DRAINAGE INFORMATION SHEET

PROJECT TITLE: Woodworking Gallery Zo	ORTHOLOGICAL CONTRACTOR OF THE ACTION OF THE SECOND CONTRACTOR OF THE S	
LEGAL DESCRIPTION: Lot 5 Block C		
CITY ADDRESS: 702 Broadway S. B.	<del>-</del>	
ENGINEERING FIRM: RIVERS Engin serin		
•	E. PHONE: 881-3419	
· · · · · · · · · · · · · · · · · · ·		
OWNER: Max Chavez		
	PHONE: 242 - 2935	
ARCHITECT: Raymond Quintana	CONTACT: Raymond Quintann	
ADDRESS: 2511 Silver S.E.	PHONE: 256 - 1034	
SURVEYOR:	CONTACT:	
ADDRESS:	PHONE:	
CONTRACTOR:		
ADDRESS:	PHONE: <u>MEGETTALE</u> M	
PRE-DESIGN MEETING:	JUL 01 1987 )	
YES	DRB NO. HYDROLOGY SECTION	
	EPC NO.	
COPY OF CONFERENCE RECAP SHEET PROVIDED	PROJECT NO	
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:	
DRAINAGE REPORT	SKETCH PLAT APPROVAL	
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL	
CONCEPTUAL GRADING & DRAIN. PLAN	SITE DEVELOPMENT PLAN APPROVAL	
GRADING PLAN	FINAL PLAT APPROVAL	
EROSION CONTROL PLAN	✓ BUILDING PERMIT APPROVAL	
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT APPROVAL	
	CERTIFICATE OF OCCUPANCY APPROVAL	
۸ ۵	ROUGH GRADING PERMIT APPROVAL	
DATE SUBMITTED: July 1, 1987	GRADING/PAVING PERMIT APPROVAL	
BY: Laul a. Kiren	d Grading/Paving PERMIT APPROVAL  OTHER (SPECIFY)	



## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz Mayor UTILITY DEVELOPMENT DIVISION HYDROLOGY SECTION (505) 768-2650

July 8, 1987

Raul A. Rivera, P.E.
Rivera Engineering
2624 Valencia Drive, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR MAX CHAVEZ WOODWORKING GALLERY (K-14/D15) ENGINEER'S STAMP DATED JUNE 26, 1987

Dear Mr. Rivera:

Based on the information provided on your submittal of July 1, 1987, the above referenced plan is approved for Building Permit.

Please be advised that no developed runoff is allowed to cross a public sidewalk. A copy of this plan must be attached to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Bernie J. Montoya, C.E.

