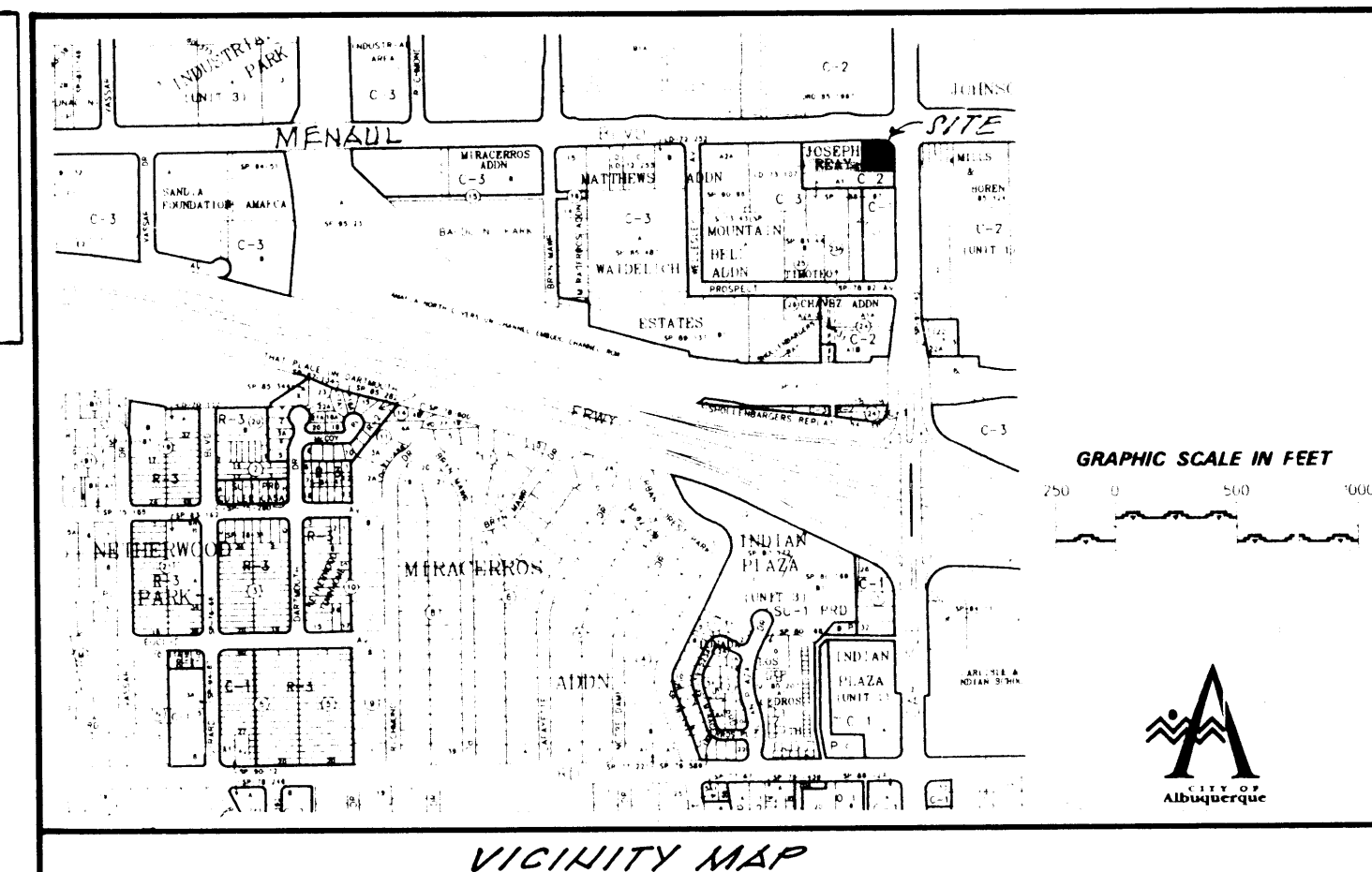
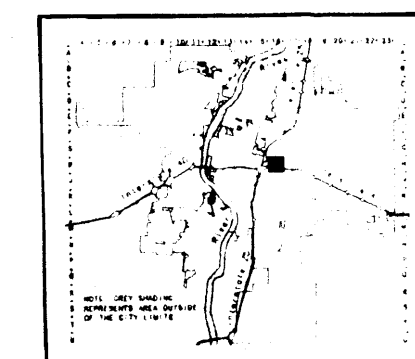
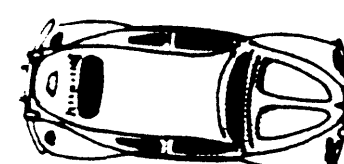


* NOTE:
LAYOUT OF THE PROPOSED BUILDING
IMPROVEMENTS, PROPOSED CURB CUTS
WITH RADIUS AND HAND-CAP RAMPS
ARE TO BE PER ARCHITECT'S SITE PLAN
WITH FINAL APPROVED DIMENSIONS.

