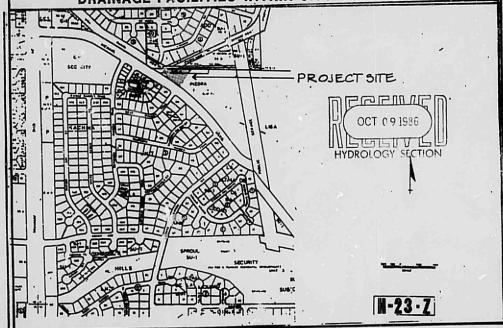
CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



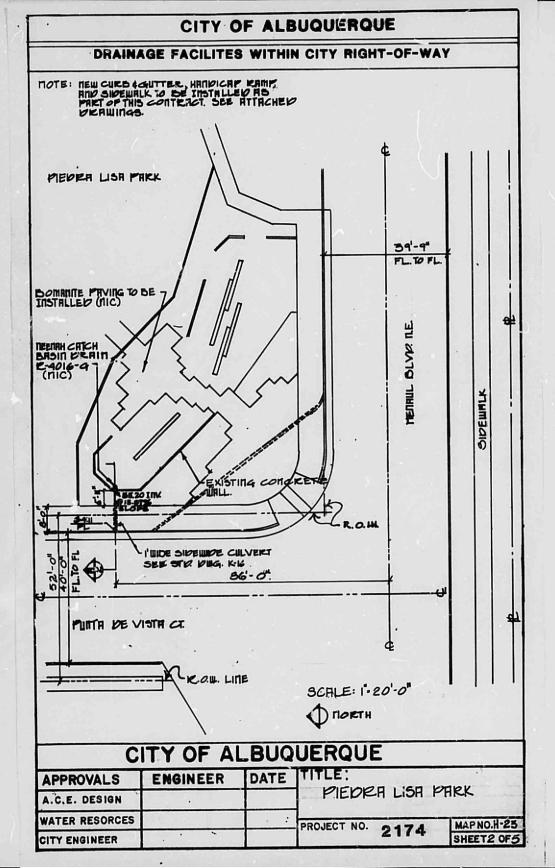
LEGAL DESCRIPTION OF PROPERTY SERVED N.W. Corner of TR II of the Piedra Lisa Municipal Subdivision.

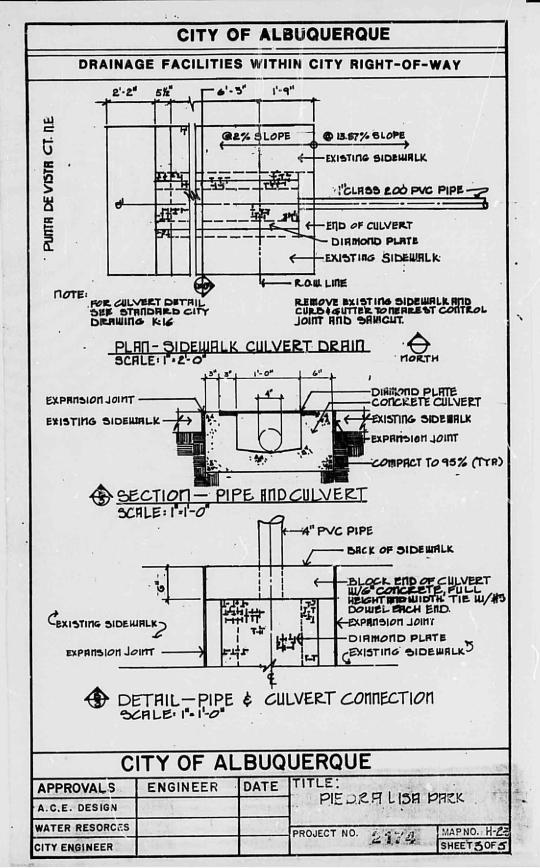
BENCH MARK: TEM is at the top of the north head wall of the dam at Piedra Lisa Park, in a chiseled square. ELEV: 5927.94

