

Mr. Coneghino :

Attached to this note is a sheet of finished contours developed in regard to a drainage report prepared by Rich Gonzalez of MSM. We have had the drainage report in your office awaiting approval for nearly three weeks now.

Time is getting critical for the initiation of this project, and yours is the word that is needed for its start. All required parking areas have been provided: as a matter of fact, area in excess of that required is shown on the plan.

This is only a preliminary development plan, and will have to pass through your office again in the working drawing stage.

Please take a few moments to peruse it, and give me your approval. I'll be back tomorrow.

Thank you for your
consideration,
George Matforny
Rupley & Associates

RUPLEY & ASSOCIATES

ARCHITECT · PLANNER · LANDSCAPE ARCHITECT

July 18, 1978

Mr. Bruno Conegliano
City of Albuquerque
Dept. of Engineering
Flood Control and Drainage
400 Marquette Ave., N.W.
Albuquerque, New Mexico

Re: Drainage report for a portion of SU land bounded by Phoenix Ave.
and Georgine Drive, N.E.

Dear Mr. Conegliano:

Attached please find the drainage plan and calculation derived for the proper drainage use of the parcel of land described above for townhouse development and apartment development. This is submitted for your evaluation to comply with the standard resolution 72-2.

Please note that all ponding areas are noted on the plans; all calculations for the ponding areas are shown with the ponding areas. Run-off flow volume and characteristics were computed by Meurer, Serafini and Meurer, Inc for this office, as shown by the notes on sheet 2.

We would appreciate your taking the time to evaluate and approve this plan so that we may proceed with our construction on this site. The special use permit has been approved, pending this portion of the development plan to be approved by your office, city engineers, and traffic engineers.

We would appreciate any expeditious handling that may be possible with regard to this matter. Thank you for your cooperation.

Sincerely,



John D. Rupley, AIA, AILA
JDR:mv
enc.

H-221012 DECEMBER 26, 1979

AMENDED CHANGES "AS-BUILT" TO RUPLEY & ASSOCIATES
DOCUMENT DECEMBER 19, 1979, AND AS NOTED BY
FRED J. AGUIRRE (ASST. HYDROLOGY ENG.) MADE DEC.
24, 1979. DURING THIS MEETING WITH MR. AGUIRRE,
A REPRESENTATIVE OF CREST CONSTRUCTION (CONTRACTOR) & MYSELF,
IT WAS DETERMINED THAT ALL WOULD BE ACCEPTABLE IF
A BALANCE COULD BE SHOWN IN AREA "D" (PARTICULARLY LARGE
POND ON WEST). IF MR. AGUIRRE'S FIGURES ARE ASSUMED
CORRECT: THEN THE LARGE POND MUST CONTAIN

3,575 CUBIC FEET. ATTACHED DOCUMENTATION,
VERIFIED IN FIELD BY ME AND ALL GRADE ELEV.
SHOT BY ME BEAR OUT THE FACT THAT

THE POND HAS AT LEAST A CAPACITY OF
3,909.38 CUBIC FEET WHICH IS IN EXCESS
OF THE 3,573 THERE FOR OK. POND ON

SOUTH WAS INCREASED WHILE AT SITE & WILL
POND A MIN. OF 280 FT³ & WILL USE 272 FT³
TO MAINTAIN COMPUTATIONS. NORTH "D" AREA

WILL POND 944 FT³ HOWEVER CITY FIGURE OF
775 FT³ SHALL BE ASSUMED THIS WILL
DEPOSIT 169 FT³ ADDITIONAL TO STREET —

IT SHOULD & MUST BE NOTED THAT THIS
LAND IS ALLOWED 8,641 FT³ OF WHICH

202 — THERE IS ONLY 5,427 FT³ DISCHARGED
TO STREET. NOTE THIS SITE EXCEEDS CITY
OF ALBUQUERQUE STANDARDS & I HEREBY
VERIFY ALL DATA TO BE CORRECT. THIS
MEANS THIS SITE CONTAINS 3,114 FT³ MORE
THAN REQUIRED.

