

# DRAINAGE CALCULATIONS :

- REFERENCES:
  - SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO IN COOPERATION WITH BERNALILLO COUNTY, NEW MEXICO AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.
  - FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, MAP NO. 35001C0327.
  - ZONE ATLAS PAGE J-11-Z.

- GENERAL INFORMATION:
  - SITE LIES IN ZONE ONE(1) (SEE REF. A, PAGE A-1)
  - 100 YEAR, 6 HOUR RAINFALL CRITERIA
  - TIME OF CONCENTRATION,  $T_c$ ,  $T_c = 0.2$  hr(12 MINUTES).

- IMPERVIOUSNESS:
 

TREATMENT TYPE	TYPES OF SURFACES	EXISTING SQ. FT	ACRES	PROPOSED SQ. FT	ACRES
A	UNDEVELOPED	-	0.0000	-	0.0000
B	LANDSCAPING	-	0.0000	-	0.0000
C	COMPACTED/VACANT	174,240	4.0000	2,875	0.0660
D	IMPERVIOUS	-	0.0000	171,365	3.9340
TOTAL AREA (TA)		174,240	4.0000	174,240	4.0000

- PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):
 

TREATMENT TYPE	TYPES OF SURFACES	EXISTING CFS/AC	Qp(100)	PROPOSED CFS/AC	Qp(100)
A	UNDEVELOPED	1.29	0.00	1.29	0.00
B	LANDSCAPING	2.03	0.00	2.03	0.00
C	COMPACTED/VACANT	2.87	11.48	2.87	0.10
D	IMPERVIOUS	4.37	0.00	4.37	17.19
PEAK DISCHARGE FROM SITE		11.48 CFS		17.38 CFS	

- PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):
 

TREATMENT TYPE	TYPES OF SURFACES	EXISTING CFS/AC	Qp(10)	PROPOSED CFS/AC	Qp(10)
A	UNDEVELOPED	0.24	0.00	0.24	0.00
B	LANDSCAPING	0.76	0.00	0.76	0.00
C	COMPACTED/VACANT	1.49	0.00	1.49	0.10
D	IMPERVIOUS	2.89	0.00	2.89	11.37
PEAK DISCHARGE FROM SITE		5.96 CFS		11.47 CFS	

- WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):
 

TREATMENT TYPE	TYPES OF SURFACES	EXISTING E	EXA/TA	PROPOSED E	EXA/TA
A	UNDEVELOPED	0.44	0.00	0.44	0.00
B	LANDSCAPING	0.67	0.00	0.67	0.00
C	COMPACTED/VACANT	0.99	0.00	0.99	0.02
D	IMPERVIOUS	1.97	0.00	1.97	1.94
WEIGHTED "E" FACTOR		0.99 IN		1.95 IN	

- VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8): (EXA/TA)/12
 

EXISTING	PROPOSED
0.5885 x 0.99/12	0.33 AC. FT.
	14,375 CU. FT.
0.5885 x 1.69/12	0.65 AC. FT.
	28,370 CU. FT.

## VI. PROPOSED VOLUMES FOR RAINFALL > 6HRS:

P(360) =	2.20 IN. (SEE REF. A, TABLE A-2)
P(1440)	2.66 IN.
P(4DAYS)	3.12 IN.
P(10DAY)	3.67 IN.
V(1440)	34,939 Cu. Ft. (SEE REF. A, EQ a-7)
V(10DAY)	49,362 Cu. Ft.

## GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING THE 4.0 ACRE LEASE AREA, BEING THE SOUTHERLY PORTION OF TRACT 163, 164, AND 165 AIRPORT UNIT ARE CONTAINED HEREON:

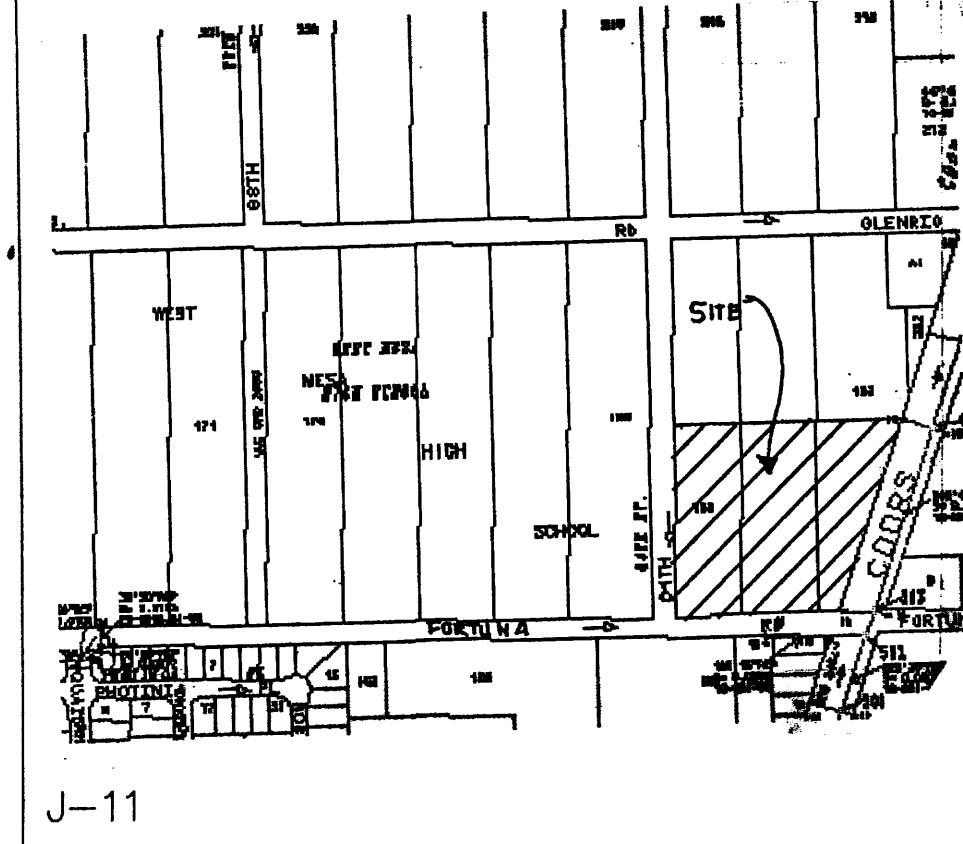
- VICINITY MAP
  - FIRM FLOOD MAP
  - DRAINAGE CALCULATIONS
- ### EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE LEASE SITE CONTAINS 4.0 ACRES AND IS LOCATED AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF COORS BLVD. NW AND FORTUNA ROAD NW. THE SITE IS VACANT AND SLOPES FROM NORTHEAST TO SOUTHWEST. THE LEASE AREA WILL BE USED AS A VEHICLE CONSIGNMENT LOT. ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL 0327D, DATED SEPTEMBER 20,1996, THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

### PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF FOUR MOBILE OFFICES TOTALING 2880 SQUARE FEET ALONG WITH A LAYER OF ASPHALT MILLINGS. THE SITE WILL BE USED AS A VEHICLE CONSIGNMENT CENTER. ON-SITE DEVELOPED FLOWS WILL BE RETAINED WITHIN A POND ON THE PARKING LOT WITH A "D" INLET WHICH WILL THEN BE CONNECTED TO THE BACK OF THE EXISTING INLET ON FORTUNA. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE BOTH THE EXISTING AND PROPOSED CONDITIONS FOR THE 6-HR 100 YEAR RAINFALL EVENT. THE PROCEDURE FOR FORTY ACRES OR SMALLER BASINS WAS USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

## ZONE ATLAS

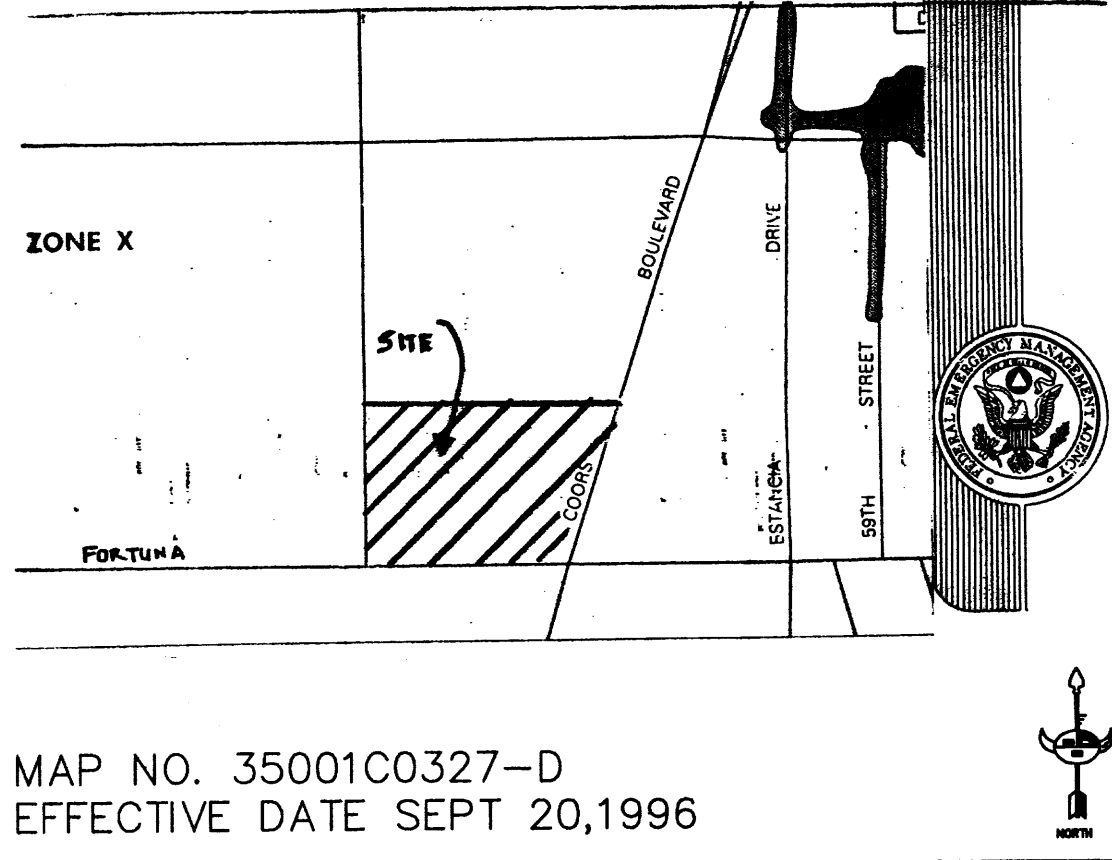


J-11

OFF-SITE FLOWS LIMITS

0.90 AC OF OFF-SITE FLOWS  
ACCEPTED AND ROUTED THROUGH SYSTEM  
1.29 CFS/AC X 0.90 AC = 1.16 CFS

## FLOOD MAP



MAP NO. 35001C0327-D  
EFFECTIVE DATE SEPT 20,1996

## GENERAL NOTES:

- An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
- All work detailed in this plan to be preformed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specification for Public Works Construction 1985.
- Two working days prior to any excavation, contractor must contact line locating Services at (505) 260-1990 for locating existing utilities.
- Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to residential street use.
- Maintenance of these facilities shall be the responsibility of the Owner of property served.