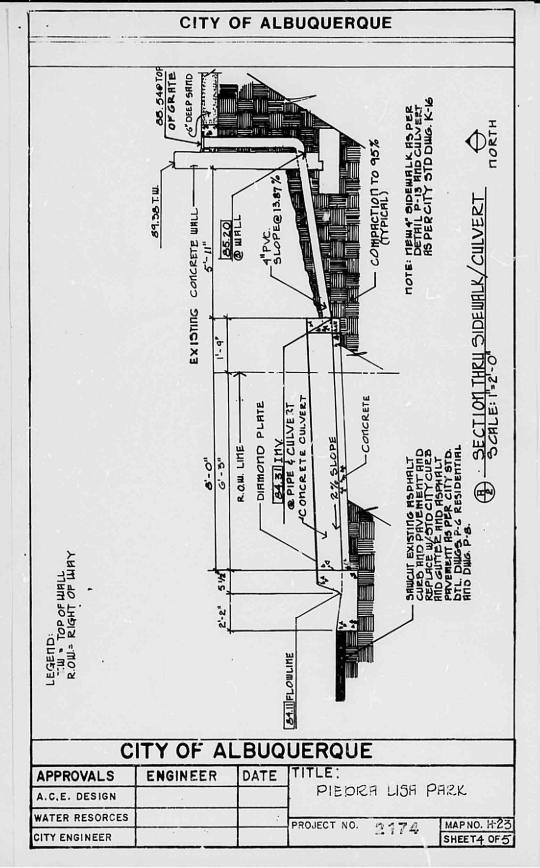
NOTICE TO CONTRACTOR

- An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
- All work detailed on these plans to be performed, except
 as otherwise stated or provided hereon, shall be
 constructed in accordance with City of Albuquerque Interim
 Standard Specifications for Public Works Construction,
 1985.
- Two working Days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
- 4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all constructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to <u>Residential</u> street use.
- Maintenance of these facilities shall be the responsibility of the Owner of the property served.

APPROVALS	ENGINEER	DATE	TITLE: PIEDRA LISA	DARK
A.C.E. DESIGN	Row & Decente	10/13/86	PIEDRA LISA	- Allik
INSPECTOR	19		PROJECT NO. 2174	MAP
A.C.E./FIELD			SHEET 1 OF 5	100. H-23Z







CITY OF ALBUQUERQUE					
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PIEDRA LISA	PRRK				
PIEDRA LIGH PARK LEGEND: SAMUCUT, REMOVE, AND REPLACE SAPHALT CIRE AND PRIVEMENT WITH STANDARD CITY CIRED AND PRIVEMENT OF MIND FARMENT OF M					
PUNTA DE VISTA CT.					
CITY OF ALBUQUERQUE					
APPROVALS	ENGINEER	DATE	TITLE:		
A.C.E. DESIGN			PIEDRA LIS	A PARK	
WATER RESORCES			PROJECT NO. 2174	MAPNO.H-23	
CITY ENGINEER			2114	SHEET 5 OF 5	

FILE COPY

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

INTER-OFFICE CORRESPONDENCE

REF. NO .__

October 13, 1986

TO:

Tom Aragon, Transportation System Division

FROM:

Fred J. Aguirre, Hydrologist; Engineering Division/PWD

SUBJECT: PRIVATE DRAINAGE FACILITIES WITHIN PUBLIC RIGHTS-OF-WAY/EASEHENT

PIEDRA LISA PARK (H-23/D15)

Transmitted herewith, is a copy of the approved drainage plan for the referenced projects incorporating the S.O. 19 design.

In accordance with the new process, this plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed-off S.O. 19 is required by this office for Certificate of Occupancy release; hence your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation, and if you should have any questions and/or comments regarding the process, please feel free to call me at 768-2650.

FJA/bsj

Enclosures



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 768-7644

October 13, 1986

Robert Wilcox City of Albuquerque Parks & Recreation Department 5501 Pino Avenue, NE Bldg. A Albuquerque, New Hexico 87109

RE: SIDEWALK CULVERT AND CURB DESIGN FOR PIEDRA LISA PARK,
RECEIVED OCTOBER 9, 1986 FOR A PERMIT TO CONSTRUCT DRAINAGE
FACILITIES WITHIN PUBLIC RIGHT-OF-WAY (S.O. #19) (H-23/D15)

Dear Robert:

The above referenced submittal is approved for the purpose of obtaining an excavation/construction permit (S.D. #19). One approved copy has been forwarded to the permit section, for inspection and permit issuance.

Construction may begin after the required permit has been issued.

If you have any questions, please call me at 768-2650.

