



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 20, 2000

Levi J. Valdez, P.E.
George T. Rodriguez Dev. Consultant
12800 San Juan NE
Albuquerque, Nm 87123

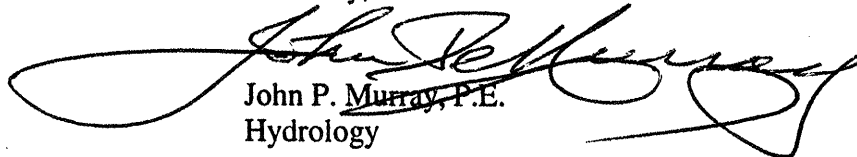
**RE: MATHEW CHAVEZ- TRACTS "Z-1" & "Z-2", SHAW ADDITION (K1-D46B).
ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY APPROVal,
ENGINEER'S STAMP DATED OCTOBER 10, 2000.**

Dear Mr. Valdez:

Based on the information provided on your October 11, 2000 submittal, the above referenced project is approved for Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,



John P. Murray, P.E.
Hydrology

c: Whitney Reiersen
✓ File



City of Albuquerque

December 9, 1999

Levi J. Valdez, P.E.
George T. Rodriguez Dev. Consultants
12800 San Juan NE
Albuquerque, NM 87123

**RE: MATHEW CHAVEZ - TRACTS "Z-1" & "Z-2", SHAW ADDITION (K19- D46B).
DRAINAGE PLAN FOR BUILDING PERMIT AND PAVING PERMIT APPROVALS.
ENGINEER'S STAMP DATED OCTOBER 4, 1999.**

Dear Mr. Valdez:

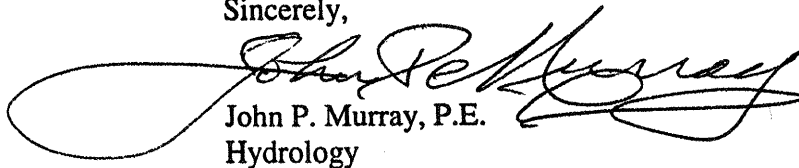
Based on the information provided on your October 18, 1999 submittal, the above referenced project is approved for Building Permit. (BP also covers Paving Permit.)

