HYDROLOGY F22/D2~~9~~B25A 1 PLAN

F22/D29

1 PLAN

CITY OF ALBUQUERQUE
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B 24 C 20 B 15 A 12 | CITY OF ALBUQUERQUE C D

DRAINAGE PLAN

WHALE OF A WASH

MONTGOMERY

LOCATION AND EXISTING CONDITION:

The site is located approximately 300 feet west of the intersection of tramway boulevard and montgomery boulevard N.E. containing approximately 0.5189 acres of leased property within parcel 2-a-1. The site is mostly undeveloped and slopes from the northeast to the southwest with an average slope of 6.0 percent. Storm runoff from the site currently flows across the west lease line, through the west property, and is then collected into Montgomery Boulevard. Approximately 200 feet west of Bermuda Drive (2100' west of the site), all storm runoff from Montgomery Boulevard is intercepted by the Embudito Arroyo. (System 301-Albuquerque Master Drainage Study, AMDS). Existing capacity is 440 cfs and required capacity is 110 cfs. The site does not contribute to a 100 year flood zone.

Off-site runoff enters the site from the north and east properties.

PROPOSED CONDITION:

Proposed development of the site includes a small building with 7 car wash bays, associated parking and landscaping. Storm runoff will be routed through the site to the west lease line where an access/drainage easement will be required. Storm runoff will be collected in the access/drainage easement and discharge onto Montgomery Boulevard via a drivepad. Off-site runoff will be routed along the east and north property lines and continue to discharge onto Montgomery Boulevard.

Ponding will not be incorporated into the site since downstream capacity exists at the intersection of Montgomery Boulevard and the Embudito Arroyo.

CALCULATIONS:

Area = 0.5189 acres
I = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.55 in. Plate 22.2 D-1
i = (2.2)(2.55) = 5.61 in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	COMPOSITE "C"=CXA/A
Streets, Drives, Walks	0.95	0.01	0.01	
Roofs	0.90	-0-	-0-	
Lawns & Landscaping	0.25	-0-	-0-	
Undeveloped	0.40	0.51	0.20	
TOTAL		0.52	0.21	0.40

Q(100) = (0.40)(5.61)(0.5189) = 1.16 cfs
Q(10) = (0.657)(1.16) = 0.77 cfs
CN = 70 Plate 22.2 C-2
Direct Runoff = 0.5 in. Plate 22.2 C-4
V(100) = (0.5)(0.5189)(43560)/12 = 942 cu. ft.
V(10) = (0.657)(942) = 619 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	COMPOSITE "C"=CXA/A
Streets, Drives, Walks	0.95	0.40	0.38	
Roofs	0.90	0.08	0.07	
Lawns & Landscaping	0.25	0.04	0.01	
Undeveloped	0.40	-0-	-0-	
TOTAL		0.52	0.46	0.88

Q(100) = (0.88)(5.61)(0.5189) = 2.56 cfs
Q(10) = (0.657)(2.56) = 1.68 cfs
CN = 95 Plate 22.2 C-3
Direct Runoff = 2.1 in. Plate 22.2 C-4
V(100) = (2.1)(0.5189)(43560)/12 = 3956 cu. ft.
V(10) = (0.657)(3956) = 2599 cu. ft.

LEGAL DESCRIPTION:
A PORTION OF PARCEL 2-A-1, PROPERTY OF EDMUND I. RADY..

ACS BENCH MARK: 10-F22, ELEV.=5829.977' THE STATION MARK IS A SQUARE CHISLED ON TOP OF THE CONCRETE CURB LOCATED ON THE NORTH SIDE OF MONTGOMERY BOULEVARD, 420 FEET EAST OF THE JUNCTION WITH BERMUDA DRIVE N.E.

TEMPORARY (PROJECT) BENCH MARK:
A CROSS AT THE SOUTH WEST LEASE CORNER ON THE WATER METER. ELEV.=5897.3 FEET

SURVEY INFORMATION:
SURVEY INFORMATION WAS TAKEN FROM THE TOPOGRAPHIC MAP OF A PORTION OF PARCEL 2-A-1 BY ELDER COMPANY, AUGUST, 1987.