APPROVAL	NAME	DATE	TITLE
Hydrology			DAGO RUIZ CAR LOT
Inspector			Permit No.
A.C.E./Field			Map Number J11/D31

## ABBREVIATION LEGEND

TOP OF CON. PAD	TOP
TOP OF CURB	TC
TOP OF ASPHALT	TA
FLOWLINE	FL
TOP OF GRATE	TOG

## SYMBOL LEGEND

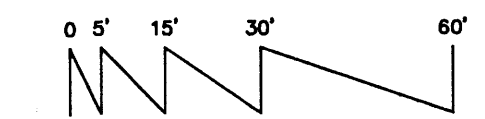
EXISTING CONTOUR	---	5102
EXISTING CONTOUR	---	27.50 TC
DESIGNED SPOT ELEVATION	---	27.00 TA
PROPERTY LINE	---	
EASEMENT LINE	---	
FLOW DIRECTION	---	
EXISTING SPOT ELEVATION	---	98.33 TC
DOWN SPOUT	---	97.69 FL

## BENCH-MARK INFORMATION

TEMPORARY BENCH-MARK BEING THE TOP OF CURB SPRAY PAINTED ORANGE (TBM) BEARS ELEVATION 5096.28 MSL. REFERENCE TO CITY BENCH-MARK 17-14, LOCATED AT THE INTERSECTION OF COORS FORTUNA RD. CITY BM BEARS ELEVATION 5098.437

## GRADING & DRAINAGE PLAN

Scale 1"=30'



JOB NO:	00.0254520
DATE	5 APRIL 2000
REVISIONS	
DATE	16 JUNE 2000

GRADING & DRAINAGE PLAN	
Sheet Title	
Drawn By: H. Head	Checked By: R. A.

HOOD & COMPANY	
DEVELOPMENT CONSULTANTS - GENERAL CONTRACTORS	
516 Tomasco St. NE • Albuquerque, NM • 87103 • (505) 246-5397	

DAGO RUIZ CAR LOT	
FORTUNA AND COORS	
ALBUQUERQUE, NEW MEXICO	

SHEET NO.	C-2
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Also D# U-SELL-IT



# GRADING PLAN

THE FOLLOWING ITEMS CONCERNING THE 4.0 ACRES LEASE AREA BEING THE SOUTHERLY PORTION OF TRACTS 163, 164, AND 165 AIRPORT UNIT ARE CONTAINED HEREON:

- VICINITY MAP
- FIRM FLOOD MAP
- DRAINAGE CALCULATIONS

## EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE LEASE SITE CONTAINS 4.0 ACRES AND IS LOCATED AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF COORS BLVD. NW AND FORTUNA ROAD NW. THE SITE IS VACANT AND SLOPING FROM NORTHEAST TO SOUTHWEST. THE LEASE AREA WILL BE USED AS A VEHICLE CONSIGNMENT LOT. ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL 0327D, DATED SEPTEMBER 20, 1996, THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

## PROPOSED CONDITIONS

AS SHOWN BY THE GRADING PLAN, THE PROJECT WILL CONSIST OF FOUR MANUFACTURED HOMES TOTALING 2880 SQUARE FEET ALONG WITH GRAVELLED PARKING AND ASSOCIATED LANDSCAPE AREAS. THE SITE WILL BE USED AS A VEHICLE CONSIGNMENT CENTER. ON-SITE DEVELOPED FLOWS WILL BE HANDLED ON-SITE USING A FLAT GRADING SCHEME. THE SITE WILL BE GRADED SO AS TO CONTAIN ALL THE RUN-OFF CREATED BY THE DEVELOPMENT. THE PERIMETER AREA WILL BE BERMED WITHIN THE LANDSCAPE SO AS TO CONTAIN ALL THE DEVELOPED FLOWS. THE CALCULATIONS, WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE ANALYSIS IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE 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.

DAGO RUIZ  
PARKING LOT  
ZONE 1  
PRECIPITATION: 360= 2.20in.  
1440= 2.66in.  
10day= 3.67in.

## EXCESS PRECIPITATION: PEAK DISCHARGE:

TREATMENT	AREA	PEAK DISCHARGE
TREATMENT A	0.44in.	1.29 cfs/ac.
TREATMENT B	0.67in.	2.03 cfs/ac.
TREATMENT C	0.99in.	2.87 cfs/ac.
TREATMENT D	1.97in.	4.37 cfs/ac.

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
TREATMENT A	0.44in.
TREATMENT B	0.67in.
TREATMENT C	0.99in.
TREATMENT D	1.97in.

## EXISTING EXCESS PRECIPITATION:

Weighted E =  $0.44 \times 0.00 + 0.67 \times 0.00 + 0.99 \times 4.00 + 1.97 \times 0.00 = 4.00ac.$   
 $= 0.99$   
 $V100-360 = 0.99 \times 4.00 / 12 = 0.3300ac-f = 14375 cf$

## EXISTING PEAK DISCHARGE:

$Q100 = 1.29 \times 0.00 + 2.03 \times 0.00 + 2.87 \times 4.00 + 4.37 \times 0.00 = 11.5CFS$

## PROPOSED EXCESS PRECIPITATION:

Weighted E =  $0.44 \times 0.00 + 0.67 \times 0.00 + 0.99 \times 3.93 + 1.97 \times 0.07 = 4.00ac.$   
 $= 1.01$   
 $V100-360 = 1.01 \times 4.00 / 12.0 = 0.3354ac-f = 14610 cf$

