May 18, 1978

Mr. Bruno Conegliano Assistant City Engineer Hydrology City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

Re: Lot 126 Drainage Report

Dear Mr. Conegliano:

Enclosed for your review and approval are two copies of the Lot 126 Drainage Report.

If you have any questions concerning this, please feel free to contact me or Mr. Ray Macy at this office.

Sincerely yours

Model M. Emery, P.E. Vice President

Enclosures

cc: Mr. Ron Brown

RM/js Job No. 78-085



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 17, 1978

Ray Macy Bohannan-Huston, Inc. 4125 Carlisle Blvd., NE Albuquerque, New Mexico 87107

RE: Kachina Hills, Unit 1, Lot 126, Z-H-23

Dear Mr. Macy:

I have reviewed the drainage report for the above referenced lot and have no objections to the drainage scheme proposed. The drainage report is therefore hereby approved.

Very truly yours,

Bu S

Bruno Conegliano Asst. City Engineer-Hydrology

BC/gm

cc; V.M. Kimmick Richard Leonard Drainage file

# November 13, 1980

Mr. Fred Aguirre Drainage Engineer City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

Re: 12900 Kachina Place, N.E., Lot 236

Dear Mr. Aguirre:

Submitted herewith is the Splash Pad and Orifice Detail along with the Orifice Computations for the above-referenced lot.

Mr. Dick Pyatt, from Sproul Investment Corporation, is in the process of recording the surface drainage easement for Lots 231, 234 and 235 at the County Court House. As soon as I receive a filed copy of the Recorded Surface Drainage Easement, I will forward a copy to you for your files.

If you have any questions, please feel free to contact either Robert Molina or me.

Sincerely yours,

Michiel M. Emery, P.E. Vice President

cc: Mr. Dick Pyatt

RM/mnb Job No. 0 054 0



# City of . Ilbitquerque P.O. BOX 1293 ALBUOUERQUE, NEW MEXICO 87103

H23-012 November 17, 1978

Mr. Ronald Brown Executive Vice President Spyrok Corporation 5115 Menaul N.E. Albuquerque, New Mexico 87109

> Subject: Test Turnkey Project Work Authorization #T-24 KACHINA HILLS, UNIT 1, LOT 126A-WEST

Dear Mr. Brown:

Under the provisions of the Test Turnkey Project procedures, this letter is the Work Authorization to begin field work on the project.

Sincerely,

Richard 5 HD Richard S. Heller City Engineer

RSH/fs

cc - H. R. Orr Kent Nowlin Construction Co. Ray Dawson Water Resources Dwayne Sheppard Bob Kielich LaMonte Urban -Bruno Conegliano Bill Mueller Jim Wilson, Traffic Engineering

# ALBUQUERQUE, NEW MEXICO 87107 CARLISLE BLVD., N.E.

## October 14, 1980

Mr. Richard Heller City Engineer City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

Kachina Hills, Lot 126

Dear Mr. Heller:

Not year Labre

In accordance with our meeting on October 13, 1980, with Mr. Ron Brown, the Soils Report requirement for Kachine Hills, Lot 126 was waived. Also discussed in the meeting was the drainage criteria for lots 233, 234, 235 and 236 specifically and in general for the remainder of the unapproved lots. A revised grading plan will be submitted to the city for your files. It was suggested that the runoff within the four lots be discharged at a 5-year storm rate. The calculations will be based on the undeveloped condition. The drainage ponds within lots 234 and 235 will discharge drainage through concrete blocks set on their sides, causing the block openings to act as an orifice control to allow drainage from lot 235 through lot 234 and into lot 231. A type "D" inlet is located in the southwest corner of lot 231 where the drainage will be conveyed. This drainage will then be drained into the Embudo Arroyo through an existing storm sewer system. The drainage from lot 236 will be allowed to drain onto Rover Avenue through concrete blocks set on their sides, again acting as an orifice control. Curb drainage inlets are being constructed 150 feet east of the intersection of Tramway Boulevard and Rover Avenue which will easily handle the added drainage runoff from lot 236. The ponding area in lot 233 will be allowed to drain onto Kachina Place at the 5-year storm rate.

By discharging the drainage at the 5-year storm rate, we have decreased the residence time for the water to stand in the designated ponding areas, this creetes a more livable condition for the homeowner.

If you have any questions about the above interpretation, please do not hesitate to call Robert Molina or me.