RESPECTFULLY SUBMITTED
J.L.V. RUPLEY AIA, AIA

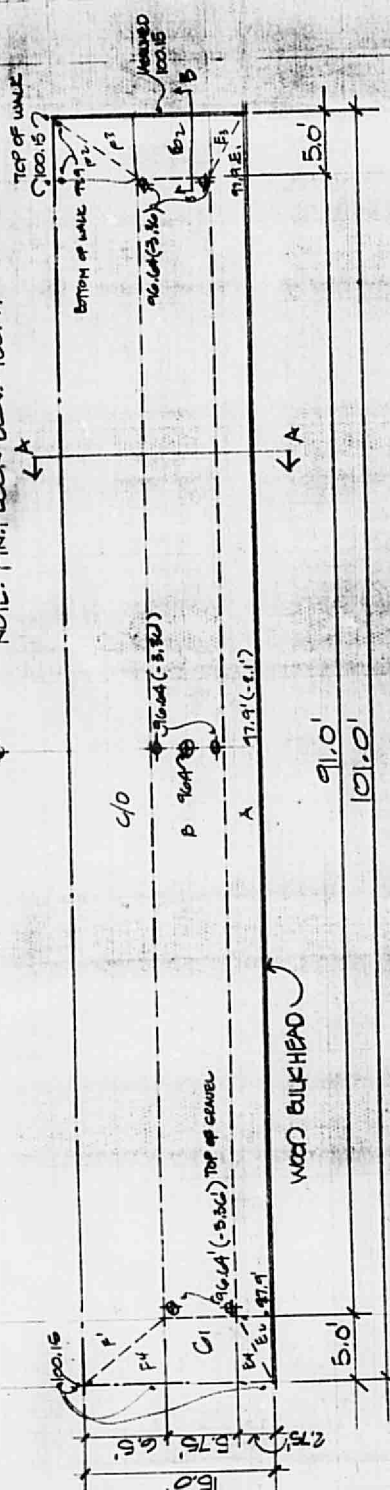
APPROVED FOR DRAINAGE

SIGNATURE

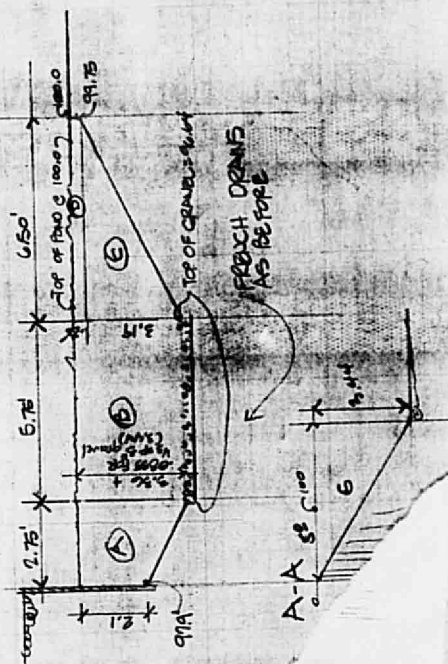
ADVISE DRAINAGE INSPECTION
WHEN GRADING BEGINS

IMMEDIATE ACTION IS REQUIRED FOR APPROVAL.

FIN. FLOOR ELEV. = 100.77'



MEASURE DRAWING OF "MAJOR ROAD" AREA "D" (IN WEST AREA - A PORTION)
ALL GRADES & DIMENSIONS BY RIPLEY & ASSOCIATES



APPROVED FOR DRAINAGE
DATE 1-17-75
SIGNATURE [Signature]
TITLE ADVISE DRAINAGE INSPECTOR
WHEN GRADING EXECUTED

51.96
 - 48.00
 3909.387 CTRY REQ'D (3575) ∴ OK.
 FREACH DEANS TOTAL =

DRAINAGE AREA "D" SOUTH

AVAILABLE RUNOFF

AREA			PERVIOUS		
1	27	3360		}	$2\frac{1}{12} (.4) =$
2	22	180	"		
3	22	180	"		
4	22	180	"		
5	22	180	"		
6	22	670	"		
7	22	6000 17,990	IMPERVIOUS	$2\frac{1}{12} (1)$	<u>3598</u>
8	22	<u>150</u>			
		<u>12470</u>	23,510 ft ² (TOTAL AREA)		$\approx 4027 \text{ ft}^3$

RUNOFF TO POND

$$\begin{array}{r}
 4027 \text{ ft}^3 \\
 272 \\
 17 \\
 17 \\
 17 \\
 17 \\
 100 \\
 \hline
 12 \\
 3575 \text{ ft}^3
 \end{array}$$

AVAILABLE PONDING (PER YOUR CALCULATION SHEET)

$$3145.07 \text{ ft}^3$$

THEY DON'T BALANCE!

DeGuerri
12-24-79

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CHECKED DEC 19 1979

AREA "D" NORTH

IMPERVIOUS = 6,364 PARKING & WALKS
1,956 BUILDINGS (870 + 1086)
576 4 BLOB ENTRIES (144 x 4)
9,096

PERVIOUS = 282 NORTH EAST CORNER
1,344 NORTH WEST CORNER.
120 BETWEEN ENTRY WALK (48 80') = 120'
240 MIDDLE UNIT 1
780 BETWEEN UNIT 1 & 2
240 middle of entry paths.
72 PORTION @ SOUTH BOUNDARY OF "D. NORTH"
3,078

TOTAL AREA OF "D NORTH" = 12,174 0'