MENAU BLVD. N.E.



H-16-Z

PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40, and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40, and East of the East boundary of Range 4 East, South of Interstate 40

FIGURE A-1

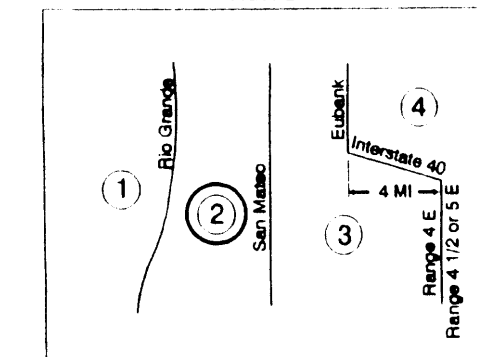


TABLE A-4. LAND TREATMENTS

Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundwater and infiltration capacity. Croplands. Unirrigated arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil compacted by human activity. Minimal vegetation. Unirrigated parking roads, trails. Most vacant lots. Gravel or rock on plastic (asphalt) underlayment. Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

Where a watershed extends across a zone boundary, use the zone which contains the largest portion of the watershed.

DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF CARLISLE BLVD. N.E. AND MENAU BLVD. N.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

THE SUBJECT SITE IS PRESENTLY A VACANT DEVELOPED SERVICE STATION SITE, THE PROPOSED PLAN IS TO CONSTRUCT A NEW MINI-MART BUILDING WITH ASSOCIATED IMPROVEMENTS FOR SAID SITE. THE SUBJECT SITE, 1.) DOES NOT CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES, 2.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 3.) IS NOT LOCATED ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, 4.) DOES NOT LIE WITHIN A DESIGNATED FLOODPLAIN (RE: F.E.M.A. PANEL 23 OF 50).

CALCULATIONS:

SITE AREA: 0.38 ACRE
PRECIPITATION ZONE: TWO (2)
PEAK INTENSITY: IN./HR. AT T = 12 MINUTES, 100-YR. = 5.05
"LAND TREATMENT METHOD" FOR CALCULATION OF "Q"
EXISTING CONDITIONS: (DEVELOPED)

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.01	X 3.14	= 0.03
D	0.37	X 4.70	= 1.74

"Q" = 1.77 CFS

PROPOSED DEVELOPED CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.09	X 3.14	= 0.28
D	0.29	X 4.70	= 1.35

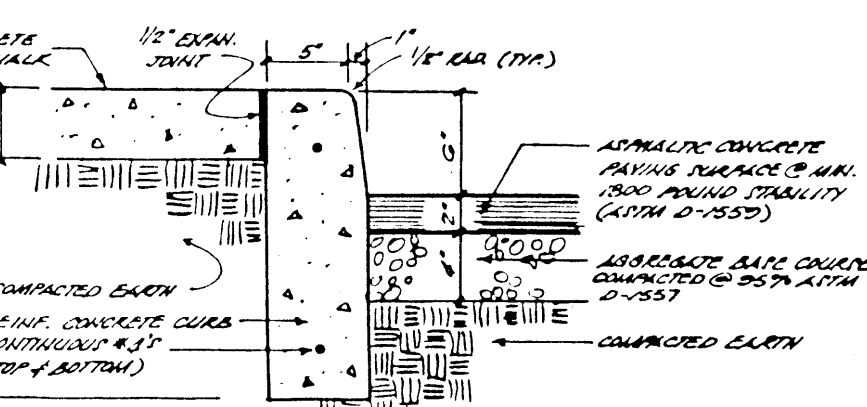
"Q" = 1.64 CFS

***DECREASE = 0.13 CFS

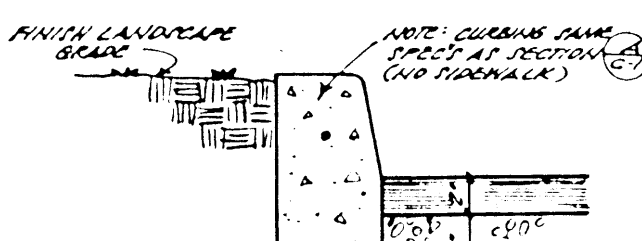
EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