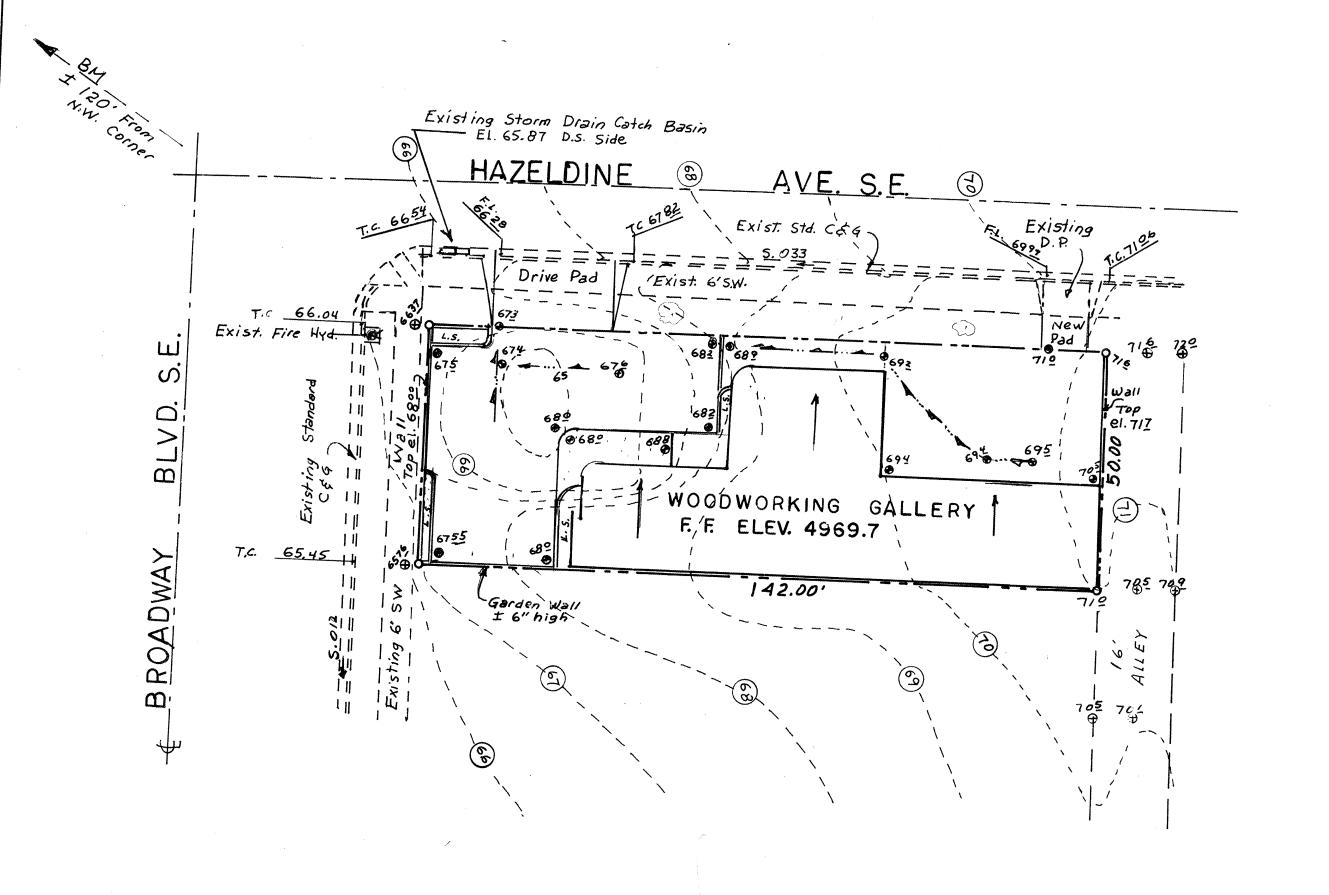
Engineering Assistant

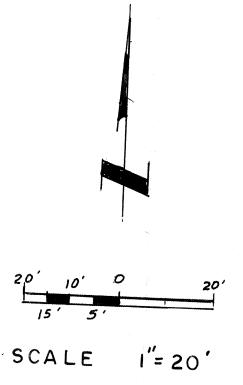
BJM/bsj

**PUBLIC WORKS DEPARTMENT** 

**ENGINEERING GROUP** 

Telephone (505) 768-2500





CALCULATIONS

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Property boundary lines

Existing contour lines

Existing spot elevations

Proposed spot elevations

Proposed swales

Proposed sidewalks

HYDROLOGY:

Used rational formula to Compute Q & SCS procedure for Volume.

Soils: CU (Map 30 SCS standard Soil Survey Bern. Co.)

Cut & Fill soil - Hydrologic Soil Group A (Table 8 S.S.)

