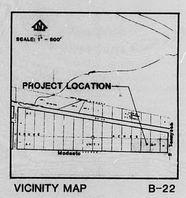
PUBLIC WORKS/HYDROLOGY

B22/D8



VICINITY MAP B-22

LEGAL DESCRIPTION
LOT 31, BLOCK A, TRACT 2, UNIT 1
NORTH ALBUQUERQUE ACRES

ADDRESS

12409, 12417 & 12425 MODESTO NE

BENCHMARK

CITY OF ALBUQUERQUE BRASS CAP
1-C23 LOCATED ON THE EAST SIDE OF TRAMWAY
800' SOUTH OF LIVE OAK ROAD
ELEVATION = 6082.97

SCALE 1" = 40'

LEGEND

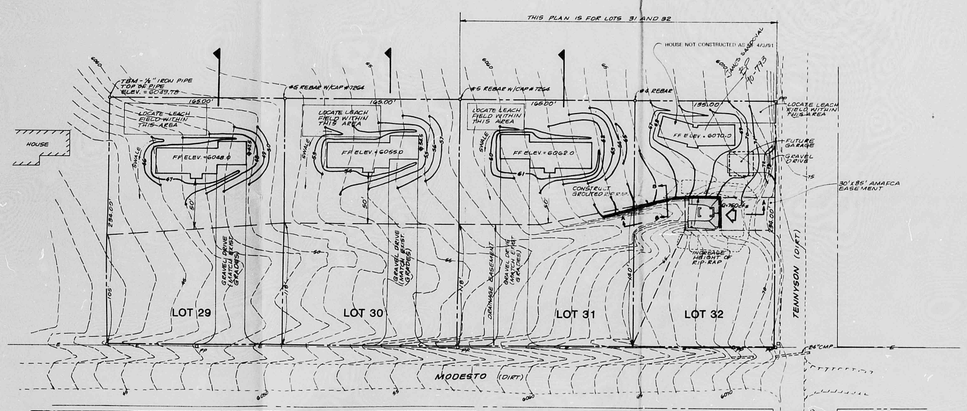
EXISTING	NEW	DESCRIPTION
		CURB & GUTTER
		CURB
45.2 +	45.2	SPOT ELEVATION
		CONTOUR
		BUILDING
		PROPERTY LINE
		ROOF DRAIN
		RUNDOWN
		BASIN DIVISION LINE

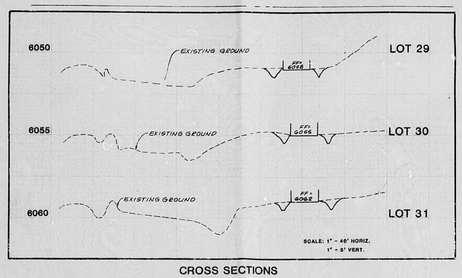
EROSION CONTROL MEASURES

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO THE PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS MAY INCLUDE CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY SOIL THAT BLOWS ONTO THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTABLE TO BEING WASHED DOWN THE STREET.
3. THE CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

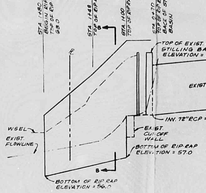
CONSTRUCTION NOTES

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION,THE CONTRACTOR SHALL CONTACT "ONE CALL" AT 260-1990 FOR THE LOCATION OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. ANY UTILITY CONFLICTS MUST BE RESOLVED WITH A MINIMUM AMOUNT 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 PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

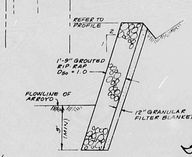




CROSS SECTIONS



SECTION A
NTS



SECTION B
NTS

It appears that the existing construction is consistent with the approved plan based on visual observation of exhibit work. No as-built drawings or construction observations were performed by me or under my direct supervision. Based on the above I recommend Certification. 4/5/91

Bernalillo County Public Works 4/5/91

NOTE:
The contours on this plan were derived from a field survey performed in May 1990. I have inspected the site and there is no evidence of filling, excavation or grading as of May 29, 1990.

