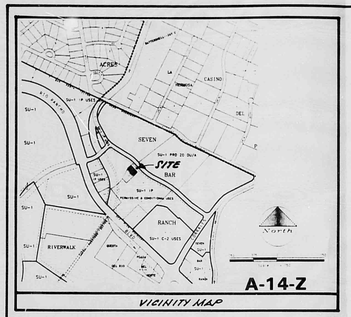
PUBLIC WORKS/HYDROLOGY

A14/D4A4

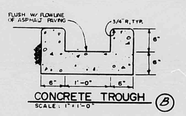


A-14-Z

VICINITY MAP

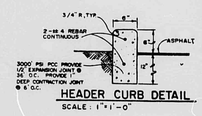
TYPICAL PAVEMENT SECTION

SCALE: 1" = 1'-0"



CONCRETE TROUGH (B)

SCALE: 1" = 1'-0"



HEADER CURB DETAIL (A)

SCALE: 1" = 1'-0"

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:

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 SITE AND ENTERING ADJACENT PROPERTIES.

2.) 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.

3.) THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

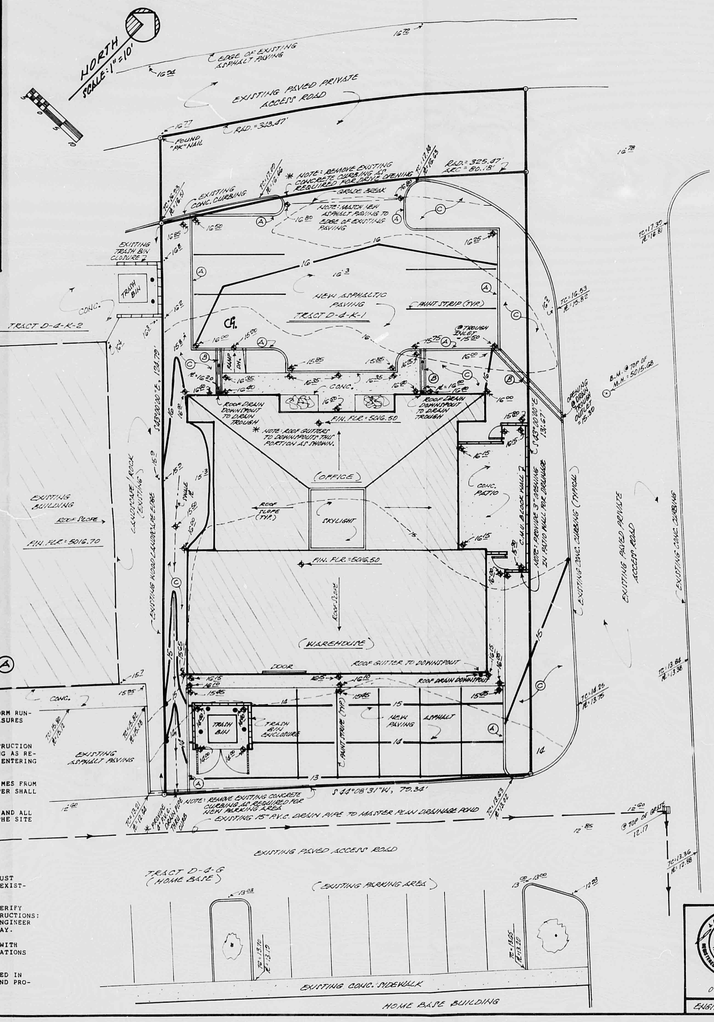
CONSTRUCTION NOTES:

1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.

2.) 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.

3.) 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.

4.) ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.



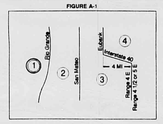
A.1 PRECIPITATION ZONES

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

FIGURE A-1



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

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 compacted 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.

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

DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE PLAN HEREON, THE SUBJECT SITE IS LOCATED ON THE EAST SIDE OF A PRIVATE ACCESS ROAD BETWEEN CALLE CUERVO N.W. AND RIO RANCHO BLVD. N.W. (STATE ROAD NO. 528), AND WEST OF COAYALEO ROAD N.W., ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (ZONE ATLAS NO. A-14-Z).

