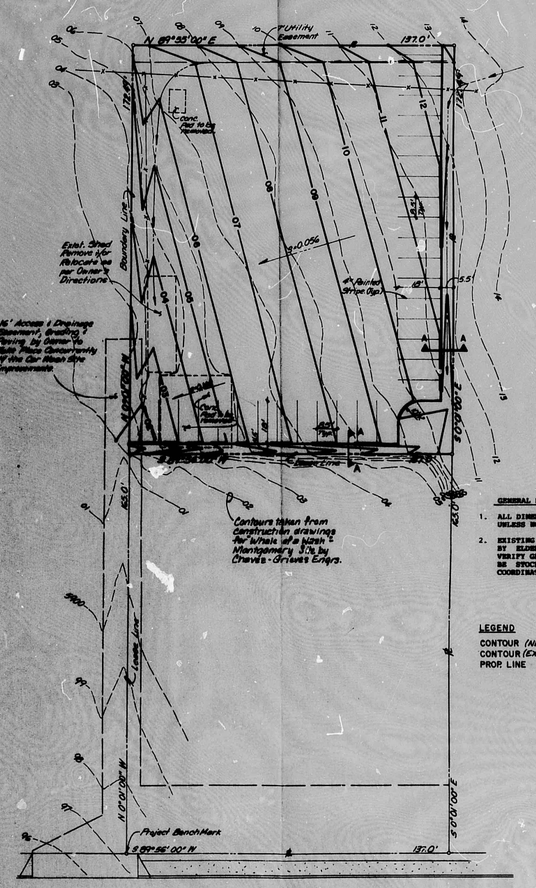
PUBLIC WORKS/HYDROLOGY

F22/D1 ~~1~~ ~~1~~ ~~1~~ 25B



GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
2. EXISTING CONTOURS TAKEN FROM SURVEY BY ELDER CO. AUGUST 1987. FIELD VERIFY GRADES. SOUTH PROPERTY MAY BE STOCK PILING EARTH ON SITE. COORDINATE WITH OWNER.

LEGEND

CONTOUR (NEW) —07—
CONTOUR (EXIST) - - 09 - -
PROP. LINE

MONTGOMERY BLVD, NE

SCALE IN FEET

GRADING & DRAINAGE PLAN – MONTGOMERY PARKING LOT

DRAINAGE PLAN

MONTGOMERY PARKING LOT

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 0.5424 acres 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 property 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, AMDG). 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 parking spaces with associated landscaping. Storm runoff will be routed through the site to the west boundary line where an access/drainage easement is. Storm runoff will be collected in the access/drainage easement and discharge onto Montgomery Boulevard via a driveway. 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 = 0.5424 acres
i = 8.2 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:

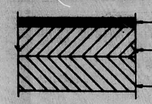
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"% A	COMPOSITE "C"=CEA/A
Streets, Drives, Walks	0.95	0.02	0.02	
Roofs	0.90	0.01	0.01	
Lawns & Landscaping	0.25	-0-	-0-	
Undeveloped	0.40	0.51	0.20	
TOTAL		0.54	0.23	0.43

Q(100) = (0.43)(5.61)(0.5424) = 1.31 cfs
Q(10) = (0.657)(1.31) = 0.86 cfs
CN = 70 Plate 22.2 C-2
Direct Runoff = 0.5 in. Plate 22.2 C-4
V(100) = (0.5)(0.5424)(43560)/12 = 984 cu. ft.
V(10) = (0.657)(984) = 647 cu. ft.

PROPOSED ON-SITE CONDITIONS:

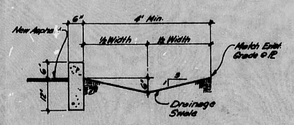
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"% A	COMPOSITE "C"=CEA/A
Streets, Drives, Walks	0.95	0.50	0.48	
Roofs	0.90	-0-	-0-	
Lawns & Landscaping	0.25	0.04	0.01	
Undeveloped	0.40	-0-	-0-	
TOTAL		0.54	0.49	[redacted]

Q(10) = (0.657)(2.77) = 1.82 cfs
CN = 94 Plate 22.2 C-3
Direct Runoff = 2.1 in. Plate 22.2 C-4
V(10) = (0.657)(1.13) = 2.77 cu. ft.

