

DRAINAGE PLAN **LOTS 138, 139 & 140, BLOCK 12** **ARMINO BROTHERS ADDITION** **ALBUQUERQUE, NEW MEXICO**

ZONE MAP J-14 BENCH MARK 17-J14 ELEV. 4954.83
 FLOOD MAP 028 SOIL TYPE "B"
 TOTAL AREA: 10,650 S.F. OR 0.2445 ACRES
 FILE NO. J14/ APPROVED _____

HYDROLOGY

EXISTING: 100YR-6 HR RAINFALL = 2.2 1-2.2 X 2.3 = 5.06
 LAWN 2116 X 0.25 = 529
 ROOF 1943 X 0.90 = 1749
 NATURAL GROUND 6591 X 0.40 = 2636
 10,650 4914

C = 0.46 0-0.46 X 5.06 X 0.2445 = 0.57 CFS
 CN = 58 DIRECT RUNOFF = 0.15"
 V = 0.15/12 X 10,650 = 133 CF

DUE TO EXISTING NON-UNIFORM GRADING, SOME OF THE STORM WATER GOES TO THE ALLEY, SOME TO ROMA AVE. & SOME REMAINS ON SITE.

PROPOSED: **D.A. NO. 1**

LAWN 357 X 0.25 = 89
 ROOF 390 X 0.90 = 351
 PAVING 4432 X 0.95 = 4216
 5189 4656

C = 0.46 0-0.46 X 5.06 X 0.2445 = 0.57 CFS
 CN = 58 DIRECT RUNOFF = 0.15"
 V = 0.15/12 X 5189 = 605 CF TO ALLEY

D.A. NO. 2

LANDSCAPE 210 X 0.25 = 53
 PAVING 910 X 0.95 = 865
 1120 918

C = 0.82 0-0.82 X 5.06 X 0.026 = 0.11 CFS TO ROMA
 CN = 86 DIRECT RUNOFF = 1.0"
 V = 1.0/12 X 1120 = 93 CF TO ROMA

D.A. NO. 3

LAWN 220 X 0.25 = 55
 ROOF 390 X 0.90 = 351
 610 406

C = 0.66 0-0.66 X 5.06 X 0.04 = 0.05 CFS
 CN = 65 DIRECT RUNOFF = 0.3"
 V = 0.3/12 X 610 = 15 CF

DEPTH PONDED ON LAWN = 15/220 = 0.07 FT.

D.A. NO. 4

LAWN 2574 X 0.25 = 644
 ROOF 1553 X 0.90 = 1398
 4127 2042

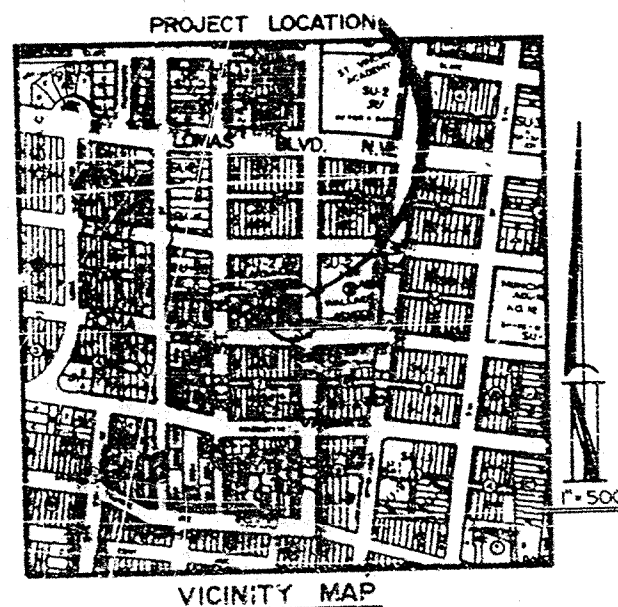
C = 0.50 0-0.50 X 5.06 X 0.095 = 0.24 CFS
 CN = 58 DIRECT RUNOFF = 0.15"
 V = 0.15/12 X 4127 = 52 CF

DEPTH PONDED ON LAWN = 52/2574 = 0.02 FT.

EROSION CONTROL NOTES:

THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE TO THE FOLLOWING:

1. NO SEDIMENT BEARING WATER SHALL BE ALLOWED TO DISCHARGE THE SITE DURING CONSTRUCTION.
2. DURING GRADING OPERATIONS AND UNTIL THE PROJECT HAS BEEN COMPLETED ALL ADJACENT PROPERTY, RIGHTS OF WAY, AND EASEMENTS, SHALL BE PROTECTED FROM FLOODING.
3. ANY AND ALL SEDIMENTATION ORIGINATING ON THE SITE WHICH IS DEPOSITED WITHIN PUBLIC RIGHT OF WAY SHALL BE PROPERLY REMOVED BY THE CONTRACTOR.
4. CONTROL OF SEDIMENT LIVEN WATERS WILL BE ACCOMPLISHED BY THE USE OF A CONSTRUCTED VAULTS BORN AT LEAST 12" HIGH. THE BORN SHALL BE LOCATED ALONG THE DOWNSTREAM PERIMETERS OF THE PROPERTY.



LOAN/GROSS & ASSOCIATES, INC. CONSULTING CIVIL ENGINEERS 1001 14TH STREET, N.W. ALBUQUERQUE, N.M. 87102	
DRAINAGE PLAN FOR: ROMANO CARLENO AT: 701 ROMA AVE., N.W. ALBUQUERQUE, N.M.	PREPARED BY: [Signature] CHECKED BY: [Signature] DATE: NOV 05 1987 SHEET: 1 OF 1