AS SHOWN ON F.E.M.A. PANEL 2 OF 50, THE SUBJECT SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD PLAIN.

THE SUBJECT SITE, 1.) DOES NOT CONTRIBUTE TO OFFSITE FLOWS OF ADJACENT PROPERTIES, 2.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 3.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE.

CALCULATIONS:

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DATED JANUARY, 1993.

SITE AREA: 10,292.43 SQ. FT. = 0.24 ACRE

PRECIPITATION ZONE: ONE (1)

PEAK INTENSITY: IN/HR. AT T_C = TWELVE (12) MINUTES, 100-YR. = 4.70

EXISTING CONDITIONS:

TREATMENT	AREA/ACRES		FACTOR		CFS
A	0.24	x	1.29	=	0.31

"Q_E" = 0.31 CFS

PROPOSED CONDITIONS:

TREATMENT	AREA/ACRES		FACTOR		CFS
C	0.05	x	2.87	=	0.14
D	0.19	x	4.37	=	0.83

"Q_P" = 0.97 CFS

****INCREASE = 0.66 CFS

LEGAL DESCRIPTION: TRACT "D-2-K-1", SEVEN BAR RANCH SUBDIVISION, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE: N.M.S.H.C. MONUMENT STATION "NM-448-N12", M.S.L.D. ELEVATION = 5023.41; PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON.

L E G E N D :

EXISTING CONTOUR = 52
EXISTING SPOT ELEVATION = + 12.85
PROPOSED CONTOUR = 52
PROPOSED SPOT ELEVATION = + 52.00
TOP OF CURB / FLOWLINE ELEVATION = TC = 12.53 FL = 15.85

(C) = LANDSCAPED AREA PER ARCHITECT PLAN

GENERAL NOTES:

1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED FOR THIS SURVEY OF THE SUBJECT PROPERTY.

2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT PROPERTY OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.

3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.

4.) TOPOGRAPHY SURVEY SHOWN ON THE PLAN HEREON WAS OBTAINED BY THE "TRANSIT-STADIA" METHOD.

A. GERARD MARTINEZ
NEW MEXICO
7875
REGISTERED PROFESSIONAL ENGINEER
07-19-94
ENGINEER'S SEAL

GRADING AND DRAINAGE PLAN
FOR
TRACT "D-2-K-1"
SEVEN BAR RANCH
ALBUQUERQUE, NEW MEXICO
JULY, 1994

RECEIVED
JUL 25 1994
HYDROLOGY DIV.

R# 22 DATE 3-13-00 OP

CITY OF ALBUQUERQUE

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DIRECTOR

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

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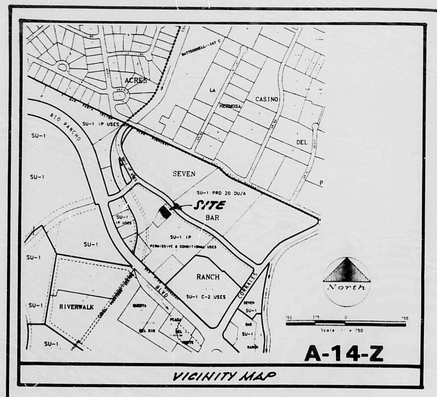
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/10/2000

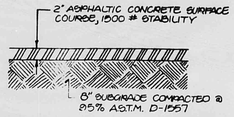
PLANS/PLATS ON FILE

FILE DESC: A14/D4A4

PLANS/PLATS 3

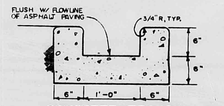


VICINITY MAP



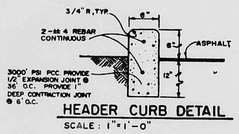
TYPICAL PAVEMENT SECTION

SCALE : 1" = 1'-0"



CONCRETE TROUGH (B)

SCALE: 1"=1'-0"



