

## DRAINAGE INFORMATION SHEET

PROJECT TITLE: SANTA FE VILLAGE PK ZONE ATLAS/DRNG. FILE #: E-10 / D229

DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: TRACT 6, SANTA FE VILLAGE ADDITIONCITY ADDRESS: SANTA FE VILLAGE PKENGINEERING FIRM: ISAACSON & ARMAN CONTACT: FRED ARMANADDRESS: 138 MONROE ST PHONE: 268-8828

OWNER: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

ARCHITECT: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

SURVEYOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT  
☒ DRAINAGE PLAN  
☐ CONCEPTUAL GRADING & DRAINAGE PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERTIFICATION  
☐ OTHER

## PRE-DESIGN MEETING:

- ☐ YES  
☐ NO  
☐ COPY PROVIDED

## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ S. DEV. PLAN FOR SUB'D. APPROVAL  
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL  
☐ SECTOR PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ FOUNDATION PERMIT APPROVAL  
☐ BUILDING PERMIT APPROVAL  
☐ CERTIFICATE OF OCCUPANCY APPROVAL  
☐ GRADING PERMIT APPROVAL  
☐ PAVING PERMIT APPROVAL  
☐ S.A.D. DRAINAGE REPORT  
☐ DRAINAGE REQUIREMENTS  
☐ OTHER WORK ORDER (SPECIFY)

MAR 24 1992

DATE SUBMITTED: 3-25-92BY: FRED ARMAN



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 6, 1992

Fred Arfman, P.A.  
Isaacson & Arfman, P.A.  
128 Monroe Street, NE  
Albuquerque, New Mexico 87108

RE: REVISED DRAINAGE PLAN FOR SANTA FE VILLAGE PARK  
(E-10/D2G) ENGINEER'S STAMP DATED JANUARY 16, 1992  
WORK ORDER NO. 4333.90

Dear Mr. Arfman:

Based on the information provided on your submittal of March 24, 1992, the above referenced plan is approved for Work Order.

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

Cordially,

for Bernie J. Montoya, C.E.  
Engineering Assistant

BJM/bsj  
(WP+3174)

PUBLIC WORKS DEPARTMENT

## **GENERAL NOTES**

**LEGAL DESCRIPTION:** Tract 8-B, Santa Fe Village, Unit 2, Filed January 4, 1991

**ENGINEER:** Isaacson & Arfman, P.A.  
128 Monroe Street, NE  
Albuquerque, NM 87108  
Attn: Fred C. Arfman, P.E.

**SURVEYOR:** City Surveyor  
City of Albuquerque  
Date of Survey: June 20, 1991

**BENCHMARK:** City of Albuquerque Control Station (ACS) "15-E10" located on the west side of Unser Blvd., approximately 950 feet south of Montano Road. An "X" chiseled on a fire hydrant bonnet bolt.  
ELEV. = 5145.93

**TBM:** A scribe "--" chiseled on the top of the west curb of Unser Blvd. located approximately 480 feet south of Montano Blvd. centerline.  
ELEV. = 5154.27

**ZONING:** SU-1 (City Park)

**AREA:** 4.58 acres (Phase II Limits)

**FLOOD HAZARD:** No part of this parcel is subject to a flood hazard area as determined by panel No. 350002-0014 of the October 14, 1983, edition of the F.E.M.A. maps nor on the subsequent revisions.

## **LOCATION & DESCRIPTION**

Tract 8-B; Santa Fe Village, Unit 2, as found on the plat entitled "Replat of Tracts 7 & 8, Santa Fe Village, Unit 2," as filed on January 4, 1991, in Volume 91C, Folio 5. The tract is situated at the southeast corner of Montano Road NW and Bogart Street NW and comprises approximately 4.6 acres of undeveloped land.

## **DRAINAGE CHARACTERISTICS**

(EXISTING): The park site is bordered by the public rights-of way of Montano Boulevard on the north and Bogart Street on the west. Both streets are fully developed with the exception of the sidewalk along Bogart Street. A 12-foot-wide concrete drainage rundown is situated along the south border of the park and separates the park property from the neighboring library parking lot. Finally, a shallow earthen channel parallels the easterly phase boundary and is situated within a 70-foot-wide AMAFCA easement.

