HYDROLOGY E11/D2 2 of 2 1 PLAN

Alternates

The State Division of Highways has indicated that the drainage in excess of the historic flows must be conveyed under Coors at a proper location and discharged to the east at a cost to be paid by others.

There are three alternatives to handling the drainage at Coors Road:

a.) Convey the flow north along Coors Road to the existing 30" pipes (approx. 1200 feet north of ~~Coors~~ Dellyne) then construct approximately 100 ft. of 24" RCP under Coors. Construction of the pipe would be accomplished at the time Coors is widened.

b.) Construct a temporary detention basin of approximately 42,000 cubic feet to detain the additional volume equivalent to 33.5 cfs adjacent to Coors at the approximate location of the existing 30" RCPS. The temporary basin would be abandoned at such time as money is available to construct the crossing under Coors.

c.) Stop the paving of Dellyne at Valle Vista and leave the street in its present graded condition east to Coors.

In conclusion, it is of benefit to pave Dellyne as the paving, even if only partial, is helping eliminate a serious siltation problem on Coors, as well as allowing better driving conditions for motorists. The amount of excess runoff above the historic flow is approximately 33.5 cfs or approximately 20 cfs depending on which of the approved studies is used. The 60 cfs indicated in the Dellyne study is the total of both the historic (with the summit) and the additional runoff from La Mariposa South. The excess runoff from west of the natural summit is the amount of additional flow to be conveyed across Coors Road.

I hope this information will be of use to you in evaluating the drainage problem on Coors Road.

Very truly yours,

MEURER, SERAFINI, AND MEURER, INC.

Carl A. Tebbens

Carl A. Tebbens, P.E.
Vice President

CAT:dw

cc: Mr. Don Greene

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR
Harry E. Kinney

CHIEF
ADMINISTRATIVE OFFICER
Frank A. Kleinhenz

November 2, 1977

Thomas J. Hacck
City of Albuquerque
Engineering Division
P.O. Box 1293
Albuquerque, New Mexico

RE: Drainage Plans for Dellyne Avenue

Dear Tom:

I have reviewed the plans for Dellyne Ave. which indicate that the runoff will be simply discharged into Coors Blvd. I would hope that a dip section of some type could be designed to prevent the 60.6cf from crossing Coors Blvd. and discharge instead on the western roadside ditch. I also feel that the culverts should be planned with R.C.P. instead of C.M.P. The item of major concern though is the adequate disposal of the runoff. Conveyance to the bar ditch on Coors Blvd. is a temporary expedient and the water collects at a low point some 5000 ft. NE of the intersection. I do not have design data on what culverts or storm drains may be present there but I feel that a minimum design criterion should be to have a clear intersection with a 10 yrs. storm. I think that this crossing needs to be analyzed and if does not meet the mentioned criterion the crossing will have to be upgraded to an adequate level.

Very truly yours,

Bruno Conegliano
Asst. City Engineer-Hydrology

BC/gm

cc; Jim Smith
V.M. Kimmick
Dwayne Sheppard
Bob Kielich
Drainage file

MEURER, SERAFINI AND MEURER, INC.

CONSULTING ENGINEERS • SURVEYORS • PLANNERS

2601 WYOMING BLVD., N.E., SUITE F • ALBUQUERQUE, NEW MEXICO 87110 • (505) 292-1936

October 10, 1977

City of Albuquerque
Engineering Division
P. O. Box 1293
Albuquerque, New Mexico

Attention: Mr. V. M. Kimmick, City Engineer
Mr. Bruno Conegliano, Asst. City Engr., Hydrology

Re: Dellyne Avenue Paving Improvements

Gentlemen:

Accompanying this letter are calculations and plan of the storm flows being conveyed by Dellyne Avenue east of the La Mariposa Channel. Reference material for this submittal includes the various drainage reports for the platted areas, AMAFCA topo maps, and previously approved grading plans.

In keeping with some of the thrust of the AMAFCA Task Force on Drainage Policy, I have run parallel computations on the basis of composite runoff coefficients and impervious area peaking.

It is our opinion that the 100-year discharge (60.6 c.f.s.) should be placed on Coors Road and therein flow in its historical course. It is further recommended that the flows adjacent to Coors Road be conveyed under Dellyne Avenue by two twenty-seven inch (27") pipe culverts with flared end sections and appropriate channel modifications to insure proper entrance and exit of storm flows.

It is realized that Coors Road will inevitably be substantially improved in the future and the management of storm flows along the west side of this road will have to be considered at the time a definitive improvement plan is developed.

I trust the above information and attached data will aid in your review of the above plans. If you have any questions, please do not hesitate to call.

Very truly yours,

MEURER, SERAFINI AND MEURER, INC.

Thomas J. Mack

cc: Mr. Don Greene

Bruno

Genge/Murray-McCormick
2601 Wyoming Blvd., N.E. Suite F
Albuquerque, N.M. 87110/505-292-1936
Engineering · Surveying · Planning
Tucson · Phoenix · Denver · Pueblo

Kimmick
La Mariposa
Loth

June 24, 1977

Mr. V. M. Kimmick
City Engineer
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Re: Engineering Design of Dellyne Avenue

Dear Mr. Kimmick:

Dale Bellamah Corporation, Inc., has retained us to prepare the complete set of improvement plans for the Engineering Design of Dellyne Avenue between Coors Road and the west boundary of La Mariposa South.

In accordance with the City's procedural requirements for processing improvement plans prepared by a private consulting engineering office, we hereby request your approval to proceed.

Very truly yours,

Carl A. Tebbens

Carl A. Tebbens, P.E.
Vice President

CAT:dw

Approved by:

V. M. Kimmick

V. M. Kimmick
City Engineer

6-27-77
Date

Desig Meeting 2 PM. Wed. June 29 to discuss preliminary grades.

HYDROLOGY E11/D2 1 of 2 1 PLAN

E11/D2

1 Plan

Use Imp. Parking for first 10 min of storm.

Dellyne Avenue Hydrology. 10-7-77

La Mariposa South.

Area B-1 1.97 Ac @ 0.66

870 x 50 = 43,500 20 Lots
20 x 1825 36,500
80,000 = 1.83 Ac

Area B-2 1.22 Ac @ 0.66

π(50²) = 7,854 9 Lots.
180 x 50 = 9,000
9 x 1825 16,425
33,279 = 0.76 Ac.

Area B-3. 2.51 Ac @ 0.61

850 x 50 = 42,500
18 x 1825 = 32,850
75,350 = 1.73 Ac

Area C-3. 4.33 Ac @ 0.50
20 Lots.

670 x 64' = 42,880
450 x 50 = 22,500
½ π(50²) = 3927
20 x 1825 36,500
105,807 = 2.42 Ac

IMPERVIOUS TEARING

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 1

Project: DELLYNE AVENUE

Drainage Area No. B-1

Area = 1.83 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = 870 S = 0.40%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 0 min.