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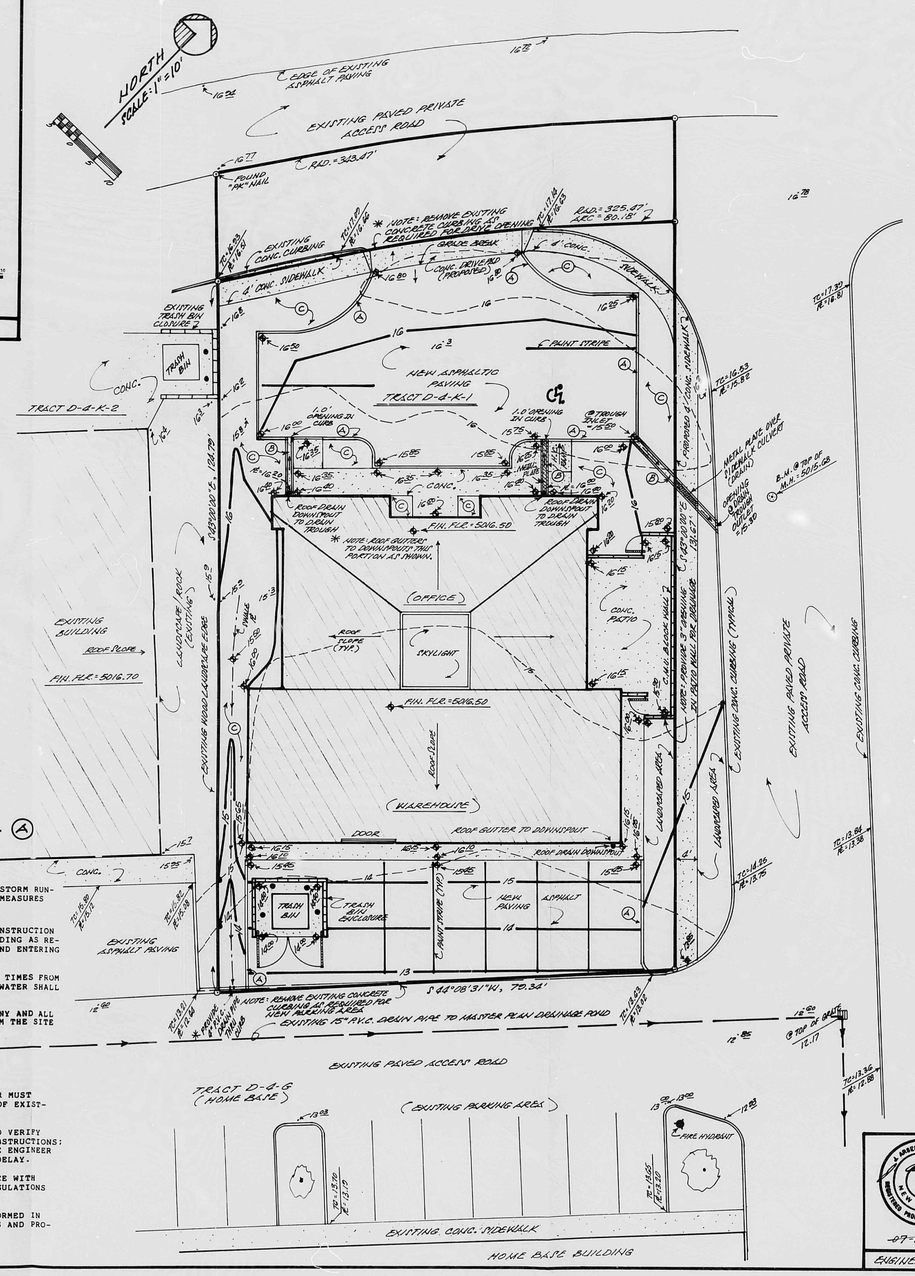

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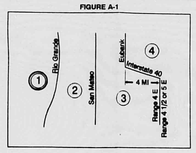
FIGURE A-1



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

TABLE A-4. LAND TREATMENTS

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PEAK INTENSITY: IN/HR. AT T_c = TWELVE (12) MINUTES, 100-YR. = 4.70

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"Q_p" = 0.31 CFS

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LEGAL DESCRIPTION: TRACT "D-4-K-1", SEVEN BAR RANCH SUBDIVISION, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE: N.M.S.H.C. MONUMENT STATION "NM-448-N12", M.S.L.D. ELEVATION = 5023.41; PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON.