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

c: ☒ WR
☒ File

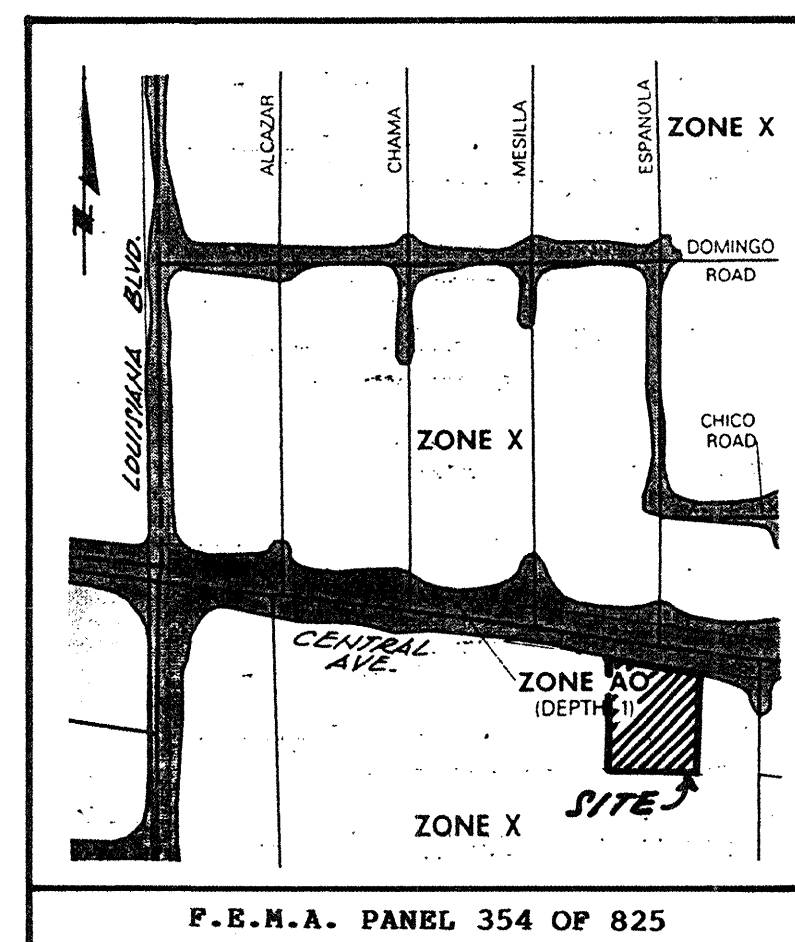
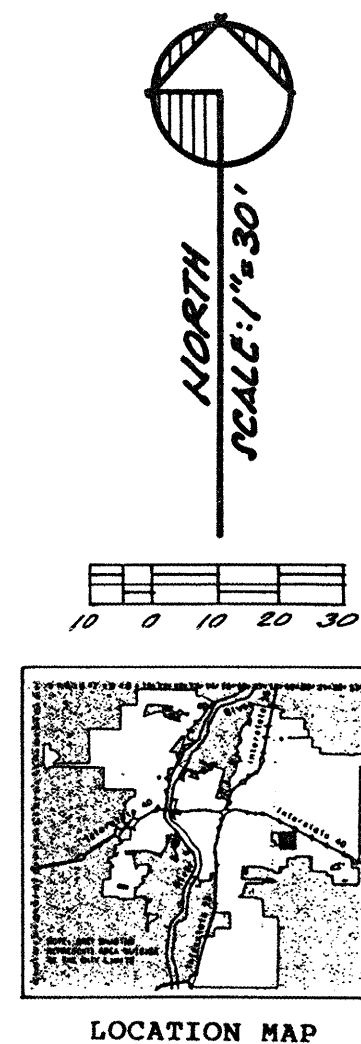
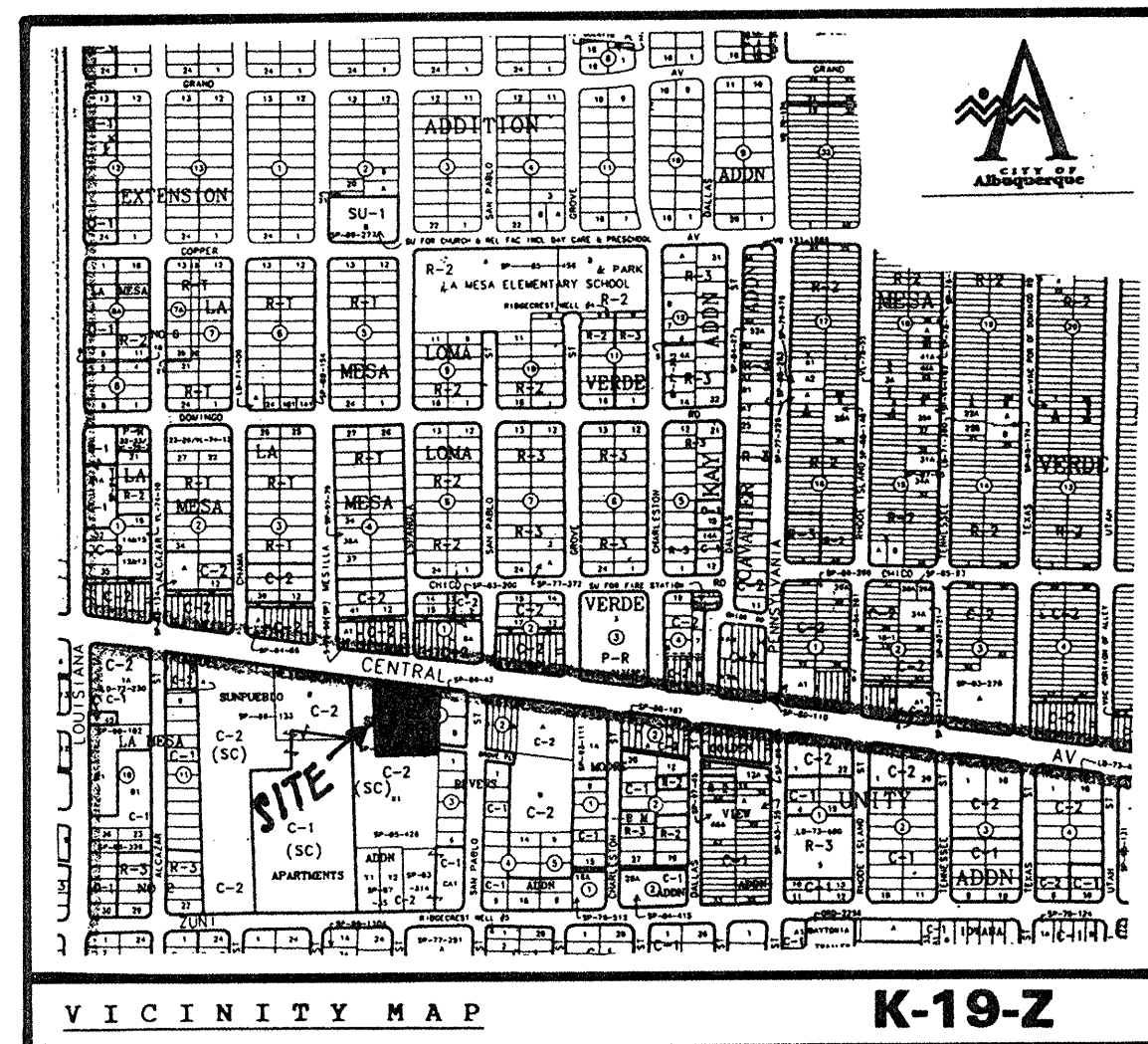