Channel No. 1 Flow:

Velocity = 2.0 ft/sec; Time = _____ / X 60 = 7.3 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 7.3 min.

I = _____ = _____ = 5.40

Q = CIA = (1.0) (5.40) (1.83) = 9.9 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

___ % Ponded @ ___ ___

___ % Non-Ponded @ ___ ___

___ % _____ @ ___ ___

100 % TOTAL ___

IMPERVIOUS TEARING

RUNOFF COMPUTATIONS

Sheet No. 2

Project: DELLYNE AVENUE

Drainage Area No. B-2

Area = 0.76 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = 240' S = 0.40%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: _____ min.

Channel No. 1 Flow:

Velocity = 1.70 ft/sec; Time = _____ / X 60 = 2.2 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 2.2 min.

I = _____ = _____ = 5.40

Q = CIA = (1.0) (5.40) (0.76) = 4.10 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

___ % Ponded @ ___ ___

___ % Non-Ponded @ ___ ___

___ % _____ @ ___ ___

100 % TOTAL ___

IMPERVIOUS PARKING

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 3

Project: DELLYNE AVENUE

Drainage Area No. B1, B2 & B3

Area = 1.83 + 0.76 + 1.73 = 4.32 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = 450' S = 0.40%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 7.3 min.

Channel No. 1 Flow:

Velocity = 2.50 ft/sec; Time = _____ / X 60 = 3.0 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 10.3 min.

I = _____ = _____ = 5.40

Q = CIA = (1.00) (5.40) (4.32) = 23.3 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

___ % Ponded @ ___ ___

___ % Non-Ponded @ ___ ___

___ % _____ @ ___ ___

100 % TOTAL ___

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 39.

Project: DELLYNE AVENUE

Drainage Area No. B-1, B-2, & B-3

Area = 1.97+1.22+2.51=5.71 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = _____ S = _____

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: _____ min.

Channel No. 1 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 10.3 min.

I = _____ = _____ = 5.40

Q = CIA = (0.69) (5.40) (5.71) = 19.73 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

___ % Ponded @ ___ ___

___ % Non-Ponded @ ___ ___

___ % _____ @ ___ ___

100 % TOTAL ___

IMPERVIOUS TEAKING

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 4

Project: DELLYNE AVENUE

Drainage Area No. C-1 + B1, B2, & B3.

Area = 4.32 + 2.23 = 6.55 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = 200' S = 0.30%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 10.3 min.

Channel No. 1 Flow:

Velocity = 2.50 ft/sec; Time = _____ / X 60 = 1.3 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 11.6 min.

I = 189/(12+25) = 189/37 = 5.11

Q = CIA = (1.00) (5.11) (6.55) = 33.5 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

4.32	___ %	~~Ponded~~	@ 1.00	1.00
2.23	___ %	~~Non-Ponded~~	@ 1.00	1.00
	___ %	_____	@ ___	___
100 %		TOTAL		1.00

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 4a.

Project: DELLYNE AVENUE

Drainage Area No. C1 + B1, B2, & B3

Area = 5.71 + 2.23 = 7.94 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = 200' S = 0.30%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 10.3 min.

Channel No. 1 Flow:

Velocity = 2.50 ft/sec; Time = _____ / X 60 = 1.3 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 11.6 min.

I = 189/(12+25) = 189/37 = 5.11

Q = CIA = (0.74) (5.11) (7.94) = 30.02 c.f.s.

Date: _____

Comp. by: _____

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

5.71	72 %	Ponded	@ 0.64	.46
2.32	28 %	Non-Ponded	@ 1.00	.28
	___ %	_____	@ ___	___
	100 %	TOTAL		.74

IMPERVIOUS PEAKING

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 5

Project: DELLYNE AVENUE

Drainage Area No. B+C1+C2

Area = 6.55+1.04 = 7.59 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = 470 S = 0.50%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 11.6 min.

Channel No. 1 Flow:

Velocity = 3.5 ft/sec; Time = _____ / X 60 = 2.3 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 13.9 min.

I = 189/(14+25) = 189/39 = 4.85

Q = CIA = (1.00) (4.85) (7.59) = 36.8 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

___ % Ponded @ ___ ___

___ % Non-Ponded @ ___ ___

___ % _____ @ ___ ___

100 % TOTAL ___

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 54.

Project: DELLYNE AVENUE

Drainage Area No. B + C1 + C2

Area = 7.94 + 1.04 = 8.98 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = 490' S = 0.50%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 11.6 min.

Channel No. 1 Flow:

Velocity = 3.5 ft/sec; Time = _____ / X 60 = 2.33 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 13.9 min.

I = 189/(14+25) = 189/39 = 4.85

Q = CIA = (0.77) (4.85) (8.98) = 33.5 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

1.04	12 %	Ponded	@ 1.00	0.12
7.94	88 %	Non-Ponded	@ 0.74	0.65
	___ %	_____	@ ___	___
	100 %	TOTAL		0.77

IMPERVIOUS PARKING

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 6

Project: DELLYNE AVENUE

Drainage Area No. B + C1-C3

Area = 7.59 + 2.43 = 10.02 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = _____ S = _____

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 13.9 min.

Channel No. 1 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 13.9 min.

I = _____ = _____ = 4.85

Q = CIA = (1.00) (4.85) (10.02) = 48.6 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

7.59	___ % Ponded	@ ___	1.0
2.43	___ % Non-Ponded	@ ___	1.0
	___ % _____	@ ___	___
	100 % TOTAL		1.0

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 6a.

Project: Pellyne Avenue

Drainage Area No. B + C1-C3

Area = 8.98 + 4.33 = 13.31 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = _____ S = _____

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 13.9 min.

Channel No. 1 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 13.9 min.

I = _____ = _____ = 4.85

Q = CIA = (0.79) (4.85) (13.31) = 51.0 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

4.33	33 %	Ponded	@ 0.50	0.17
8.98	67 %	Non-Ponded	@ 0.77	0.52
	___ %	_____	@ ___	___
	100 %	TOTAL		0.79

IMPERVIOUS PEAKING

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 7

Project: DELLYNE AVENUE

Drainage Area No. B+C1→C4

Area = 10.02 + 1.87 = 11.89 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = 1250' S = 6%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 13.2 min.

Channel No. 1 Flow:

Velocity = 8.0 ft/sec; Time = _____ / X 60 = 2.6 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 16.5 min.

I = 189/(16+25) = 189/41 = 4.61

Q = CIA = (1.00) (4.61) (11.89) = 54.8 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

___ % Ponded @ ___ ___

___ % Non-Ponded @ ___ ___

___ % _____ @ ___ ___

100 % TOTAL ___

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 7a.

Project: DELLYNE AVENUE

Drainage Area No. B+C1→C4

Area = 13.31 + 3.53 = 16.84 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = 1250 S = 6%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 132 min.

Channel No. 1 Flow:

Velocity = 8.0 ft/sec; Time = _____ / X 60 = 26 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 165 min.