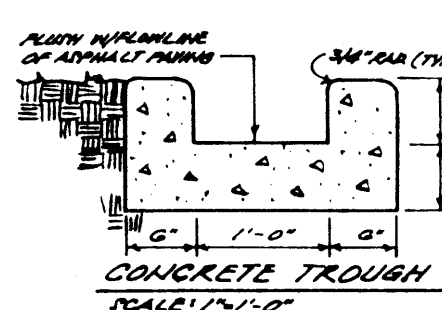
- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.



(A) CURB CUT AT CONCRETE WALK



(B) TYPICAL CURB



CONCRETE TROUGH

LEGAL DESCRIPTION:

PARCEL "B-1" OF JOSEPH REAY TRACT, ALBUQUERQUE, NEW MEXICO, AS SHOWN ON PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON JULY 26, 1988, (BK. C37, FOLIO 16).

BENCH MARK REFERENCE:

ACS STATION NO. "11-H17", LOCATED AT THE SOUTHEAST CORNER OF MENAU BLVD. N.E. AND CARLISLE BLVD. N.E., IN THE CITY OF ALBUQUERQUE, NEW MEXICO; M.S.L. ELEVATION = 5140.36, (PROJECT T.B.M. AS SHOWN ON THE MAP HEREON).

GENERAL NOTES:

- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT PROPERTY.
- NO BOUNDARY CORNERS HAVE BEEN SET PER THIS SURVEY OF THE SUBJECT PROPERTY.

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE AT 260-1500 FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

LEGEND:

EXISTING CONTOUR = 37
EXISTING SPOT ELEVATION = 40.2
PROPOSED CONTOUR = 39.0
PROPOSED SPOT ELEVATION = 39.50
TOP OF CURB ELEVATION = 40.50
CURB FLOWLINE ELEVATION = 39.25

