PUBLIC WORKS/HYDROLOGY

F17/D13B

DRAINAGE PLAN
MONTGOMERY PLAZA SHOPPING CENTER
BUILDING "A"

LOCATION AND EXISTING CONDITION:

The site is located at the northwest corner of the intersection of Montgomery Boulevard and San Mateo Boulevard NE containing approximately 0.91 acres (limits of this phase of construction). The site is an existing asphalt parking lot sloping from the north to the south with an average slope of 4.25 percent. Existing storm water runoff flows through the site and is intercepted by Montgomery Boulevard.

PROPOSED CONDITION:

Proposed development of the site includes a new building with associated parking and landscaping. Storm water runoff will be allowed to proceed runoff free discharge to Montgomery Boulevard since the rate of runoff will be decreased due to the new development.

CALCULATIONS:

Area = 0.91 acres
i = 2.2 in/hr Plate 22.2 D-2
Average annual rainfall = 7.2 in. Plate 22.2 D-1
i = (2.2)(12.2) = 4.84 in./hr.

EXISTING ON-SITE CONDITIONS:

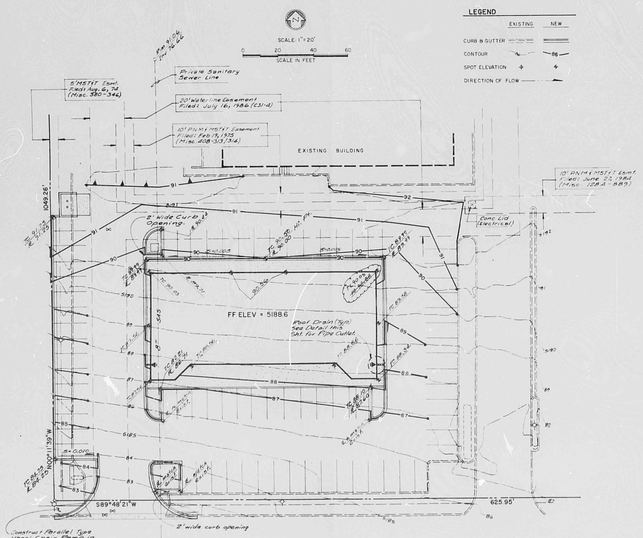
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"*A	COMPOSITE "C"=C(A)/A
Streets, Drives, Walks	0.95	0.91	0.86	
Roofs	0.90	0	0	
Lawns & Landscaping	0.25	0	0	
Undeveloped	0.40	0	0	
TOTAL		0.91	0.86	0.95

Q(100) = (0.95)(4.84)(0.91) = 4.18 cfs
Q(10) = (0.6571)(4.95) = 2.75 cfs
CN = 98 Plate 22.2 C-2
Direct Runoff = 2.05 in. Plate 22.2 C-4
V(100) = (2.05)(0.91)(43560)/12 = 6772 cu. ft.
V(10) = (0.6571)(6772) = 4449 cu. ft.

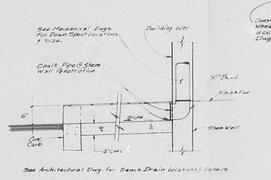
PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"*A	COMPOSITE "C"=C(A)/A
Streets, Drives, Walks	0.95	0.73	0.69	
Roofs	0.90	0.16	0.14	
Lawns & Landscaping	0.25	0.02	0.01	
Undeveloped	0.40	0	0	
TOTAL		0.91	0.84	0.92

Q(100) = (0.92)(4.84)(0.91) = 4.05 cfs
Q(10) = (0.6571)(4.95) = 2.66 cfs
CN = 96 Plate 22.2 C-3
Direct Runoff = 1.75 in. Plate 22.2 C-4
V(100) = (1.75)(0.91)(43560)/12 = 5781 cu. ft.
V(10) = (0.6571)(5781) = 3798 cu. ft.



NOTE
Replace All Asphalt Necessary To Achieve New Grades. Any Asphalt Disposed By Construction. Provide A Clean Continuous Connection. (Typ)

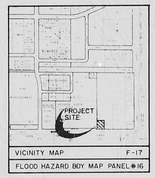


ROOF DRAIN PIPE OUTLET @ TRENCH DRAIN (TYP)

N.T.S.

LEGEND

	EXISTING	NEW
CURB & GUTTER		
CONTOUR	96	96
SPOT ELEVATION	+	+
DIRECTION OF FLOW		



VICINITY MAP F-17

FLOOD HAZARD BOY MAP PANEL #16

LEGAL DESCRIPTION:
TRACT D OF THE MONTGOMERY PLAZA SUBDIVISION

BENCH MARK: (ACS & PROJECT)
ACS SURVEY MONUMENT STAMPED "5-F18-A 1976" LOCATED ON THE MEDIAN 82 FEET EAST OF THE INTERSECTION OF MONTGOMERY BLVD. ELEVATION=5051.826

SURVEY INFORMATION:
SURVEY DATA TAKEN ON A TOPOGRAPHIC SURVEY PREPARED BY BOHANNANHUSTON, INC. JANUARY, 1988.

NOTICE TO CONTRACTOR:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER PUBLIC RIGHT-OF-WAY OR OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986" (COA STWD).

2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 761-1234, 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 IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

4. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND IF ANY EXISTING LINES ARE SHOWN, MOST ARE SHOWN BASED ON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THEREIN, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF ANY EXCAVATION OR WORK. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

5. 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.

6. 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.

7. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

8. CURB AND GUTTER SHOWN AS EXISTING AND W/T TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

9. WHEN CONSTRUCTION UNDER THIS PROJECT CONNECTS TO EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE AN EASY RIDING CONNECTION.

10. 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.

11. CONTRACTOR SHALL PROVIDE 12" SUBGRADE PREPARATION UNDER ALL NEW PAVEMENT, CURBS AND GUTTERS, VALLEY GUTTERS AND CONCRETE FILLETS.

12. WHEN ABUTTING NEW PAVEMENT TO EXISTING, CUT BACK EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT, AND MATCH NEW TO EXISTING.

13. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHENEVER A NEW CURB RETURN IS CONSTRUCTED.

DATE	4-28	DRAWN	K.L.S.
CHECKED		JWM / AJC	

BUILDING "A"
MONTGOMERY PLAZA SHOPPING CENTER
ALBUQUERQUE, N.M.

STRUCTURE MALLORY PEARL & CANFIELD, P.A.
ARCHITECTS 115 LAMBERT S.E. ALBUQUERQUE, NEW MEXICO 87108

APPROVED
CITY ENGINEER
HYDROLOGY SECTION

BY [illegible] DATE 5-19-88 OR 1788

CITY OF ALBUQUERQUE

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DIRECTOR

Rebecca Duran
NOTARY PUBLIC

OFFICIAL SEAL
Rebecca Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 6/12/89

CITY OF ALBUQUERQUE
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PLANS/PLATS ON FILE

FILE DESC: F17/D13B

PLANS/PLATS 1

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