Sincerely yours,

Mr. Dick Prutt IN GELDSUNG Mr. Fred Aguirre a Chicagonic

RM/is Job No. 78-085

## October 22, 1980

Mr. Dick Heller City Engineer City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103 BECEIVED OCT 2 / 1980

CITY ENGINEER

Re: Kachina Hills, Unit 1 - Lot 126 A f. le

Dear Mr. Heller:

In accordance with our meeting today, you allowed us to permit overland drainage flows through Lots 231, 234 and 235. We will submit to your Surveying Department for their approval a Grant of Easement for drainage after filing the document with the County Clerk's office,

Also discussed was the release of the remainding Building Permits. Our office will proceed with a lot by lot grading and drainage plan. Robert Molina, from our office, has prepared in detail a Grading Plan on Lots 231, 232, 233, 234, 235 and 236 which will be submitted to Fred Aguirre's office. At the time of completion of the above-referenced subdivision, an "As-Built" Grading Plan will be submitted for your files.

If you should have any comments or clarifications concerning these procedures, please advise.

Sincerely yours,

Michial M. Emery, P.E. Vice President

Middle MEn

#### **Enclosure**

cc: Mr. Dick Pyatt Mr. Fred Aguirre

Mr. Dwain Sheppard Mr. Bruno Conegliano

Job No. 0 054 0

# December 23, 1980

Mr. Bernie Montoya Building Codes Department City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

Re: Kachina Hills, Unit 1 - Lot 231

Dear Mr. Montoya:

In reference to the inlet and pipe design located at 1801 Father Sky Street, Lot 231, the storm sewer design submitted on August 1, 1980, called for a 12" RCP and not an 8" PVC pipe. After a field inspection and orifice control computations, the installed 8" PVC pipe can handle the runoff from Lots 231, 234 and 235. A copy of the record drawing has been submitted to Mr. Fred Aguirre for his files.

If you have any questions, please feel free to contact either Robert Molina or me.

Sincerely yours,

Michial M. Emery, P.E. Vice President

cc: Mr. Dick Pyatt

RM/js Job No. 0 054 0



#### December 23, 1980

Mr. Fred Aguirre **Building Codes Department** City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

Re: Kachina Hills, Unit 1

Dear Mr. Aguirre:

Submitted herewith is the Grading Plan for Kachina Hills, Lots 232 through 236, with the additional information that you required. Included with this information is a copy of the Overland Drainage Easement by Lots 231, 234 and 235.

Also submitted herewith is the additional information that you required on our Individual Site Grading Plan for Lot 236, so that the "Conditional Release" can be removed.

If you have any questions, please feel free to contact sither Robert Molina or me.

> Sincerely yours, Mich MEn

Michial M. Emery, P.E. Vice President

Enclosure

cc: Mr. Dick Pyatt

RM/js Job No. 0 054 0

# SPROUL ENTERPRISES

SPROUL ENTERPRISES, INC.
PEAGH, MORTGAGE AND INVESTMENT CORP.
DIAMOND ANALYMENTS, INC.
SPROUL REVISTMENT CORP.
SECURITY SUPPLY CO.
SPROUL HOMES, INC.
PRABEL PROPERTIES

PLEASE ADDRESS CORRESPONDENCE TO THE UNDESSIGNED AT: P.O. Box 3158 Albuquerque, New Mexico 87190

April 23, 1981

City of Albuquerque Hydrology Department Attn: Fred Aguirre P.O. Box 1293 Albuquerque, New Mexico 87103 H23-012

Re: As-Built Drainage Plan, Lots 223 thru 238 inclusive, Kachina Hills Unit 1, Lot 126-A

Dear Sir:

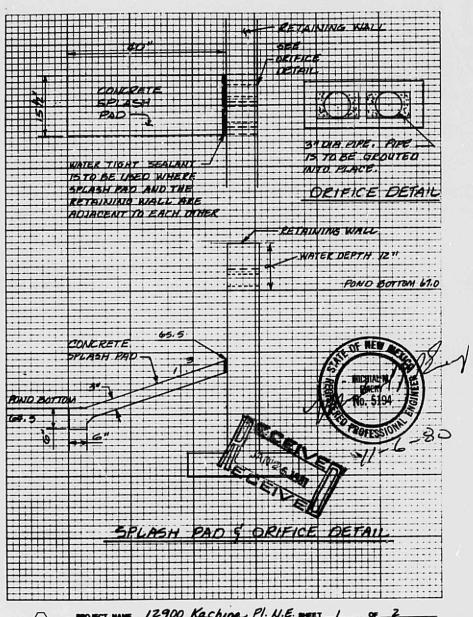
Please accept this letter as our assurance that upon completion of the above referenced subdivision we will direct Bohannan-Huston, Inc. to prepare an asbuilt drainage plan for submission to you. For your information we have four more lots to be built on, Lot 229, 234, 235 and 237.