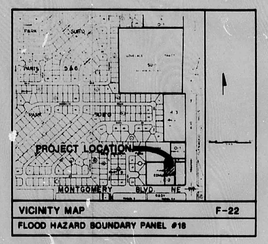


ASPHALT PAVING SECTION

Additional specifications for asphaltic concrete and aggregate base course to be taken from the "New Mexico Standard Specifications for Public Works Construction", 1978 Edition, Sections 115 and 302 respectively.



SECTION A-A



VICINITY MAP F-22

FLOOD HAZARD BOUNDARY PANEL #18

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

BENCH MARK: 10-F22,' ELEV.=5829.977'
THIS BENCH 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.

PROPERTY CORNER MARK:
A [illegible] FOUND AT THE CORNER OF [illegible] ELEV.=5897.3 FEET

BASIS OF BEARINGS:
THE BEARING SYSTEM WAS TAKEN FROM THE TOPOGRAPHIC MAP OF A PORTION OF PARCEL 2-A-1 BY ELDER COMPANY, AUGUST, 1987.

NOTICE TO CONTRACTORS:

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, 1984" (CSS 1984).
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 CONSTRUCTION. SHOULD A CONFLICT ARISE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER ON SUPERVISOR SO THAT RESOLUTION CAN BE REACHED WITH MINIMUM AMOUNT OF DELAY.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR OTHER PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND CARRYING THE SOIL TO RIDE IT FROM BLEEDING.
5. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT RECIRCULATED TO BEING BURNED 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.
7. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO PERFORMING CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING A GRADING/PAVING PERMIT FROM CITY OF ALBUQUERQUE HYDROLOGY SECTION.

RECEIVED DEC 08 1987 HYDROLOGY SECTION

CHAVEZ GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E.
BUILDING C, #201
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7272

SHEET 1 OF 1

GRADING & DRAINAGE PLAN

MONTGOMERY PARKING LOT

JOB NO.:
DATE: 10/29/87
DRAWN: TWT
CHECKED: JMM/VC
REVISED:

PLANS/PLATS ON FILE

FILE DESC: E22/D30

PLANS/PLATS 1

PLAN SHOT TWICE
ONCE OF LABOR
ONCE OF TAPE

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

REV. DATE 3-21-90 EXP.

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.

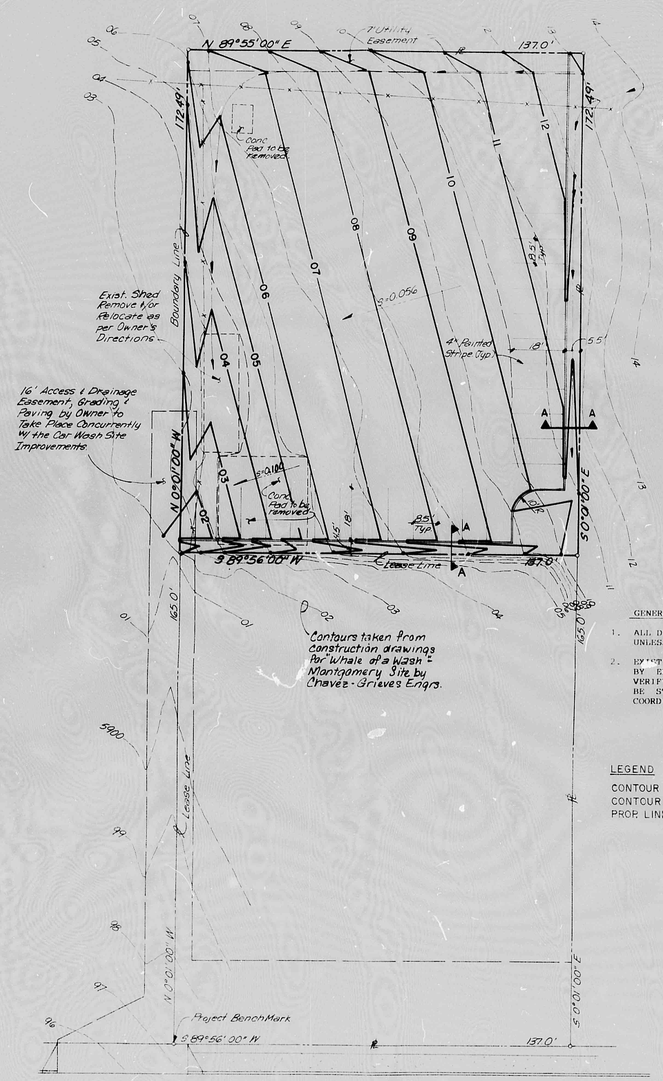
The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR 11/5/92

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires

5D B24 C20 B16 A12 CITY OF ALBUQUERQUE C F



GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
2. EXISTING CONTOURS TAKEN FROM SURVEY BY ELDER CO. AUGUST 1987. FIELD VERIFY GRADES. SOUTH PROPERTY MAY BE STOCK PILING EARTH ON SITE. COORDINATE WITH OWNER.

