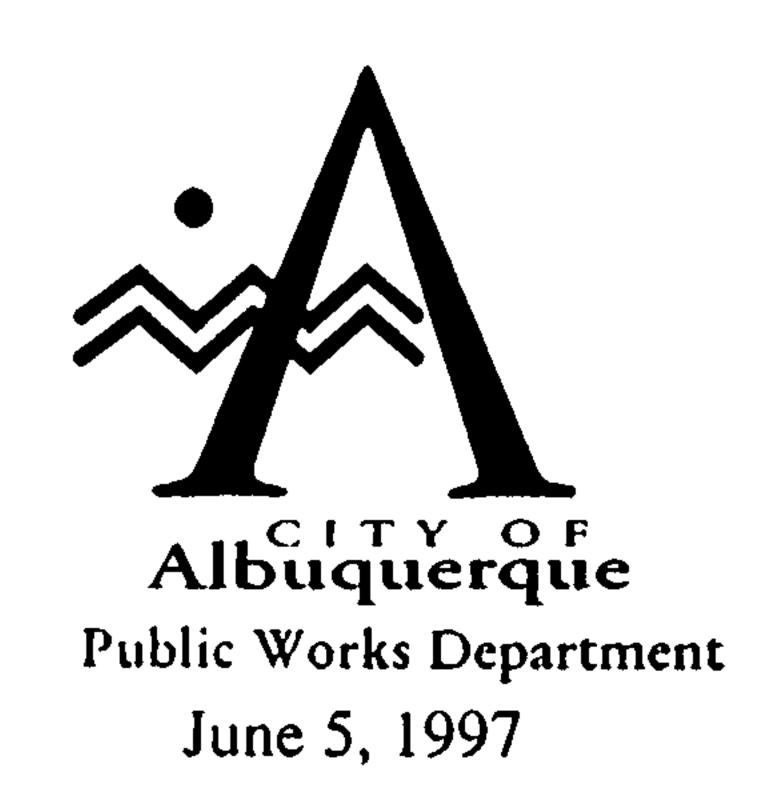
Judy Roberts

Banes Southwest

JN: 940012 RRB/rw

DRAINAGE INFORMATION SHEET

PROJECT TITLE:	Rocky Mountain R.V. Marine Facility	ZONE ATLAS/DRN	G. FILE #: L-22-Z / () 35 B
DRB #: <u>94-5</u>	09	WORK ORDER #:	N/A
LEGAL DESCRIPT	TION: Lot B-1-A-1-B, Dorado Village Subdi	vision	
CITY ADDRESS:	A NE Albuquerque	e, New Mexico 87123	12700 Contral Ame, N.E.
ENGINEERING FIF	RM: TIERRA WEST, LLC	CONTACT:	RONALD R. BOHANNAN
ADDRESS:	4421 McCleod Rd. NE Suite D, 87109	PHONE:	(505) 883-7592
OWNER:	Rocky Mountain R.V.	CONTACT:	Judy Roberts
ADDRESS:	11109 Central Avenue, NE	PHONE:	(505) 292-7800
ARCHITECT:	Kent Trauernicht	CONTACT:	Kent Trauernicht
ADDRESS:	100 Iron SE 87102	PHONE:	(505) 344-3461
SURVEYOR:	Forstbauer Surveying Co.	CONTACT:	Ronald Forstbaur
ADDRESS:	1100 Alvarado Dr. NE 87110	PHONE:	(505) 268-2112
CONTRACTOR:	Banes Corporation	CONTACT:	Bruce Ross
ADDRESS:	100 Iron SE 87102	PHONE:	(505) 344-3461
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			P CO. Ussued on 2-12-98
DA	TE SUBMITTED: February 10, 1998	 	
	BY: Ronald R Bohannan, P.E.		



Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Sara McCollam
Tierra West Development
4421 McLeod Rd. NE Suite D
Albuquerque, New Mexico 87109

RE: Drainage Plan for Rocky Mountain R.V. (L22-D35B) Received June 5, 1997

Dear Ms. McCollam:

The above referenced plan stamp dated June 5, 1997 is approve for the following:

- 1. The plan is approved for Building Permit.
- 2. Approval of the drainage plan allows the approval of the Site Development Plan from the drainage criteria. The drainage plan and the Site Plan should match for approval.
- 3. Approval of the Drainage Facilities Within City Right-Of-Way (SO #19) for the back of curb pipe connection.