L E G E N D :

EXISTING CONTOUR = ----16----

EXISTING SPOT ELEVATION = + 12.85

PROPOSED CONTOUR = ——16——

PROPOSED SPOT ELEVATION = + 16.00

TOP OF CURB / FLOWLINE ELEVATION = TC=16.53 FL=15.82

(C) → = LANDSCAPED AREA PER ARCHITECT'S PLAN

GENERAL NOTES:

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* 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.

4.) TOPOGRAPHY SURVEY SHOWN ON THE PLAN HEREON WAS OBTAINED BY THE "TRANSIT-STADIA" METHOD.

A. MESENIO MARTINEZ JR. 7875 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 03-03-95

09-19-94

ENGINEER'S SEAL

(REVISED)
GRADING AND DRAINAGE PLAN
FOR
TRACT "D-4-K-1"
SEVEN BAR RANCH
ALBUQUERQUE, NEW MEXICO
JULY, 1994
(REVISION: 03-03-95)

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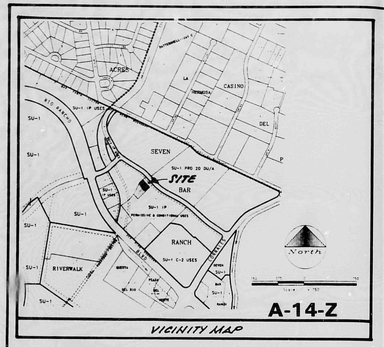
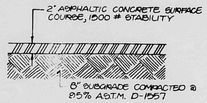
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/03/02

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D





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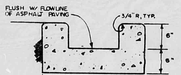

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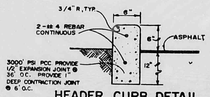
SCALE : 1" = 1'-0"



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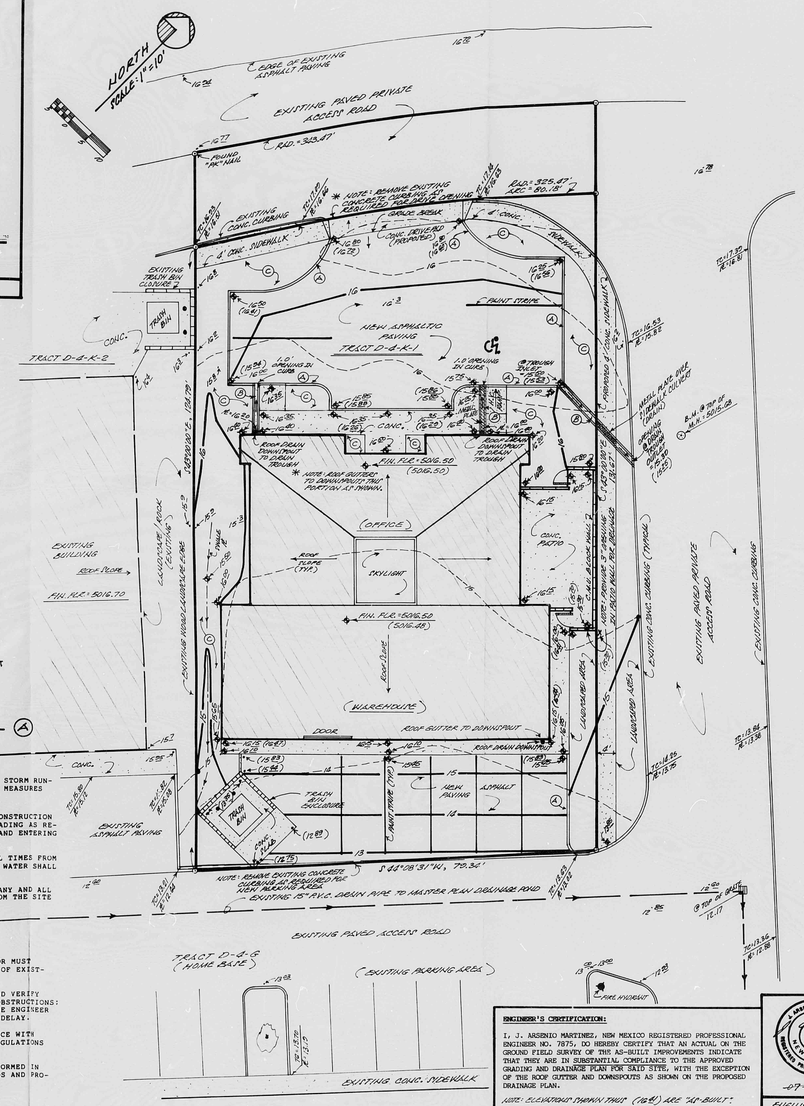