RECEIVED
MAR 28 1991
HYDROLOGY DIVISION

REGISTERED PROFESSIONAL ENGINEER
THOMAS T. MANN, JR.
3792
NEW MEXICO
PROFESSIONAL LAND SURVEYOR
THOMAS T. MANN, JR.
3792
NEW MEXICO

NO.	DESCRIPTION	DATE
	REVISIONS	

GRADING AND DRAINAGE PLAN
LOT 31, BLOCK A
UNIT 1, NORTH ALBUQUERQUE ACRES

THE MANN COMPANY, INC.
8500 MOUNTAIN ROAD N.E. SUITE 102
ALBUQUERQUE, NEW MEXICO 87110
(505) 298-3568

JOB NO.	DATE	DESIGN BY	DRAWN BY	CHECKED BY	SHEET NUMBER
00221	5-90	TTM	LAH	TTM	1 OF 1

DRAINAGE PLAN

The following items concerning the Grading and Drainage Plan for Lots 29, 30 and 31, Block A, Unit 1, North Albuquerque Acres are contained hereon.

1. Vicinity Map
2. Grading Plan
3. Calculations

The sites, as shown by the Vicinity Map, are located on Modesto west of Tramway Boulevard. The land slopes from east to west at approximately 5 percent. An arroyo crosses the southern portion of each lot. A portion of each lot is within a flood hazard zone. The sites are higher than the lands to the north , west and south, but lower than the lands to the east. Therefore, a minor amount of runoff can enter each site from the east.

The Grading Plan shows 1) the existing and proposed grades indicated by spot elevations and contours at 1'-0" intervals, 2) continuity between existing and proposed elevations, 3) the limit and character of existing improvements and 4) the limit and character of proposed improvements. A single family dwelling will be constructed on each lot. It is anticipated that there will be minimal landscaping. A gravel drive will be constructed from Modesto to each garage. A drainage easement will be granted to AMAFCA for the arroyo. Each house has been set back from the arroyo as far as practical to safeguard against possible erosion of the arroyo during a storm.

The Calculations, which appear below, analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. This analysis has been done in accordance with the Interim Drainage Design Criteria for Bernalillo County, April 1990. As shown by these calculations, there will be an increase in the rate and volume of runoff due to the construction. However, the increases are minimal when compared to the existing conditions in the basin. The runoff will enter the arroyo and be dissipated well before the main flow arrives from the upper watershed.

CALCULATIONS

Parameters

Zone (from Table 1) = 4
P_{360} (from Table 2) = 2.90 inches
Existing Land Treatment (from Table 4) = A
Developed Land Treatment (from Table 4) = A, C & D
Area/Lot = 38610 s.f. = 0.89 acres

Excess Precipitation - Existing

Weighted E (from Table 8) = 0.66 inches
V_{360} = 0.66/12X38610 = 2124 c.f.

Excess Precipitation - Developed

Weighted E (from Table 8)
E = (0.66X36000 + 1.13X600 + 2.57X2150)/38610 = 0.77 inches
V_{360} = 0.77/12X38610 = 2477 c.f.

Peak Discharge - Existing

Q (from Table 9) = 2.26 cfs/acre
Q_p = QA = 2.26X0.89 = 2.0 cfs

Peak Discharge - Developed

Q (from Table 9)
Q = (2.26X36000 + 3.94X600 + 5.74X2150)/38610 = 2.47 cfs/acre
Q_p = QA = 2.47X0.89 = 2.2 cfs

Comparison

ΔV_{360} = 2477 - 2124 = 353 c.f. (increase)
ΔQ_p = 2.2 - 2.0 = 0.2 cfs (increase)

NOTE:

1. All construction shall conform to the City of Albuquerque Standard Specifications for Public Works Construction, 1986.
2. Filter blanket gradation shall be as follows:

Seive Size	% Passing
1"	100
3/4"	80 - 100
No.4	30 - 60
No.10	20 - 45
No.200	0

CERTIFICATION

THIS IS TO CERTIFY THAT THE GRADING AND DRAINAGE WAS CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THIS PLAN.

THOMAS T. MANN, JR., NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

4-3-91

REGISTERED PROFESSIONAL ENGINEER
THOMAS T. MANN, JR.
3792
NEW MEXICO
PROFESSIONAL LAND SURVEYOR
THOMAS T. MANN, JR.
3792
NEW MEXICO

R# 24 DATE 3/14/02 DOD

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
My Commission Expires 11/15/02

CITY OF ALBUQUERQUE
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PLANS/PLATS ON FILE

FILE DESC: B22/D8

PLANS/PLATS 1

E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F