$V100-1440 = 0.34 \times 0.07 \times 2.66 - 2.20 / 12 = 0.3379ac-f = 14721cf$

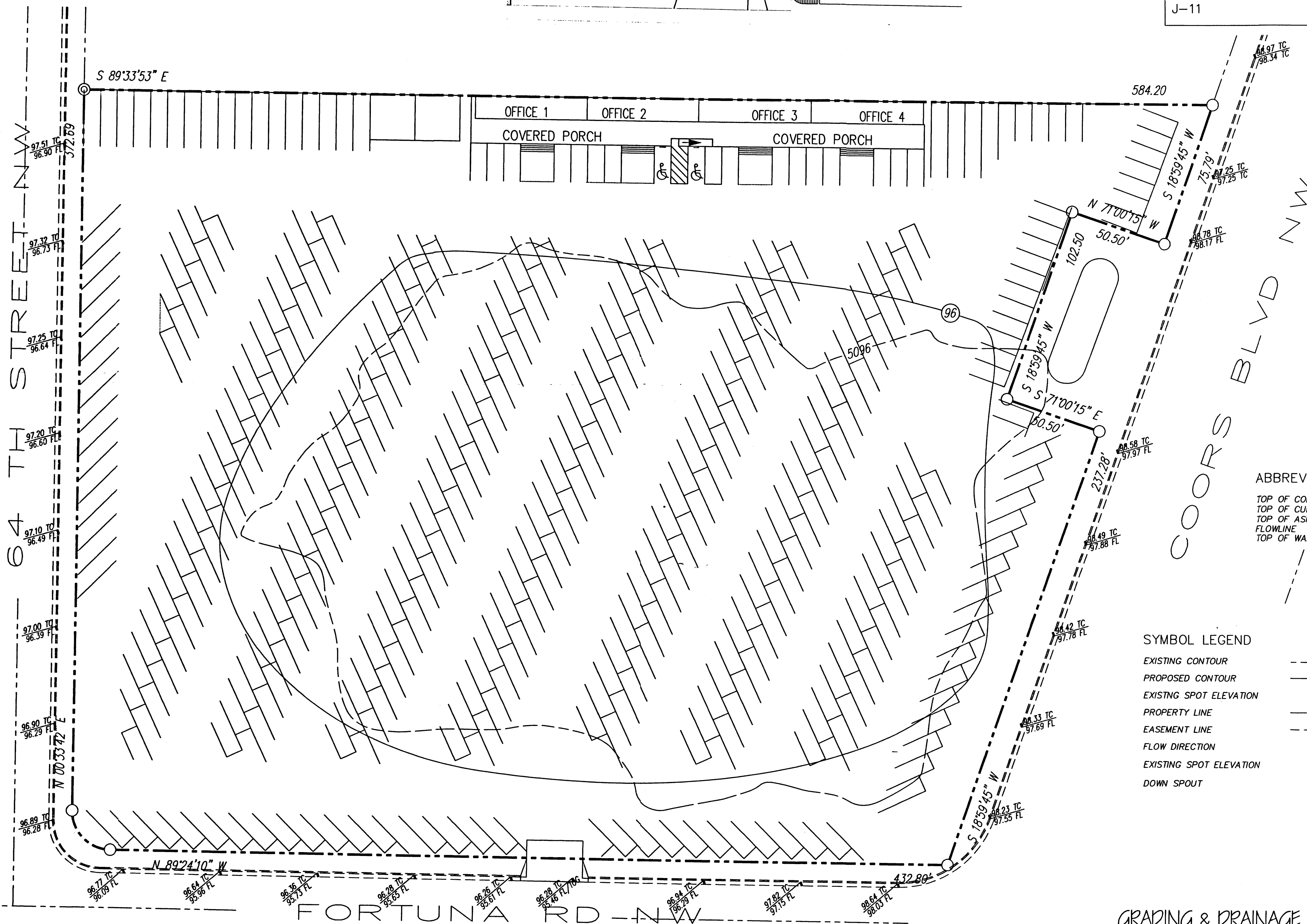
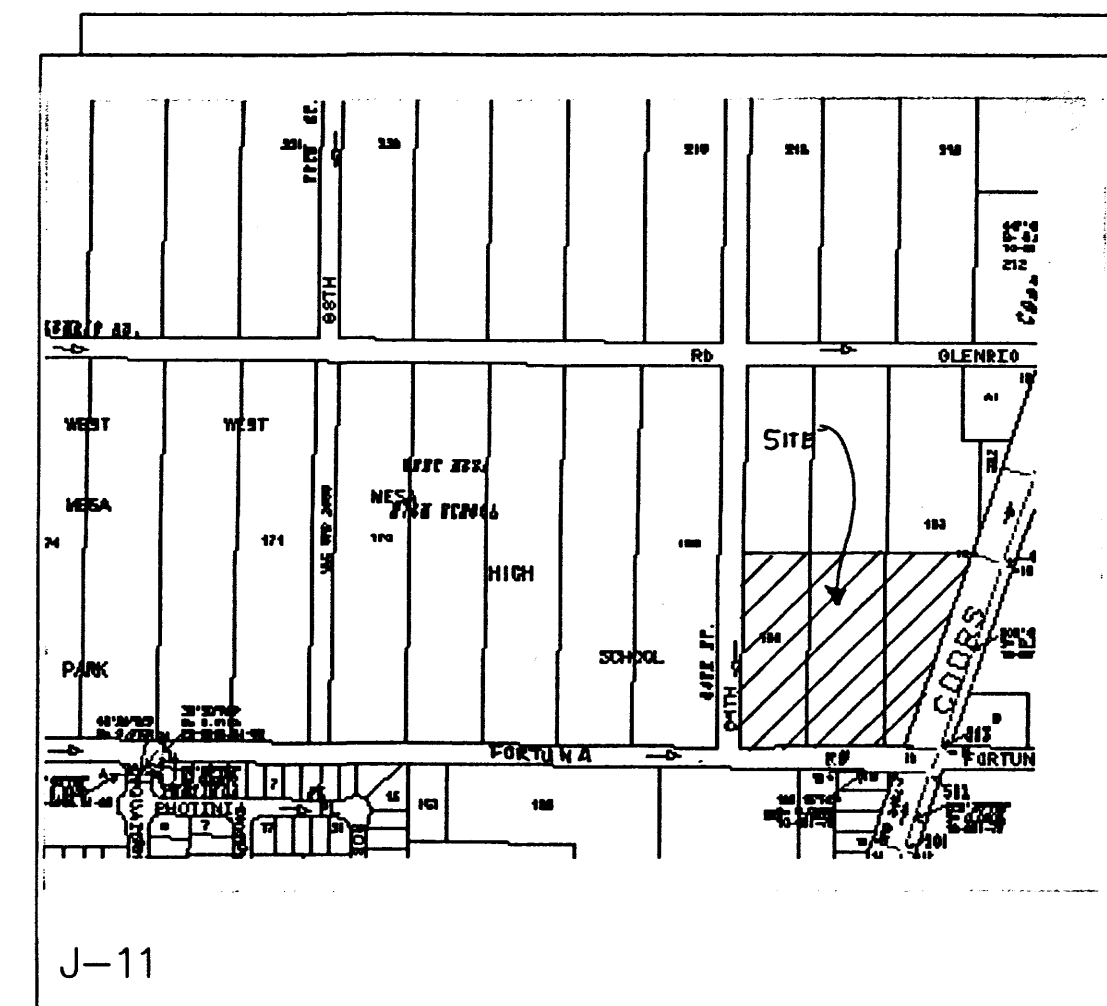
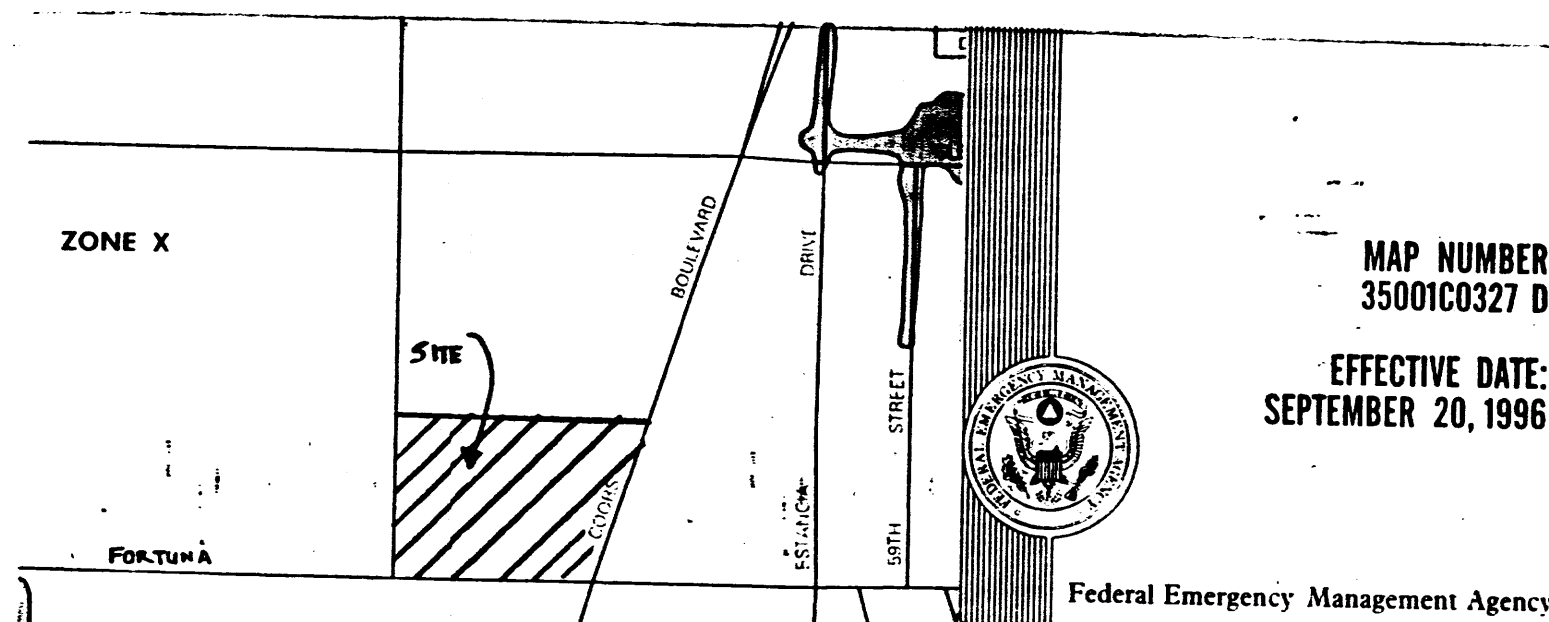
$V100-10day = 0.34 \times 0.07 \times 3.67 - 2.20 / 12 = 0.3435ac-f = 14963cf$

## PROPOSED PEAK DISCHARGE:

$Q100 = 1.29 \times 0.00 + 2.03 \times 0.00 + 2.87 \times 3.93 + 4.37 \times 0.07 = 11.6CFS$

## GENERAL NOTES:

- An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
- All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specification for Public Works Construction 1985.
- Two working days prior to any excavation, contractor must contact line locating Services at (505) 260-1990 for locating existing utilities.
- Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to residential street use.
- Maintenance of these facilities shall be the responsibility of the Owner of property served.

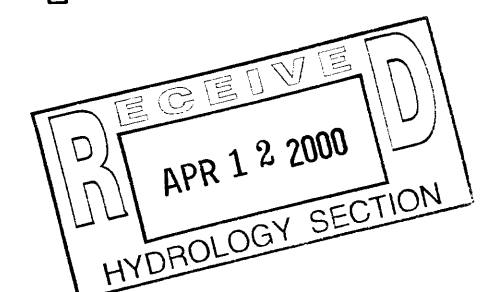


## ABBREVIATION LEGEND

TOP OF CON. PAD - TCP  
 TOP OF CURB - TC  
 TOP OF ASPHALT - TA  
 FLOWLINE - FL  
 TOP OF WALL - TW

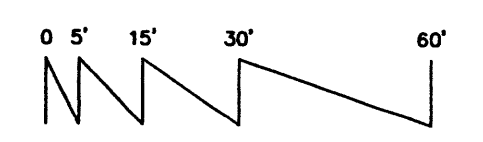
## SYMBOL LEGEND

EXISTING CONTOUR - ---  
 PROPOSED CONTOUR - (26)  
 EXISTING SPOT ELEVATION - 98.42 TC  
 PROPERTY LINE - ---  
 EASEMENT LINE - ---  
 FLOW DIRECTION - ←  
 EXISTING SPOT ELEVATION - +85.1  
 DOWN SPOUT - □

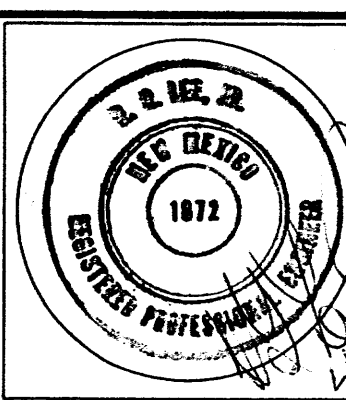


## GRADING & DRAINAGE PLAN

Scale 1" = 30'



R. G. Lee, Jr.



JOB NO: 00.0254520

5 APRIL 2000

REVISIONS

## GRADING & DRAINAGE PLAN

Sheet Title

Checked By: R.G.

Drawn By: H. Hood

## HOOD & COMPANY

DEVELOPMENT CONSULTANTS - GENERAL CONTRACTORS  
 516 Tamsia St. NE • Albuquerque, NM • 87103 • (505) 266-3397

## DAGO RUIZ CAR LOT

FORTUNA AND COORS  
 ALBUQUERQUE, NEW MEXICO

SHEET NO.

C-2



## DRAINAGE CALCULATIONS :

- I. REFERENCES:
- SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO IN COOPERATION WITH BERNALILLO COUNTY, NEW MEXICO AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.
  - FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, MAP NO. 35001C0327.
  - ZONE ATLAS PAGE J-11-Z.

- II. GENERAL INFORMATION:
- SITE LIES IN ZONE ONE(1) (SEE REF. A, PAGE A-1)
  - 100 YEAR, 6 HOUR RAINFALL CRITERIA
  - TIME OF CONCENTRATION,  $T_c$   $T_c = 0.2$  hr(12 MINUTES).