I = _____ = 4.61

Q = CIA = (0.78) (4.61) (16.84) = 606 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

13.31	79 %	Ponded	@ 0.79	0.62
1.87	11 %	Non-Ponded	@ 1.00	0.11
1.66	10 %	_____	@ 0.5	0.05
	100 %	TOTAL		0.78

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 8

Project: Dellyne Avenue

Drainage Area No. A-1

Area = 0.69 acres

Maximum Overland Flow: L = _____ S = _____

Maximum Channel Flow:

Channel No. 1 L = _____ S = _____

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: _____ min.

Channel No. 1 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 10 min.

I = _____ = _____ = 5.40

Q = CIA = (0.75) (5.40) (0.69) = 2.79 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

___ % Ponded @ ___ ___

___ % Non-Ponded @ ___ ___

___ % _____ @ ___ ___

100 % TOTAL ___

DELLYNE AVENUE HYDROLOGY. 10-7-77

T_c for O.S.1

$$K = \sqrt{\frac{L^3}{H}} = \sqrt{\frac{(1100)^3}{67}} = 4457.09$$

$$T_c = 0.0078K^{0.77} = 0.0078\,(4457.09)^{0.77} = 5.03$$

$T_c = 5$ min.

RATIONAL METHOD

RUNOFF COMPUTATIONS

Sheet No. 9

Project: Dellyne Avenue

Drainage Area No. OS.1

Area = 19.7 acres

Maximum Overland Flow: L = 1100 S = 6.00%

Maximum Channel Flow:

Channel No. 1 L = 1100 S = 2.50%

Channel No. 2 L = _____ S = _____

Channel No. 3 L = _____ S = _____

Accumulation Time

Overland Flow or Inlet Time: 5.0 min.

Channel No. 1 Flow:

Velocity = 6.0 ft/sec; Time = _____ / X 60 = 3.1 min.

Channel No. 2 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Channel No. 3 Flow:

Velocity = _____ ft/sec; Time = _____ / X 60 = _____ min.

Total Accumulation Time: T = 8.1 min.

I = _____ = _____ = 5.40

Q = CIA = (0.45) (5.40) (19.2) = 47.90 c.f.s.

Date: 10-7-77

Comp. by: [signature]

Checked by: _____

WEIGHTED RUNOFF COEFFICIENT

___ % Ponded @ ___ ___

___ % Non-Ponded @ ___ ___

___ % _____ @ ___ ___

100 % TOTAL ___

Fred

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

FYI
CARLOS
BERNIE
BILLY

INTER-OFFICE CORRESPONDENCE February 14, 1985 RDAF NO.

TO: Carl P. Rodolph, Director of M.D.D.

FROM: C. D. Sheppard, City Engineer C. D. Sheppard

SUBJECT: FEBRUARY 1, 1985 LETTER REGARDING RAY A. GRAHAM'S COORS PROPERTY

It is not clear what is being asked or if anything is being asked of the City in this letter. It is true that the City, in the past, allowed the grades on Dellyne to be established such that drainage which had not originally flowed down that street was permitted to flow easterly down Coors. At Coors such flow was routed into the westerly roadside ditch and thus through a culvert north of Dellyne and south of Montano under Coors Blvd. into an apparent historical course outfalling from the existing highway culvert.

Recently the Montano Plaza Development has been required to pond on site and allow discharge from the pond into the right-of-way of Montano road east of Coors Blvd. at a flow rate less than or equal to the original developed flow. This flow ultimately reached the M.R.G.C.D. easement for the Corrales Riverside Drain and does traverse Mr. Graham's property.

The proposed north Coors drainage management plan addressed by AMAFCA proposes to upgrade the Corrales Riverside Drain sufficiently to accept some storm drainage flows. Since the concluding sentence of the letter from Mr. Graham indicates that Mr. Graham will support efforts to address the problems but specifies "solutions" which take place off his land, I am not sure what the intent of the letter is in this regard.

I would suggest that certainly a remedy must be found before further development west of Coors is allowed to increase discharge across Coors and into the vicinity of Mr. Graham's land. As you know, we have advocated participation with AMAFCA in finding suitable outfalls for those land-locked properties between the Corrales Drain and the north Coors uplands. About all I can say now is we are hopeful that the proposed AMAFCA scheme will alleviate the problems when finally implemented.

CDS/tsl
1181E

WIGGINS & PRICE

LAWYERS

Copy to Dennis Sheppard
Info & Comments PL
Carl

February 1, 1985

Mr. Carl Rudolph
Director of Municipal Development
P.O. Box 1293
Albuquerque, New Mexico 87103

Re: Ray A. Graham III - Coors Property

Dear Mr. Rudolph:

I represent Ray A. Graham III. Mr. Graham has asked me to again bring two problems to the City's attention.

Dellyne Avenue Drainage

Enclosed are copies of several 1980 letters concerning the City's lowering, or approval of lowering, the crest of Dellyne Avenue. Apparently, the crest of Dellyne was lowered to accomodate the depth requirements for water and sewer lines in Dellyne for the Mariposa development. Lowering the crest increased the area of land which drains water to the east, thus increasing the amount of flow of water along Dellyne to Coors and then to Mr. Graham's land east of Coors. The change in the crest, in conjunction with development of adjacent land, has had a substantial adverse effect on Mr. Graham's land. Mr. Graham has asked me to point out that:

1. Mr. Graham has never consented to the movement of the crest of Dellyne or to the additional waterflows which his land experiences; and

2. The temporary solution put in place in 1980, by which waterflows east along Dellyne are routed north at Coors to an existing culvert and then under Coors to the east onto Mr. Graham's land, is unsatisfactory because the concentration of flows at this point has created significant land erosion on Mr. Graham's land.

Montano Plaza Shopping Center Drainage

Mr. Graham is informed that the City has allowed excess Montano Plaza Shopping Center drainage to flow onto the Montano extension east of Coors, then into the Corrales Riverside Drain. Mr. Graham objects to the use of the MRGCD easement across his property for storm runoff. This problem is aggravated because the ditch is not properly maintained.

Real Estate Development
Securities
Business Acquisitions
Tax Planning

Post Office Box 25424
Albuquerque, New Mexico 87125
505-842-1900

Mr. Graham has recently had discussions with AMAFCA concerning possible Corrales Riverside Drain improvements, which improvements would also apparently involve routing storm water in the vicinity of Dellyne north to Montano, and then east to the Rio Grande. Mr. Graham will support efforts to address the problems caused by the City and upstream developers with solutions which take place off of Mr. Graham's land.