C: COEFFICIENTS - PERU = .38 IMPERVIOUS = .90

I = Rainfall = 2.4" (in use = 2.4/12 = .2)

A = AREA OF INVOLVEMENT

V = CIA

COMPOSITE Z = WEIGHTED AVERAGE

.74(.2) + .36(.38) =

.06 + .13

Z = .79

V = E I A

V = .79(.2)12,174 = 1,923.49 CF

TOTAL PAVED AREA = 1,141.25

IMPOSED = 782.24 CF TO STREET

WITH THE ABOVE AREAS REMOVED FROM
ORIGINAL "D" WILL GIVE REQUIREMENTS FOR
"D. SOUTH"

RUPLEY & ASSOCIATES
ARCHITECT - PLANNER - LANDSCAPE ARCHITECT
305 SAN PEDRO NE
ALBUQUERQUE, NM 87108

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ORIGINAL "D"

PERVIOUS 7,763

IMPERVIOUS 20,653

PERVIOUS

ORIGINAL 7,763

LESS D NORTH (3,078)

4,685

IMPERVIOUS

ORIGINAL 20,653

LESS D NORTH (9,096)

11,557

D - SOUTH
TOTAL AREA = 16,242

$$\bar{C} = \text{IMPERV} + \text{PERV}$$

$$= .71(.90) + .29(.33)$$

$$= .639 + .110 = .75$$

$$V = \bar{C} I A$$

$$= .75 (.2) 16,242 = 2,436.3 \text{ CU. FT RUN OFF}$$

PONDING IN D - SOUTH =

3,145

→ see appendix A for calculation
LARGE WEST POND

272

SOUTH

200

BETWEEN 2 UNITS (100 EA)

65

(1 POND IN FRONT OF UNITS)

TOTAL PONDING = 3,685 CU. FT.

3,685 > 2436.3 ∴ NO RUN OFF TO STREET.

DEVELOPED VOLUME

1070 3/4 3
CHECKED DEC 19 1979

VOLUMES OF A, H & D-NORTH CONTRIBUTE TO
OFF SITE.

VOLUME OF A: 2301 CF

" " H: 1978 CF

" " D-NORTH: 782.24 CF

TOTAL VOLUME = 5,061.24 CUBIC FEET

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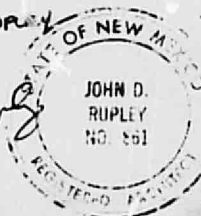
HISTORICAL VOLUME = 8,541 CU. FT.

5061.24 < 8541 ∴ STILL BELOW HISTORICAL
& THEREFORE OK.

DEC. 19, 79 RECOMPUTED

BY JOHN D. RUPLEY

J.D. Rupley

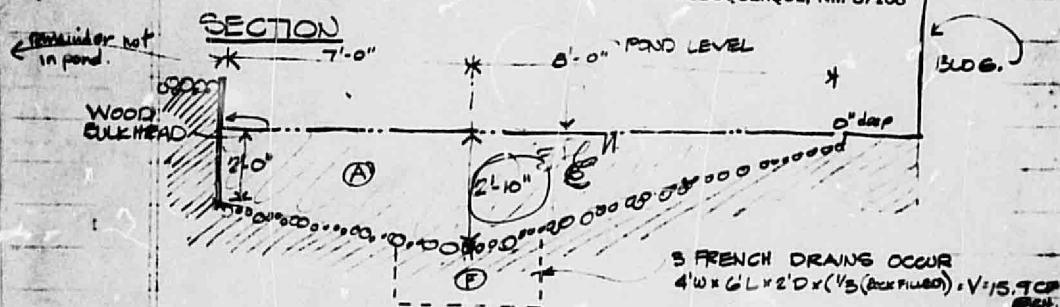


APPENDIX "A"

CHECKED DEC 19 1979

RUPLEY & ASSOCIATES
ARCHITECT PLANNER - LANDSCAPE ARCHITECT
305 SAN PEDRO NE
ALBUQUERQUE, NM 87108

REAR POND "C - SOUTH"



POND LENGTH = 105'-0"

$$A = 105 \times 7 \times \left(\frac{2.0 + 2.8333}{2} \right) = 1,776.2 \text{ C.F. } 1911 \text{ } 958$$

$$B = 105 \times 8 \times \left(\frac{2.8333}{2} \right) = 1,189.98 \text{ C.F. } 1344 \text{ } 1398$$

$$F = 3 \text{ EA FRENCH DRAINS } 3 \times 15.9 = 47.7 \text{ C.F. } 47.7$$

MIN. 3" GRAVEL COVER =

$$3 \text{ DRAINS } 4' \times 105 \times 15' = 131.19 \text{ C.F.}$$

$$\text{TOTAL POND CAPACITY} = 3,145.07 \text{ CF}$$

2021
1470
48