III. IMPERVIOUSNESS:

TREATMENT TYPE	TYPES OF SURFACES	EXISTING SQ. FT.	ACRES	PROPOSED SQ. FT.	ACRES
A	UNDEVELOPED	-	0.0000	-	0.0000
B	LANDSCAPING	-	0.0000	-	0.0000
C	COMPACTED/VACANT	174,240	4.0000	2,875	0.0660
D	IMPERVIOUS	0.0000	0.0000	171,365	3.9340
TOTAL AREA (TA)		174,240	4.0000	174,240	4.0000

IV. PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):

TREATMENT TYPE	TYPES OF SURFACES	EXISTING CFS/AC	Qp(100)	PROPOSED CFS/AC	Qp(100)
A	UNDEVELOPED	1.29	0.00	1.29	0.00
B	LANDSCAPING	2.03	0.00	2.03	0.00
C	COMPACTED/VACANT	2.87	11.48	2.87	0.19
D	IMPERVIOUS	4.37	0.00	4.37	17.19
PEAK DISCHARGE FROM SITE		11.48 CFS		17.38 CFS	

V. PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):

TREATMENT TYPE	TYPES OF SURFACES	EXISTING CFS/AC	Qp(10)	PROPOSED CFS/AC	Qp(10)
A	UNDEVELOPED	0.24	0.00	0.24	0.00
B	LANDSCAPING	0.76	0.00	0.76	0.00
C	COMPACTED/VACANT	1.49	5.96	1.49	0.10
D	IMPERVIOUS	2.89	0.00	2.89	11.37
PEAK DISCHARGE FROM SITE		5.96 CFS		11.47 CFS	

VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):

TREATMENT TYPE	TYPES OF SURFACES	EXISTING E	EXA/TA	PROPOSED E	EXA/TA
A	UNDEVELOPED	0.44	0.00	0.44	0.00
B	LANDSCAPING	0.67	0.00	0.67	0.00
C	COMPACTED/VACANT	0.99	0.99	0.99	0.02
D	IMPERVIOUS	1.97	0.00	1.97	1.94
WEIGHTED "E" FACTOR		0.99	IN	1.95	IN

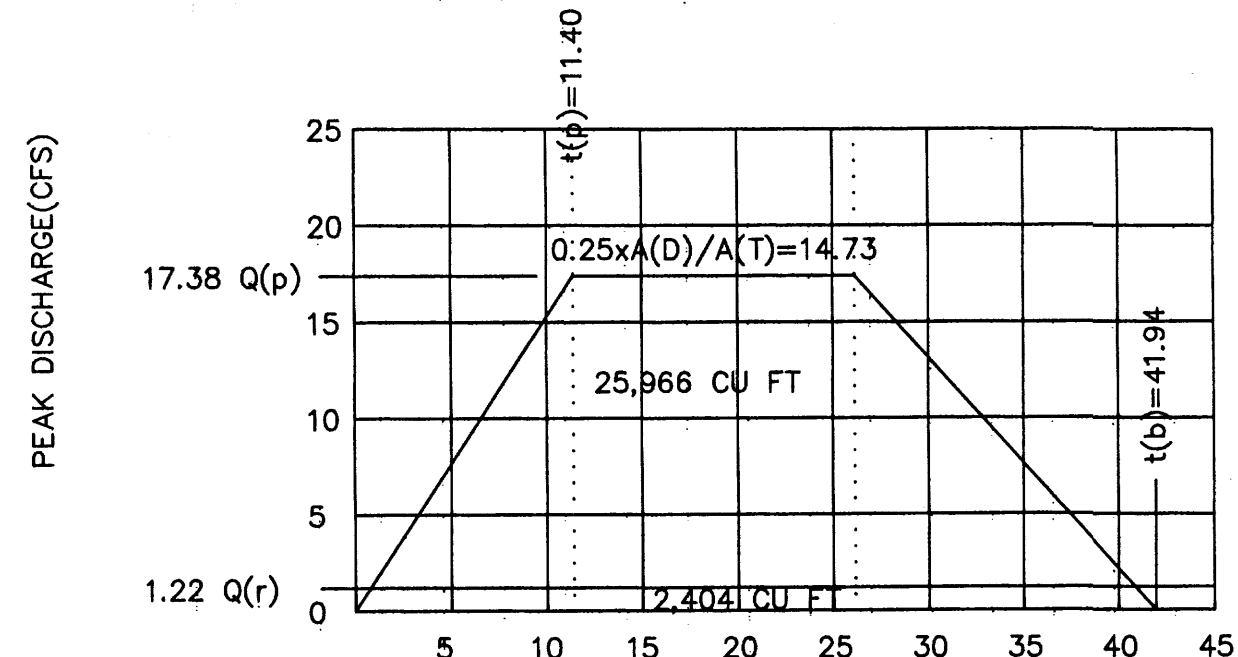
VII. VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8): (EXA)/12

EXISTING	PROPOSED
0.5885 x 0.99/12	0.33 AC. FT.
	14,375 CU. FT.
0.5885 x 1.69/12	0.65 AC. FT.
	28,370 CU. FT.

ΔVII. VOLUME 100 YEAR GENERATED DUE TO NEW DEVELOPMENT

EXISTING	PROPOSED
14,375 CU. FT.	28,370 CU. FT.
	INCREASE 13,995 CU. FT.

## ΔVIII. HYDROGRAPH SHOWING DISCHARGE VOLUME



NOTE: 8" PIPE RELEASES 1.22 CFS FLOWING FULL

## GENERAL NOTES:

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- Backfill compaction shall be according to residential street use.
- Maintenance of these facilities shall be the responsibility of the Owner of property served.

## IX. PROPOSED VOLUMES FOR RAINFALL>6HRS:

P(360)=	2.20 IN. (SEE REF. A, TABLE A-2)
P(1440)=	2.66 IN.
P(4DAY)=	3.12 IN.
P(10DAY)=	3.67 IN.

V(1440)=	34,939 Cu. Ft. (SEE REF. A, EQ a-7)
V(10DAY)=	49,362 Cu. Ft.

## Δ X. PROPOSED POND VOLUMES REQUIRED:

TOTAL GENERATED	28,370
- RELEASE BY PIPE	2,404
- HISTORIC RELEASE	14,375
POND REQUIRED	11,591 CU. FT.

## Δ XI. POND VOLUMES CALCULATION:

$$V = 1/3 \times D \times H \times 28,370$$

$$= 1/3 \times 0.72 \times 50,017 \times 2,404$$

$$= 12,004 \text{ CU. FT. PROVIDED}$$

## CERTIFICATION

I, R. G. LEE, Jr., Registered Professional Engineer hereby certify the improvements shown hereon are in substantial compliance with the approved drainage plan.

## OFF-SITE FLOWS LIMITS

0.90 AC OF OFF-SITE FLOWS  
ACCEPTED AND ROUTED THOUGH SYSTEM  
1.29 CFS/AC X 0.90 AC = 1.16 CFS

## GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING THE 4.0 ACRE LEASE AREA, BEING THE SOUTHERLY PORTION OF TRACT 163, 164, AND 165 AIRPORT UNIT ARE CONTAINED HEREON:

- VICINITY MAP
- FIRM FLOOD MAP
- DRAINAGE CALCULATIONS

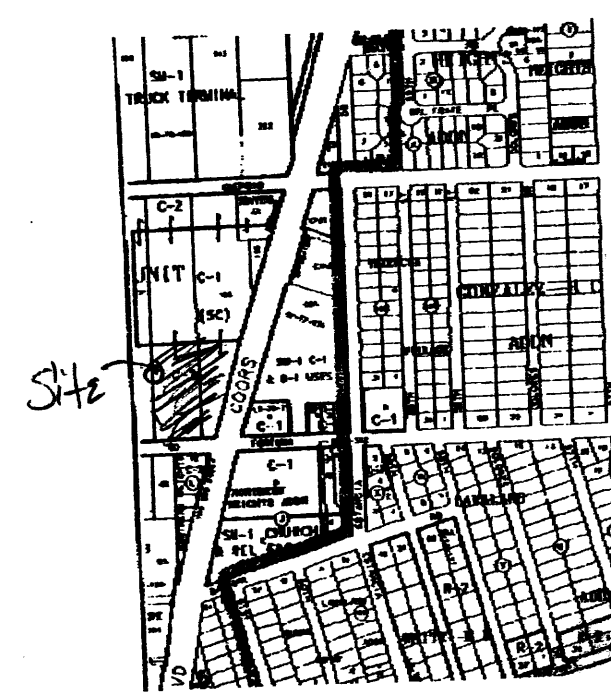
## EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE LEASE SITE CONTAINS 4.0 ACRES AND IS LOCATED AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF COORS BLVD. NW AND FORTUNA ROAD NW. THE SITE IS VACANT AND SLOPES FROM NORTHEAST TO SOUTHWEST. THE LEASE AREA WILL BE USED AS A VEHICLE CONSIGNMENT LOT. ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL 0327D, DATED SEPTEMBER 20,1996, THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

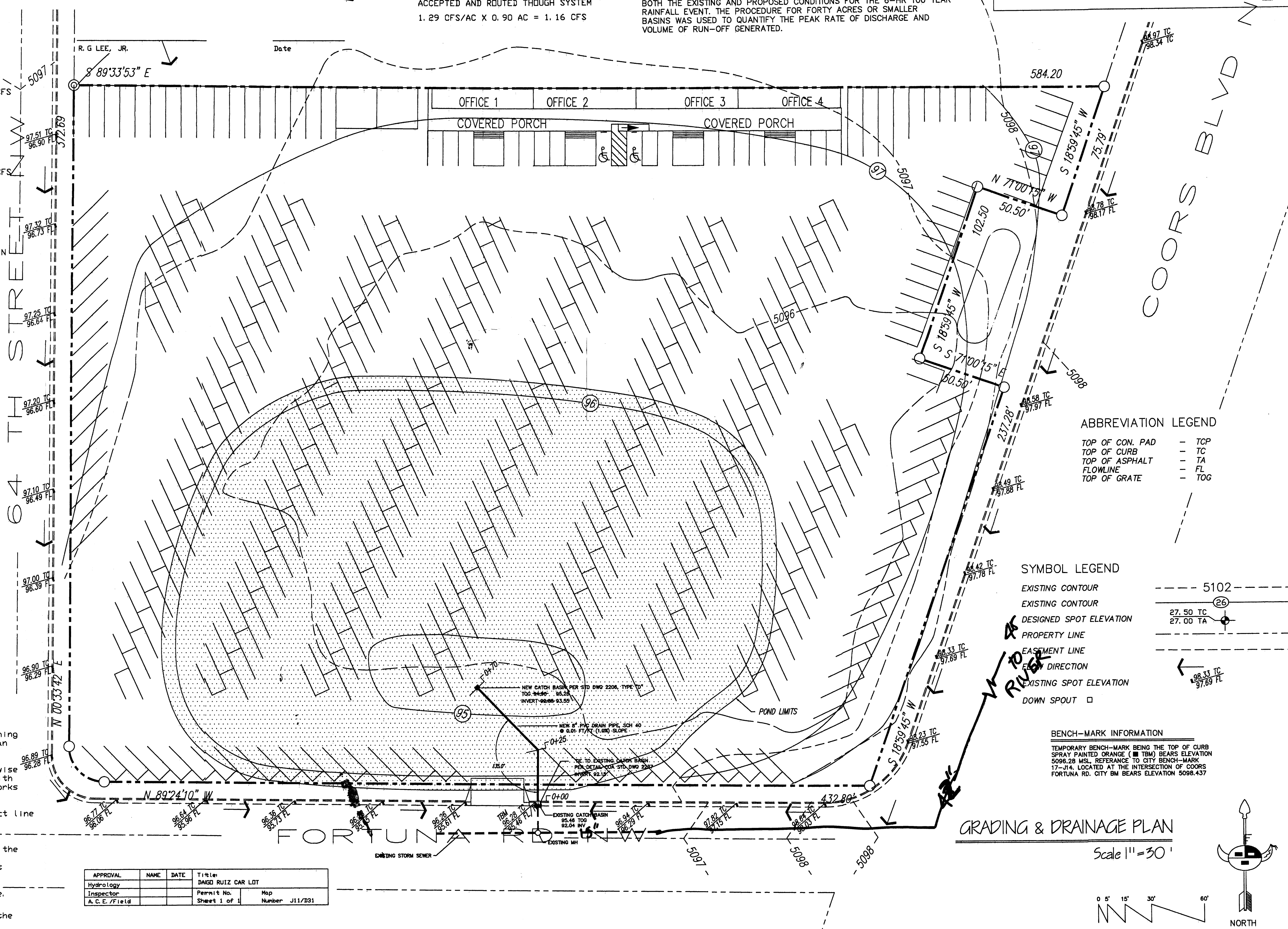
## PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF FOUR MOBILE OFFICES TOTALING 2880 SQUARE FEET ALONG WITH A LAYER OF ASPHALT MILLINGS. THE SITE WILL BE USED AS A VEHICLE CONSIGNMENT CENTER. ON-SITE DEVELOPED FLOWS WILL BE RETAINED WITHIN A POND ON THE PARKING LOT WITH A "D" INLET WHICH WILL THEN BE CONNECTED TO THE BACK OF THE EXISTING INLET ON FORTUNA. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE BOTH THE EXISTING AND PROPOSED CONDITIONS FOR THE 6-HR 100 YEAR RAINFALL EVENT. THE PROCEDURE FOR FORTY ACRES OR SMALLER BASINS WAS USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

