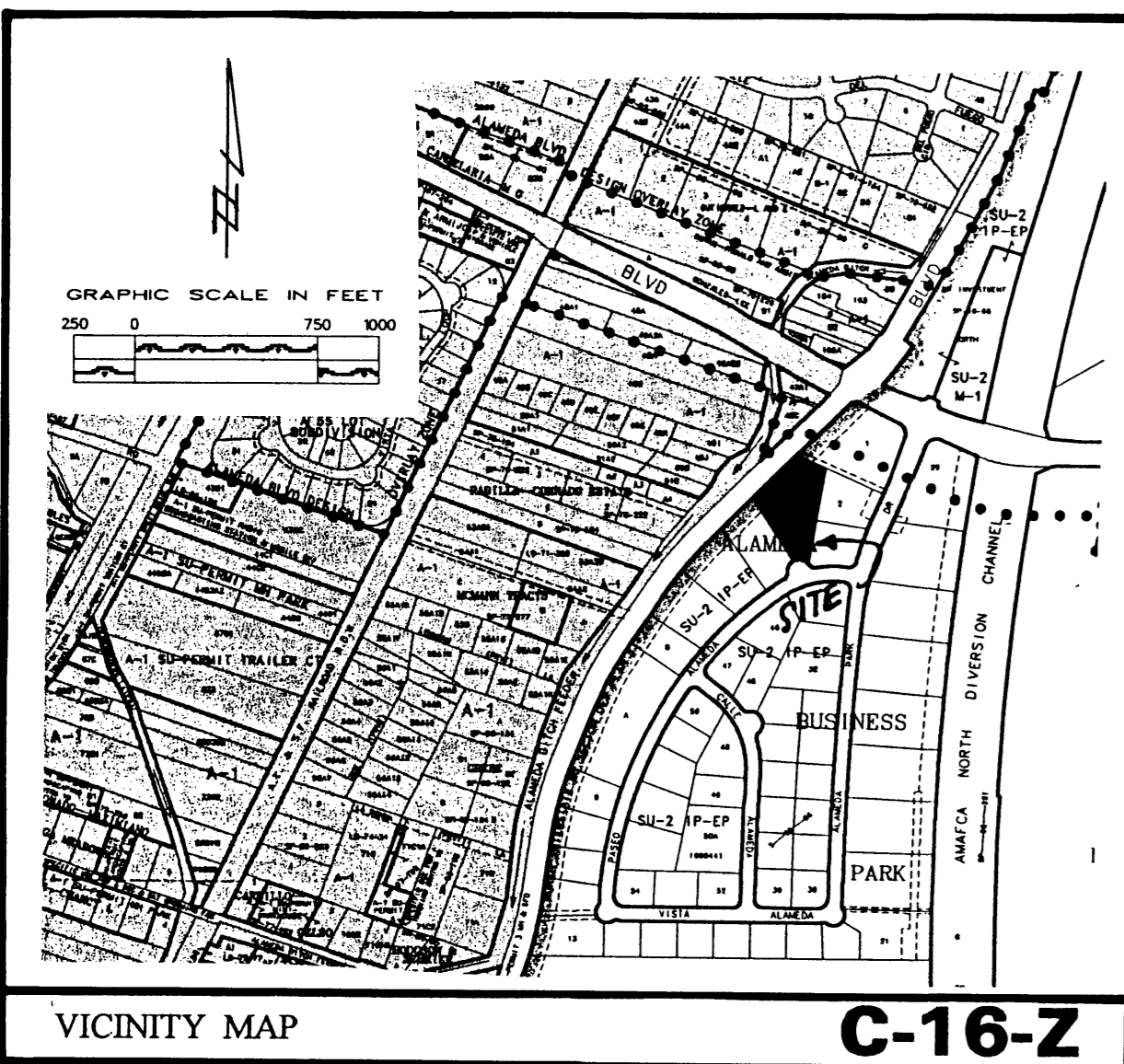


## EDITH BLVD. N.E.



## GENERAL NOTES:

- 1) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON.

## EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION; HE SHALL ENSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- 1) 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 SUBJECT SITE AND ENTERING ADJACENT PROPERTIES.
- 2) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SUBJECT SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREET RIGHT-OF-WAYS.
- 3) THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT FROM PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SUBJECT SITE AND DEPOSITED THEREON.