A separate permit is required for construction within City Right-of Way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy release the Engineer will need to certify the project per the DPM.

If you have any questions please call at 924-3984.

Sincerely,

Carlos A. Montoya

Project Manager

c: Andrew Garcia File

DRAINAGE INFORMATION SHEET

PROJECT TITLE	E: ROCKY MOUNTAIN R.V.	ZONE ATLAS/DRN	G. FILE #: <u>L-22</u>
DRB #: 94-50	9	WORK ORDER #:	
LEGAL DESCRI	PTION: TRACT B1A1B DORADO VILLA	GE	
CITY ADDRESS:	: 12700 CENTRAL AVENUE, N.E.		· <u> </u>
ENGINEERING F	FIRM: TIERRA WEST DEV. MAGT. SER.	CONTACT:	RONALD R. BOHANNAN
ADDRESS:	4421 McCLEOD NE SUITE #D, 87109	PHONE:	(505) 883-7592
OWNER:	ROCKY MOUNTAIN R.V.	CONTACT:	JUDY ROBERTS
ADDRESS:	11109 CENTRAL, NW, 87123	PHONE:	(505) 292-7800
ARCHITECT:		CONTACT:	
ADDRESS:		PHONE:	
SURVEYOR:	PRECISION SURVEYING	CONTACT:	LARRY MADRANO
ADDRESS:	2929 COORS BLVD. NW SUITE 105, ALBUQ. NM 87120	PHONE:	(505) 839-0569
CONTRACTOR:		CONTACT:	
ADDRESS:		PHONE:	
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	ATE SUBMITTED: 6/05/97		JUNI 0 5 1997
	BY: SARA McCOLLAM		The state of the s

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

June 5, 1997

INTER-OFFICE CORRESPONDENCE

HYDROLOGY DIVISION

TO:

Desiderio Salas, Street Maintenance Division

FROM:

Carlos A. Montoya, Project Manager, PWD /

SUBJECT: PRIVATE DRAINAGE FACILITIES WITHIN PUBLIC

RIGHTS-OF-WAY/EASEMENT

(L22-35B)

Transmitted herewith, is a copy of the approved drainage plan for the referenced project incorporating the S.O. #19 design.

In accordance with the new process, this plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed-off S.O. #19 is required by this office for Certificate of Occupancy release; hence your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation and if you should have any questions and/or comments regarding the process, please feel free to call me at 924-3984.

Attachment



June 3, 1997

Mr. Carlos Montoya City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

Re:

Rocky Mountain RV (L22-D35)

Dear Mr. Montoya:

We are addressing your comments regarding the Grading and Drainage Plan for the Rocky Mountain RV site.

- The existing street grades on Central Avenue, Whispering Sands Drive, and Western Skies have been added to the grading plan.
- 2. The right-of-way dedication on Central Avenue will not effect any grades at the property line.
- No runoff enters the site through the entrance on Central Avenue. The grades show an existing water block at the entrance.
- 4. All the storm drains will be constructed with the first phase of construction.
- The entrance near Basin 3 has not been constructed. When Phase II is built the entrance will be graded to provide a water block. A new submittal with Phase II will be required.
- 6. There are no offsite flows entering the site. Western Skies, Central and Whispering Sands are all existing streets with curb and gutter.

If you have any questions regarding this matter, please do not hesitate to call me.

Sincerely,

Sara McCollam

Enclosures

cc:

Judy Roberts
Bruce Ross

JN: 940012

scm

940012: resubmt2.kr



Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Sara McCollam
Tierra West Development
4421 McLeod Rd. NE Suite D
Albuquerque, New Mexico 87109

RE: Drainage Plan for Rocky Mountain R.V. (L22-D35) Received April 25, 1997

Dear Ms. McCollam:

I have reviewed the referenced report and forward the following comments.