## ZONE ATLAS



J-11



## ABBREVIATION LEGEND

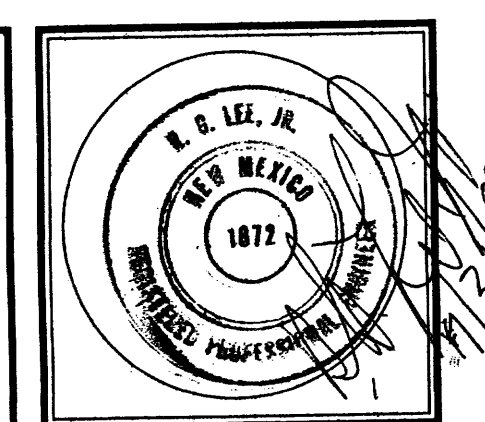
TOP OF CON. PAD	- TOP
TOP OF CURB	- TC
TOP OF ASPHALT	- TA
FLOWLINE	- FL
TOP OF GRATE	- TOG

## SYMBOL LEGEND

EXISTING CONTOUR	---
EXISTING CONTOUR	---
DESIGNED SPOT ELEVATION	27.50 TC
PROPERTY LINE	---
EASTMENT LINE	---
FLOW DIRECTION	---
EXISTING SPOT ELEVATION	27.00 TA
DOWN SPOUT	---

## BENCH-MARK INFORMATION

TEMPORARY BENCH-MARK BEING THE TOP OF CURB SPRAY PAINTED ORANGE (TBM) BEARS ELEVATION 5096.28 MSL. REFERENCE TO CITY BENCH-MARK 17-J14, LOCATED AT THE INTERSECTION OF COORS FORTUNA RD. CITY BM BEARS ELEVATION 5098.437



JOB NO:	00.0254520
DATE	5 APRIL 2000
REVISIONS	
DATE	16 JUNE 2000

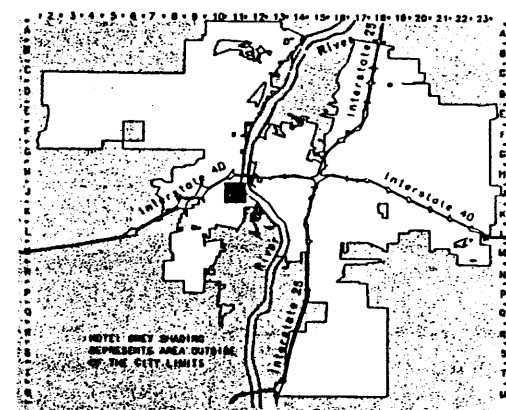
GRADING & DRAINAGE PLAN	
Drawn By: H. Head	Checked By: R. G. Lee

HOOD & COMPANY	
DEVELOPMENT CONSULTANTS - GENERAL CONTRACTORS	
516 Tamasopo St. NE • Albuquerque, NM • 87103 • (505) 266-5397	

DAGO RUIZ CAR LOT	
FORTUNA AND COORS	
ALBUQUERQUE, NEW MEXICO	

SHEET NO.	C-2
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Zone Atlas Page **J-11-Z**

LOCATION MAE

L E G E N D :

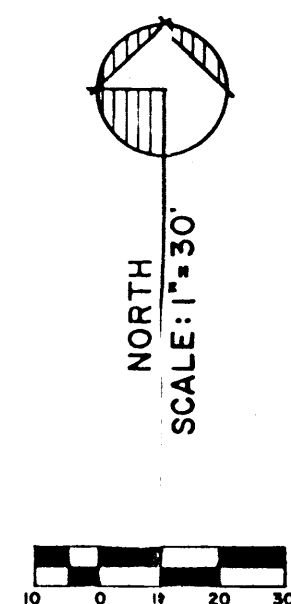
TOP OF CURB ELEVATION = TC = 97.80  
CURB FLOWLINE ELEVATION = FL = 96.60  
EXISTING SPOT ELEVATION = • 97.80  
EXISTING CONTOUR ELEVATION = — 97.80  
EXISTING FENCE LINE = — X —

## BENCH-MARK INFORMATION

TEMPORARY BENCH-MARK BEING THE TOP OF CURB  
SPRAY PAINTED ORANGE (■ TBM) BEARS ELEVATION  
5098.28 MSL, REFERENCE TO CITY BENCH-MARK  
17-J14, LOCATED AT THE INTERSECTION OF COORS  
FORTUNA RD. CITY BM BEARS ELEVATION 5098.437

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.



**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 OR 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.

EROSION CONTROL MEASURES:

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

- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERM, DITCH, DRAINS, POND, 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 PROPERTY AND DEPOSITED THEREON.

DPM SECTION 22.2 - HYDROLOGY  
January, 1993 Page A-4

<b>Treatment</b>		<b>Land Condition</b>
<b>A</b>	<b>Soil</b>	Soil uncovered by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grazing, groundwater and infiltration capacity. No weeds. Unfired surface.
<b>B</b>	<b>Grass</b>	Irrigated lands, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncovered by human activity with slopes greater than 10 percent and less than 20 percent.
<b>C</b>	<b>Native</b>	Soil compacted by human activity. Minimal vegetation. Unfired parking, roads, trails. Most of the area is covered by rocks on plastic (desert landscape). Irrigated lands and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs in typical densities with human activity with slopes at 20 percent or greater.
<b>D</b>	<b>Imperious areas, pavement and roofs.</b>	Native grasses, weeds and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrology Group D.

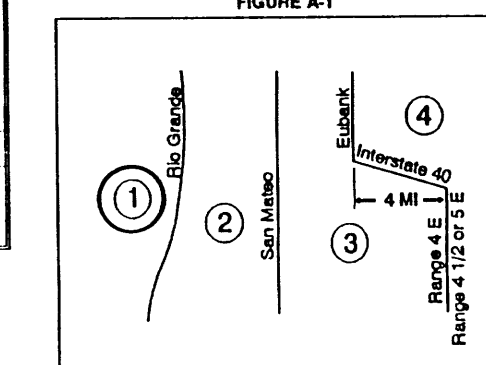
Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective surfaces. The use of specific management practices may be employed.

### A1 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-

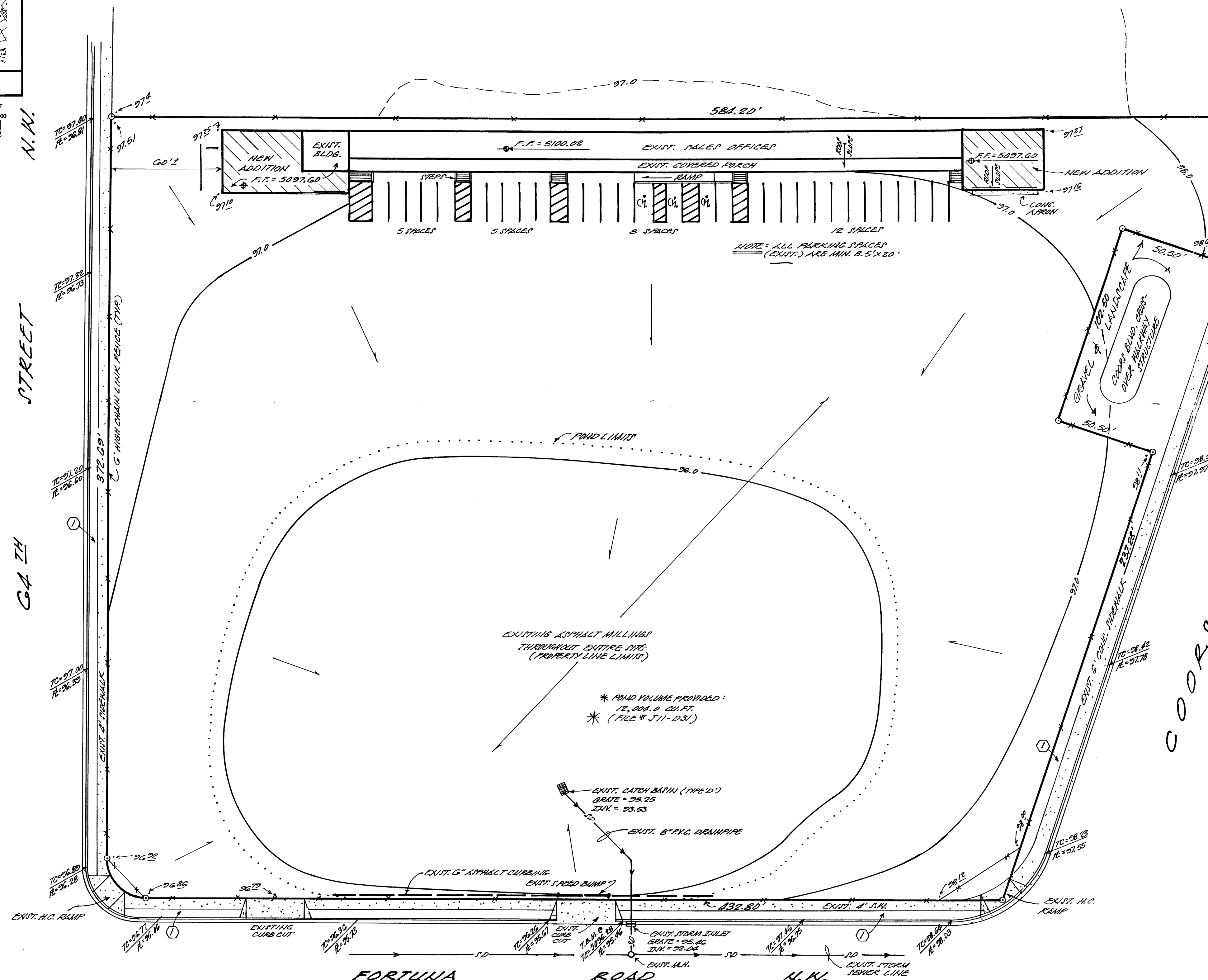


Where a watershed extends across zone boundary, use the zone which contains the largest portion of the watershed.