Presently, all storm waters generated from the site will overland flow to either the aforementioned concrete rundown or the earthen channel.

## **HYDROLOGY**

(EXISTING): The park site (Phase II) is within the boundaries of Precipitation Zone No. 1 (west of Rio Grande Boulevard) as such the  $P_{360}$  (6 hr.-100 yr. storm) has a depth of 2.2 inches.

The total onsite drainage area is 4.58 acres of vacant undeveloped land, having a corresponding Land Treatment B classification.

Peak Discharge (using a 10-minute time of concentration), cfs/ac. 100 yr.  
Zone 3 (Table 9) = 1.40 cfs/ac.

Determine Total  $Q_p$  =  $Q_{PA} A_A$   
= (1.91)(4.58)  
= 8.75 cfs

Volume = EA  
= (0.48)(4.58)(43560)(0.0833)  
= 7,980 cu. ft.

## PROPOSED IMPROVEMENTS

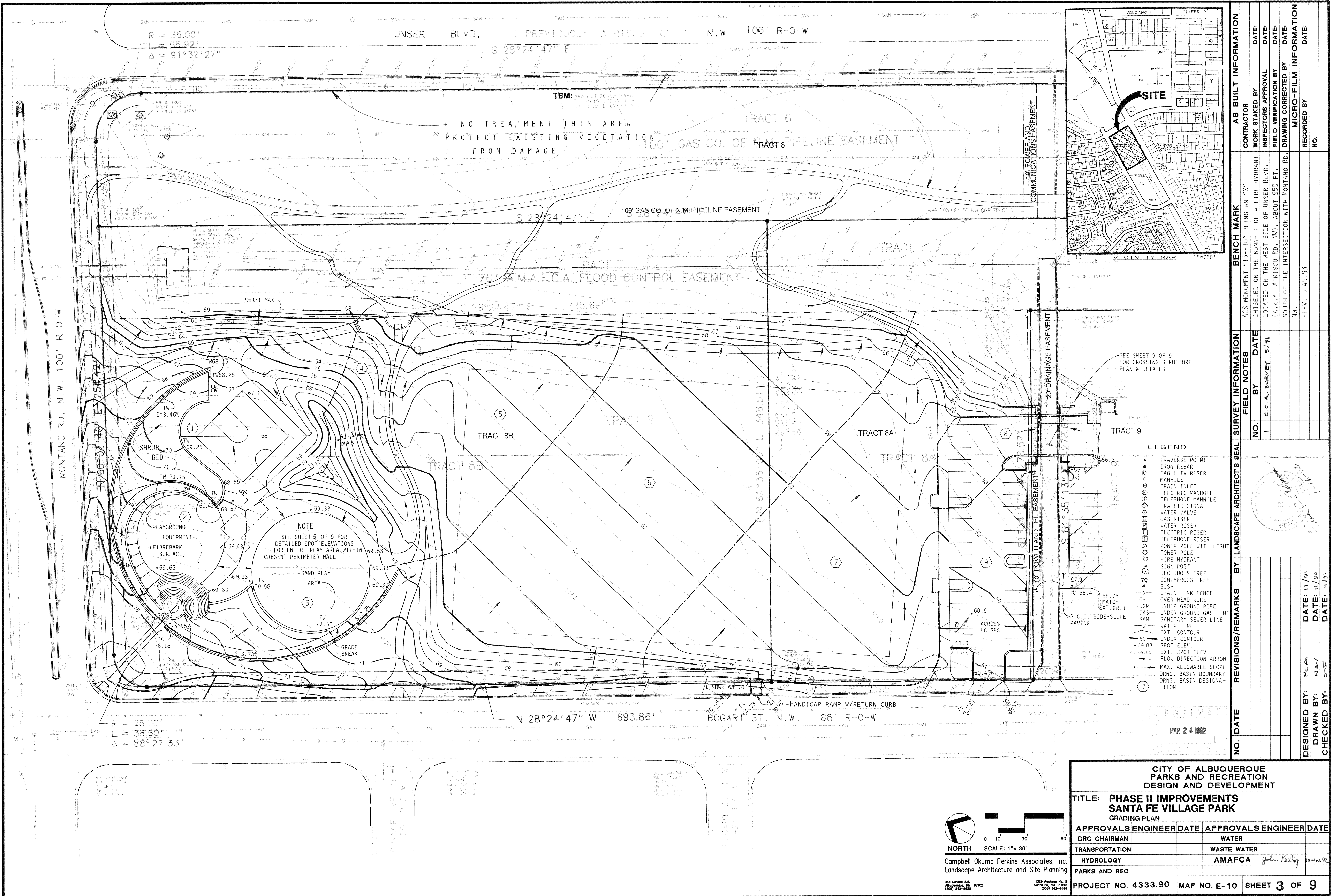
The park improvements divide the parcels into nine individual drainage basins. The basins have the following storm water flow characteristics:

<u>Basin</u>	<u>Developed Runoff Characteristic</u>
1, 5, 6	Storm waters overland flow in a southeastern direction and sheet flow over the perimeter sidewalk and into the earthen channel.
3, 4 <sup>R</sup>	All storm waters are captured and retained in each basin's playground area. Storm waters are allowed to percolate into the subsoils.
4, 7	Overland flows are collected in minor low profile grassed swales and routed to either a sidewalk culvert (Basin 4) or a depressed sidewalk crossing (Basin 7).
8, 9	These basins are comprised of the parking lot area. Developed storm waters are allowed to discharge directly into the existing concrete rundown via either a curb opening (Basin 9) or by a modified storm water catch basin incorporated into the bridge structure (Basin 8).

The following storm water runoff summation table was derived for the procedures of the August 1991 Section 22.2 Hydrology Chapter of the DPM, Volume 2, Design Criteria.

BASIN	AREA		LAND TREATMENT	TOTAL Q <sub>p</sub> (CFS)	WT. E(IN.)	VOLUME CU. FT.
	SQ. FT.	ACRES				
1	27,378	0.6285	B/55 D/45	1.94	1.26	2,875
2	7,614	0.1748	A/65 D/35	0.41	0.97	615
3	14,648	0.3363	A/55 B/10 D/35	0.82	1.01	1,233
4	8,085	0.1856	B	0.38	0.67	256
5	20,844	0.4785	B	0.97	0.67	1,164
6	66,663	1.5304	B	3.11	0.67	3,722
7	39,555	0.9081	B	1.84	0.67	2,208
8	10,368	0.2380	D	1.04	1.97	1,702
9	5,076	0.1165	D	0.51	1.97	833
		4.5967		11.0		14,608





NO. DATE		REVISIONS/REMARKS	BY	LANDSCAPE ARCHITECT'S SEAL	SURVEY INFORMATION	BENCH MARK	AS BUILT INFORMATION
1					FIELD NOTES	ACS MONUMENT "15-E10" BEING AN "X" CHISELED ON THE BONNETT OF A FIRE HYDRANT LOCATED ON THE WEST SIDE OF UNSER BLVD. (A.K.A. ATRISCO RD. NW), ABOUT 950 FT. SOUTH OF THE INTERSECTION WITH MONTANO RD. NW.	CONTRACTOR WORK STAKED BY INSPECTORS APPROVAL DATE: FIELD VERIFICATION BY DATE: DRAWING CORRECTED BY DATE: MICRO-FILM INFORMATION RECORDED BY DATE:
DESIGNED BY: P.C.A.		DATE: 11/91					
DRAWN BY: N.A.V.		DATE: 11/90					
CHECKED BY: S.T.F.		DATE: 11/91					

CITY OF ALBUQUERQUE PARKS AND RECREATION DESIGN AND DEVELOPMENT					
TITLE: PHASE II IMPROVEMENTS SANTA FE VILLAGE PARK GRADING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			AMAFCA	John Kelly	10/22/92
PARKS AND REC					
PROJECT NO. 4333.90		MAP NO. E-10		SHEET 3 OF 9	

NORTH  
SCALE: 1"= 30'  
Campbell Okuma Perkins Associates, Inc.  
Landscape Architecture and Site Planning  
418 Central S.E.  
Albuquerque, NM 87102  
(505) 242-1000  
1230 Parkview S.E.  
Santa Fe, NM 87505  
(505) 962-6300