Very truly yours,

Charles P. Price III

CPP:lsh

cc: Middle Rio Grande Conservancy District
(Attn: Charles Martinez)
Albuquerque Metropolitan Arroyo
Flood Control Authority
(Attn: Rich Leonard)
Ray A. Graham III

Henry

Dan

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ALBUQUERQUE
MUNICIPAL
JUL 16 1980

JULY 16, 1980

GERALD D. DAVENPORT
DIRECTOR OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION
P.O. BOX 1293
ALBUQUERQUE, NEW MEXICO 87103

DEAR MR. DAVENPORT,

I APPRECIATED YOUR LETTER OF JULY 10, 1980 RECOGNIZING THE VARIANCES GRANTED TO UPSTREAM DEVELOPERS WITH REGARD TO THEIR DRAINAGE PLANS RESULTING IN GREATER FLOW RATES AND MORE FREQUENT FLOWS IN EXCESS OF HISTORIC RAIN PATTERNS ON LA LUZ. WHILE I UNDERSTAND THE USE OF THE WORDING "MAY" TO QUALIFY ANY RESPONSIBILITY THE CITY HAS, I APPRECIATE THE INTENT AND CONCERN.

THE PROBLEM IS SEVERE AND WILL CONTINUE TO BE SO UNLESS THE CITY STOPS MAKING ALTERATIONS TO DEVELOPMENT PLANS ALLOWING DENSITIES THAT A DEVELOPER DEMANDS. I AM VERY CONCERNED ABOUT THE IMPACT OF THE LAS COLINAS DEVELOPMENT NORTH OF DELLYNE BELOW COLLEGE HEIGHTS WITH REGARD TO NEW STORM RUN-OFF.

OF EVEN GREATER CONCERN IS THE PROPOSED 46 ACRE AREA OF THE BELLAMAH TAYLOR RANCH DEVELOPMENT PLAN WHICH WILL BE RECONSIDERED JULY 31ST AT THE EPC MEETING FOR C2 ZONING. MY CONCERN STEMS FROM PREVIOUS COMPLAINTS THAT THE HYDROLOGY FOR THIS AREA HAD NOT SATISFIED STAFF REQUIREMENTS, AND WAS SO STATED IN STAFF COMMENTS TO THE EPC. I WOULD APPRECIATE YOUR REVIEW OF THEIR ZONING REQUEST PRIOR TO THE MEETING SO THAT IT MAY BE CLEARLY UNDERSTOOD THEY MAY NOT CONTINUE TO IMPACT WATER ON THE DOWNSTREAM OWNERS AS A RESULT OF ANY DEVELOPMENT PLAN THAT IS SUBMITTED AT A LATER DATE. ALSO, AS WAS SUGGESTED, THEY WILL HAVE TO ACQUIRE EASEMENTS OR WORK OUT SOLUTIONS USING STREET EXTENSIONS AT DELLYNE AND MONTANO, AS WE DISCUSSED AT OUR MEETING.

JAKE BORDENAVE WILL BE SUBMITTING TEMPORARY DIVERSION DESIGN TO BE IMPLEMENTED BY THE CITY TO RELIEVE THE PRESENT PONDING OF WATER.

SINCERELY,

Ray Graham

RAY GRAHAM

OVENWEST CORPORATION ONE LOOP ONE NW ALBUQUERQUE, NEW MEXICO 87120 (505) 898-5600

Sidney

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 10, 1980

Mr. Ray A. Graham III
One Loop One N.W.
Albuquerque, New Mexico 87120

Re: Lands of Ray Graham Easterly of the Intersection of Dellyne Road and Coors Rd. N.W.

Dear Mr. Graham:

This letter will outline the points made by you and your engineer at the meeting with Municipal Development staff on July 7, 1980.

The City realizes that development westerly of the intersection of Coors Road and Dellyne may have in some way adversely impacted your property east of Coors Road. To this end it is proposed that a temporary diversion be designed by your engineer from the oulet of the existing culverts (crossing Coors) north of Dellyne, to a suitable point on the easterly extension of Dellyne and present that design to the City. With suitable rights of entry the City will then pursue the construction of this diversion as a temporary solution to the problem.

The ultimate solution will have to be based on a complete design and acceptance of the extension of Dellyne easterly. At the time of Development of your property east of Coors Road, the City will analyze your proposal for the street and for conveyance of storm water and may participate in the cost of this ultimate solution.

Very truly yours,

Gerald D. Davenport
Director of Municipal Development

RSH/GDD/fs
cc - Richard Heller
Jake Bordenave
Stephen Charnas

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June 14, 1980

Mr. Gerald D. Davenport
Director
Municipal Development Department
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Ray A. Graham III - Damage to land east of Coors

Dear Mr. Davenport:

We are writing on behalf of Ray A. Graham III concerning the drainage along Dellyne west of the Coors-Dellyne intersection.

On September 20, 1979, we wrote you on behalf of Mr. Graham with regard to the drainage works at the intersection of Coors and Dellyne. This letter is directed at a different problem in the same area: we are concerned here with the damage to Mr. Graham that has occurred from the change in the place of discharge or water from certain areas now constituting the Ambell La Mariposa North and South Subdivisions. These subdivisions are located on Dellyne west of Coors. Mr. Graham owns land downstream from La Mariposa North and South. His land abuts Coors on the east in the vicinity of Dellyne. This change in the place of discharge has resulted in ponding of water and erosion on his land.

Our information is that, in or about 1977, the City moved the original location of the crest of Dellyne to the west, thus increasing the area which drains east along Dellyne. This, in turn, caused storm water from that area to drain east, instead of west, and increased both the size and velocity of flows eastward on Dellyne to Coors and across Coors to Mr. Graham's land. The movement of the crest in

COPY

disregard of the possible effect on Mr. Graham's land appears to constitute negligence by the City.

By contrast, if the crest of Dellyne had not been shifted, the runoff that the movement of the crest has diverted would have drained safely west into the La Mariposa channel, instead of draining east across Coors onto Mr. Graham's land and causing damage to Mr. Graham.

We do not know why the City moved the crest of Dellyne west, thus increasing the eastward flowing drainage, but the records of your office may supply the reason.

The movement west of the crest of Dellyne by the City appears to have been not only negligent, but a clear violation of the Drainage Resolution 1972-2 of the Albuquerque Metropolitan Arroyo Flood Control Authority ("the Resolution"): that is, it constituted an alteration of the natural topography and drainage pattern of land within AMAFCA's territory in a manner which would not satisfy the 100 year storm requirements of the Resolution (Sections 2 and 3). If a 100-year storm were to occur, the storm water runoff from this drainage area will discharge in a manner which, we are told, will exceed the capacity of downstream storm drainage facilities to intercept and convey the storm waters without causing substantial damage to Mr. Graham's property.

Under § 8 of the Resolution, the City Engineer of the City of Albuquerque acts in the name and place of the Executive Engineer of AMAFCA in administering the Resolution. Mr. Graham believes that the City itself did the work of moving the crest of Dellyne west, and thus the City itself is in the anomalous position of violating the Resolution that it was supposed to administer. Mr. Graham is not aware of the issuance of any waiver of the requirements of the Resolution with respect to the movement west of the crest of Dellyne. If such a waiver was issued, please advise us and give us the reason.