TABLE A-10. PEAK INTENSITY (NHR at $t_c = 0.2$ hour)

Zone	Intensity	100-YR
1	4.70	[1.84, 3.14]
2	5.05	[2.04, 3.41]
3	5.39	[2.21, 3.55]
4	5.61	[2.34, 3.83]

TABLE A-8. PEAK DISCHARGE (cfs/acre)

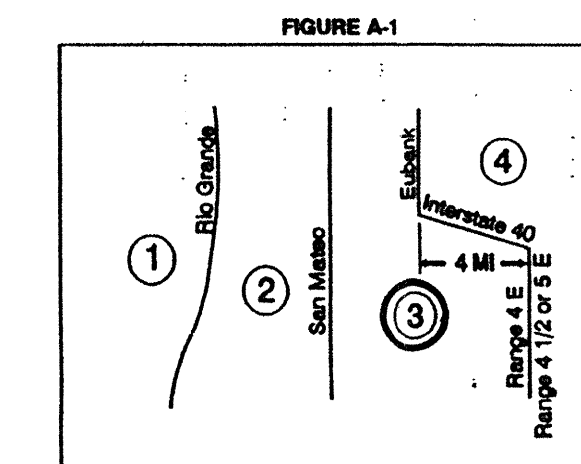
Zone	Treatment				100-YR
	A	B	C	D	
1	1.29	2.03	2.87	4.37	
	[0.00, 0.24]	[0.03, 0.79]	[0.47, 1.49]	[1.89, 2.89]	
2	1.56	2.28	3.14	4.70	
	[0.00, 0.38]	[0.08, 0.95]	[0.60, 1.71]	[1.86, 3.14]	
3	1.87	2.60	3.45	5.02	
	[0.00, 0.58]	[0.21, 1.19]	[0.78, 2.00]	[2.04, 3.39]	
4	2.20	2.92	3.73	5.25	
	[0.05, 0.87]	[0.38, 1.45]	[1.00, 2.28]	[2.17, 3.67]	

A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

TABLE A-1. PRECIPITATION ZONES

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



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

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

TABLE A-4. LAND TREATMENTS

Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands. Unfertilized arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective subareas. In lieu of specific measurement for treatment D, the areal percentages in TABLE A-5 may be employed.

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:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SUBJECT SITE AND ENTERING ADJACENT PROPERTIES.
- 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.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT FROM PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SUBJECT SITE AND DEPOSITED THEREON.

CONSTRUCTION NOTES:

- 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.
- 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.
- 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.
- ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

LEGEND:

TOP OF CURB ELEVATION = 72.36.46
CURB FLOWLINE ELEVATION = 72.35.80
EXISTING SPOT ELEVATION = 39.20
EXISTING CONTOUR ELEVATION = 38.0
PROPOSED SPOT ELEVATION = 41.20
PROPOSED CONTOUR ELEVATION = 41.4
PROPOSED OR EXISTING CONCRETE SURFACE =
EXISTING FENCE LINE =