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ENGINEER'S CERTIFICATION:

I, J. ARSENIO MARTINEZ, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER NO. 7875, DO HEREBY CERTIFY THAT AN ACTUAL ON THE GROUND FIELD SURVEY OF THIS AS-BUILT IMPROVEMENTS INDICATE THAT THEY ARE IN SUBSTANTIAL COMPLIANCE TO THE APPROVED GRADING AND DRAINAGE PLAN FOR SAID SITE, WITH THE EXCEPTION OF THE ROOF GUTTER AND DOWNSPOUTS AS SHOWN ON THE PROPOSED DRAINAGE PLAN.

NOTE: ELEVATIONS SHOWN THUS (12.81) ARE "AS-BUILT".

J. ARSENIO MARTINEZ 7875 NEW MEXICO PROFESSIONAL ENGINEER

07-19-94

ENGINEER'S SEAL

(REVISED) GRADING AND DRAINAGE PLAN
FOR
TRACT "D-4-K-1"
SEVEN BAR RANCH
ALBUQUERQUE, NEW MEXICO
JULY, 1994
(REVISION: 03-03-95) (CERTIFICATION: 08-08-95)

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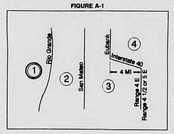
FIGURE A-1



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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 compacted 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. Uncompacted 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.

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

DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE PLAN HEREON, THE SUBJECT SITE IS LOCATED ON THE EAST SIDE OF A PRIVATE ACCESS ROAD BETWEEN CALLE CUERVO N.W. AND RIO RANCHO BLVD. N.W. (STATE ROAD NO. 528), AND WEST OF CORRALES ROAD N.W., ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (ZONE ATLAS NO. A-14-Z).

AS SHOWN ON F.E.M.A. PANEL 2 OF 50, THE SUBJECT SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD PLAIN.

THE SUBJECT SITE, 1.) DOES NOT CONTRIBUTE TO OFFSITE FLOWS OF ADJACENT PROPERTIES, 2.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES; 3.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE.

CALCULATIONS:

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DATED JANUARY, 1993.

SITE AREA: 10,292.43 SQ. FT. = 0.24 ACRE

PRECIPITATION ZONE: ONE (1)

PEAK INTENSITY: IN/HR. AT T_c = TWELVE (12) MINUTES, 100-YR. = 4.70

EXISTING CONDITIONS:

TREATMENT	AREA/ACRES		FACTOR		CFS
A	0.24	X	1.29	=	0.31

"Q_p" = 0.31 CFS

PROPOSED CONDITIONS:

TREATMENT	AREA/ACRES		FACTOR		CFS
C	0.05	X	2.87	=	0.14
D	0.19	X	4.37	=	0.83

"Q_p" = 0.97 CFS

****INCREASE = 0.66 CFS

LEGAL DESCRIPTION: TRACT "D-4-K-1", SEVEN BAR RANCH SUBDIVISION, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE: N.M.S.H.C. MONUMENT STATION "NM-448-N12", M.S.L.D. ELEVATION = 5023.41; PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON.

L E G E N D :

EXISTING CONTOUR = 16

EXISTING SPOT ELEVATION = × 12.85

PROPOSED CONTOUR = 16

PROPOSED SPOT ELEVATION = ✱ 12.85

TOP OF CURB / FLOWLINE ELEVATION = TC = 12.53 FL = 12.22

⊙→ = UNLOCKED AREA PER ARCHITECT'S PLAN

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 WITHIN THE SUBJECT PROPERTY OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.

✱ 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.

4.) TOPOGRAPHY SURVEY SHOWN ON THE PLAN HEREON WAS OBTAINED BY THE "TRANSIT-STADIA" METHOD.

RECEIVED AUG 8 1995

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