

DRAINAGE INFORMATION SHEET

D18/D19

PROJECT TITLE: U.S. Post Office Academy Sta. ZONE ATLAS/DRNG. FILE #: D-18-2LEGAL DESCRIPTION: Lots 3, 4, 29 and a portion of Lots 5 & 28,
North Albuquerque Acres, Tract A, Unit A, Block 20

CITY ADDRESS: _____

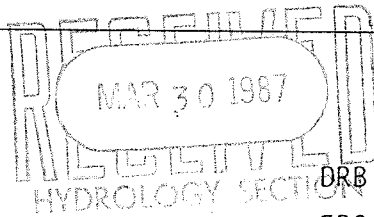
ENGINEERING FIRM: Chavez-Griener CONTACT: Jackie McDowellADDRESS: 46000 Montgomery PHONE: (505) 881-7376OWNER: United States Post Office CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: The Burns/Peters Group CONTACT: Don FletcherADDRESS: 2400 Louisiana PHONE: (505) 881-2759SURVEYOR: A & E Engineering CONTACT: John EsquebelADDRESS: 1330 San Pedro #101 PHONE: (505) 266-8791CONTRACTOR: N/A CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☐ YES☐ NO☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT☒ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAINAGE PLAN☐ 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☒ BUILDING PERMIT APPROVAL☐ FOUNDATION PERMIT APPROVAL☐ CERTIFICATE OF OCCUPANCY APPROVAL☐ ROUGH GRADING PERMIT APPROVAL☐ GRADING/PAVING PERMIT APPROVAL☐ OTHER _____ (SPECIFY)DATE SUBMITTED: 3/30/87BY: Jackie McDowell

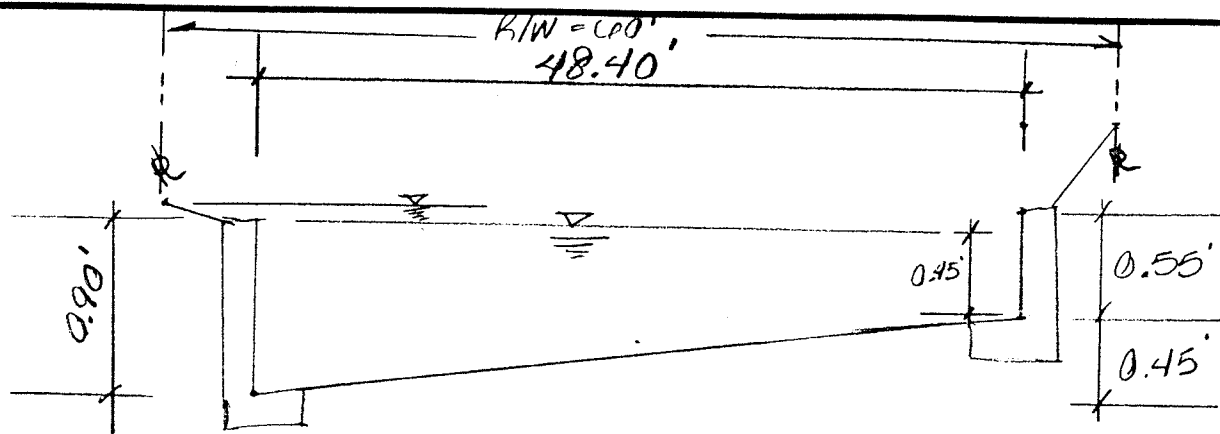
Job USPO - Academy Station
Subject San Pedro Capacity
Client BPLW

Sheet No. 1 of
Job. No.
By JSM Date



CHAVEZ - GRIEVES / CONSULTING ENGINEERS, Inc.

Albuquerque, NM



Typical Street Section

San Pedro, North of San Antonio

@ depth = 0.90'

$$Q = 1.486 A^{5/3} S^{1/2} / n P^{2/3}$$

$$A = [(0.90 + 0.45)/2] (48.40) = 32.67$$

$$P = 48.40 + 0.90 + 0.45 = 49.75$$

$$S = 0.009$$

$$n = 0.017$$

$$Q = 205 \text{ cfs.}$$

@ depth = 1.0'

$$A = 32.67 + (54)(0.10) = 38.07$$

$$P = 49.75 + 6 = 55.75$$

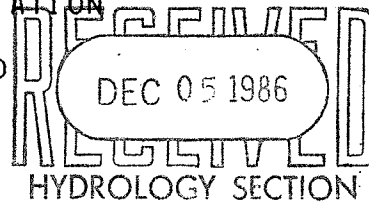
$$Q = 245 \text{ cfs.}$$

Need to check 10yr Criteria.