TABLE A-10. PEAK INTENSITY (INMR at  $t_c = 0.2$  hour)

Zone	Intensity	100-YR [ 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 ]	

Zone	Treatment			100-YR 2-YR, 10-YR
	A	B	C	D
1	1.29 [0.00, 0.24]	2.03 [0.03, 0.76]	2.87 [0.47, 1.49]	4.37 [1.09, 2.89]
2	2.58 [0.00, 0.38]	2.28 [0.08, 0.95]	3.14 [0.60, 1.71]	4.70 [1.88, 3.1]
3	1.87 [0.00, 0.58]	2.60 [0.21, 1.19]	3.46 [1.00, 2.08]	5.62 [2.04, 2.78]
	2.29 [0.06, 0.87]	2.92 [0.38, 1.45]	3.73 [1.00, 2.26]	5.25 [2.17, 3.5]



NOTE: BLDG. SQ. FT. = 7,594.0 SQ. FT. TOTAL  
REQ. PARKING = 34 SPACES (NET)  
PROVIDED PARKING = 34 SPACES

**DRAINAGE COMMENTS:**

As shown on the Vicinity Map hereon, the subject site is located at the northwest corner of the intersection of Coors Blvd. N.W. and Fortuna Road N.W., in the City of Albuquerque, Bernalillo County, New Mexico.

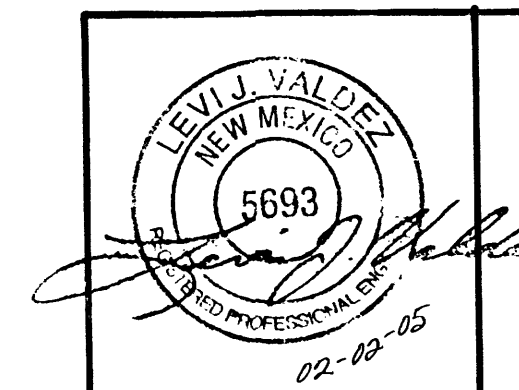
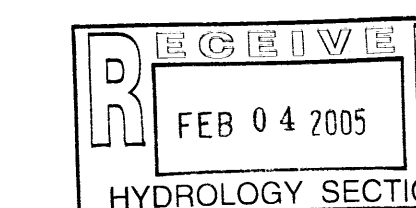
The subject site consists of an existing used car sales lot and existing sales offices, (the subject site is presently totally impervious with said sales offices and the remaining site now consisting of asphalt millings).

This plan shows the proposed building additions that are to be constructed next to the existing facilities; these additions are to be constructed over what is now impervious areas; therefore, there will not be an increase of flows generated.

Note: Calculations are referred to the approved plan of the subject site (File # J11-D31).

**LEGAL DESCRIPTION:**

A 4.0 acre lease area being a southerly portion of Tracts 163, 164, and 165, Airport Unit, Town of Atrisco Grant, Albuquerque, Bernalillo County, New Mexico.



ENGINEER'S SEAL

Project Name

DAGO RUIZ CAR LOT  
FORTUNA AND COORS  
ALBUQUERQUE, NEW MEXICO



# DRAINAGE CALCULATIONS :

## I. REFERENCES:

- SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO IN COOPERATION WITH BERNALILLO COUNTY, NEW MEXICO AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.
- FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, MAP NO. 35001C0327.
- ZONE ATLAS PAGE J-11-Z.

## II. GENERAL INFORMATION:

- SITE LIES IN ZONE ONE(1) (SEE REF. A, PAGE A-1)
- 100 YEAR, 6 HOUR RAINFALL CRITERIA
- TIME OF CONCENTRATION,  $T_c$   $T_c = 0.2$  hr(12 MINUTES).

## III. IMPERVIOUSNESS:

TREATMENT	TYPES OF SURFACES	EXISTING SQ. FT.	ACRES	PROPOSED SQ. FT.	ACRES
A	UNDEVELOPED	-	0.0000	-	0.0000
B	LANDSCAPING	-	0.0000	-	0.0000
C	COMPACTED/VACANT	174,240	4.0000	2,875	0.0660
D	IMPERVIOUS	-	0.0000	171,365	3.9340
	TOTAL AREA (TA)	174,240	4.0000	174,240	4.0000

## IV. PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):

TREATMENT	TYPES OF SURFACES	EXISTING CFS/AC	Qp(100)	PROPOSED CFS/AC	Qp(100)
A	UNDEVELOPED	1.29	0.00	1.29	0.00
B	LANDSCAPING	2.03	0.00	2.03	0.00
C	COMPACTED/VACANT	2.87	11.48	2.87	0.19
D	IMPERVIOUS	4.37	0.00	4.37	17.19
	PEAK DISCHARGE FROM SITE		11.48 CFS		17.38 CFS

## V. PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):

TREATMENT	TYPES OF SURFACES	EXISTING CFS/AC	Qp(10)	PROPOSED CFS/AC	Qp(10)
A	UNDEVELOPED	0.24	0.00	0.24	0.00
B	LANDSCAPING	0.76	0.00	0.76	0.00
C	COMPACTED/VACANT	1.49	5.96	1.49	0.10
D	IMPERVIOUS	2.89	0.00	2.89	11.37
	PEAK DISCHARGE FROM SITE		5.96 CFS		11.47 CFS

## VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):

TREATMENT	TYPES OF SURFACES	EXISTING E	ExA/TA	PROPOSED E	ExA/TA
A	UNDEVELOPED	0.44	0.00	0.44	0.00
B	LANDSCAPING	0.67	0.00	0.67	0.00
C	COMPACTED/VACANT	0.99	0.99	0.99	0.02
D	IMPERVIOUS	1.97	0.00	1.97	1.94
	WEIGHTED "E" FACTOR		0.99 IN		1.95 IN

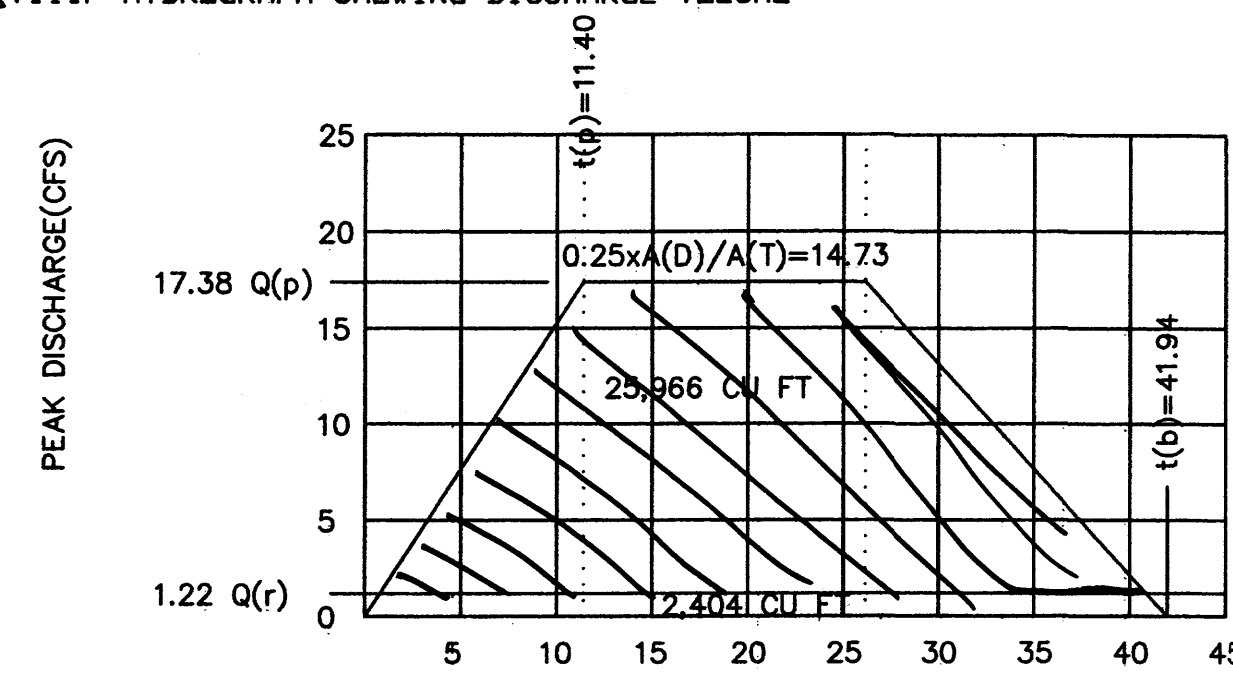
## VI. VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8): (ExTA)/12

EXISTING	0.5885 x 0.99/12	0.33 AC. FT.	14,375 CU. FT.
PROPOSED	0.5885 x 1.69/12	0.65 AC. FT.	28,370 CU. FT.

## ΔVII. VOLUME 100 YEAR GENERATED DUE TO NEW DEVELOPMENT

PROPOSED	28,370 CU. FT.
EXISTING	14,375 CU. FT.
INCREASE	13,995 CU. FT.

## ΔVIII. HYDROGRAPH SHOWING DISCHARGE VOLUME



NOTE: 8" PIPE RELEASES 1.22 CFS FLOWING FULL.