- 1. Please show existing street grades on Central Avenue, Whispering Sands Drive, and Western Skies.
- 2. How will the 12 foot Central widening effect the grades at the property line?
- 3. Does public runoff enter the property through the entrance on Central Avenue? Public water needs a public easement. Is there an inlet in this entrance?
- 4. Will all the storm drains be constructed in the first phase?
- 5. Is there a one foot water block in basin 3 entrance?
- 6. Are there any off site flows?

If you have any questions please call me at 924-3984.

Sincerely,

Carlos A. Montoya

Project Manager

c: Andrew Garcia

Good for You, Albuquerque!



September 16, 1996

Ms. Lisa Manwill
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Rocky Mountain R.V. (L22-D35)

Dear Ms. Manwill:

We are addressing your comments regarding the Grading and Drainage Plan for the Rocky Mountain R.V. site.

- I. The SO #19 notes and sign-off block has been added to the plan. We have also provided two copies of the latest grading plan for your review and approval.
- 2. The line type has been changed on the distance and bearing line. It no longer resembles the storm drain lines.
- The pipe tying into the back of the existing inlet on Western Skies has been changed to a 12" RCP per your suggestion.
- 4. You also suggested we could reduce the three sidewalk culverts to two culverts. We have decided to keep the three culverts for a more conservative design.

If you have any questions regarding this matter, please do not hesitate to call me.

Sincerely,

Enclosures

CC:

JN: 940012

scm

APR 25 1997

HYDROLL: Y SECTION

940012: resubmt1.ltr

DRAINAGE INFORMATION SHEET

PROJECT TITLE:	ROCKY MOUNTAIN R.V.	ZONE ATLAS/DRNG	. FILE #:	L-22/D35B
DRB #: <u>94-509</u>	EPC #: <u>Z-94-92</u>	WORK ORDER #:		
LEGAL DESCRIPT	ION: TRACT B1A1B DORADO VILLAGE	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
CITY ADDRESS:	12700 CENTRAL AVENUE, N.E.			<u> </u>
ENGINEERING FIR	M: TIERRA WEST DEV. MAGT. SER.	CONTACT:	RONALD R. BOHANNAN	<u> </u>
ADDRESS:	4421 McCLEOD NE SUITE #D, 87109	PHONE:	(505) 883-7592	
OWNER:	ROCKY MOUNTAIN R.V.	CONTACT:	JUDY ROBERTS	
ADDRESS:	11109 CENTRAL, NW, 87123	PHONE:	(505) 292-7800	
ARCHITECT:		CONTACT:		
ADDRESS:		PHONE:		
SURVEYOR:	PRECISION SURVEYING	CONTACT:	LARRY MADRANO	
ADDRESS:	2929 COORS BLVD. NW SUITE 105, ALBUQ. NM 87120	PHONE:	(505) 839-0569	
	ZYZY COURS BLVD. 14W BOILD 103, MEDOQ. 14M G/120	CONTACT:		
CONTRACTOR:		PHONE:		
ADDRESS:				
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DA	TE SUBMITTED: 4/25/97 BY: SARA McCOLLAM		APR 25	1997 DN

FILE



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR

KEN SCHULTZ

CHIEF ADMINISTRATIVE OFFICER DEPUTY CAO
PUBLIC SERVICES

DEPUTY CAO PLANNING/DEVELOPMENT

GENE ROMO

FRANK MARTINEZ

BILL MUELLER

May 20, 1988

Louis Gross, P.E.
Logan/Gross & Assocaites, Inc.
925 Sixth Street, NW Suite 3
Albuquerque, New Mexico 87102

RE: REVISED GRADING PLAN FOR GENERAL VEHICLE STORAGE (L-22/D35B) REVISION DATED MAY 18, 1988

Dear Mr. Gross:

Based on the information provided on your resubmittal of May 18, 1988, the above referenced plan is approved for Grading Permit.

Upon completion of the project, arrangements must be made with our drainage inspector for a field inspection. Also, we will need concurrence of Work Order No. 3529 release from the Inspection Section prior to final approval.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Dennie J. Montoya, C.E.

Engineering Assistant

BJM/bsj

DRAINAGE INFORMATION SHEET.