Total Area = 142' x 50' = 7,100 S.F. = 0.163 acres

Rainfall runoff Ro = 0.4'' Plate (22.2 C-4)  $Q_{100} = C.i. A = 0.43 * 4.75 * 0.163 = 0.33 cfs$   $Vol_{100} = Ro \div 12 * A = (0.4'' \div 12') * 7,100 = 237 cu.Ff.$ DEVELOPED

DEVELOPED

Bldg. Roof = 3,170 " C = 0.90 CN = 98 44.6%

Parking etc. = 3,560 " C = 0.95 CN = 98 50.2%

Landscaping = 370 " C = 0.25 CN = 39 5.2%

Composite C = (0.446 × 0.90) + (0.502 × 0.95) + (0.052 × 0.25) = 0.89

Composite CN = (0.948 × 98) + (0.502 × 39) = 94.9 Use 95

Rainfall runoff Ro = 1.7 (Plate 22.2 C-4)

Q100 = CiA = 0.89 × 4.75 × 0.163 = 0.69 Cfs

Vol 100 = Ro ÷ 12 × A = (1.7 ÷ 12) × 7,100 " = 1,006 Cu.ft.



VICINITY MAP ZONE ATLAS K-14-Z

## DRAINAGE AND GRADING PLAN

The following items concerning the MAX CHAVEZ - WOODWORKING GALIERY DRAINAGE PIAN are contained hereon: 1. Vicinity Map, 2. Drainage Plan, 3. Grading Plan, 4. Erosion Control Plan and 5. Calculations.

This project is located on the southeast corner of the intersection of Broadway Blvd. and Hazeldine Ave. S.E.. The tract is 50 feet wide and 142 feet long along tract. The length of the building will be parallel to and along the south boundary line. Due to the slope of the land, the lower portions of the east wall and part of the south will be waterproofed.

The existing contours, as shown on the plan, depict existing site conditions. A building that was located at the western portion of the tract, was removed. This accounts for the low area, as shown by the contour lines. An existing garage, at the northeastcorner, will be removed.

Offsite runoff is not a problem. Adjacent property to the south, an alley to the east, Broadway Blvd. to the west and Hazeldine Ave. to the north are all at lower elevations and therefore, there is no runoff from these areas. Site runoff does not impact the property to the south nor the alley to the east. The natural direction. This tract does not have any impact on the alley and the alley does not produce runoff to this tract. Alley runoff flows to the south. Vehicles have grooved small tire tracks and it appears that flows remain within those tracks. Both the about 1,000 cubic feet should not impact downstream flooding. The existing storm does not lie adjacent to any artificial or natural watercourse and does not have

When developed, 95 percent of the tract will be impervious. The impervious areas will include the roof, sidewalks and the parking-driveway areas. The only pervious areas will be a few landscaped planters. Roof drainage will flow to the north. The parking areas will be paved and will be graded so that runoff will flow toward the northwest drivepad. Runoff will flow along the western end (the low side) of the drivepad onto Hazeldine Ave. just upstream from an existing storm drain catch basin.

The grading plan shows: existing contours, proposed grades indicated by spot elevations, swales with direction of flow and also that no retaining walls are needed.

## EROSION CONTROL PLAN

Sediment deposition, due to erosion during construction, will be kept to a minimum by utilizing the existing low area at the west portion of the lot. This area will be kept lower than the sidewalks and will serve as a temporary pond to intercept runoff sediment.

Another method to control sediment deposition, is to install the proposed garden walls along the west property line and along the lower ends of the north and the south property lines, prior to construction of the building. This will keep runoff sediments within the lot.

LEGAL: Lot 5 BLOCK C Highland Addition South Albquerque, Bernalillo County New Mexico ADDRESS: 702 Broadway S.E. Albuquerque, N. M.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

RIVERA ENGINEERING

2624 Valencia Dr. N.E.

Albuquerque, NM 87110 Phone 881-3417

		INEERII	NG DIVISION		
TITLE:	DRAINAGE		GRADING	PLAN	
MAX	CHAVEZ		DDWORKI		
APPROVALS	ENGINEER	DATE	APPROVALS		7
City Engineer			Liquid Waste	ENGINEER	DATE
A.C.E Design					
			Traffic		
A.C.EHydrolog	ЗУ		Water		
DRAWING		MAA	D NO		