Cordially,

Roger A. Green, P.E. C.E./Hydrology Section

RAG/bsj

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

Telephone (505) 768-2500

Walter Nickerson, P.E., City Engineer

= AN EQUAL OPPORTUNITY EMPLOYER =



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 768-7644

October 6, 1986

Robert Wilcox City of Albuquerque Parks & Recreation Department 5501 Pino Avenue, NE Bldg. A Albuquerque, New Mexico 87109

RE: SIDEWALK CULVERT AND CURB DESIGN FOR PIEDRA LISA PARK, RECEIVED SEPTEMBER 30, 1986 FOR PERMIT TO CONSTRUCT DRAINAGE FACILITIES WITHIN PUBLIC RIGHT-OF-WAY (S.O. #19) (H-23/D15)

Dear Robert:

I have reviewed the above referenced submittal forwarded to us by Greg Olson of the Design Section. This office now reviews and approves the designs for S.O. #19 excavation/construction permits.

The following items must be addressed and design resubmitted before approval:

- 1. Cover sheet must follow the example in the DPM, Section 22.7, page 116, revised 10/85.
- 2. Provide two copies to this office for approval. One copy is for our files and the other is forwarded to inspection so the contractor can get the required excavation/construction permit.

If you have any questions, call se at 766-7644.

Cordially,

Roger A. Breen, P.E. C.E./Hydrology Section

RAG/bsj

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

Telephone (505) 768-2500

Walter Nickerson, P.E., City Engineer

= AN EQUAL OPPORTUNITY EMPLOYER =

	Speed Message
To Fred Aguir	. & Co. From Greg
. Hydro logy	- Vesign
Subject	for Parks & Lec. 9/29/86 19
AHacked	is an 50-19 type submitted Parks Efec Project. I've advised
for a fobert n	Hox of forwarding this to you.
Please	handle as appropriate.
	July 9/29
	SEP 3 0 1986
	HYDROLOGY SECTION
WilsonJones GARLTH TOM 44X0.2-PART CHECK-PRINTED NUSA	Signed11

WILSON

505 345-5345

ENGINEERS

ARCHITECTS

Office Location... 6511 GULTON CT., N.E. . ALBUQUERQUE, NEW MEXICO 87109

An Equal Opportunity

Mailing Address... P.O. BOX 3:548

ALBUQUERQUE, NEW MEXICO 87190

November 21, 1985

For information only - file!

HYDROLOGY SECTION

Mr. Roger A. Green, P.E. Design Hydrology Section City of Albuqeurque P. O. Box 1293 Albuquerque, NM 87103

Re: Piedra Lisa Park (H23-D15) Erosin Control Plan

WCEA File: 85-516

DRB 85-504

Dear Mr. Green:

Enclosed are prints showing the proposed erosin control plan for Piedra Lisa Park. I propose to construct a dike along the westerly side of the park. The dike would intercept water and silt and when water level reached a certain elevation, it would discharge to Piedra Lisa Arroyo.

The existing dike and proposed dike are temporary and would be removed when storm drain is installed and grass is planted.

Please give me a call if you have any questions.

Enclosures

xc: Dan Martinez Parks & Recreation Dept.

-sap

DRAINAGE INFORMATION SHEET

ENGINEERING FIRM: Wilson & Co ADDRESS: POBOX 3548, Alb 87190 DHNER: Parks & Decreation ADDRESS: POBOX 1292 ARCHITECT: ADDRESS: SURVEYOR: ADDRESS: ADDRESS: ADDRESS:	CONTACT: <u>Dan Marinese</u> PHONE: <u>766 - 5080</u> CONTACT: PHONE: CONTACT:
PRE-DESIGN MEETING: YES NO COPY OF CONFERENCE RECAP SHEET PROVIDED	DRB ND. EPC ND. HYDROLOGY SECTION DE Report H23-DIS
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)



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 768-7544

October 8, 1985

Mr. Robert Sykes, PE Wilson & Company P.O. Box 3548 Albuquerque, NM 87190

REF: DRAINAGE REPORT FOR PIEDRA LISA PARK (H23-D15) RECEIVED SEPTEMBER 9, 1985

Dear Robert:

Based on the review of the referenced submittal, park grading will be approved after an erosion control plan is included, showing how sediment will be kept out of the Piedra Lisa Arroyo or storm drain during grading. It was assumed that the proposed storm drainage outlet under Punta de Vista has adequate design capacity for the Piedra Lisa Storm Water Detention Dam, catch basin in park, and catch basin on Punta de Vista.

Please submit a revised drainage plan with an extra copy of grading construction drawings for approval signature so the contractor will have an official approval to proceed with the work.