By this letter Mr. Graham puts you on notice that he holds the City responsible for damage to his property as described in this letter.

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A PROFESSIONAL CORPORATION

Mr. Graham would be pleased to meet with you, if you wish, to discuss his thoughts on a solution to this problem.

Very truly yours,

SUTIN, THAYER & BROWNE
A Professional Corporation

By _____
Stephen Charnas

SC:nr

cc: Mr. Richard Heller
Mr. Ray A. Graham III
Mr. Jake Bordenave

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ALBUQUERQUE, N.M.
FEB 19 198
MUNICIPAL DEV.
ADMIN.

LA LUZ DEL SOL

Jan
Pls review attachments, talk to Dwayne and Rich Leonard and provide a proposed draft response to Leche. Probably will need, subsequent to my review, to discuss with legal. Ceo

February 14, 1985

Mr. Rich Leonard
Albuquerque Metropolitan
Arroyo Flood Control Authority
P.O. Box 25851
Albuquerque, NM 87125

Dear Rich,

Thank you again for taking the time to meet with us on December 17 concerning our preliminary comments on the study for the improvement of the Corrales Riverside Drain. The study and our meeting caused me to sit with my attorney and my engineer to redefine the issues facing my property on Coors. I presently see the following matters that need resolution:

I. Corrales Riverside Drain Improvements. AMAFCA is studying ways to improve and to alter the ditch because AMAFCA can foresee that West Side development will increase flows of nonretained water, and the flows cannot be carried in existing water courses to the Rio Grande. Specifically, on my land, AMAFCA is indicating that the ditch may have to be widened to accomodate anticipated flows. There is a history of non maintenance of this area which has been a detriment to my land. I would prefer to have all storm water flows diverted north of Montano Road.

My engineer, Jake Bordenave, and I believe that additional upstream flows can be directed to the Rio Grande north of my property, without the necessity for additional construction on my property. I have a strong preference for that kind of solution. In any event, I will continue to work with AMAFCA toward the most appropriate solution to the ditch improvement problem. I will continue to provide you my input for solutions, whether or not requested, and I will suggest that any improvements in the drain be paid for by the upstream property owners who are contributing additional flows to the drain. AMAFCA's proposals should also consider the levee design system proposed by the Bureau of Reclamation.

II. Conveyance of Flows from Lands West of My Property. Although I recognize the practical problems faced by flood control authorities when developers do not care to retain water on developed land, I do not intend to allow any upstream development to alter historical waterflows (as to amount, frequency, or flow pattern) upon my land without my consent. Obviously, I will support the alternatives discussed at our meeting, which involve routing upstream water northerly along Coors to the vicinity of Montano, then easterly to the Rio Grande across property other than my own.

On December 17, I again raised the problem caused by existing upstream development along Dellyne, and the problem of the Montano Plaza Shopping Center drainage overflow into Montano. I have asked my attorney to again address these problems with the City, and a copy of his letter is enclosed for your information.

III. San Antonio Arroyo. Perhaps it is time to dust off our materials regarding improvement of the San Antonio Arroyo east of Coors. My criteria for improvement are:

A. Restrict San Antonio Arroyo flows to historic flows, in terms of frequency, amount, and flow patterns (this criterion has already been violated by upstream La Mariposa Channel increases in flow);

B. Define San Antonio Arroyo boundaries so that future development can be pursued;

C. Put in place a permanent San Antonio Arroyo crossing for lift station 24;

D. Coordinate with the City for a design solution for a permanent 12-inch sewer line across Coors;

E. Preserve minimum flows necessary for the Ox Bow outlet; and

F. Achieve the above criteria with minimum adverse effect on my adjacent property.

In the past, we were unable to resolve the flow rate/frequency problem. Perhaps the last two years have provided us with a new perspective from which to view this problem.

We should get together next week to begin serious discussions on these matters. Thank you.

Sincerely,

Ray A. Graham III

Ray A. Graham III

RAG:vel
cc: Charles P. Price III
Jake Bordenave

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October 29, 1980

HAND DELIVERED

Councilor Tom Hoover
Chairman, Special Committee
for the Northwest Mesa Area Plan
City Council Offices
400 Marquette, N.W.
Albuquerque, New Mexico 87102

Northwest Mesa Area Planning
Guidelines

Dear Councilor Hoover:

We represent Ovenwest Corporation and Mr. Ray Graham. We understand that your committee is reviewing the Northwest Mesa Area Planning Guidelines for the City Council. Mr. Graham has asked that we provide your committee with the following comments concerning the land owned by Ovenwest, located at the southeast intersection of Coors and Montano.

The Special Committee is probably aware that the Environmental Planning Commission approved the La Luz Master Plan on February 23, 1968 (S-68-4) and has since approved annexation of several portions of the La Luz property. The La Luz Master Plan was a prerequisite for the original annexation of 20 acres of the La Luz Property. We consider the EPC's February 1968 approval to bind the City, to allow development generally in accordance with the La Luz Master Plan.

The approved La Luz Master Plan reflects approximately 70 acres at the southeast intersection of Coors and

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Montano designated "Regional Shopping Center - Limited Residential". The proposed Northwest Mesa Area Guidelines would limit the commercial development at this intersection to 50 acres. We understand that the population projections supporting the 50-acre limitation are based on 1995 population figures, while longer-range population projections support the 70-acre commercial development. Surely the guidelines for West Mesa development must look further than 15 years ahead. We request that the Area Plan allow development of 70 acres of commercial property as shown on the La Luz Master Plan.

At the City's request, the La Luz Master Plan addressed Coors traffic solutions and the Montano bridge crossing. The La Luz Master Plan reflects access to the La Luz property from Montano. We request that the Area Plan, when adopted, also reflect such access. Mr. Graham will continue to work closely with the City traffic engineer regarding the Coors Corridor Study and the Montano bridge crossing.

Finally, we request that the guidelines, when adopted, address the drainage requirements for the area. The committee may be aware that as the City and land owners have improved property upstream of La Luz (on the west side of Coors), those improvements have had adverse effects on the La Luz property, by increasing both the amount and the velocity of flows eastward to Coors and across Coors to the La Luz property. We are concerned that the improvement of the Ambell property at the southwest corner of the Coors/Montano intersection, for instance, might increase flows across the La Luz property. We ask that the Area Plan require any West Mesa developer and the City to comply with Drainage Resolution 1972-2 of the Albuquerque Metropolitan Arroyo Flood Control Authority, in that the natural topography and drainage patterns of the land

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developed should not be altered to the detriment of downstream landowners.