02-17-97

Luis Valdez

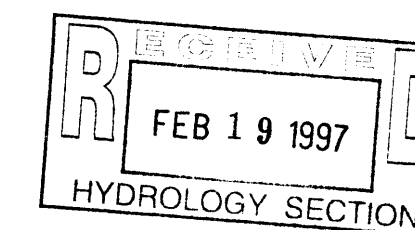
08-30-96

ENGINEER'S SEAL

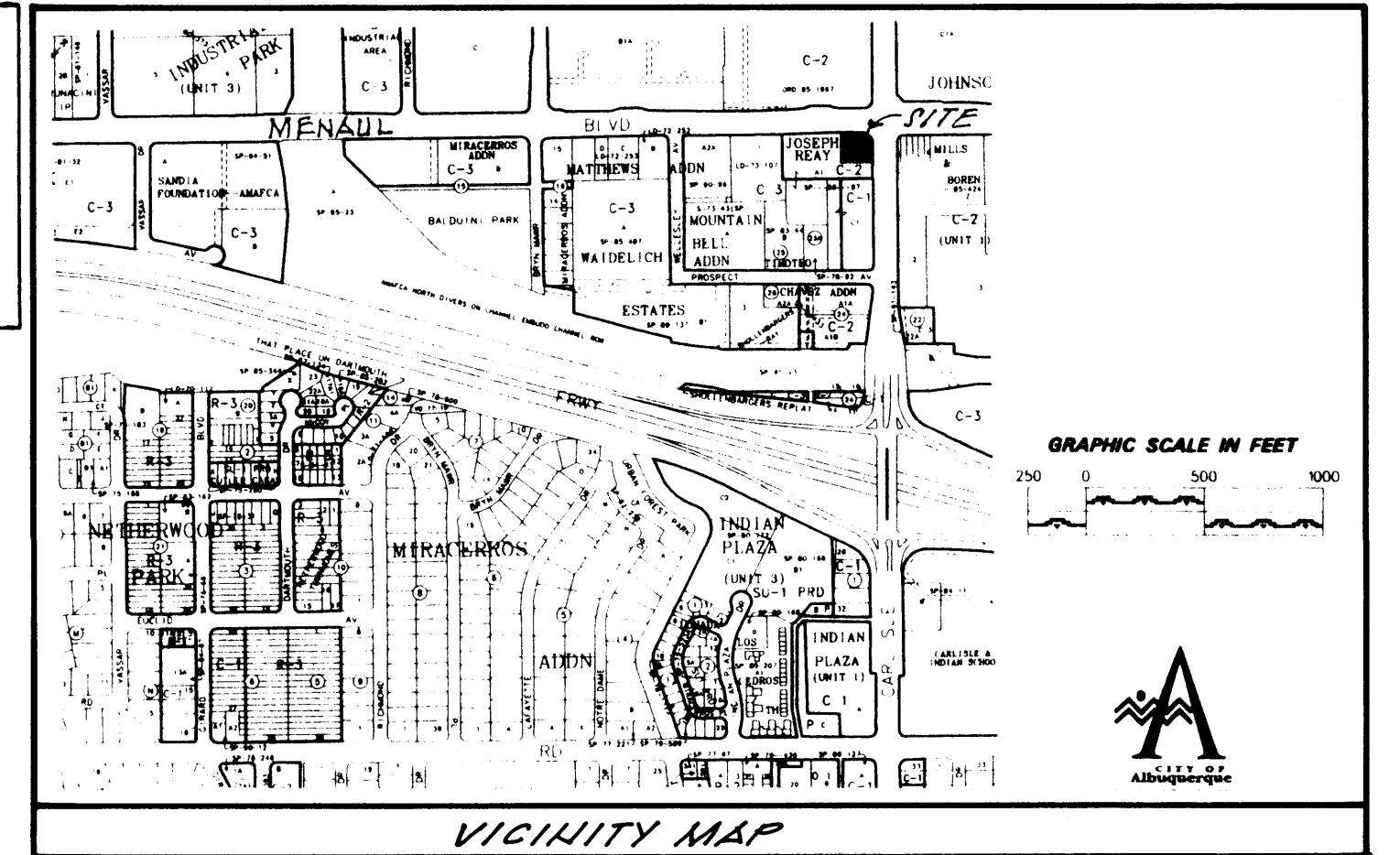
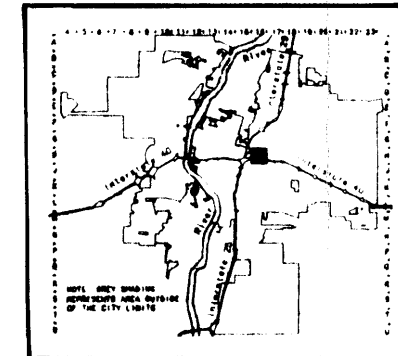
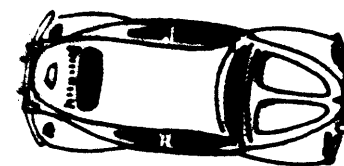
(REVISION OF)
A DRAINAGE PLAN
OF

PARCEL "B-1"
JOSEPH REAY TRACT
ALBUQUERQUE, NEW MEXICO

AUGUST, 1996
(FEBRUARY, 1997)



MENAU BLVD. N.E.



H-16-Z

A-1 PRECIPITATION ZONES

Bernillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

TABLE A-1. PRECIPITATION ZONES	
Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
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FIGURE A-1

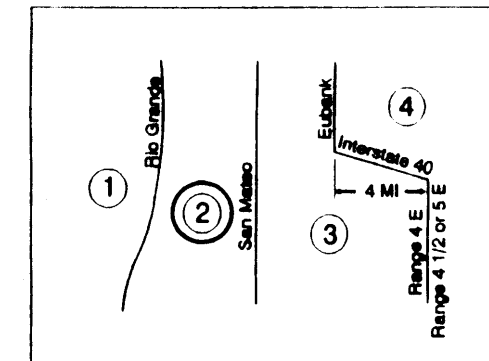


TABLE A-4. LAND TREATMENTS

Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grazing, groundcover and infiltration capacity. Croplands. Unimproved arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
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D	Impervious areas, pavement and roofs.

Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective subareas. In lieu of specific measurement for treatment D, the area percentages in TABLE A-5 may be employed.