CITY OF ALBUQUERQUE, N.M.

PROJECT TITLE: Auto Sales Lot ZO	NE ATLAS/DRNG. FILE #: L22/35B
LEGAL DESCRIPTION: Phase II, Lot B1-A-1-B,	Unit 3, Dorado Village
CITY ADDRESS: Not Known	
ENGINEERING FIRM: Louis Gross & Assoc. Inc.	CONTACT: Louis Gross
ADDRESS: 925 Sixth St. N.W.	PHONE: 243-6353
OWNER: <u>Harold Martinez</u>	CONTACT: <u>Harold Martinez</u>
ADDRESS: 13041 Central N.E.	PHONE: 294-8884
ARCHITECT: None	CONTACT:
ADDRESS:	_ PHONE:
SURVEYOR: Louis Gross & Assoc. Inc.	CONTACT: Louis Gross
ADDRESS: 925 Sixth St. N.W.	PHONE: 243-6353
CONTRACTOR: None	CONTACT:
ADDRESS:	_ PHONE:
XX ND AUG UI 1989	RB NO. PC NO. ROJ. NO.
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ENGINEER'S CERTIFICATION	FOUNDATION PERMIT APPROVAL
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<u>XX</u>	GRADING/PAVING PERMIT APPROVAL OTHER (SPECIFY)
DATE SUBMITTED: :8/1/89	

Louis W. Gross



KEN SCHULTZ

MAYOR

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 15, 1989

Louis Gross, P.E. Louis Gross & Associates, Inc. 925 Sixth Street, NW Suite 3 Albuquerque, New Mexico 87102

> RE: DRAINAGE PLAN FOR AUTO SALES LOT (L-22/D35B) RECEIVED AUGUST 1, 1989

Dear Mr. Gross:

Based on the information provided on your submittal of August 1, 1989, listed you will find certain items that will need to be addressed prior to final approval:

- 1. Zoning will require that the complete proposed Auto Sales Lot be paved.
- 2. New submittal showing computations for impervious area must be submitted for review.
- 3. Provision must be made to discharge the proposed developed area onto Central Avenue. Undeveloped historical flows are the only flows that the adjacent property is required to accept.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Dennie J. Montoya, C.E.

Engineering Assistant

BJM/bsj (WP+733)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E. Assistant Director Public Works **ENGINEERING GROUP**

Telephone (505) 768-2500

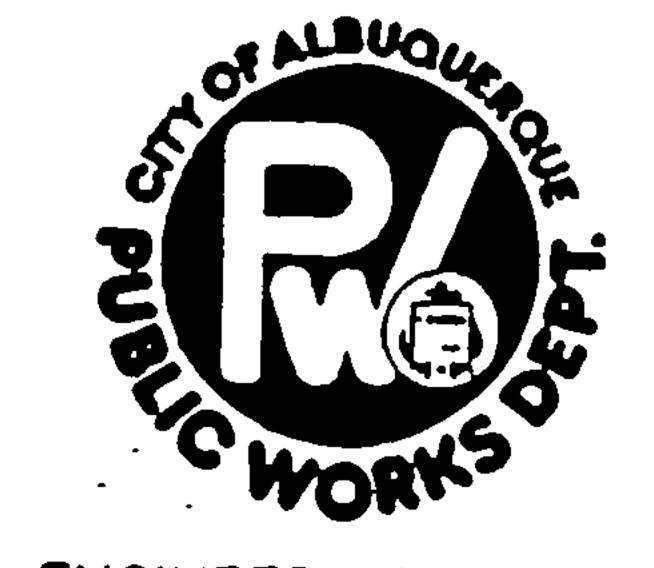
DRAINAGE INFORMATION SHEET

CITY OF ALBUQUERQUE, N.M.