CONCEPTUAL DRAINAGE PLAN

U.S. POST OFFICE - ACADEMY STATION

ALBUQUERQUE, NEW MEXICO



LOCATION AND DESCRIPTION:

The site is located on San Antonio Drive N.E. in Albuquerque, New Mexico. The site, containing approximately 3.9170 acres, is presently undeveloped and slopes from the east to the west with an average slope of 2.1 percent. The site is not located within a flood plain.

EXISTING CONDITIONS:

Presently, runoff from the site eventually discharges onto the adjacent west property. No off-site runoff enters the site due to existing elevations. — ?

PROPOSED CONDITIONS:

Proposed development of the site includes a U.S. Post Office with related parking and landscaping. Due to proposed development, runoff from the site will increase from 9.37 cfs to 19.34 cfs. The flow will be directed to San Antonio via two swales and discharge through two proposed drivepads.

Easements, if any, should be rerouted and replatted as to not interfere with the building layout. — ?

CALCULATIONS: (Based on the City of Albuquerque Development Process Manual, Volume II)

Area = 3.9170 acres

$T_c = 2.9118$

$I = 2.4$ in./hr. Plate 22.2 D-2

6-hour, 100-year rainfall = 2.4 in. Plate 22.2 D-1

$i = (2.4)(2.4) = 5.76$ in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A	COMPOSITE
				"C" = CXA/A
Streets, Drives, Walks	0.95	0.1107	0.1051	
Roofs	0.90	-	-	
Lawns & Landscaping	0.25	-	-	
Undeveloped	0.40	3.8063	1.5225	
TOTAL		3.9170	1.6276	0.4155

$Q(100) = (0.4155)(5.76)(3.9170) = 9.3745 \text{ cfs}$
 $Q(10) = (0.657)(9.3745) = 6.1590 \text{ cfs}$
 CN = 79 Plate 22.2 C-2
 Direct Runoff = 1.1 in. Plate 22.2 C-4
 $V(100) = (1.1)(3.9170)(43560)/12 = 15,641 \text{ cu. ft.}$
 $V(10) = (0.657)(15,641) = 10,276 \text{ cu. ft.}$

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A	COMPOSITE "C" = CXA/A
Streets, Drives, Walks	0.95	2.6401	2.5081	
Roofs	0.90	0.7894	0.7104	
Lawns & Landscaping	0.25	0.4875	0.1219	
Undeveloped	0.40	-	-	
TOTAL		3.9170	3.3404	0.8528

$Q(100) = (0.8528)(5.76)(3.9170) = 19.2407 \text{ cfs}$
 $Q(10) = (0.657)(19.2407) = 12.6411 \text{ cfs}$
 CN = 96 Plate 22.2 C-3
 Direct Runoff = 1.95 in. Plate 22.2 C-4
 $V(100) = (1.95)(3.9170)(43560)/12 = 27,727 \text{ cu. ft.}$
 $V(10) = (0.657)(27,727) = 18,216 \text{ cu. ft.}$



KEN SCHULTZ
MAYOR

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 10, 1988

General Manager
Real Estate Division
United States Postal Service
850 Cherry Avenue
San Bruno, CA 94099

Re: **ACADEMY AND UPTOWN POST OFFICES**
DRAINAGE, EROSION AND ENCROACHMENT PROBLEMS

Dear Sir or Madam:

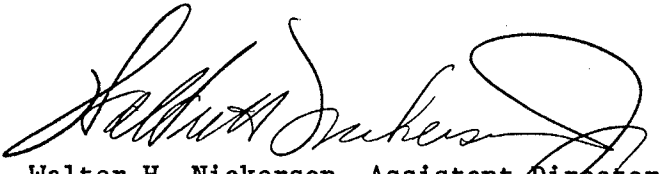
Two post office locations within the City of Albuquerque are creating drainage problems as a result of the location, grading and construction of the facilities.

