

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 15, 2002

Amy Driscoll
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, New Mexico 87199

**RE: Grading and Drainage Plan For Rastra Building (B13-D20) Dated
January 14, 2002**

Dear Mrs. Driscoll:

The above referenced drainage plan received January 14, 2002 is approved for building permit. Prior to the release of the certificate of occupancy the engineer needs to certify the project per the DPM.

If you have any questions please call me at 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

C: Lynn Mazur, AMAFCA



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

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

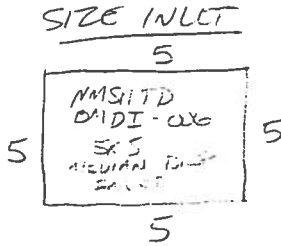
PROJECT RATON CURB

SUBJECT ANAL

BY _____ DATE 12/22/11

CHECKED BIZ/DZO DATE _____

SHEET 6 OF _____



$$Q = 49.7 \text{ cfs}$$

ASPHALT 8" CURB + 0.0625 TO LIP OF CURB
 $= 0.667 + 0.0625 = 0.7295 \text{ FT}$
 (CURB WILL BE INSTALLED LATER)

$$L = 5 + 5 + 5 + 5 = 20 \text{ FT}$$

$$Q = 2.95 L H^{1.5}$$

$$H = \left(\frac{Q}{2.95L} \right)^{2/3} = \left(\frac{49.7}{2.95(20)} \right)^{2/3} = 0.89$$

Subsidiary's highest control = 71.00

$$T_0 = \frac{90.00}{1.00} > 0.89$$

SUFFICIENT CATCHING

CLOSING



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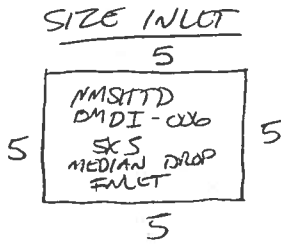
PROJECT RASTRA BLDG

SUBJECT AMU

BY _____ DATE 12/22/01

CHECKED _____ DATE 1/14/02

SHEET 6 OF _____



$$Q = 49.9 \text{ cfs}$$

ASSUME 8" CURB + 0.0625 TD UP OF CURB
= 0.667 + 0.0625 = 0.7295 FT
(CURB WILL BE INSTALLED LATER)

$$L = 5 + 5 + 5 + 5 = 20 \text{ FT}$$

$$Q = 2.95 L H^{1.5}$$

$$H = \left(\frac{Q}{2.95L} \right)^{2/3} = \left(\frac{49.9}{2.95(20)} \right)^{2/3} = 0.89$$

SUBORDINATING HIGHEST CONTOUR = 91.00

$$T_c = \frac{92.00}{1.00} > 0.89'$$

SUFFICIENT CAPACITY

1/14/02

INLET ACCOITS $Q = 49.9 \text{ cfs}$

HOW MUCH Q CAN GO IN IF UP TO $H = 1'$ INSTEAD OF $H = 0.89'$?

$$Q = 2.95(20) 1^{1.5} = 590 \text{ cfs}$$

$$1 - \frac{59.0}{49.9} = 18\% \text{ CAPACITY FOR CLOSING}$$

