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**DRAINAGE REPORT**  
**for**  
**MOUNTAIN RIDGE SUBDIVISION**  
**Off-Site Drainage Basin**

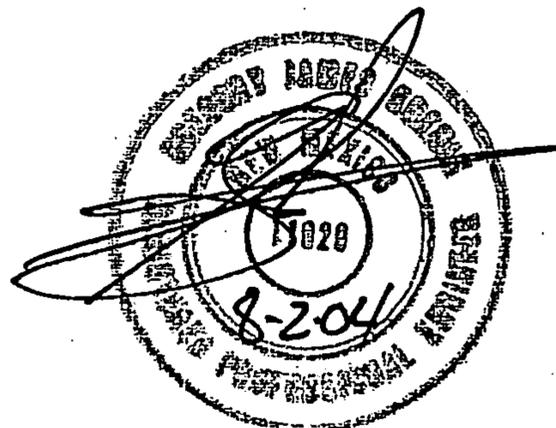
*Prepared for*

*Alpha Equities, LLC  
PO Box 10005  
Albuquerque, NM 87184  
(505) 922-9411*

*Prepared by*

*Mark Goodwin & Associates, PA  
PO Box 90606  
Albuquerque, NM 87199  
(505) 828-2200*

*July 2004*





D. Mark Goodwin & Associates, P.A.  
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199  
(505) 828-2200 FAX 797-9539  
e-mail: dmg@swcp.com

PROJECT MOUNTAIN RIDGE SUBDIVISION  
SUBJECT DRAINAGE CALCS  
BY GSK DATE 7-26-04  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 1 OF \_\_\_\_\_

THE MOUNTAIN RIDGE SUBDIVISION HAS AN OFFSITE DRAINAGE BASIN THAT ENTERS THE SITE ON THE EAST END. THIS OFFSITE BASIN IS DIVIDED INTO TWO PARTS. THE FIRST IS 19.3019 AC WHICH DRAIN TO BARSTOW. A FUTURE STORMDRAIN AT THIS LOCATION WILL PICK UP THIS FLOW AND DIVERT IT TO THE STORMDRAIN IN GLENDALE. THE CONSTRUCTION PANS PREPARED BY MARK GOODWIN & ASSOC. FOR THE DESERT RIDGE TRAILS EAST SUBDIVISION, COA PROJECT NO, 675484, SHOW THIS FUTURE STORMDRAIN. AT THIS TIME THE FLOW CROSSES BARSTOW AND ENTERS THE SECOND PART OF THE OFFSITE BASIN. THIS SECOND PART IS 3.6283 AC. AND FLOWS THROUGH LOT 21 WHICH IS ADJACENT TO OUR EAST BOUNDARY.

• THE TOTAL AREA OF THE BASIN IS 22.9302 AC

• EXISTING CONDITIONS

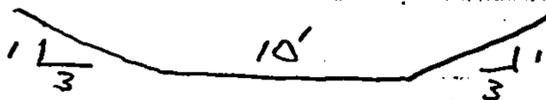
0.73 AC	TYPE "D"	3.18%
0.36 AC	TYPE "C"	1.57%
21.8402 AC	TYPE "A"	95.25%

FROM HYMO OUTPUT SHEETS 3-5

$Q = 44.14$  CFS

• WITH THE PERMISSION OF THE OWNER OF LOT 21 (NAYLOR REALTY) WE PROPOSE TO DIVERT THIS FLOW ON LOT 21 SO IT DRAINS TO THE GLENDALE ROW. THIS PROPERTY IS IN THE CITY DRB PROCESS NOW FOR REVIEW FOR DEVELOPMENT, DRB # 1003551, AND COMPRISES THE 3 LOTS DIRECTLY EAST OF OUR PROJECT AND THE 2 LOTS DIRECTLY EAST OF THE DESERT RIDGE TRAILS EAST PROJECT WHICH IS DIRECTLY NORTH OF OUR PROJECT. BRASHER & LORENZ ARE THE ENGINEERS FOR THE PROJECT.

• THE IMPROVEMENTS WILL CONSIST OF GRADING A NEW SWALE TO DIVERT THE EXISTING DRAINAGE.



SLOPE = 0.67%  
n = 0.027

d = 1  
WP = 16  
A = 13  
V = 3.78 F/S  
Q = 49.17 CFS > 44.14 CFS OK

• THIS IMPROVEMENT WILL BE TEMPORARY UNTIL THE ADJACENT PROJECT DEVELOPS.