## CONSTRUCTION NOTES:

- 1) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OF SUB-SURFACE UTILITIES.
- 2) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) 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.
- 3) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4) ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

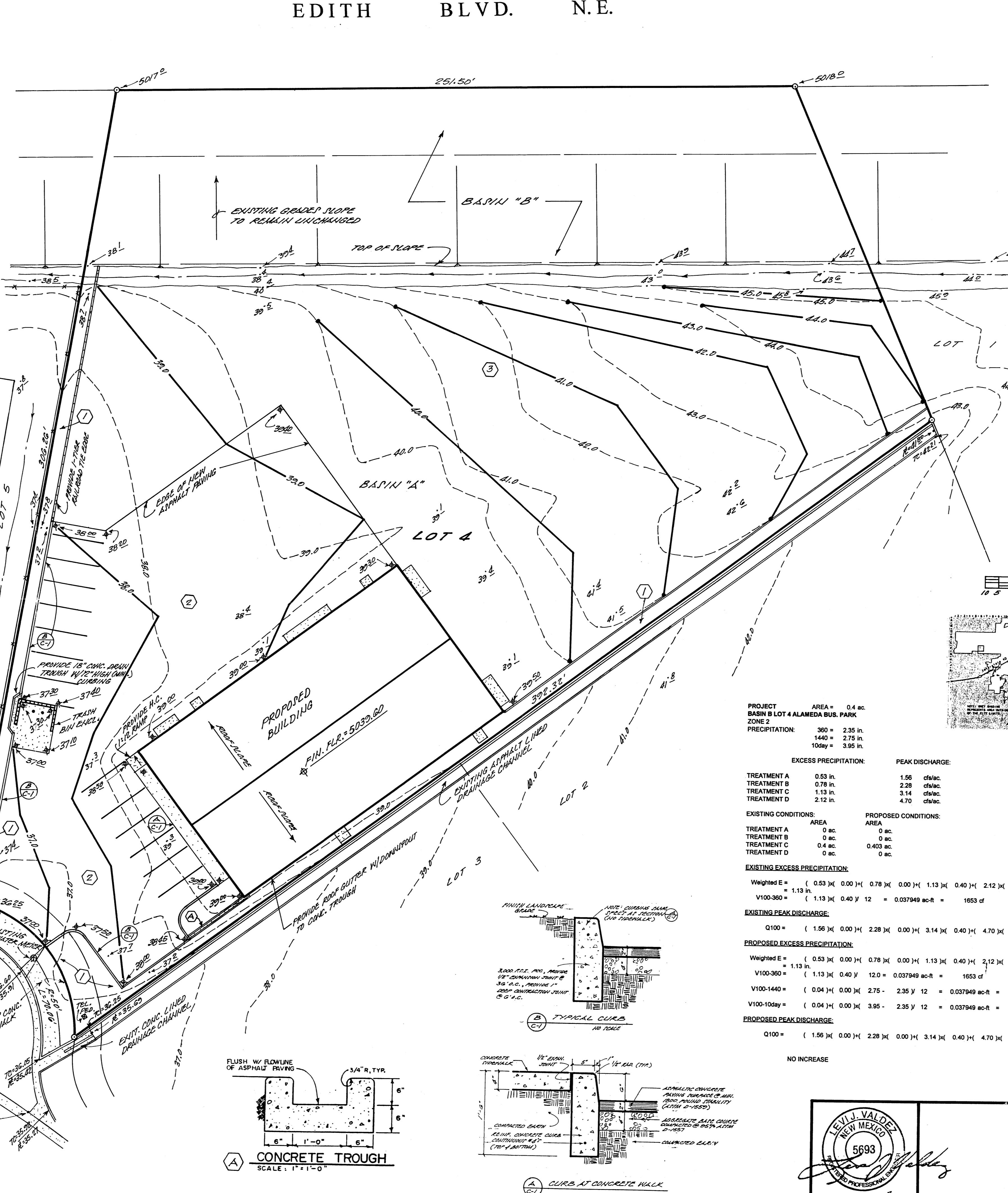
## LEGEND:

TOP OF CURB ELEVATION =  $70' = 36.10$   
CURB FLOWLINE ELEVATION =  $72' = 35.41$   
EXISTING SPOT ELEVATION =  $36.0$   
EXISTING CONTOUR ELEVATION =  $36.0$   
PROPOSED SPOT ELEVATION =  $36.0$   
PROPOSED CONTOUR ELEVATION =  $36.0$   
PROPOSED OR EXISTING CONCRETE SURFACE =   
EXISTING FENCE LINE =

- 1) Proposed Landscaped Area(s)
- 2) Proposed New Asphalt Paved Area
- 3) Proposed Graveled Area

8633 PASEO ALAMEDA N.E.

PROJECT T.S.M.  
(ARJUN CAP)  
BLK# = 5035.01



PROJECT AREA = 0.4 ac.  
BASIN B LOT 4 ALAMEDA BUS. PARK  
ZONE 2  
PRECIPITATION: 360 = 2.35 in.  
1440 = 2.75 in.  
10day = 3.95 in.