Very truly yours,

SUTIN, THAYER & BROWNE
A Professional Corporation

By Charles P. Price III

CPP:do

cc: Mr. Ray A. Graham III
Mr. Van H. Gilbert
Mr. Vern Hagen
Mr. Gerald Davenport

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0098

LA LUZ DEL SOL

AUGUST 11, 1980

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AUG 13 1980
CITY ENGINEER

MR. RICHARD E LEONARD
EXECUTIVE ENGINEER
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY
2600 PROSPECT, N.E.
P.O. BOX 25851
ALBUQUERQUE, NEW MEXICO 87125

SAN ANTONIO ARROYO

DEAR RICH:

I RECEIVED A COPY OF YOUR LETTER DATED JULY 29, 1980, TO PAUL NOLAND. AT OUR MEETING ON JULY 29, I FELT THAT WE MADE A GOOD START TOWARD A UNIFIED PROGRAM OF CITY AND AMAFCA IMPROVEMENTS ON MY PROPERTY. I AM NOT GOING TO LET AMAFCA AND THE CITY OFF THE HOOK BY AGREEING TO ALLOW SAN ANTONIO ARROYO IMPROVEMENTS WITHOUT FIRST TYING DOWN THE SEWER, WATER, AND ROAD CROSSING ASPECTS OF THE IMPROVEMENTS. I AM CERTAIN THAT AMAFCA'S INTERESTS AND THE CITY'S INTERESTS, AS WELL AS MY OWN, ARE BEST SERVED BY THOUGHTFUL COORDINATION OF ARROYO, WATER, SEWER, AND OTHER PUBLIC IMPROVEMENTS AT THIS TIME.

SINCERELY,

RAY A. GRAHAM III

CC: MR. PAUL NOLAND
MR. RICHARD HELLER
MR. ROBERT FOSNAUSH
MR. JAKE BORDENAVE
MR. CHARLES P. PRICE III

RSH	RNA	ADM	
HRO		SUR	
CDS		COUN	
DES		SEC	
INSP		FILE	
HYDRO	R.C.	RETURN	

OVENWEST CORPORATION ONE LOOP ONE NW ALBUQUERQUE, NEW MEXICO 87120 (505) 898-5600

Ray Graham
898-5600
7/21/80

Bruno-

I have left two letters which deal with the continuing drainage problem from Dellyne to Montaño along Coors as effects La Luz.

We had a 15 minute rain Saturday afternoon and the storm run off jumped the curb at Dellyne + Coors + the drop inlets continuing straight on to Coors.

Las Colinas (18-A) (Bellamah masterplan for Taylor Ranch) will be adding flow rates when they ~~pay~~ pave far in excess of historic flows.

Could we discuss your position on the July 31 appeal by Bellamah for C-2 zoning.

Thank you.

JULY 16, 1980

GERALD D. DAVENPORT
DIRECTOR OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION
P.O. BOX 1293
ALBUQUERQUE, NEW MEXICO 87103

DEAR MR. DAVENPORT,

I APPRECIATED YOUR LETTER OF JULY 10, 1980 RECOGNIZING THE VARIANCES GRANTED TO UPSTREAM DEVELOPERS WITH REGARD TO THEIR DRAINAGE PLANS RESULTING IN GREATER FLOW RATES AND MORE FREQUENT FLOWS IN EXCESS OF HISTORIC RAIN PATTERNS ON LA LUZ. WHILE I UNDERSTAND THE USE OF THE WORDING "MAY" TO QUALIFY ANY RESPONSIBILITY THE CITY HAS, I APPRECIATE THE INTENT AND CONCERN.

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JAKE BORDENAVE WILL BE SUBMITTING TEMPORARY DIVERSION DESIGN TO BE IMPLEMENTED BY THE CITY TO RELIEVE THE PRESENT PONDING OF WATER.

SINCERELY,

RAY GRAHAM

OVENWEST CORPORATION ONE LOOP ONE NW ALBUQUERQUE, NEW MEXICO 87120 (505) 898-5600

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 10, 1980

Mr. Ray A. Graham III
One Loop One N.W.
Albuquerque, New Mexico 87120

Re: Lands of Ray Graham Easterly of the Intersection of Dellyne Road and Coors Rd. N.W.

Dear Mr. Graham:

This letter will outline the points made by you and your engineer at the meeting with Municipal Development staff on July 7, 1980.

The City realizes that development westerly of the intersection of Coors Road and Dellyne may have in some way adversely impacted your property east of Coors Road. To this end it is proposed that a temporary diversion be designed by your engineer from the oulet of the existing culverts (crossing Coors) north of Dellyne, to a suitable point on the easterly extension of Dellyne and present that design to the City. With suitable rights of entry the City will then pursue the construction of this diversion as a temporary solution to the problem.

The ultimate solution will have to be based on a complete design and acceptance of the extension of Dellyne easterly. At the time of Development of your property east of Coors Road, the City will analyze your proposal for the street and for conveyance of storm water and may participate in the cost of this ultimate solution.

Very truly yours,

Gerald D. Davenport
Director of Municipal Development

RSH/GDD/fs
cc - Richard Heller
Jake Bordenave
Stephen Charnas

RICHARD E. LEONARD
EXECUTIVE ENGINEER

B. H. SWINBURNE, CHAIRMAN
WILLIAM V. HEREFORD, VICE-CHAIRMAN
FRANCES McCOY, SECRETARY-TREASURER
VERNON OOAK, DIRECTOR
KLESTON LAWS, DIRECTOR

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority
2600 PROSPECT AVE. N.E.
P. O. BOX 25851 - ALBUQUERQUE, N. M. 87125
TELEPHONE 344-3516

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CITY ENGINEER

June 17, 1980

Memo For: Board of Directors
Director of Municipal Development, City
Director of Water Resources, Attn: [illegible] Nickerson
✔City Engineer
Planning Division Chief, City
F. Denney
L. Gross
D. Roberton, Bellamah
V. Kimmick, Bellamah

Subject: La Mariposa - Open Channel vs Closed Conduit North of Montano Road

Others are formulating plans for the Taylor Ranch area from Montano Road northeastward to our proposed detention pond. Accordingly, we need to resolve the question of whether this reach of La Mariposa Channel will be an open ditch or a closed conduit.

This topic will be on the Board's June 26th agenda, commencing at approximately 3:30 p.m. All concerned are invited to make your views known at the meeting.

By copy of this memo, I request Fred Denney & Associates to brief the meeting on the relative merits of the two alternatives.

Richard E Leonard

Richard E. Leonard
Executive Engineer

Comments? Someone knowledgable needs to attend - perhaps a member of the Westside T. Force.

ic

Concur [illegible] 6/18

RSH	RSA	ADM	
HRO	HRO	SUR	
CDS	[illegible]	COUN	
DES		SEC	
INSP		FILE	
HYDRO	D. C.	RETURN	RSA

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CITY ENGINEER

June 16, 1980

Mr. Gerald D. Davenport
Director
Municipal Development Department
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Ray A. Graham III - Damage To
Land East of Coors

Dear Mr. Davenport:

Our letter, dated June 13, 1980, on behalf of Mr. Graham contained an error in the text which has been corrected in the enclosed letter.