LEGEND

CONTOUR (NEW) —07—
CONTOUR (EXIST) - - -03- - -
PROP. LINE ℄

DRAINAGE PLAN

MONTGOMERY PARKING LOT

LOCATION AND EXISTING CONDITION:

The site is located approximately 100 feet west of the intersection of tramway boulevard and montgomery boulevard N.E. containing approximately 0.5424 acres 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 property 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 of 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 parking spaces with associated landscaping. Storm runoff will be routed through the site to the west boundary line where an access/drainage easement is. 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 = 0.5424 acres
i = 7.2 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:

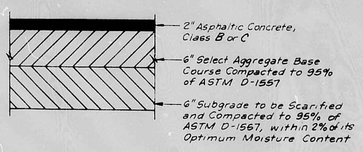
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	COMPOSITE "C"=CXA/A
Streets, Drives, Walks	0.95	0.02	0.02	
Roofs	0.90	0.01	0.01	
Lawns & Landscaping	0.25	-0-	-0-	
Undeveloped	0.40	0.51	0.20	
TOTAL		0.54	0.23	0.43

Q(100) (0.43)(5.61)(0.5424) = 1.31 cfs
Q(10) (0.657)(1.31) = 0.86 cfs
CN = 70 Plate 22.2 C-2
Direct Runoff = 0.5 in. Plate 22.2 C-4
V(100) (0.5)(0.5424)(43560)/12 = 984 cu. ft.
V(10) (0.657)(984) = 647 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	COMPOSITE "C"=CXA/A
Streets, Drives, Walks	0.95	0.50	0.48	
Roofs	0.90	-0-	-0-	
Lawns & Landscaping	0.25	0.04	0.01	
Undeveloped	0.40	-0-	-0-	
TOTAL		0.54	0.49	**0.91**

Q(100) = (0.91)(5.61)(0.5424) = 2.77 cfs
Q(10) (0.657)(2.77) = 1.82 cfs
CN = 96 Plate 22.2 C-3
Direct Runoff = 2.1 in. Plate 22.2 C-4
V(100) = (2.1)(0.5424)(43560)/12 = 4135 cu. ft.
V(10) (0.657)(4135) = 2717 cu. ft.



ASPHALT PAVING SECTION

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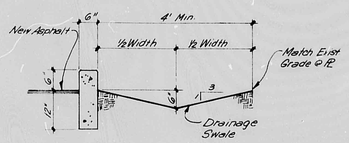
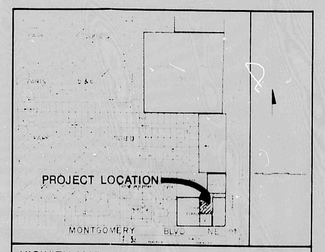


SECTION A-A



VICINITY MAP F-22
FLOOD HAZARD BOUNDARY PANEL #18

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

ACS BENCH MARK: 10-F22, ELEV.=5879.977'
THE STATION MARK IS A SQUARE CHISELED 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.
7. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR AQUIRING A GRADING/PAVING PERMIT FROM CITY OF ALBUQUERQUE HYDROLOGY SECTION.

RECEIVED DEC 08 1987 HYDROLOGY SECTION

MONTGOMERY PARKING LOT

JOB NO
DATE 12/8/87
DRAWN TMT
CHECKED JSM/VC
REVISED

SHEET TITLE GRADING & DRAINAGE PLAN

CHAVEZ GRIEVES / CONSULTING ENGINEERS INC.
1400 MONTGOMERY N.E.
BUILDING C, #201
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7570

SHEET 1 OF 1

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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

R# 2a DATE 3-26-02 DOP

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR 11/5/02

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/07/02

GRADING & DRAINAGE PLAN – MONTGOMERY PARKING LOT

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D