NOTICE TO CONTRACTOR:

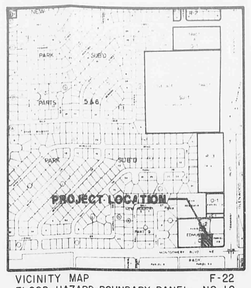
1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986" (COA STND).
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
5. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
6. 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.

NORTH

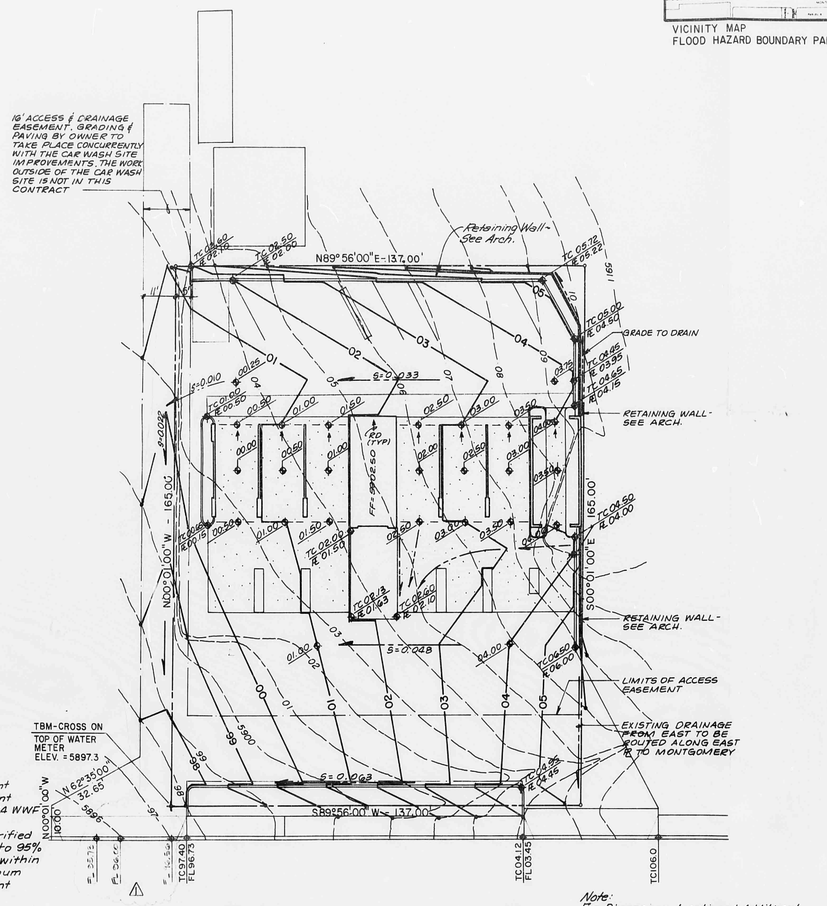
0 20 40 60
SCALE IN FEET

LEGEND

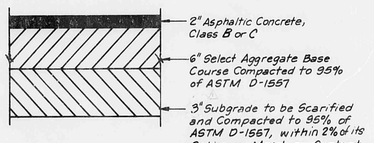
- 97 — EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- 97 — NEW CONTOUR
- NEW SPOT ELEVATION



VICINITY MAP F-22
FLOOD HAZARD BOUNDARY PANEL NO. 18

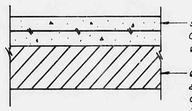


Note:
For Dimensions, Locations & Additional Information See Architectural Site Plan.



ASPHALT PAVING SECTION

Additional specifications for asphaltic concrete and aggregate base course to be taken from the "New Mexico Standard Specifications for Public Works Construction", 1979 Edition, Sections 115 and 302 respectively.



CONCRETE PAVING SECTION

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NOV 16 1987
HYDROLOGY SECTION

VICTOR J. CHAVEZ — STATE OF NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER
10/8/87 Rev 11/3/87

REVISIONS
3 NOV 1987
CONSTRUCTION SET

GRADING & DRAINAGE PLAN - MONTGOMERY SITE

MIMBRES INC
PLANNERS • ARCHITECTS • ENGINEERS
SANTA FE • ALBUQUERQUE

Whale of a Wash
Self Service Carwash Facility
for
Matt Man Inc.

MONTGOMERY SITE GRADING PLAN

BY: JM CK: VC
PROJ: 554
DATE: 14 OCT 87

C-4
OF:

STATUS:

CITY OF ALBUQUERQUE
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