Please consider the enclosed letter as our official notice to the City and disregard the letter of June 13.

Very truly yours,

SUTIN, THAYER & BROWNE
A Professional Corporation

By Stephen Charnas
Stephen Charnas

SC:EAF:nr
Enclosure

cc: Mr. Richard Heller
Mr. Ray A. Graham III
Mr. Jake Bordenave

Dick - Bruce should have a file on this - I think additionally we shifted flow areas around in a way in which hopefully we can show a reasonable +/- balance RIP

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ALISON K. SCHULER
RONALD SEGEL
JONATHAN B. SUTIN
MICHAEL G. SUTIN
NORMAN S. THAYER
RICHARD L. C. VIRTUE
ROBERT J. WERNER
MARIANNE WOODARD
JOHN W. ZAVITZ

ALBUQUERQUE OFFICE
FIRST PLAZA
POST OFFICE BOX 1945
ALBUQUERQUE, NEW MEXICO 87103
505-842-8200

SANTA FE OFFICE
215 WASHINGTON AVENUE
POST OFFICE BOX 2187
SANTA FE, NEW MEXICO 87501
505-988-5521

June 14, 1980

Mr. Gerald D. Davenport
Director
Municipal Development Department
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Ray A. Graham III - Damage to land east of Coors

Dear Mr. Davenport:

We are writing on behalf of Ray A. Graham III concerning the drainage along Dellyne west of the Coors-Dellyne intersection.

On September 20, 1979, we wrote you on behalf of Mr. Graham with regard to the drainage works at the intersection of Coors and Dellyne. This letter is directed at a different problem in the same area: we are concerned here with the damage to Mr. Graham that has occurred from the change in the place of discharge of water from certain areas now constituting the Ambell La Mariposa North and South Subdivisions. These subdivisions are located on Dellyne west of Coors. Mr. Graham owns land downstream from La Mariposa North and South. His land abuts Coors on the east in the vicinity of Dellyne. This change in the place of discharge has resulted in ponding of water and erosion on his land.

Our information is that, in or about 1977, the City moved the original location of the crest of Dellyne to the west, thus increasing the area which drains east along Dellyne. This, in turn, caused storm water from that area to drain east, instead of west, and increased both the size and velocity of flows eastward on Dellyne to Coors and across Coors to Mr. Graham's land. The movement of the crest in

COPY

disregard of the possible effect on Mr. Graham's land appears to constitute negligence by the City.

By contrast, if the crest of Dellyne had not been shifted, the runoff that the movement of the crest has diverted would have drained safely west into the La Mariposa channel, instead of draining east across Coors onto Mr. Graham's land and causing damage to Mr. Graham.

We do not know why the City moved the crest of Dellyne west, thus increasing the eastward flowing drainage, but the records of your office may supply the reason.

The movement west of the crest of Dellyne by the City appears to have been not only negligent, but a clear violation of the Drainage Resolution 1972-2 of the Albuquerque Metropolitan Arroyo Flood Control Authority ("the Resolution"): that is, it constituted an alteration of the natural topography and drainage pattern of land within AMAFCA's territory in a manner which would not satisfy the 100 year storm requirements of the Resolution (Sections 2 and 3). If a 100-year storm were to occur, the storm water runoff from this drainage area will discharge in a manner which, we are told, will exceed the capacity of downstream storm drainage facilities to intercept and convey the storm waters without causing substantial damage to Mr. Graham's property.

Under § 8 of the Resolution, the City Engineer of the City of Albuquerque acts in the name and place of the Executive Engineer of AMAFCA in administering the Resolution. Mr. Graham believes that the City itself did the work of moving the crest of Dellyne west, and thus the City itself is in the anomalous position of violating the Resolution that it was supposed to administer. Mr. Graham is not aware of the issuance of any waiver of the requirements of the Resolution with respect to the movement west of the crest of Dellyne. If such a waiver was issued, please advise us and give us the reason.

By this letter Mr. Graham puts you on notice that he holds the City responsible for damage to his property as described in this letter.

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LAW OFFICES OF
SUTIN, THAYER & BROWNE
A PROFESSIONAL CORPORATION

Mr. Gerald D. Davenport
June 14, 1980
Page Three

Mr. Graham would be pleased to meet with you, if you wish, to discuss his thoughts on a solution to this problem.

Very truly yours,

SUTIN, THAYER & BROWNE
A Professional Corporation

By Stephen Charnas
Stephen Charnas

SC:nr

cc: Mr. Richard Heller
Mr. Ray A. Graham III
Mr. Jake Bordenave

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SUTIN, THAYER & BROWNE
A PROFESSIONAL CORPORATION

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505-842-8200

RECEIVED
JUN 16 1980
CITY ENGINEER

June 13, 1980

Mr. Gerald D. Davenport
Director
Municipal Development Department
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Ray A. Graham III - Damage to
land east of Coors

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LAW OFFICES OF
SUTIN, THAYER & BROWNE
A PROFESSIONAL CORPORATION

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SUTIN, THAYER & BROWNE
A PROFESSIONAL CORPORATION

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Very truly yours,

SUTIN, THAYER & BROWNE
A Professional Corporation

By Stephen Charnas
Stephen Charnas

SC:lkr

cc: Mr. Richard Heller
Mr. Ray A. Graham III
Mr. Jake Bordenave

COPY

RICHARD E. LEONARD
EXECUTIVE ENGINEER

S. H. SWINBURNE, CHAIRMAN
WILLIAM V. HEREFORD, VICE-CHAIRMAN
FRANCES McCOY, SECRETARY-TREASURER
VERNON DOAK, DIRECTOR
KLESTON LAWS, DIRECTOR

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority
2600 PROSPECT AVE. N.E.
P. O. BOX 25851 - ALBUQUERQUE, N. M. 87125
TELEPHONE 344-3516

RECEIVED
JUN 13 1980
CITY ENGINEER

June 12, 1980

Mr. John Robert
Andrews, Asbury & Robert, Inc.
401 San Pedro, NE
Albuquerque, NM 87108

Dear Mr. Robert:

Ref: Sperry Summary Plat (A Portion of Section 11, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico. March 1980.)

In view of the urgency expressed by you for approval of this plat, I am prepared to sign it without delay. However, the Drainage Report has not yet been approved and my signature on the plat does not constitute approval of the Drainage Report. Accordingly, the City Engineer and I have agreed that building permits will not be issued until the Drainage Report is approved.

Sincerely,

Richard E. Leonard

Richard E. Leonard
Executive Engineer

ic
cc: Mr. Heller ✓
Mr. Conegliano

RSH	RSA	ADM	
HRO		SUR	
CDS		COUN	
DES		SEC	
INSP		FILE	
HYDRO		RETURN	

Copy to Fred

T. T. Burnett Engineering, Inc.
Consulting Engineers
120 MORNINGSIDE N. E.
ALBUQUERQUE, NEW MEXICO 87108

TELEPHONE
(505) 255-7545

February 1, 1980

RECEIVED
FEB 05 1980
CITY ENGINEER

Mr. Bruno Conegliano
Asst.City Engineer - Hydrology
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Dear Mr. Conegliano:

Enclosed are copies of the letters you requested.