DRAINAGE COMMENTS AND CALCULATIONS:

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CALCULATIONS:

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PEAK INTENSITY: IN./HR. AT T = 12 MINUTES, 100-YR. = 5.05
"LAND TREATMENT METHOD" FOR CALCULATION OF "Q"
EXISTING CONDITIONS: (DEVELOPED)

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.01	X	3.14 = 0.03
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PROPOSED DEVELOPED CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.09	X	3.14 = 0.28
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"Q" = 1.64 CFS

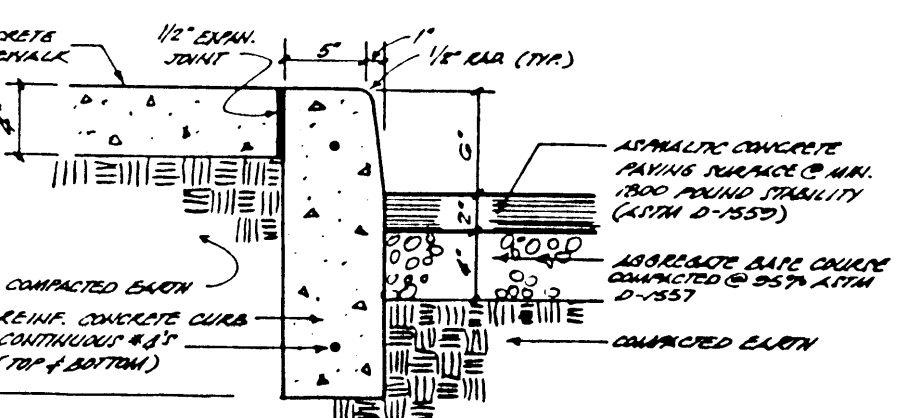
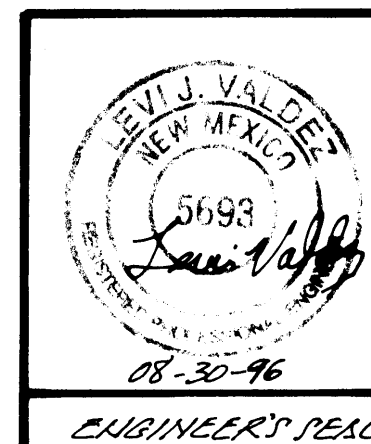
***DECREASE = 0.13 CFS

EROSION CONTROL MEASURES:

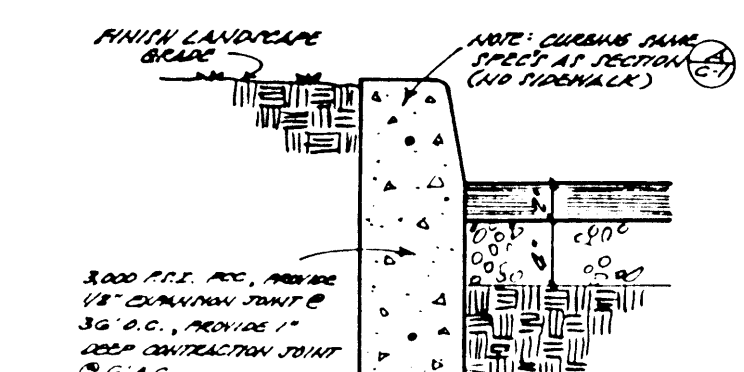
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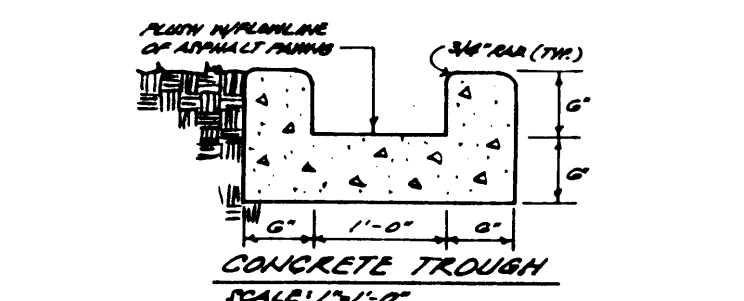
A DRAINAGE PLAN
OF
PARCEL "B-1"
JOSEPH REAY TRACT
ALBUQUERQUE, NEW MEXICO
AUGUST, 1996



A CURB AT CONCRETE WALK



B TYPICAL CURB



C CONCRETE TROUGH

LEGAL DESCRIPTION:

PARCEL "B-1" OF JOSEPH REAY TRACT, ALBUQUERQUE, NEW MEXICO, AS SHOWN ON PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON JULY 26, 1988, (BK. C37, FOLIO 16).

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LEGEND:

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EXISTING SPOT ELEVATION = 40.2
PROPOSED CONTOUR = 39.0
PROPOSED SPOT ELEVATION = 39.52
TOP OF CURB ELEVATION = 40.54
CURB FLOWLINE ELEVATION = 39.95