## EXCESS PRECIPITATION:

TREATMENT A 0.53 in.  
TREATMENT B 0.78 in.  
TREATMENT C 1.13 in.  
TREATMENT D 2.12 in.

EXISTING CONDITIONS:  
TREATMENT A 0 ac.  
TREATMENT B 0 ac.  
TREATMENT C 0.4 ac.  
TREATMENT D 0 ac.

## PROPOSED EXCESS PRECIPITATION:

Weighted E = ( 0.53 in. 0.00 in. 0.78 in. 0.00 in. 1.13 in. 0.40 in. 2.12 in. 0.00 in. ) 0.40  
V100-360 = ( 1.13 in. 0.40 in. 12 = 0.037949 ac-ft = 1653 cf

## EXISTING PEAK DISCHARGE:

Q100 = ( 1.56 in. 0.00 in. 2.28 in. 0.00 in. 3.14 in. 0.40 in. 4.70 in. 0.00 in. ) 1.27

## PROPOSED PEAK DISCHARGE:

Weighted E = ( 0.53 in. 0.00 in. 0.78 in. 0.00 in. 1.13 in. 0.40 in. 2.12 in. 0.00 in. ) 0.40  
V100-360 = ( 1.13 in. 0.40 in. 12.0 = 0.037949 ac-ft = 1653 cf

V100-1440 = ( 0.04 in. 0.00 in. 2.75 - 2.35 in. 12 = 0.037949 ac-ft = 1653 cf

V100-10day = ( 0.04 in. 0.00 in. 3.95 - 2.35 in. 12 = 0.037949 ac-ft = 1653 cf

## PROPOSED PEAK DISCHARGE:

Q100 = ( 1.56 in. 0.00 in. 2.28 in. 0.00 in. 3.14 in. 0.40 in. 4.70 in. 0.00 in. ) 1.27

NO INCREASE

PROJECT AREA = 1.36 ac.  
BASIN A LOT 4 ALAMEDA BUS. PARK  
ZONE 2  
PRECIPITATION: 360 = 2.35 in.  
1440 = 2.75 in.  
10day = 3.95 in.

## EXCESS PRECIPITATION:

TREATMENT A 0.53 in.  
TREATMENT B 0.78 in.  
TREATMENT C 1.13 in.  
TREATMENT D 2.12 in.

EXISTING CONDITIONS:  
TREATMENT A 0 ac.  
TREATMENT B 0 ac.  
TREATMENT C 1.36 ac.  
TREATMENT D 0 ac.

## PROPOSED EXCESS PRECIPITATION:

Weighted E = ( 0.53 in. 0.00 in. 0.78 in. 0.00 in. 1.13 in. 1.36 in. 2.12 in. 0.00 in. ) 1.36  
V100-360 = ( 1.13 in. 1.36 in. 12 = 0.127690 ac-ft = 5582 cf

## EXISTING PEAK DISCHARGE:

Q100 = ( 1.3 in. 0.00 in. 2.28 in. 0.00 in. 3.14 in. 1.36 in. 4.70 in. 0.00 in. ) 4.26

## PROPOSED PEAK DISCHARGE:

Weighted E = ( 0.53 in. 0.00 in. 0.78 in. 0.00 in. 1.13 in. 0.98 in. 2.12 in. 0.38 in. ) 1.36  
V100-360 = ( 1.41 in. 1.36 in. 12.0 = 0.158793 ac-ft = 6917 cf

V100-1440 = ( 0.16 in. 0.38 in. 2.75 - 2.35 in. 12 = 0.171359 ac-ft = 7464 cf

V100-10day = ( 0.16 in. 0.38 in. 3.95 - 2.35 in. 12 = 0.209059 ac-ft = 9107 cf

## PROPOSED PEAK DISCHARGE:

Q100 = ( 1.56 in. 0.00 in. 2.28 in. 0.00 in. 3.14 in. 0.98 in. 4.70 in. 0.38 in. ) 4.85