The Uptown Post Office on Morningside NE was constructed upon existing City drainage easements and is currently encroaching upon same. The drainage treatments constructed by USPS are inadequate to handle the developed on-site and off-site flows. USPS initiated a request for vacation of a number of easements located upon the site. The City's Development Review Board approved vacation of the easements, contingent upon the Post Office designing an acceptable method of conveying off-site flows across the site, relocation and dedication of required drainage easements, and a satisfactory erosion control plan to insure sediment would remain on site. None of the conditions precedent to final approval of the vacation of the existing easements was accomplished.

The Academy Post Office on Santa Monica NE was constructed without adequate consideration being given to current downstream capacity to handle developed flows from the site. In addition, the construction of the block wall surrounding the premises blocked historic flows through the site eroding surrounding property and resulting in severe sedimentation deposits in public right-of-way. The site was also constructed so that flows are discharged onto and across public sidewalks. The lack of on-site detention of developed flows has caused the shoulder of the roadway on San Antonio NE to be eroded, undermining the existing pavement.

General Manager
November 10, 1988
Page 2

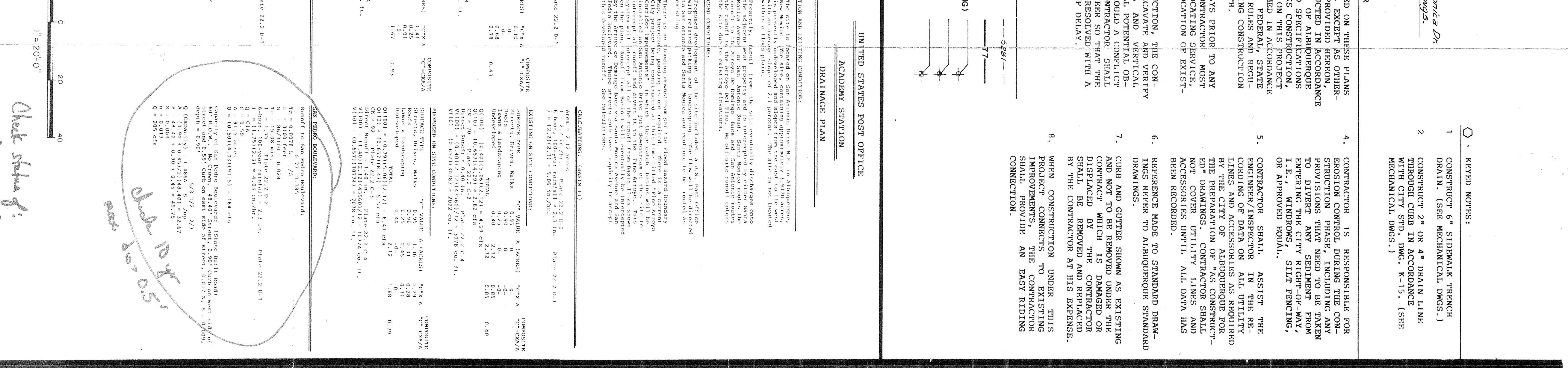
We would like to rectify the conditions caused by these facilities in an expeditious manner to avoid further drainage problems and erosion damage. Please contact either Fred Aguirre, City Hydrologist, or Carlos Montoya, City/County Floodplain Administrator, at the address indicated above or call (505)768-2650. We would appreciate a response within fifteen days from the date of this letter.



Walter H. Nickerson, Assistant Director
Engineering Group/PWD

xc: Fred Aguirre, City Hydrologist, PWD/Engineering
Carlos Montoya, City/County Floodplain Administrator, PWD
Sylvia Fettes, Law Specialist, Legal Department
Dennis Neely, Property Acquisition Manager, USPS
1135 Broadway NE
Albuquerque, NM 87101

(WP+921)



Edge of Asph/Flt

SITE PLAN – ACADEMY – GRADING

SCALE: 1" = 20'-0"

Check status of:

1. Pro Argo Gender improvements
2. Santa Monica underway
3. Classification San Pedro for capacity analysis

Colleen Smith