

# DRAINAGE INFORMATION SHEET

PROJECT TITLE: Pitney Bowers ZONE ATLAS/DRAINAGE FILE # D17/D3M

LEGAL DESCRIPTION: 4A-1B JOURNAL CENTER

CITY ADDRESS: 5141 MASTHEAD STREET NE

ENGINEERING FIRM: BORDENAVE DESIGNS CONTACT: J. Bordenave

ADDRESS: P.O. Box 9194, 87199-1194 PHONE: 823-1344

OWNER: KEN TEKIN, Inc. CONTACT: K. Tekin

ADDRESS: 6729 Academy Rd NE 87109 PHONE: 828-2811

ARCHITECT: SLN&B CONTACT: J. Lewis

ADDRESS: 1620 Central Ave SE, 87106 PHONE: 247-1529

SURVEYOR: BORDENAVE DESIGNS (As Built Only) CONTACT: J. Bordenave

ADDRESS: P.O. Box 9194, 87199-1194 PHONE: 823-1344

CONTRACTOR: Cambro Constr. CONTACT: J. Camilli

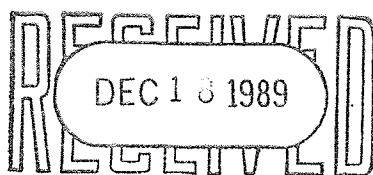
ADDRESS: 7424 2nd NW PHONE: 345-1133

## PRE-DESIGN MEETING:

☐ YES

☐ NO

☐ COPY OF CONFERENCE  
RECAP SHEET PROVIDED



DRB NO. 89-221

EPC NO. \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

## TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

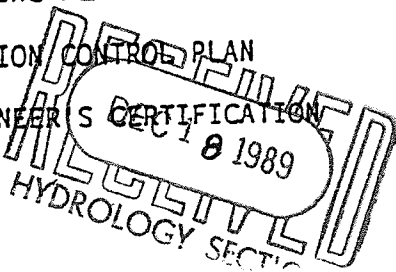
☐ DRAINAGE PLAN

☐ CONCEPTUAL GRADING & DRAIN PLAN

☐ GRADING PLAN

☐ EROSION CONTROL PLAN

☒ ENGINEER'S CERTIFICATION



## CHECK TYPE OF APPROVAL SOUGHT:

☐ SECTOR PLAN APPROVAL

☐ SKETCH PLAT APPROVAL

☐ PRELIMINARY PLAT APPROVAL

☐ SITE DEVELOPMENT PLAN APPROVAL

☐ FINAL PLAT APPROVAL

☐ BUILDING PERMIT APPROVAL

☐ FOUNDATION PERMIT APPROVAL

☒ CERTIFICATE OF OCCUPANCY  
APPROVAL

☐ ROUGH GRADING PERMIT APPROVAL

☐ GRADING/PAVING PERMIT APPROVAL

☐ OTHER \_\_\_\_\_ (SPECIFY).

DATE SUBMITTED: 12/18/89

BY: Pearl Bordenave

R. WARD HUNNICUTT, CHAIRMAN  
PAT D. HIGDON, VICE-CHAIRMAN  
REX FUNK, SECRETARY-TREASURER  
DANIEL W. COOK, DIRECTOR  
RONALD D. BROWN, DIRECTOR

LARRY A. BLAIR  
EXECUTIVE ENGINEER



Albuquerque  
Metropolitan  
Arroyo  
Flood  
Control  
Authority

2600 PROSPECT N.E. - ALBUQUERQUE, N. M. 87107  
TELEPHONE (505) 884-2215

November 14, 1989

Mr. Bernie Montoya  
Public Works - Hydrology  
City of Albuquerque  
P.O. Box 1293  
Albuquerque, NM 87113

RE: Pitney Bowes/North Pino Arroyo; D17-D3M

Dear Bernie:

AMAFCA has inspected and accepts the storm sewer connection to the North Pino Arroyo from the Pitney Bowes site.

Sincerely,  
AMAFCA

John Kelly  
Field Engineer

cc: Sam Camilli, Cambro Construction

LE COPY



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

KEN SCHULTZ  
MAYOR

December 21, 1989

Jake Bordenave, P.E.  
Bordenave Designs  
7100 Louisiana Boulevard, NE Suite A-106  
Albuquerque, New Mexico 87109

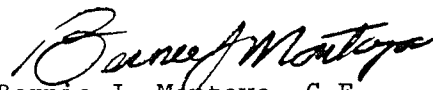
RE: ENGINEER'S CERTIFICATION FOR PITNEY-BOWES (D-17/D3M)  
CERTIFICATION STATEMENT DATED DECEMBER 18, 1989

Dear Mr. Bordenave,

Based on the information provided on your submittal of December 18, 1989, the referenced drainage plan is approved for Certification.