INCREASE 4.85 CFS - 4.26 CFS = 0.59 CFS

## A.1 PRECIPITATION ZONES

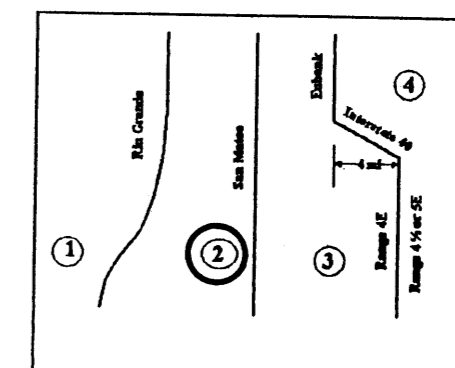
Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

## TABLE A-1. PRECIPITATION ZONES

ZONE	LOCATION
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
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

## TABLE A-10. PEAK INTENSITY (INCH PER 24 HOURS)

Zone	Intensity (2-YR, 10-YR)
1	4.70 (1.84, 3.14)
2	5.05 (2.04, 3.41)
3	5.38 (2.21, 3.65)
4	5.61 (2.34, 3.83)



## 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, groundcover and infiltration capacity. Croplands. Unlined 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 uncompacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). 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 clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

## TABLE A-9. PEAK DISCHARGE (cfs/acre)

Zone	Treatment	100-YR (2-YR, 10-YR)
1	A	0.29 (0.00, 0.24)
1	B	2.03 (0.33, 0.76)
1	C	2.87 (0.47, 1.49)
1	D	4.37 (1.69, 2.89)
2	A	1.56 (0.00, 0.38)
2	B	2.38 (0.08, 0.95)
2	C	3.14 (0.60, 1.71)
2	D	4.70 (1.86, 3.14)
3	A	1.87 (0.00, 0.58)
3	B	2.60 (0.21, 1.19)
3	C	3.45 (0.78, 2.009)
3	D	5.02 (2.04, 3.39)
4	A	2.20 (0.05, 0.87)
4	B	2.92 (0.38, 1.45)
4	C	3.73 (1.00, 2.26)
4	D	5.25 (2.17, 3.57)

## GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING LOT 4 ALAMEDA BUSINESS PARK (8633 PASEO ALAMEDA N.E.) ARE CONTAINED HEREON:

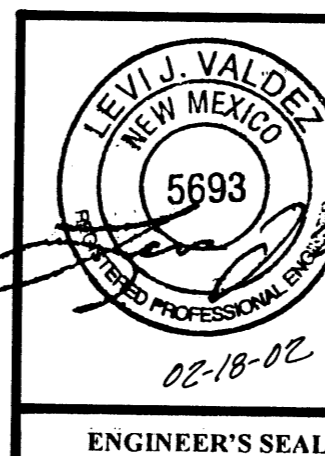
EXISTING CONDITIONS AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 1.7591 ACRES AND IS LOCATED SOUTHWEST OF THE INTERSECTION OF ALAMEDA PARK DR. N.E. AND PASEO ALAMEDA N.E. ON THE WEST SIDE OF PASEO ALAMEDA N.E. THE SITE HAS BEEN GRADED TO DRAIN FROM NORTHWEST TO SOUTHEAST INTO PASEO ALAMEDA N.E. ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL 0136D, DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

## PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF A 8160 SQ. FT. OFFICE/WAREHOUSE BUILDING ALONG WITH ASSOCIATED PAVED PARKING AND LANDSCAPED AREAS. A MASTER DRAINAGE PLAN PREPARED BY BOHANNAN HUSTON IN FEBRUARY OF 1999 AND APPROVED BY THE CITY HYDROLOGY DEPT. IS THE BASIS FOR THE DESIGN OF THIS LOT. ON-SITE DEVELOPED RUN-OFF WILL BE ROUTED THROUGH AND OUT THE PROPOSED DRIVEPAIL LOCATED ON PASEO ALAMEDA N.E. FROM THAT POINT THE RUN-OFF WILL TRAVEL SOUTHWESTERLY ALONG PASEO ALAMEDA AND INTO THE COMMON PONDING AREA (TRACT A) PROVIDED BY THE MASTER DRAINAGE PLAN. NO OFF-SITE FLOWS ENTER THE SITE FROM ANY DIRECTION. THE CALCULATIONS, WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRES AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

## DOWNSTREAM CAPACITY

PER THE APPROVED MASTER DRAINAGE PLAN FOR ALAMEDA BUSINESS PARK, FREE DISCHARGE IS ALLOWED BECAUSE OF THE COMMON DRAINAGE POND PROVIDED.



A PROPOSED GRADING AND DRAINAGE  
PLAN FOR OFFICE/WAREHOUSE  
8633 PASEO ALAMEDA N.E.  
ALBUQUERQUE, NEW MEXICO  
FEBRUARY, 2002