PROJECT TITLE: Auto Sales Lot	ZONE ATLAS/DRNG. FILE #: L22/
LEGAL DESCRIPTION: Phase II, Lot B1-A-1-B	, Unit 3, Dorado Village
CITY ADDRESS: Not Known	
ENGINEERING FIRM: Louis Gross & Assoc. Inc	CONTACT: Louis Gross
ADDRESS: 925 Sixth St. N.W.	PHONE: 243-6353
OWNER: <u>Harold Martinez</u>	CONTACT: Harold Martinez
ADDRESS: 13041 Central N.E.	PHONE: 294-8884
ARCHITECT: None	CONTACT:
ADDRESS:	
SURVEYOR: Louis Gross & Assoc. Inc.	CONTACT: Louis Gross
ADDRESS: 925 Sixth St. N.W.	PHONE: 243-6353
CONTRACTOR: None	CONTACT:
ADDRESS:	PHONE:
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DATE SUBMITTED: :8/1/89	
BY: Julis W. Gross	

EILE COPY

TY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT



INTER-OFFICE CORRESPONDENCE

August 30, 1989

ENGINEERING GROUP

TO:

Desiderio Salas; Street Maintenance Division

FROM:

Fred J. Aguirre, Hydrologist; Engineering Group/PWD

SUBJECT:

AUTO SALES LOT (L-22/D35B)

Transmitted herewith, is a copy of the approved drainage plan for the referenced project incorporating the S.O. #19 design.

In accordance with the new process, this plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed-off S.O. #19 is required by this office for Certificate of Occupancy release; hence your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation, and if you should have any questions and/or comments regarding the process, please feel free to call me at 768-2650.

FJA/bsj

Attachment



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 6, 1990

Dennis Lorenz
Espey Huston & Assoc., Inc
317 Commercial NE
Albuquerque, New Mexico 87102

RE: DRAINAGE PLAN FOR AUTO SALES LOT (L-22/D35B) ENGINEER'S STAMP DATED MAY 18, 1990

Dear Mr. Lorenz:

Based on the information provided on your May 18, 1990 submittal, the above referenced drainage plan is approved for Site Development.

If I can be of further assistance, please feel free to contact me at 768-2650.

Sincerely,

Fred Aguirre, PE
Hydrology Division

BJM:jc WP+733

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E. Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

DRAINAGE INFORMATION SHEET

PROJECT TITLE: PHASE II LOT BI-A-1-B	ZONE ATLAS/DRNG. FILE #: L22/25
DRB #: EPC #: Z-81125-1	. WORK ORDER #:
LEGAL DESCRIPTION: PHPSE II LOT BI-A-1-	-B, UNITS DORMO VILLAGE
CITY ADDRESS: CENTRAL ME	5 E
ENGINEERING FIRM: ESPEY HVSTON ASS	CONTACT: D. LONETY2
ADDRESS: 317 COMMERCIAL ME	PHONE: 242 1909
OWNER: HAROW MANTIMEZ	CONTACT:
ADDRESS: 13041 CENTRAL ME	
ARCHITECT: NA	CONTACT:
ADDRESS:	PHONE:
SURVEYOR: NA	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR: NA	CONTACT:
	PHONE: ECK TYPE OF APPROVAL SOUGHT:
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	OTHER (SPECIFY)
DATE SUBMITTED: DENNIS LOPENZ	

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DRAINAGE INFORMATION SHEET

CITY OF ALBUQUERQUE, N.M.

PROJECT TITLE: General Vehicle Storage ZONS	
LEGAL DESCRIPTION: Lot B1-A-1-B, Unit 3, Dora	ado Village
CITY ADDRESS: Central S.E.	<u> </u>
ENGINEERING FIRM: Logan/Gross & Assoc. Inc.	CONTACT: Louis W. Gross
ADDRESS: 925 6th St. N.W.	PHONE: 243-6353
OWNER: Harold Martinez	CONTACT: Harold Martinez
ADDRESS: 3625 Central N.E.	PHONE: 294-8884
ARCHITECT: Bill Buckley	CONTACT: Bill Buckley
ADDRESS: 3625 Central N.E.	PHONE: 255-9196
SURVEYOR: Ed Moore .	CONTACT: Ed Moore
ADDRESS:	PHONE: 897-7267
CONTRACTOR: Not selected yet.	CONTACT:
ADDRESS:	PHONE:
PRE-DESIGN MEETING: MAY 18 1988	
	B NO. Z-87-127
HYDROLOGY SECTIONED	C NO.
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AA ECCET WICH COMMENIES	
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EROSION CONTROL PLAN	BUILDING PERMIT APPROVAL
	FOUNDATION PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY AFFROVAL
	ROUGH GRADING PERMIT APPROVAL
<u> </u>	GRADING/PAVING PERMIT APPROVAL
	OTHER (SPECIFY)
DATE SUBMITTED: 5/4/88 Revised 5/18/88	
BY: / full full	
Løuis W. Gross	

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

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City Sta	dati and skind	b., Architect.
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DRAINAGE INFORMATION SHEET

CITY OF ALBUQUERQUE, N.M.