11

Vice President

RBP/dm

cc: Bohannan-Huston Robert Molina





PROJECT NAME 12900 Kaching Pl. N.E. SHEET 1 OF 2

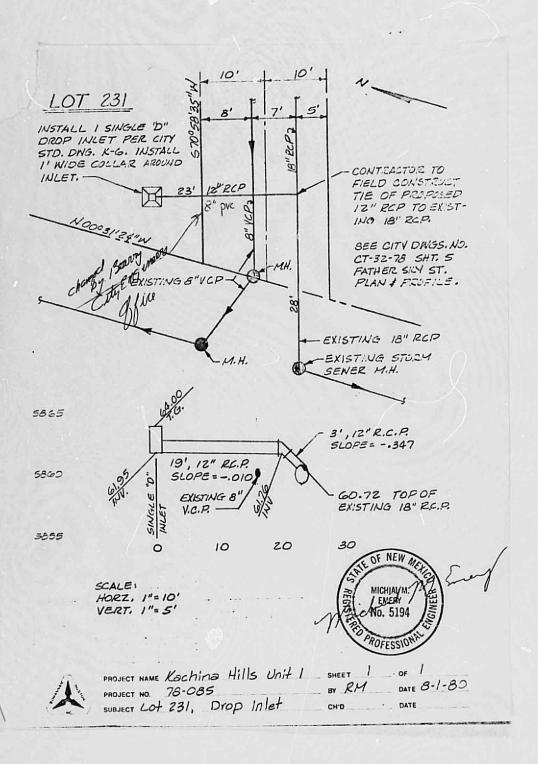
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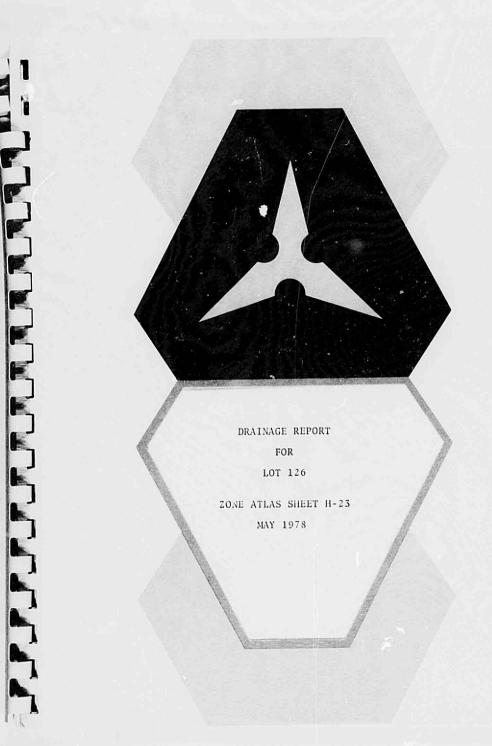
SUBJECT Orifice Opening CHD RM DATE 11/4/80

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PROJECT NAME 12900 Kachina Pl. H.E. SHEET 2 OF 2
PROJECT NO. 00540 BY RM DATE 11/4/80
SUBJECT Orifice Computations CHD RM DATE 11/4/80





DRAINAGE REPORT

FOR

LOT 126

ZONE ATLAS SHEET H-23

MAY 1978

## PREPARED FOR

SPROUL INVESTMENT CORPORATION 5115 Menaul Boulevard, N.E. Albuquerque, New Mexico 87110

## PREPARED BY

BOHANNAN-HUSTON, INC. 4125 Carlisle Boulevard, N.E. Albuquerque, New Mexico 87107

PROFESSIONAL PROPERTY OF THE P

RAYMOND W. MACY, P.E. N.M.P.E. NO. 6414

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AGE
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# APPENDIX

# CALCULATIONS

# PLATES

PLATE I PROJECT LOCATION

PLATE II UNDEVELOPED & DEVELOPED RUNOFF

# LOT 126

# DRAINAGE REPORT

#### PURPOSE

The purpose of this report is to determine the storm water runoff from Lot 126 resulting from a 100-year frequency storm. Recommendations for development of the parcel are made with respect to controlling runoff.