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e-mail: dmgs@swcp.com

PROJECT MOUNTAIN RIDGE SUBDIVISION  
SUBJECT DAMAGE CALCS  
BY GSK DATE 7-26-04  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET 2 OF \_\_\_\_\_

- THE FLOW THAT ENTERS GLENDALE WILL BE INTERCEPTED BY THE THREE DOUBLE "A" INLETS THAT ARE BEING CONSTRUCTED IN GLENDALE WITH THE MOUNTAIN RIDGE SUBDIVISION. ORIGINALLY THE INLETS WERE TO BE DOUBLE "D" BUT SINCE MOUNTAIN RIDGE IS SO CLOSE TO CONSTRUCTION AND THE LARGE GLENDALE STORM DRAIN IS NOW UNDER CONSTRUCTION AND THE CONTRACTOR IS THE SAME FOR BOTH PROJECTS THE INLETS WILL GO IN AS DOUBLE "A". THE THREE INLETS ON THE SOUTH SIDE OF GLENDALE WILL GO IN AS DOUBLE "D" PER PLAN.



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**facsimile**  
**TRANSMITTAL**

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to: BRAD BINGHAM  
fax #: 924-3864  
re: MOUNTAIN RIDGE SUBDIVISION  
date: 8-3-04  
pages: 2 , including this cover sheet

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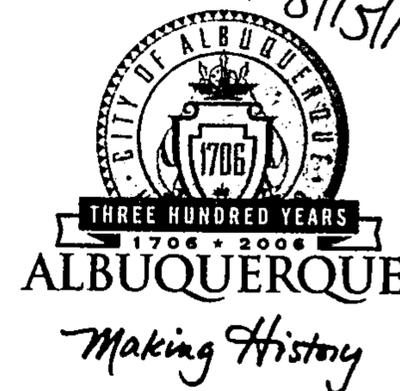
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from the desk of

**GREGORY J KRENİK, PE**  
Vice President

Mark Goodwin & Associates, PA  
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Albuquerque, NM 87199  
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# CITY OF ALBUQUERQUE



November 10, 2005

Gregory Krenik, P.E.  
Mark Goodwin & Associates, PA  
P.O. Box 90606  
Albuquerque, NM 87199

Re: <sup>Trail</sup> Mountain Ridge Subdivision, Lots 22-30 Block 11 Tract 1 Unit 3 North  
Albuquerque Acres, SIA/Financial Guarantee Release  
Engineer's Stamp dated 10-01-04 (B19-D24)  
Certification dated 11-09-05

P.O. Box 1293

Dear Mr. Krenik,

Albuquerque

Based upon the information provided in your submittal received 11-08-05, the above referenced certification is approved for release of SIA and Financial Guarantee.

If you have any questions, you can contact me at 924-3981.

New Mexico 87103

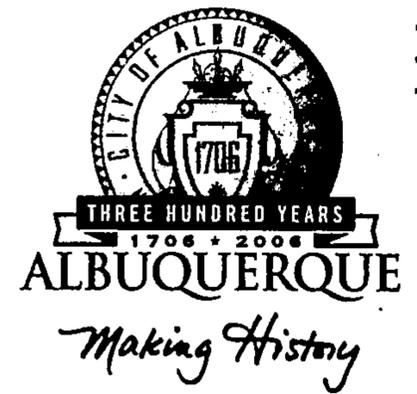
[www.cabq.gov](http://www.cabq.gov)

Sincerely,

Kristal D. Metro, P.E.  
Senior Engineer, Planning Dept.  
Development and Building Services

C: Marilyn Maldonado, COA# 745981  
file

# CITY OF ALBUQUERQUE



December 23, 2004

Gregory J. Krenik, PE  
Mark Goodwin & Associates  
P.O. 90606  
Albuquerque, NM 87199

**Re: Mountain Ridge Subdivision Revised Grading Plan  
Engineer's Stamp dated 10-1-04 (B19/D24)**

Dear Mr. Krenik,

Based upon the information provided in your submittals dated 11-10-04, the above referenced plan is approved as amended. This is now the plan that must be certified for release of SIA and Financial Guarantee

P.O. Box 1293

If you have any questions, you can contact me at 924-3986.

Albuquerque

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)

Sincerely,

Bradley L. Bingham, PE  
Principal Engineer, Planning Dept  
Development and Building Services

C: file