## GENERAL NOTES:

- An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
- All work detailed in this plan to be performed, except as otherwise stated or provided herein, shall be constructed in accordance with City of Albuquerque Interim Standard Specification for Public Works Construction 1985.
- Two working days prior to any excavation, contractor must contact line locating Services at (505) 260-1990 for locating existing utilities.
- Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to residential street use.
- Maintenance of these facilities shall be the responsibility of the Owner of property served.

## IX. PROPOSED VOLUMES FOR RAINFALL 6HRS:

P(360)	=	2.20 IN. (SEE REF. A, TABLE A-2)
P(1440)	=	2.66 IN.
P(480)	=	3.12 IN.
P(1080)	=	3.67 IN.

V(1440)	=	34,939 Cu. Ft. (SEE REF. A, EQ a-7)
V(1080)	=	49,362 Cu. Ft.

## Δ X. PROPOSED POND VOLUMES REQUIRED:

TOTAL GENERATED	28,370
- RELEASE BY PIPE	2,404
- HISTORIC RELEASE	4,375
POND REQUIRED	11,591 CU. FT.

## Δ XI. POND VOLUMES CALCULATION:

$V = 1/3 \times D \times H$	28,370
$= 1/3 \times D \times 50,017$	2,404
$= 12,004$	CU. FT. PROVIDED

## CERTIFICATION

I, R. G. Lee, Jr., Registered Professional Engineer hereby certify the improvements shown herein are in substantial compliance with the approved drainage plan.

## OFF-SITE FLOWS LIMITS

0.90 AC OF OFF-SITE FLOWS ACCEPTED AND ROUTED THOUGH SYSTEM  
1.29 CFS/AC X 0.90 AC = 1.16 CFS

# GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING THE 4.0 ACRE LEASE AREA, BEING THE SOUTHERLY PORTION OF TRACT 163, 164, AND 165 AIRPORT UNIT ARE CONTAINED HEREON:

- VICINITY MAP
- FIRM FLOOD MAP
- DRAINAGE CALCULATIONS

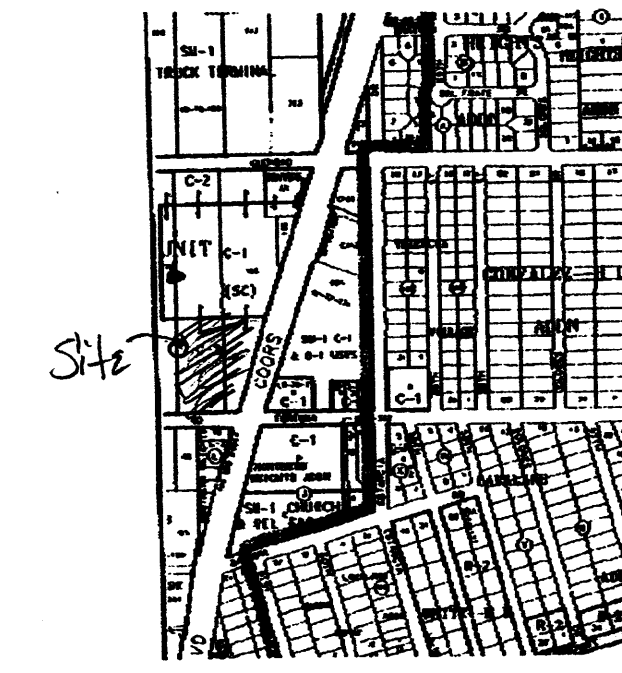
## EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE LEASE SITE CONTAINS 4.0 ACRES AND IS LOCATED AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF COORS BLVD. NW AND FORTUNA ROAD NW. THE SITE IS VACANT AND SLOPES FROM NORTHEAST TO SOUTHWEST. THE LEASE AREA WILL BE USED AS A VEHICLE CONSIGNMENT LOT. ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL 0327D, DATED SEPTEMBER 20,1996, THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

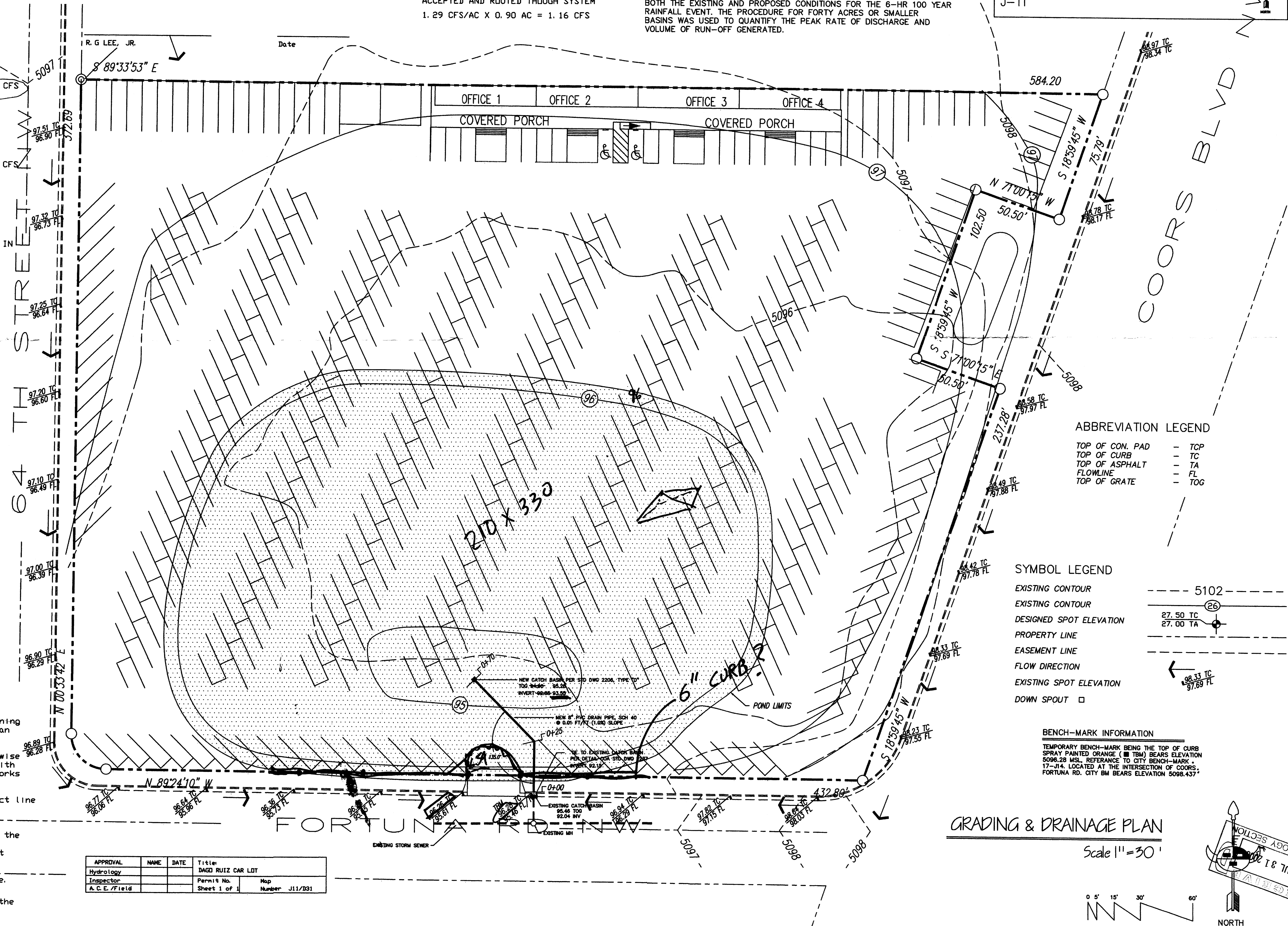
## PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF FOUR MOBILE OFFICES TOTALING 2880 SQUARE FEET ALONG WITH A LAYER OF ASPHALT MILLINGS. THE SITE WILL BE USED AS A VEHICLE CONSIGNMENT CENTER. ON-SITE DEVELOPED FLOWS WILL BE RETAINED WITHIN A POND ON THE PARKING LOT WITH A "D" INLET WHICH WILL THEN BE CONNECTED TO THE BACK OF THE EXISTING INLET ON FORTUNA. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE BOTH THE EXISTING AND PROPOSED CONDITIONS FOR THE 6-HR 100 YEAR RAINFALL EVENT. THE PROCEDURE FOR FORTY ACRES OR SMALLER BASINS WAS USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

# ZONE ATLAS



J-11





# DRAINAGE CALCULATIONS :

- REFERENCES:
  - SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO IN COOPERATION WITH METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.
  - FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, MAP NO. 35001C0327.
  - ZONE ATLAS PAGE J-11-2.

- GENERAL INFORMATION:
  - SITE LIES IN ZONE ONE(1) (SEE REF. A, PAGE A-1)
  - 100 YEAR, 6 HOUR RAINFALL CRITERIA
  - TIME OF CONCENTRATION,  $T_c$ :  $T_c = 0.2$  hr(12 MINUTES).