If you have any questions, please call this office at 766-7644.

Roger & Green, PE

Roger A. Green, PE Civil Engineer/Design Hydrology

RAG:mrk

cc: Parks & Recreation Department, 5501 Pino NE, Bldg A 87109

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467



505 345-5345

ENGINEERS

ARCHITECTS

An Equal Opportunity Employer

Mailing Address... P.O. BOX 3548

ALBUQUERQUE, NEW MEXICO 87190

HYDROLOGY SECT

9 September 1985

Mr. Billy Goolsby Hydrology Section City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

Re: Piedra Lisa Park Drainage Report WCEA File: 85-516

Dear Mr. Goolsby:

Enclosed is the drainage report for the Piedra Lisa Park. The total improvements are to be constructed under two contracts and by Parks & Recreation staff, as follows.

- 1. Park grading by contractor under contract to Parks & Recreation.
- 2. Storm drainage by contractor under contract to MDD.
- 3. Landscape improvements Park & Recreation forces.

Please give me a call if you have any questions about this project.

WILSON & COMPAND

Syles, P.E. Robert F.

Partner

enc.

k1

H23/D15 -CITY OF ALBUQUERQUE RECEIVED ALBUQUERQUE, NEW MEXICO April 16, 1985 INTER-OFFICE CORRESPONDENCE CITY ENGIN SEE DISTRIBUTION Senior Draftsman. Sands, Parks Design Development. Preliminary Review & Comments, Piedra Lisa Park The construction drawings for Piedra Lisa Park are ready for preliminary review and comments. A meeting will be held in the Parks and Recreation Conference Room at 1:30 pm on April 29, 1985, 5501 Pino NE, Building A, City Yards. Please plan to attend this meeting or send a representative and have your comments ready to discuss and submit them at that time. If you submit no comments, it will be assumed you have none and the project will proceed. Orlando D. Sedillo, Director, Parks & Recreation Martin R. Valdez, Assistant Director, Parks & Recreation Janet Saiers, Planner, Parks & Recreation Fred Aguirre, MDD/Engineering-Hydrology Dwayne Sheppard, City Engineer MDD/Engineering Andre Houle, Civil Engineer CC Pink, Planning & Programming Hydrologist. John Ertsgaard, Water Resources Dave Harmon, Traffic Engineering Pete Turpin, Superintendent, Park Management Larry Caudill, Environmental Health Kachina Neighborhood Ton Doherty, Association Not MENAUL W of TRAMWAY

RECEIVED

TO: FROM:

SUBJECT:

Distribution:

Jim

APR 2 2 1985

MDD PONG-DESIGN

5120

Fred:

Comments were

forwarded to Jim

4/29/85 Sands

Billy.

DRAINAGE INFORMATION SHEET

CITY ADDRESS: ENGINEERING FIRM: ADDRESS: ADDRESS: ADDRESS: ADDRESS: ADDRESS: ADDRESS: ARCHITECT: ADDRESS: SURVEYOR: ADDRESS: ANDRESS: ANDRESS: ANDRESS: ANDRESS: ANDRESS: ANDRESS: ADDRESS: ADDRESS:	PHONE:		
CONTRACTOR:	CONTACT:		
ADDRESS:	PHONE:		
X YES	V. 84 8 217184 DRB NO. <u>DR6-25-504</u> 816185 EPC NO N PROJ. NO. <u>2497</u>		
	CHECK TYPE OF APPROVAL SOUGHT:		
TYPE OF SUBMITTAL: X DRAINAGE REPORT	SKETCH PLAT APPROVAL		
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ENGINEER'S

DRA INAGE REPORT

PIEDRA LISA PARK

TRACT C

CIBOLA ADDITION

AND A

PORTION OF PIEDRA LISA

MUNICIPAL SUBDIVISION

ZONE MAP H-23

WILSON & COMPANY ENGINEERS & ARCHITECTS
6611 GULTON COURT N.E.

ALBUQUERQUE, NM 87109



SEPTEMBER 1985

(85-516)

WILSON ECOMPANY ENGINEERS ARCHITECTS

ENGINEER'S DRAINAGE REPORT

PIEDRA LISA PARK

ZONE MAP H-23

PURPOSE & SCOPE: The City of Albuquerque Parks and Recreation Department is planning to develop a 23 acre park on property immediately downstream of the Piedra Lisa Storm Water Detention Dam.

