

DRAINAGE REPORT
for
MOUNTAIN RIDGE SUBDIVISION
Off-Site Drainage Basin

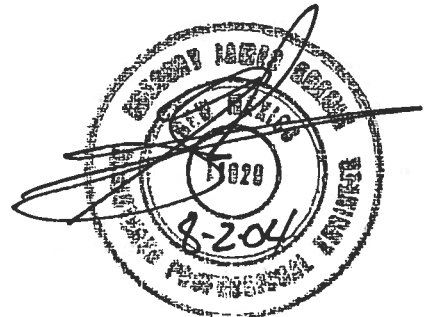
Prepared for

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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 STORM DRAIN AT THIS LOCATION WILL PICK UP THIS FLOW AND DIVERT IT TO THE STORM DRAIN IN GLENDALE. THE CONSTRUCTION PLANS PREPARED BY MARK GOODWIN & ASSOC. FOR THE DESERT RIDGE TRAILS EAST SUBDIVISION, COA PROJECT NO. 675484, SHOW THIS FUTURE STORM DRAIN. 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 "A"	3.18%
0.36 AC	TYPE "C"	1.57%
21.8402 AC	TYPE "A"	95.25%

FROM AHYMO 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 ARROYO.



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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SUBJECT DRAINAGE 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 DBL "D" BUT SINCE MOUNTAIN RIDGE IS SO CLOSE TO CONSTRUCTION AND THE LARGE GLENDALE STODMMAIN IS NOW UNDER CONSTRUCTION AND THE CONTRACTOR IS THE SAME FOR BOTH PROJECTS THE INLETS WILL GO IN AS DBL "A". THE THREE INLETS ON THE SOUTH SIDE OF GLENDALE WILL GO IN AS DBL "D" PER PLAN.