PROJECT TITLE: General Vehicle Storage ZONE ATLAS/DRNG. FILE #: L-22/358	
LEGAL DESCRIPTION: Lot B1-A-1-B, Unit 3	, Dorado Village
CITY ADDRESS: Central S.E.	•
ENGINEERING FIRM: Logan/Gross & Assoc.	Inc. CONTACT: Louis W. Gross
ADDRESS: 925 6th St. N.W.	PHONE: 243-6353
OWNER: Harold Martinez	CONTACT: Harold Martinez
ADDRESS: 3625 Central N.E.	PHONE: 294-8884
ARCHITECT: Bill Buckley	CONTACT: Bill Buckley
ADDRESS: 3625 Central N.E.	PHONE: 255-9196
SURVEYOR: Ed Moore	CONTACT: Ed Moore
ADDRESS:	PHONE: 897-7267
CONTRACTOR: Not selected yet.	CONTACT:
ADDRESS:	PHONE:
XX COPY OF CONFERENCE RECAROLOGY SECTION SHEET PROVIDED	PROJ. NO.
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
XX DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	XX SITE DEVELOPMENT PLAN APPROVAL
XX GRADING PLAN EROCION CONTOOL OLON	FINAL PLAT APPROVAL
EROSION CONTROL PLAN ENGINEER'S CERTIFICATION	BUILDING PERMIT APPROVAL
LIGINGER S CENTIFICATION	FOUNDATION PERMIT APPROVAL CERTIFICATE OF OCCUPANCY APPROVAL
	ROUGH GRADING PERMIT APPROVAL
	XX GRADING/PAVING PERMIT APPROVAL
	OTHER (SPECIFY)
5///00 /	
DATE SUBMITTED. 5/4/88	
Louis W. Gross	



City of Albuquerque

ALBUQUERQUE, NEW MEXICO 87103 P.O. BOX 1293

MAYOR

CHIEF **ADMINISTRATIVE OFFICER**

DEPUTY CAO PUBLIC SERVICES

DEPUTY CAO PLANNING/DEVELOPMENT

KEN SCHULTZ

GENE ROMO

FRANK MARTINEZ

BILL MUELLER

May 11, 1988

Louis Gross, P.E. Louis/Gross & Associates, Inc. 925 Sixth Street, NW Suite 3 Albuquerque, New Mexico 87102

> GRADING PLAN FOR GENERAL VEHICLE STORAGE RE: (L-22/D35B) ENGINEER'S STAMP DATED MAY 2, 1988

MAY 1 8 1988 HYDROLOGY SECTION

Dear Mr. Gross:

Based on the information provided on your submittal of May 4, 1988, listed you will find certain concerns that will need to be addressed prior to final approval:

Exerting drink and curb & gutter clarifice 1. How do you propose to route the runoff through the) existing drive pad onto Western Skies (your plan shows a double line. Is this a proposed curb)?

3 und wier to reduce 2. How do you propose to control sediment into the street?