SITE LOCATION & TOPOGRAPHY: The site is Tract C - Cibola Addition and a portion of Piedra Lisa Municipal Subdivision. The site is northeast of Menaul Blvd. and east of Punta de Vista.

The project site is not located in a designated flood hazard area.

From SCS Bernalillo County Soil Map, the project site is classified Embudo (EtC), hydrologic soil group B.

DESIGN CRITERIA: The Rationale Method is used to compute the design flows using criteria from Volume 2, City of Albuquerque Development Process Manual. The runoff coefficient of 0.38 is used for the park area. The runoff coefficient of 0.73 is used for residential area.

OFFSITE DRAINAGE: The project site is bounded on the east by the Piedra Lisa Storm Water Detention Dam which intercepts all offsite flows. The impounded water is released at a maximum flow rate of 56 cfs to the Piedra Lisa Arroyo.

The properties to the north discharge to the street system which discharges to the Piedra Lisa Arroyo where Punta de Vista Dr. crosses the arroyo. At the present time Punta de Vista discharges to the Piedra Lisa Arroyo via concrete rundowns. The concrete rundown on the east side of Punta de Vista will be replaced with a Double C catch basin.

ONSITE DRAINAGE: The existing arroyo channel will be replaced with a 30-inch diameter reinforced concrete pipe. The onsite storm water will flow to a manhole grate inlet located on the 30-inch storm drain manhole near Punta de Vista. The peak inflow rate is 43.3 cfs, with a time of concentration of 10 minutes. This is a volume of 11,979 cu.ft. The storage available to top of sidewalk elevation of 5884.65 is 1,460 cu.ft. Approximately 0.061 acre of park will be flooded for approximately 20 minutes when probable 100 year event occurs.

RECOMMENDATION: It is a commended the stormwater flow from the developed park be allowed to discharge to the Piedra Lisa Arroyo at controlled rate based on the capacity of the beehive inlet.

ATTACHMENTS:

- Calculations 1.
- 2.
- Grading plan for park improvements Plans for proposed storm drain improvements. 3.



LOC Albergueque me 35-516 COMP. RF Syker. WILSON Pratra Litt Boll SHEET COMPANY SUBS Draininge Report or 30 Aug 1985 ONSITE DRAINAGE (Park) Areg: 23.0 Ac (5% Impervious) te < 10min 2.55 Lipo Ghr. 2.55 Lipo 2.25x 2.2 = 4.95 Q100 · CiA · 0.38 x 4.95 x 230 : 43.3 cfs. Capacity of Bechive Grate. Weir = Q = CLH3/2 Capacity Grate - Perimiterx C x h 3/2 P= 17d= 71x2. 6,28 H= 84.65-83.00=1.65 what chogging ? Ocop 6 Head - 3 x 6.28 x 2.1 -13.3cfe Volume Inflow for 10 min V = Q x fime (sec) x 1/2 = V = 43.3x 10x60 x 1/2 = 12, 990 cf 0 5 10 13 Time (min Volume Out (Bechive Intel Inflow Hydrongh V= Q dop x time (see) x/2 = 39,93 x 10 x 60 x /2 = 11,939 ct. 12,990 Vol Storage Kegd. = 12,990 - 11,979 = 1011 cf. Vol Available @ Elev 84.65
Area @ Elev 85.0 = 0
Area @ Elev 81.65 = 2656 fle
Vol = 1/3 h x Area Esca
= 1/3 x 1.65 x 2656 = > 1 > 1011 cf.

m 85-516 CK.
DATE 30 Aug 1985 LOC Albuquerque WILSON PROJ Predra Lisa Pol SHEET COMPANY ENGINEERS ARCHITECTS SUEL Drainingo Report. or Area = 11.89 - 1.78 = 20.11 Acres

tc = 10 min
6 hr 100yr ramfall = 26;

lag = 2.6 x 2.2 = 5.72;

lag = 201 - Type B

Assume 65% impervious

O = 61A

D = 61A 66 x 5.72x 20.11 Acres. Capacity Grote: Q: 3x Perimeter x 436 (2X712) = 18' Q=CLH3/2 Copacity No No No Capacity Cab Opening = Q = 0 A VZgh: 5008 No No No No Q= .52 x 7.5 = 390 Q= 0.6 x 3.9 x 12x32.2x.76 Q= 16.4 & 50 Inter= 50 + 16.0 = 70.4 efs. V Total Capacity Excess flow Will be discharged to arroyo rundown on wast side fund de Visia ok