2" ASPHALTIC CONCRETE SURFACE COURSE, 1000 # STABILITY

6" SUBGRADE COMPACTED @ 95% A.S.T.M. D-1557

TYPICAL PAVEMENT SECTION

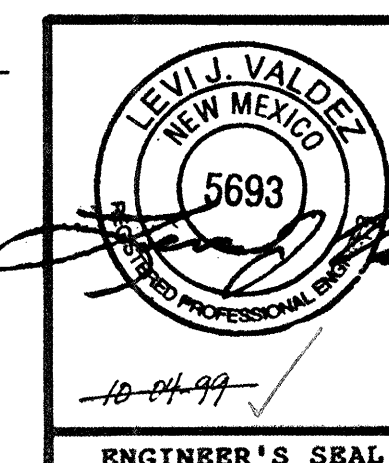
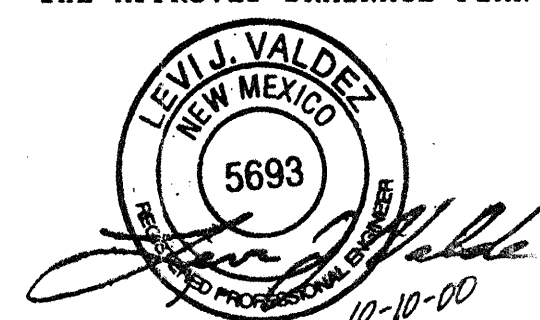
SCALE: 1" = 1'-0"

GENERAL NOTES:

- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON.

ENGINEER'S CERTIFICATION:

I, LEVI J. VALDEZ, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER NO. 5693, LICENSED AND REGISTERED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT AN ACTUAL ON THE GROUND FIELD SURVEY OF THE GRADES OF THE NEW IMPROVEMENTS SHOWN HEREON VERIFY THAT SAID IMPROVEMENTS WERE CONSTRUCTED IN "SUBSTANTIAL COMPLIANCE" WITH THE APPROVED DRAINAGE PLAN FOR SAID SITE.



DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON THE SOUTH SIDE OF CENTRAL AVENUE (EAST), APPROXIMATELY 4 BLOCKS EAST OF LOUISIANA BLVD., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

THE SUBJECT SITE, 1.) IS AN EXISTING FULLY DEVELOPED COMMERCIAL PROPERTY THAT AT THE PRESENT TIME HAS AN ADDITION TO THE EXISTING BUILDING BEING CONSTRUCTED THEREON, AND WILL BE HAVING AN EXISTING SMALL UNPAVED AREA TO BE PAVED, 2.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 3.) DOES CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES TO THE WEST OF ADJACENT TO THE SUBJECT PROPERTY; HOWEVER, THESE FLOWS ARE ACCEPTED THROUGH A RECORDED DRAINAGE EASEMENT AS SHOWN ON THE PLAT OF RECORD OF SAID PROPERTIES, 4.) IS ITSELF NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN; HOWEVER, A DESIGNATED "10-1" DEPTH FLOOD ZONE IS LOCATED WITHIN THE EAST CENTRAL AVENUE RIGHT-OF-WAY AS SHOWN ON F.E.M.A. FIRM FLOOD INSURANCE RATE MAP PANEL 354 OF 825, DATED SEPTEMBER 20, 1996.

CALCULATIONS:

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2., DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DATED JANUARY 1993.

SITE AREA: 1.70 ACRE

PRECIPITATION ZONE: THREE (3), TABLE A-1

PEAK INTENSITY: IN./HR. AT T_c = TWELVE (12) MINUTES, 100-YR. = 5.39

LAND TREATMENT METHOD FOR THE CALCULATION OF " Q_p ", TABLES A-8 & A-9

"LAND TREATMENT FACTORS", TABLE A-4

EXISTING CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.14	X 3.45	= 0.48
D	1.56	X 5.02	= 7.83

" Q_p " = 8.31 CFS

PROPOSED CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.06	X 3.45	= 0.21
D	1.64	X 5.02	= 8.23

" Q_p " = 8.44 CFS *** INCREASE = 0.13 CFS

LEGAL DESCRIPTION: TRACTS "Z-1" & "Z-2", SHAW ADDITION, ALBUQUERQUE, NEW MEXICO.

BENCH MARK REFERENCE: ACS STATION "15-K19", LOCATED AT THE NORTHWEST CORNER OF CENTRAL AVENUE AND ESPANOLA STREET N.E., M.S.L. ELEVATION OF 5337.858; PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON.

(ENGINEER'S CERTIFICATION)
DRAINAGE "AS-BUILT"

OF

TRACTS "Z-1" & "Z-2"

SHAW ADDITION

(7500 CENTRAL AVE. S.E.)

ALBUQUERQUE, NEW MEXICO

SEPTEMBER, 1999 (OCTOBER, 2000)