3. Your plan shows a 6' solid wood fence on the east? An existing prinate property line. You cannot block offsite flows.

4. Your road design shows a crown in the middle. You position.

5. Where is your T.B.M. located? 3 SUOW ON BOTH SUEETS

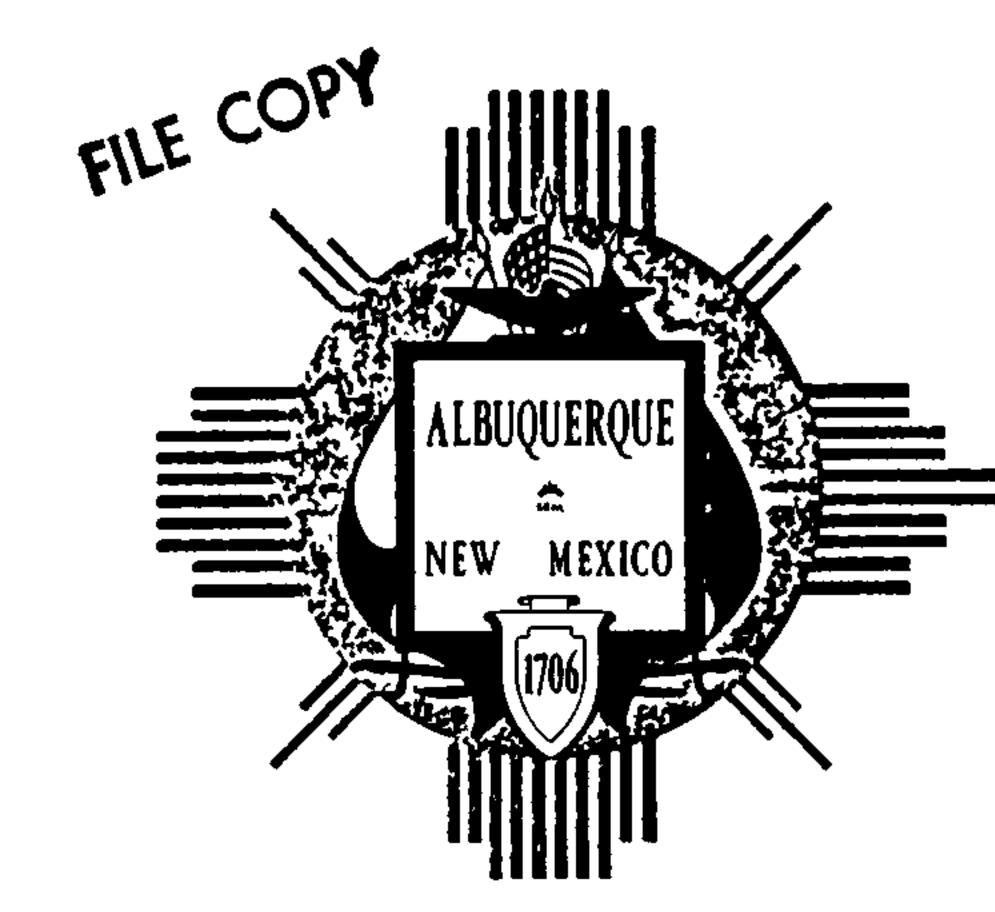
6. What do the circled numbers mean? Nothing

If I can be of further assistance, please call me at 768-2650.

Cordially,

Bernie J. Montoya, C.E. Engineering Assistant

BJM/bsj



KEN SCHULTZ

MAYOR

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 30, 1989

PLEASE LOG OFF

ALSO APPROVED

FOR SITE DEVELOPMENT

OM/PERBM

Louis Gross, P.E.
Louis Gross & Associates, Inc.
925 Sixth Street, NW Suite 3
Albuquerque, New Mexico 87102

RE: REVISED DRAINAGE PLAN FOR AUTO SALES LOT (L-22/D35B) REVISION DATED AUGUST 17, 1989

Dear Mr. Gross:

Based on the information provided on your submittal of August 17, 1989, the referenced drainage plan is approved for Grading/Paving.

Upon completion of the referenced project, a request for inspection is required (please provide the file number when requesting the inspection).

A separate permit is required for construction within City right of way. A copy of this approval letter must be on hand when applying for the excavation permit.