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  
(WP+1131)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.  
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

EXISTING CONDITIONS

Offsite flows are intercepted by Interstate 25, Masthead Street and the concrete drainage channel. Flow rates and volumes are:

6 hr.- 100 yr. rainfall = 2.3 in.  
time of concentration = use 10 min.  
rainfall intensity =  $6.84(2.3)(10^{-0.51}) = 4.86$  in./hr.  
total area = 1.35 ac.  
rational C factor = 0.40  
SCS curve number = 70  
 $Q_{100} = CIA = 2.6$  cfs  
 $Q_{10} = 1.7$  cfs  
 $V_{100} = RA = 1960$  cf  
 $V_{10} = 1313$  cf

The flows generated onsite sheet flow northwesterly across a sod greenbelt to the concrete channel.

PROPOSED CONDITIONS

As in the existing condition all offsite flows are intercepted by existing streets and drainage facilities. The site is to be developed as an office building with approximately 70 percent of the area composed of impervious surfaces.

All roof and parking lot drainage in Basin A is directed to a catch basin which will discharge via a pipe to the concrete channel. All nuisance flows and up to the 10 year storm will be transported by the catch basin and pipe system. Flows in excess of the 10 year storm will exit the parking lot via a curb opening and sheet flow across the sod greenbelt to the concrete channel. Flows generated in Basin B to the east of the building will sheet flow to the concrete channel for all storms. Flows for each of the basins are:

6 hr. - 100 yr. rainfall = 2.3 in.  
time of concentration = use 10 min.  
rainfall intensity = 4.86 in./hr.

	Basin A	Basin B
impervious area, acres	0.78	0.00
pervious area, acres	0.12	0.45
total area, acres	0.90	0.45
rational C factor	0.86	0.25
SCS curve number	93	61
$Q_{100}$ cfs	3.8	0.5
$Q_{10}$ cfs	2.5	0.4
$V_{100}$ cf	62726	2940
$V_{10}$ cf	41650	1952

HYDRAULICS

CATCH BASIN

$Q_{10} = 2.5$  cfs  
Weir length =  $2.5/(3.2)(0.1667^{3/2}) = 11.5$  ft  
Orifice area =  $2.5/(0.6)(0.5)((2g)(.1667)^{1/2}) = 2.5$  s.f.  
Use basin with 6 inch sidewalls and inside dimensions of 2 feet. Walls and floor of basin shall have 1/2 inch rebar at 6 inches on center each way.

OUTLET PIPE

$Q_{10} = 2.5$  cfs  
pipe radius =  $2.5/(0.6)((2g)(2.5)^{1/2}) = 0.32$  ft.  
Use 8 inch pvc pipe from catch basin to concrete channel.

CURB OPENING

$Q_{100}-Q_{10} = 3.8 - 2.5 = 1.3$  cfs  
Weir length =  $1.3/(2.6)(0.25^{3/2}) = 4.0$  ft.  
Use 4 feet wide curb opening in vicinity of catch basin.

A DRAINAGE CALCULATIONS

- Two (2) working days prior to any excavation the Contractor shall contact Line Locating Service (765-1234) for location of existing utilities.
- Prior to construction the Contractor shall excavate and verify the horizontal and vertical location of all potential obstructions. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with a minimum amount of delay.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and worker health.
- All construction within the public right-of-way shall be performed in accordance with City of Albuquerque Standard Specifications for Public Works Construction, 1986.
- The Contractor shall ensure that no soil erodes from the site onto private property AMAFCA or City right-of-way. This can be achieved by constructing temporary earth berms or installing sediment control devices and by wetting the soil to keep it from blowing.
- 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.
- The Contractor shall secure "Topsoil Disturbance Permit" prior to beginning construction.
- Construction within the grassed greenbelt area shall be coordinated with the Journal Center to avoid conflicts with irrigation lines and subsurface erosion control fabrics. Work on the concrete channel and inspection of this work shall be coordinated with AMAFCA (884-2215).

B CONSTRUCTION NOTES

