PLANS/PLATS ON FILE

FILE DESC: P-13/D002

PLANS/PLATS 1

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Water Quality Lab Addition ZONE ATLAS/DRNG. FILE #: P-13-102

LEGAL DESCRIPTION: Northeast corner of Tract SP 88-350, south of Reclamation Rd. and adjacent to Barr Main Canal and situated within the Southside Water Reclamation Plant No. 2

CITY ADDRESS: 4201 2nd St. S.W.

ENGINEERING FIRM: Molzen-Corbin and Assoc. CONTACT: Mike Provine

ADDRESS: 2701 Miles Rd. S.E. PHONE: 242-5700

OWNER: City of Albuquerque CONTACT: Abebe Tefera

ADDRESS: 4201 2nd St. S.W. PHONE: 873-6237

ARCHITECT: Molzen-Corbin and Assoc. CONTACT: Janet Lacy

ADDRESS: Same as above PHONE: Same as above

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED
NOV 0 8 1989
HYDROLOGY SECTION

PRE-DESIGN MEETING:

___ YES

x NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. N/A

EPC NO. N/A

PROJ. NO. N/A

TYPE OF SUBMITTAL:

X DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

X GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: Nov. 8, 1989

BY: W. Rio

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HYDROLOGY SECTION

WATER QUALITY LABORATORY ADDITION

DRAINAGE PLAN

LOCATION AND EXISTING CONDITION:

The site is located in Bernalillo County at the Southside Water Reclamation Plant No. 2 at the northeast corner of the intersection of Reclamation Rd. and the Barr Main Canal. This phase of development contains approximately 0.51 acres. The site currently has both developed and undeveloped land with the developed land consisting of landscaping adjacent to the existing Water Quality Laboratory. The area of development is currently undeveloped and is relatively level. The site is not located in a 100-year flood zone.

PROPOSED CONDITION:

Proposed development of the site includes a 1984 sq. ft. building addition and a 3220 sq. ft. asphalt concrete parking lot extension with landscaping. All storm water runoff due to development will be intercepted by a retention pond.

CALCULATIONS:

Area = 0.51 acres

I = 2.2 in./hr. Plate 22.2 D-2

6-hour, 100-year rainfall = 2.25 in. Plate 22.2 D-1

i = (2.2)(2.25) = 4.95 in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C"VALUE	A(ACRES)	"C"X A	COMPOSITE
Streets, Drives, Walks	0.95	0	0	
Roofs	0.90	0	0	
Lawns & Landscaping	0.25	0.06	0.02	
Undeveloped	0.40	0.45	0.18	
TOTAL		0.51	0.20	0.39

Q(100) = C i A = (.39)(4.95)(0.51) = 0.99 cfs

Q(10) = (0.657)(0.99) = 0.65 cfs

CN = 80 Plate 22.2 C-4

Direct Runoff = 0.75 in. Plate 22.2 C-4

V(100) = (0.75)(0.51)(43560)/12 = 1,388 cu. ft.

V(10) = (0.657)(1,388) = 912 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C"VALUE	A(ACRES)	"C"X A	COMPOSITE
Streets, Drives, Walks	0.95	0.11	0.10	
Roofs	0.90	0.05	0.05	
Lawns & Landscaping	0.25	0.05	0.01	
Undeveloped	0.40	0.30	0.12	
TOTAL		0.51	0.28	0.55