TREATMENT	TYPES OF SURFACES	EXISTING SQ.FT	ACRES	PROPOSED SQ.FT	ACRES
A	UNDEVELOPED	—	0.0000	—	0.0000
B	LANDSCAPING	—	0.0000	—	0.0000
C	COMPACTED/VACANT	174,240	4.0000	2,875	0.0660
D	IMPERVIOUS	—	0.0000	171,365	3.9340
	TOTAL AREA (TA)	174,240	4.0000	174,240	4.0000

TREATMENT	TYPES OF SURFACES	EXISTING CFS/AC	Qp(100)	PROPOSED CFS/AC	Qp(100)
A	UNDEVELOPED	1.29	0.00	1.29	0.00
B	LANDSCAPING	2.03	0.00	2.03	0.00
C	COMPACTED/VACANT	2.87	11.48	2.87	0.19
D	IMPERVIOUS	4.37	0.00	4.37	17.19
	PEAK DISCHARGE FROM SITE	11.48	CFS	17.38	CFS

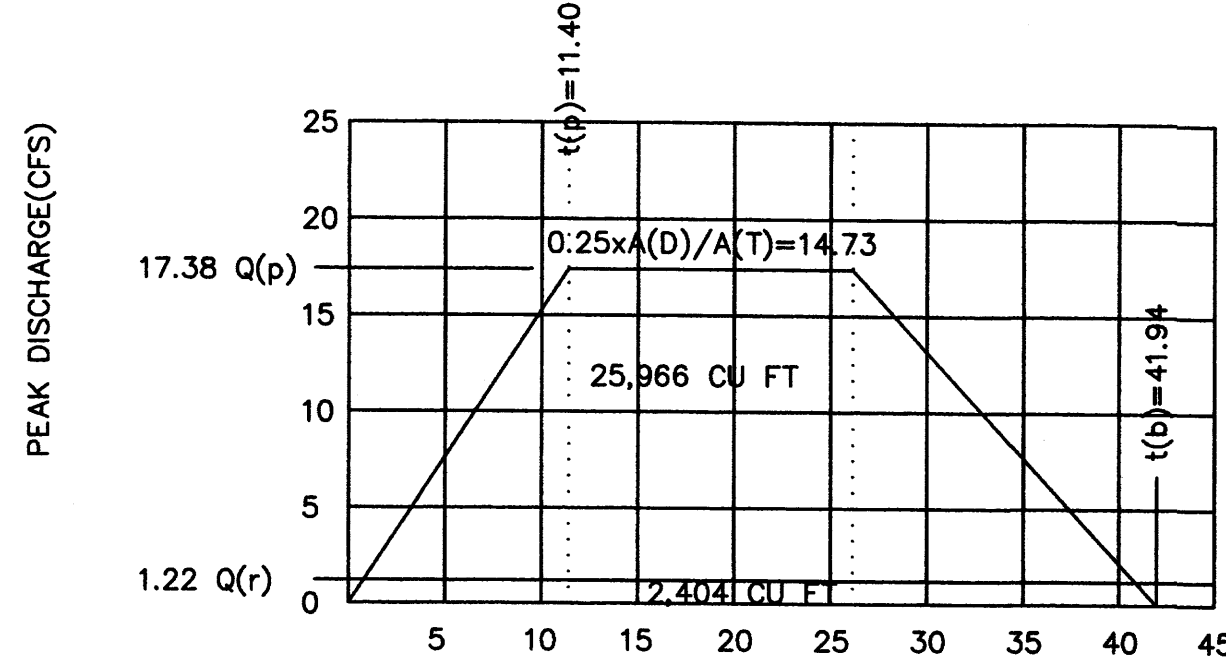
TREATMENT	TYPES OF SURFACES	EXISTING CFS/AC	Qp(10)	PROPOSED CFS/AC	Qp(10)
A	UNDEVELOPED	0.24	0.00	0.24	0.00
B	LANDSCAPING	0.76	0.00	0.76	0.00
C	COMPACTED/VACANT	1.49	5.96	1.49	0.10
D	IMPERVIOUS	2.89	0.00	2.89	11.37
	PEAK DISCHARGE FROM SITE	5.96	CFS	11.47	CFS

TREATMENT	TYPES OF SURFACES	EXISTING E	ExA/TA	PROPOSED E	ExA/TA
A	UNDEVELOPED	0.44	0.00	0.44	0.00
B	LANDSCAPING	0.67	0.00	0.67	0.00
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D	IMPERVIOUS	1.97	0.00	1.97	1.94
	WEIGHTED "E" FACTOR	0.99	IN	1.95	IN

VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8): (ExTA)/12	EXISTING	PROPOSED
0.5885 x 0.99/12	0.33 AC. FT.	14,375 CU.FT
0.5885 x 1.69/12	0.65 AC. FT.	28,370 CU.FT

VOLUME 100 YEAR GENERATED DUE TO NEW DEVELOPMENT	PROPOSED	EXISTING	INCREASE
28,370 CU.FT	14,375 CU.FT	14,375 CU.FT	14,375 CU.FT

## VIII. HYDROGRAPH SHOWING DISCHARGE VOLUME



## GENERAL NOTES:

- An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
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- Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to residential street use.
- Maintenance of these facilities shall be the responsibility of the Owner of property served.

## IX. PROPOSED VOLUMES FOR RAINFALL > 6 HRS:

P(360)=	2.20 IN. (SEE REF. A, TABLE A-2)
P(1440)	2.66 IN.
P(4DAYS)	3.12 IN.
P(10DAY)	3.67 IN.
V(1440)	34,939 Cu.Ft (SEE REF. A, EQ a-7)
V(10DAY)	49,362 Cu.Ft

X. PROPOSED POND VOLUMES REQUIRED:	
TOTAL GENERATED	28,370
RELEASE BY PIPE	2,404
HISTORIC RELEASE	14,375
POND REQUIRED	11,591 CU. FT

XI. POND VOLUMES CALCULATION:	
$V = 1/3 \times D \times H$	28,370
$= 1/3 \times 0.72 \times 50.017$	2,404
	= 12,004 CU. FT PROVIDED

## GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING THE 4.0 ACRE LEASE AREA, BEING THE SOUTHERLY PORTION OF TRACT 163, 164, AND 165 AIRPORT UNIT ARE CONTAINED HEREON:

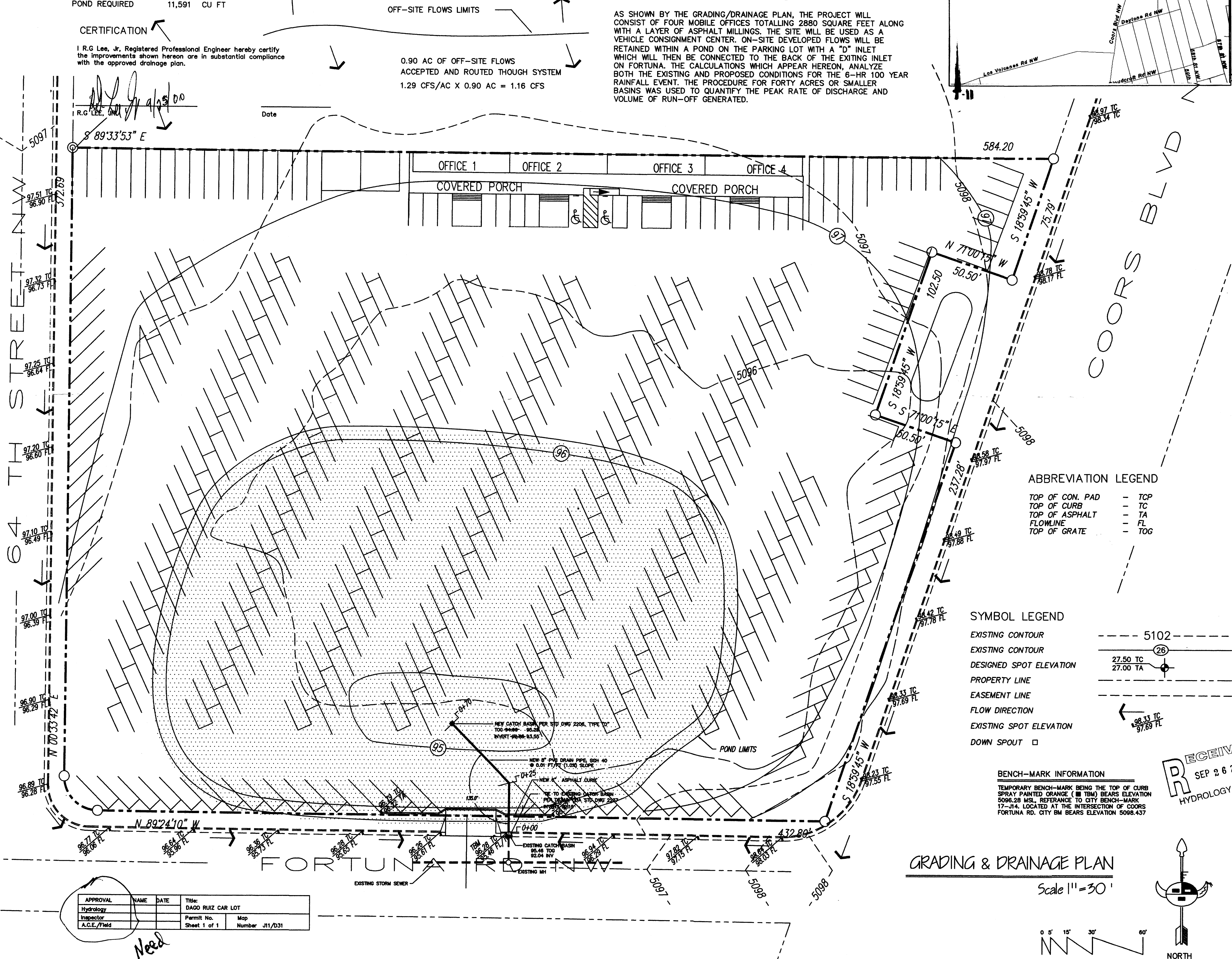
- VICINITY MAP
- FIRM FLOOD MAP
- DRAINAGE CALCULATIONS

## EXISTING CONDITIONS

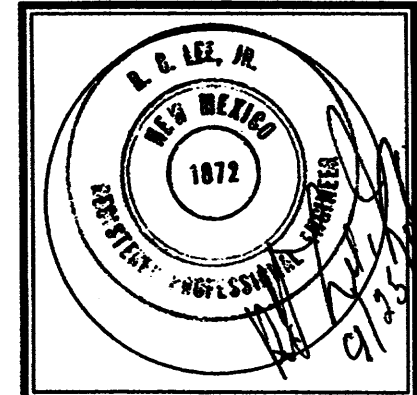
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## PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF FOUR MOBILE OFFICES TOTALING 2880 SQUARE FEET ALONG WITH A LAYER OF ASPHALT MILLINGS. THE SITE WILL BE USED AS A VEHICLE CONSIGNMENT CENTER. ON-SITE DEVELOPED FLOWS WILL BE RETAINED WITHIN A POND ON THE PARKING LOT WITH A "D" INLET WHICH WILL THEN BE CONNECTED TO THE BACK OF THE EXISTING INLET ON FORTUNA. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE BOTH THE EXISTING AND PROPOSED CONDITIONS FOR THE 6-HR 100 YEAR RAINFALL EVENT. THE PROCEDURE FOR FORTY ACRES OR SMALLER BASINS WAS USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.



APPROVAL	NAME	DATE	TITLE
Hydrology			DAGO RUIZ CAR LOT
Inspector			Permit No.
A.C.E./Field			Map Number J11/D31



JOB NO. 00.0254520

5 APRIL 2000

REVISIONS

16 JUNE 2000

GRADING & DRAINAGE PLAN

Sheet Title

Checked By: R.G.

HOOD & COMPANY

DEVELOPMENT CONSULTANTS - GENERAL CONTRACTORS

516 Tomastis St. NE Albuquerque, NM 87103 (505) 266-5397

DAGO RUIZ CAR LOT

FORTUNA AND COORS

ALBUQUERQUE, NEW MEXICO

SHEET NO.

C-2