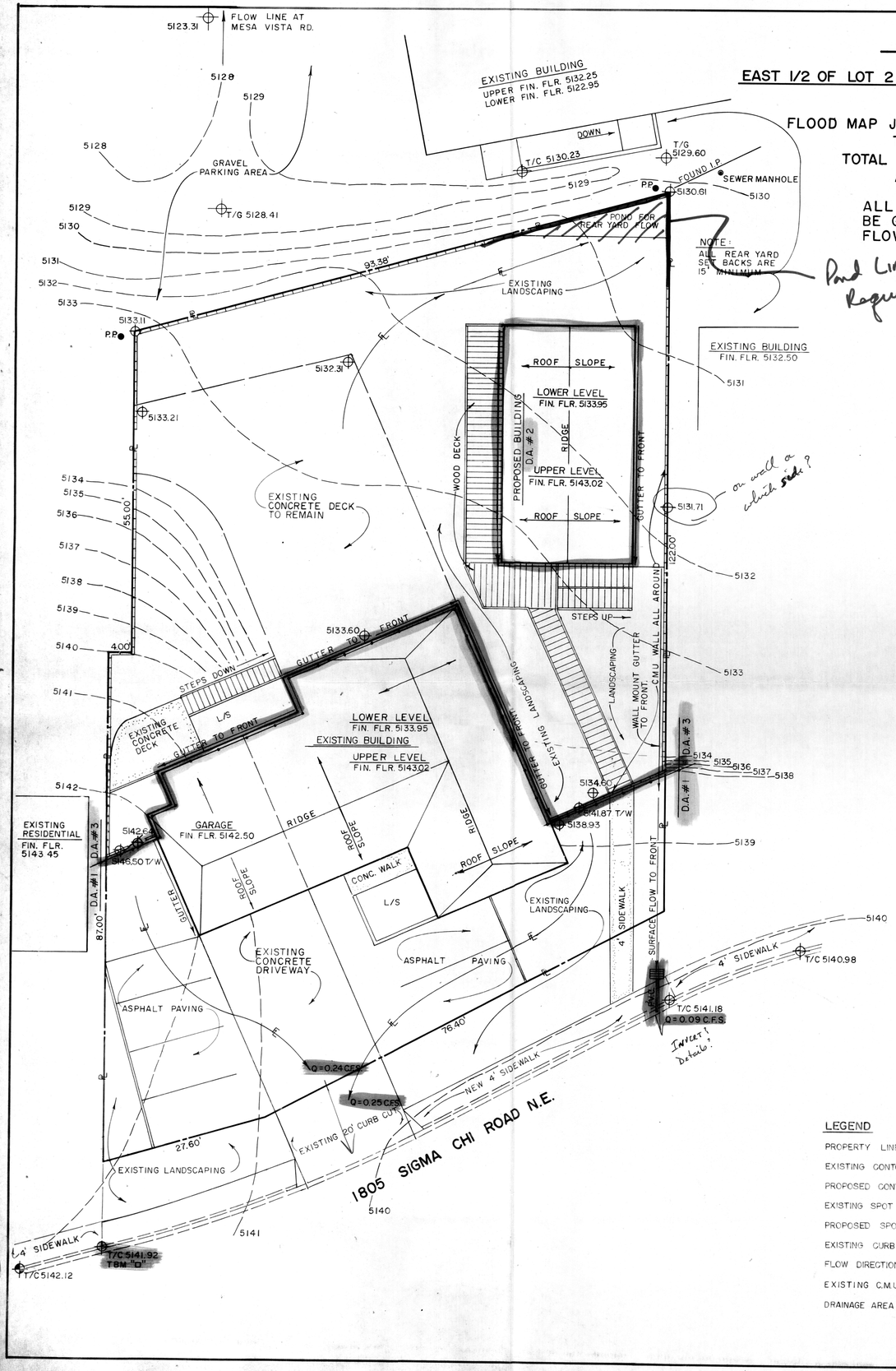
# CONCEPTUAL
# DRAINAGE PLAN

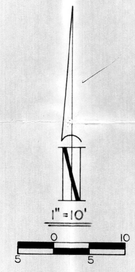
## EAST 1/2 OF LOT 2 AND ALL OF LOT 3, BLOCK 2, SIGMA CHI ADDITION

## ALBUQUERQUE, NEW MEXICO

FLOOD MAP J-29 BENCHMARK 4-J16 ELEV. 5121.10 SOIL TYPE "A"
TOTAL AREA 12,420 SQ. FT. = 0.28 ACRES
TOTAL AREA ROOFED OR PAVED: 4,360 SQ. FT. = 35%
APPROVED _____ FILE # J15 / D30