Q(100) = C i A = (0.55)(4.95)(0.51) = 1.39 cfs

Q(10) = (0.657)(1.39) = 0.91 cfs

CN = 85 Plate 22.2 C-4

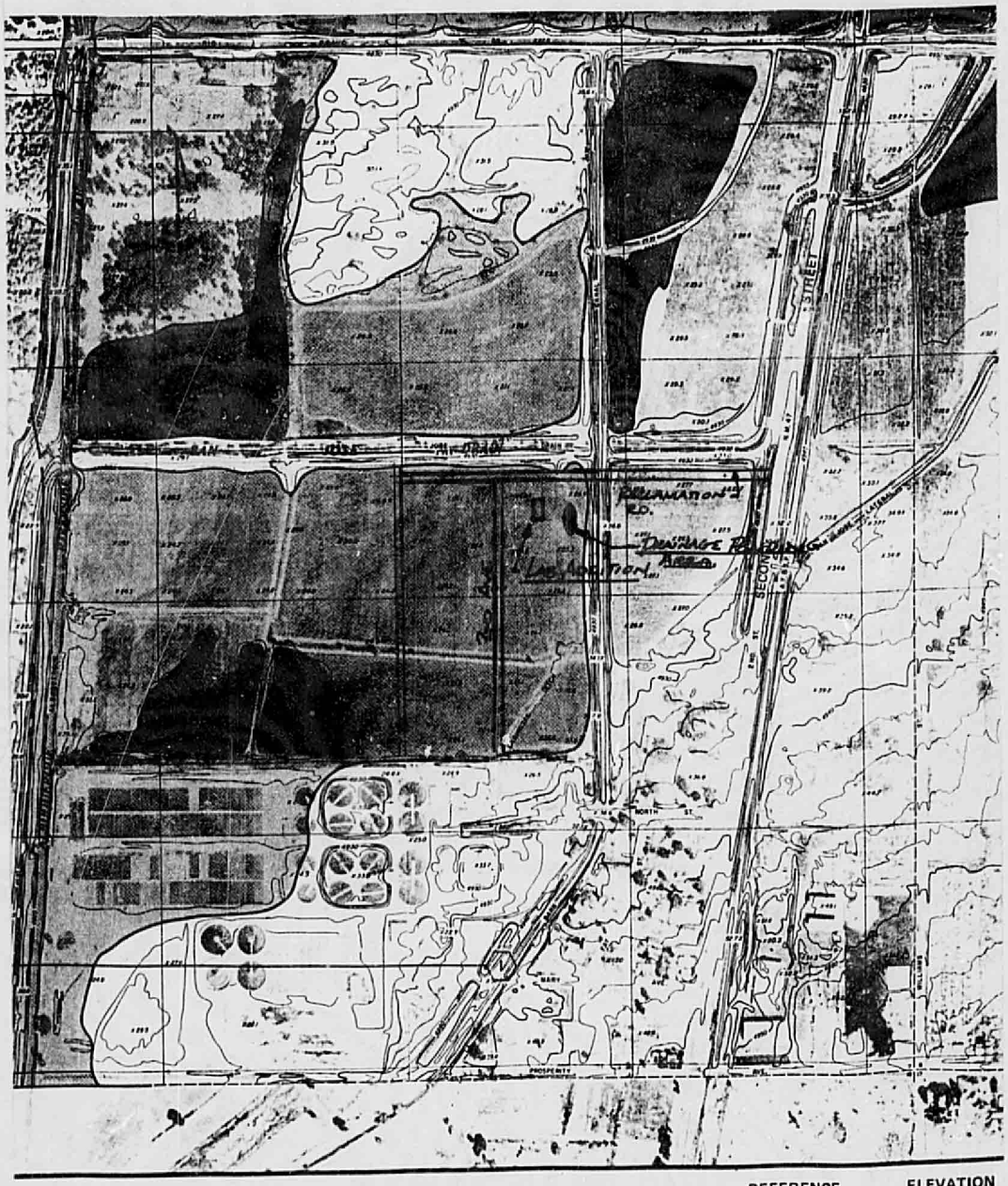
Direct Runoff = 1.0 in. Plate 22.2 C-4

V(100) = (1.0)(0.51)(43560)/12 = 1,851 cu. ft.

V(10) = (0.657)(1,851) = 1,216 cu. ft.

Therefore, the volume required to pond = 1851-1216= 463 cu. ft.

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



FEMA MAP #40
WATER QUALITY LAB ADDITION

REFERENCE MARK	ELEVATION (FT. NGVD)
RM 75	4935.26

PLAN/PLATS

ON

FILE