Lot 126 is broken into two (2) sections, east and west, for purposes of this report as shown on Plate I. Drainage from each section is discussed separately.

#### EAST SECTION

# LOCATION & DESCRIPTION

The east section of Lot 126 consists of about 3.0 acres bordered on the east by Monte Largo Drive, on the north by Rover Avenue, on the south by the Embudo Arroyo, and on the west by the west section of Lot 126, as shown on Plate II.

The natural ground slopes from east to west at about 6%. Natural soils are of decomposed granite. Vegetation consists of sparse amounts of native grasses and brush.

The proposed development is 10 single family units on the three (3) acre parcel.

# DRAINAGE BEFORE DEVELOPMENT

By using the Rational Method, natural runoff from the land, during the 100-year storm, is calculated to be 5.58 CFS, as shown in the Appendix. This water travels to the west over Lot 126 and eventually into the Embudo.

#### DRAINAGE AFTER DEVELOPMENT

To maintain developed runoff at or below undeveloped runoff flows, lot ponding will be used to contain water from approximately half of the yard and roof area in each lot. The remainder of the water will flow onto Rover Avenue.

By the use of ponding, developed runoff is decreased to 3.74 CFS, about 1.8 CFS below pre-development runoffs.

#### WEST SECTION

## LOCATION AND DESCRIPTION

The western section of Lot 126 is bordered on the north by Rover Avenue, on the east by the eastern section of Lot 126, on the south by the Embudo Arroyo and on the west by Tramway Boulevard, as shown on Plate II.

The natural ground slopes from east to west at about 5% and is made up mostly of decomposed granite. Vegetation consists of sparse amounts of native grasses and brush.

# DRAINAGE BEFORE DEVELOPMENT

Again using the Rational Method, runoff for the west section was computed by dividing the area into three (3) smaller basins, (I, II & III on Plate II) and figuring the sum total runoff from all three. The total undeveloped 100-year storm expected runoff is about 11.1 CFS, which normally travels to the west and eventually into the Embudo.

#### DRAINAGE AFTER DEVELOPMENT

Runoff from the six (6) lots in the northwestern corner of Lot 126, Basin IV on Plate II, will be controlled by ponding water from half the roof area and the rear yard, with one 4-plex ponding water from the entire roof. The remaining runoff will flow to the adjacent street then on to Rover Avenue. In this manner, flows from this section are maintained at their pre-development rate of 4.23 CFS. Flows from the remaining 10 lots, Basin V on Plate II, will flow onto the street and be carried to the southwestern edge of the development where they will be removed by a double "C" inlet, enter an 18" RCP and be carried to the Embudo Arroyo. This runoff is increased from its undeveloped rate of 6.9 CFS to 9.8 CFS, which can be handled by the Embudo Arroyo due to downstream improvements, and also because of a decrease in runoff from the eastern section.

# RECOMMENDATIONS (EAST)

- Water from half the roof and lot area should be ponded on-site.
- Grade lots to drain remaining runoff to flow onto Rover Avenue and Monte Largo Drive.

# RECOMMENDATIONS (WEST)

- 1. Use on-lot ponding to contain water from half of the roof area of five (5) of the six (6) lots in the northwestern section, Basin IV and all of the water from one (1) 4-plex in this section. See Plate II.
- Allow all runoff from the remaining ten (10) lots,
   Basin V, to flow onto the streets, and then to the southwestern corner of the area.
- Install a double "C" inlet at the southwestern cul-de-sac to pick up street flows.
- 4. Convey flow from double "C" inlet to the Embudo Arroyo by an 18" RCP.
  - 5. Construct water block at the east side entrance.

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PROJECT NAME (OT 126 (WEST) SHEET 4 OF 10

PROJECT NO. 78-085 BY DWOOD DATE 5-11-78

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PROJECT NAME 407 126 (WEST) SHEET 5 OF 10
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PROJECT NAME LOT 126 (MEST) SHEET 8 OF 10

PROJECT NO. 78-03 BY DWOOD DATE 5-11-78

SUBJECT RUNGE CONTROL CH'D DATE

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PROJECT NAME LOT 126 (WEST) SHEET 9 OF 10

PROJECT NO. 78-085 BY DWEED DATE 5-11-78

SUBJECT RUNOFF CONTROL CHD DATE

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