ALL ROOF FLOW, EXISTING & PROPOSED, WILL BE GUTTERED TO FRONT YARD. REAR YARD FLOW - 0.14 = 160 CU. FT. STORAGE REQUIRED




## HYDROLOGY

DRAINAGE AREA #1 EXISTING: 1000 S.F. EXISTING ROOF - PLUS ALL AREAS SOUTH OF EXISTING BLOCK WALLS = 4000 S.F. = 0.092 ACRES AND

| | | |
|---|---|---|
| C = 0.90 x | 1000 | = 900 |
| 0.95 x | 800 | = 760 |
| 0.25 x | 2200 | = 550 |
| | 4000 | 2210 |

AND C = 0.55

DRAINAGE AREA #1 PROPOSED: EXISTING RESIDENCE PLUS ALL AREAS SOUTH OF EXISTING BLOCK WALLS = 5280 S.F. = 0.121 ACRES AND

| | | |
|---|---|---|
| C = 0.90 x | 2300 | = 2070 |
| 0.95 x | 2200 | = 2090 |
| 0.25 x | 780 | = 195 |
| | 5280 | 4355 |

C = 4355 / 5280 = 0.83

DRAINAGE AREA #2: PROPOSED BUILDING ROOF AREA ONLY = 880 S.F. = 0.020 ACRES AND C = 0.90

DRAINAGE AREA #3 EXISTING: 1300 S.F. EXISTING ROOF PLUS ALL AREA NORTH OF EXISTING BLOCK WALLS = 8440 S.F. = 0.194 ACRES AND

| | | |
|---|---|---|
| C = 0.90 x | 1300 | = 1170 |
| 0.95 x | 1500 | = 1425 |
| 0.25 x | 5640 | = 1410 |
| | 8440 | 4005 |

C = 0.47

DRAINAGE AREA #3 PROPOSED: ALL AREAS NORTH OF EXISTING BLOCK WALLS EXCEPT PROPOSED BUILDING = 6260 S.F. = 0.144 ACRES AND

| | | |
|---|---|---|
| C = 0.95 x | 1500 | = 1425 |
| 0.25 x | 4760 | = 1190 |
| | 6260 | 2615 |

C = 2615 / 6260 = 0.42 — I

EXISTING CONDITIONS: D.A. #1E = 0.55 x (2.25 x 2.15) x 0.092 = 0.24 C.F.S. TO STREET
D.A. #3E = 0.47 x 4.84 x 0.194 = 0.44 C.F.S. REMAINS IN REAR YARD

PROPOSED CONDITIONS: D.A. #1P = 0.83 x 4.84 x 0.121 = 0.49 C.F.S. TO STREET
D.A. #2P = 0.90 x 4.84 x 0.020 = 0.09 C.F.S. TO STREET
D.A. #3P = 0.42 x 4.84 x 0.144 = 0.29 C.F.S. REMAINS IN REAR YARD
PER CN 65, VOLUME REQUIRED = 0.30" x 6275 S.F. = 160 CU. FT.
TOTAL Q TO STREET = 0.58 C.F.S. PROPOSED

$T_C$ = 10 min
I = 4.84

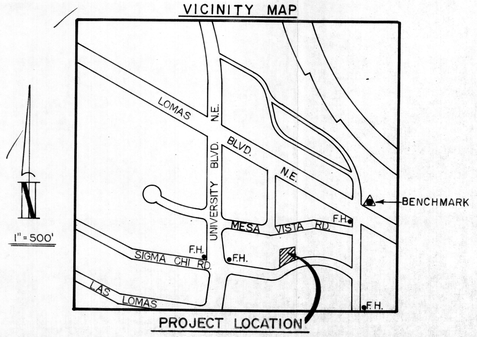
## EROSION CONTROL NOTES

THE CONTRACTOR SHALL 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 PROMPTLY AND COMPLETELY REMOVED BY THE CONTRACTOR.
4. CONTROL OF SEDIMENT-LADEN FLOOD WATERS WILL BE ACCOMPLISHED BY THE USE OF A COMPACTED EARTH BERM AT LEAST 12" HIGH. BERM SHALL BE LOCATED ALONG THE DOWNSTREAM PERIMETERS OF THE PROPERTY.

## LEGEND

PROPERTY LINE
EXISTING CONTOURS 4920
PROPOSED CONTOURS 4912
EXISTING SPOT ELEVATION
PROPOSED SPOT ELEVATION
EXISTING CURB
FLOW DIRECTION
EXISTING C.M.U. WALL
DRAINAGE AREA BOUNDARY

## VICINITY MAP




PROJECT LOCATION
ZONE MAP J-15

RECEIVED
OCT 10 1986
HYDROLOGY SECTION

LOUIS C. LOGAN 4198 REGISTERED PROFESSIONAL ENGINEER
10/10/86

LOGAN/GROSS & ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
925 6TH ST. N.W. SUITE 3 243-6353
ALBUQUERQUE, NEW MEXICO 87102

| | |
|---|---|
| CONCEPTUAL DRAINAGE PLAN | FILE # H-106 |
| FOR: PHILLIP BAIAMONTE | DATE AUG. 1986 |
| AT: 1805 SIGMA CHI N.E. | DRAWN CLL/CLB |
| ALBUQUERQUE, NM | SHEET 1 OF 1 |