Also, please be advised that on future submittals, orientation of the North arrow is generally to the top of the sheet. The north arrow may point either to the right or left of the sheet provided that it does not point below a line 45° above the horizontal toward the right of the sheet or below a line 45° below the horizontal toward the left of the sheet.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj (WP+733)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E. Assistant Director Public Works

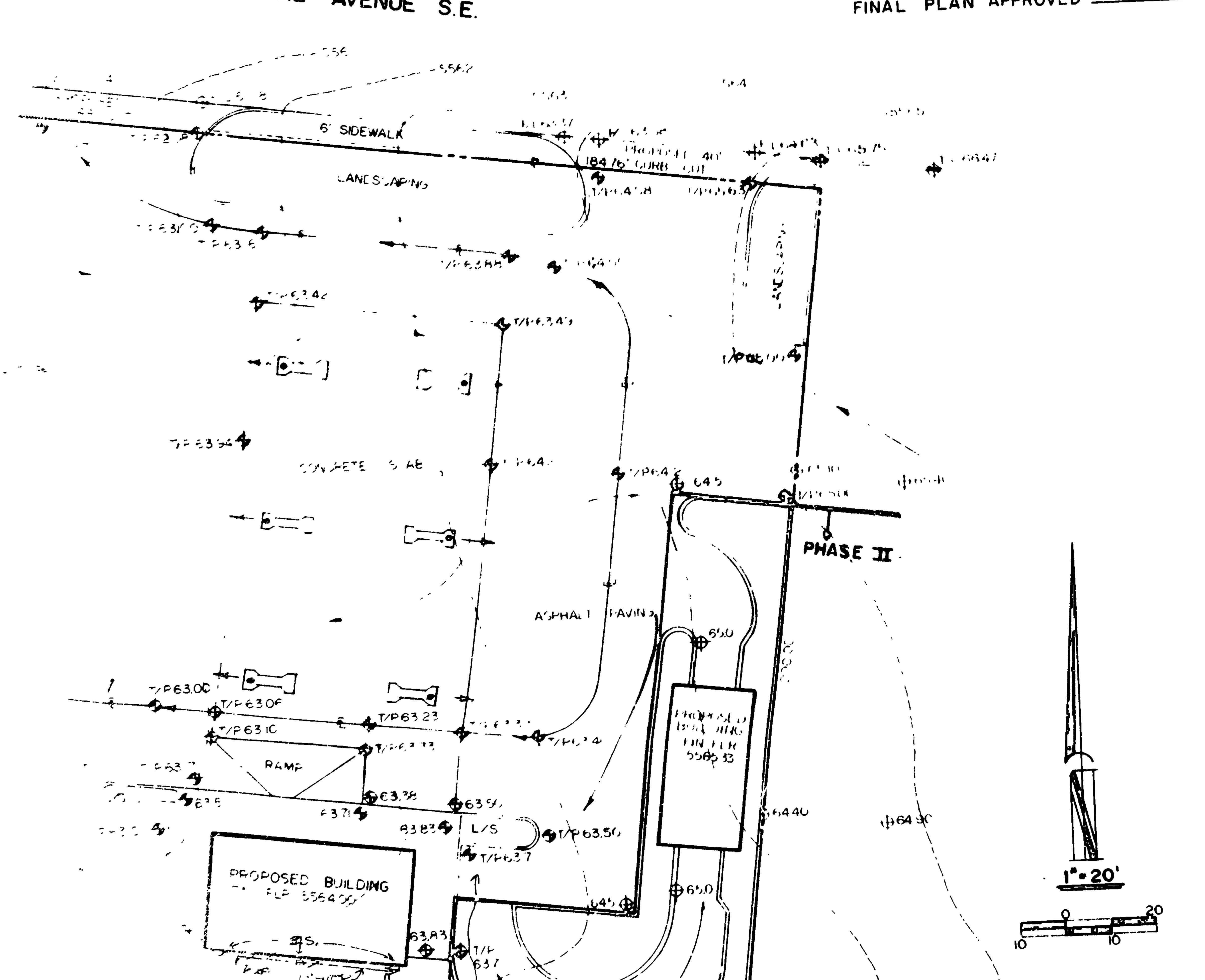
ENGINEERING GROUP

Telephone (505) 768-2500

2200 CENTRAL AVENUE S.E.

FLOOD MAP 37 SOIL. TYPE B TOTAL AREA - 0.918 ACRES - 40,000 S.F. L-22/D3A CONCEPTUAL APPROVED 11/6/86 FINAL APPROVAL 4/29/87 FINAL PLAN APPROVED _____

DHASE T - ALL



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