Very truly yours,

Jean J. Bordenave
President

LA LUZ DEL SOL

RECEIVED
FEB 01 1980
CITY ENGINEER

JANUARY 30, 1980

MR. RICHARD E. LEONARD, EXECUTIVE ENGINEER
AMAFCA
2600 PROSPECT AVENUE N.E.
P.O. BOX 25851
ALBUQUERQUE, NEW MEXICO 87125

DEAR RICH:

I UNDERSTAND FROM JAKE BORDENAVE THAT AT YOUR BOARD MEETING LAST THURSDAY PHASE I OF THE SAN ANTONIO ARROYO STUDY WAS APPROVED FOR FURTHER DETAILING. I WOULD LIKE TO EMPHASIZE SOME POINTS THAT WERE PREVIOUSLY DISCUSSED.

1) AMAFCA, THE CITY OF ALBUQUERQUE ENGINEERING DEPARTMENT, AND WATER RESOURCES DEPARTMENT WILL EXAMINE AND DESIGN AN ADEQUATE CONCRETE DIP CROSSING AT THE POINT WHERE THE EXISTING CITY EASEMENT CROSSES THE ARROYO FOR ACCESS MAINTENANCE OF THE SEWER LIFT STATION.

2) WE ARE CONCERNED UPON EXAMINATION OF THE PLANS BROUGHT OVER BY LOU GROSS THAT WE ARE LOOKING AT 10 FOOT GABION DROP STRUCTURES. WE DO NOT BELIEVE THIS SOLUTION IS IN KEEPING WITH ANY PREVIOUS DISCUSSIONS AND WOULD NEGATE THE LA LUZ CONCEPT OF A NATURAL PEDESTRIAN PATHWAY.

3) THERE EXISTS SOME CONFUSION AS TO WHERE THE MAINTENANCE ROAD WILL FINALLY BE PLACED ALONG THE ARROYO. LOU GROSS EXPLAINED WHILE THE PLAN SHOWS THE ROAD ON THE SOUTH SIDE OF THE ARROYO THE PREFERENCE WOULD NOW BE TO PLACE IT ON THE NORTH SIDE.

I WOULD APPRECIATE YOUR KEEPING IN TOUCH AS THE PLANS REACH THE NEXT STEP OF COMPLETION.

CORDIALLY,

Ray A Graham

RAY A. GRAHAM III

RAG:LS
CC: JAKE BORDENAVE
STEPHEN CHARNAS
RICHARD S. HELLER
PAUL D. NOLAND

OVENWEST CORPORATION ONE LOOP ONE NW ALBUQUERQUE, NEW MEXICO 87120 (505) 898-5600

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505-842-8200

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215 WASHINGTON AVENUE
POST OFFICE BOX 2187
SANTA FE, NEW MEXICO 87501
505-988-5521

January 23, 1980

Mr. J. Victor Pongetti
Attorney at Law
Johnson & Lanphere
Suite 200 West
6400 Uptown Blvd., N.E.
Albuquerque, New Mexico 87110

La Mariposa Proposed Drainage

Dear Victor:

I enclose a letter to me from Ray Graham's engineer about the drawings you sent me, commenting that the design flow will not be contained by the ditch at the change in direction. I take that to mean the flow will continue to run on to Mr. Graham's land. That makes the plans unsatisfactory as far as Mr. Graham is concerned.

Mr. Bordenave believes the City has not seen the drawings you sent me.

Very truly yours,

SUTIN, THAYER & BROWNE
A Professional Corporation

By Stephen Charnas
Stephen Charnas

SC:dw
Enclosure

cc: Mr. Ray A. Graham III
Jean J. Bordenave

COPY

January 11, 1980

Mr. Stephen Charnas
Attorngy at Law
Sutin, Thayer & Browne
P. O. Box 1945
Albuquerque, New Mexico 87103

Re: La Mariposa Proposed Drainage

Dear Sir:

I have reviewed the plans for the La Mariposa South Drainage ditch, and I have two comments. One, the abrupt change in direction at Station 13+68 will not contain the design flow without additional improvements. Two, the City has not informally approved these drawings. The City has not seen these drawings and, in fact, is not the governing agency, as the land is not within the municipal limits. The City has commented on the project, their comment being to construct a ditch that is more or less parallel to the contours so as to maintain a relatively flat slope.

I have discussed this project with Mr. Graham, and he is aware of the above comments.

Very truly yours,

Jean J. Bordenave
President

ms

JOHNSON AND LANPHERE, P.C.
ATTORNEYS AND COUNSELORS AT LAW
6400 UPTOWN BOULEVARD NE, SUITE 200 WEST
ALBUQUERQUE, NEW MEXICO 87110

AREA CODE 505
TELEPHONE 881-3333

E. C. IDEN (1898-1951)
BRYAN G. JOHNSON
COUNSEL
ERIC D. LANPHERE
J. VICTOR PONCETTI
DENNIS M. McCARY
BILL CHAPPELL, JR.
THOMAS J. McBRIDE
JIM DINES
D. JAMES BORENSON
FLOYD D. WILSON
NICHOLAS R. GENTRY
JOHN A. MYERS
ERIC L. MERL
MICHAEL A. GROSS

December 14, 1979

Mr. Stephen Charnas
Attorney at Law
Sutin, Thayer & Browne
P.O. Box 19[illegible]
Albuquerque, N.M. 87103

Re: LA MARIPOSA PROPOSED DRAINAGE.

Dear Steve:

I am enclosing the long-awaited construction plans for the drainage proposed by my clients. Would you see if Mr. Graham has any input into these at your earliest opportunity so we can proceed with their construction.

The City has informally approved these drawings. The formal approval was withheld because the land itself is not within the City Limits as of yet.

Very truly yours,

JOHNSON AND LANPHERE, P.C.

BY J. Victor Poncetti

JVP/pac
Encl.

RICHARD E. LEONARD
EXECUTIVE ENGINEER

B. H. SWINBURNE, CHAIRMAN
WILLIAM V. HEREFORD, VICE-CHAIRMAN
FRANCES McCOY, SECRETARY-TREASURER
VERNON DOAK, DIRECTOR
ELESTON LAWS, DIRECTOR

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority
2600 PROSPECT AVE. N.E.
P. O. BOX 25551 - ALBUQUERQUE, N. M. 87125
TELEPHONE 344-3516

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OCT 02 1979
CITY ENGINEER

October 1, 1979

Mr. Gerald D. Davenport, Director
Department of Municipal Development
City of Albuquerque

Dear Mr. Davenport:

Reference our meeting this morning concerning storm water concentration and diversion associated with land development.

Attending the meeting were: J. Davenport, E. Hensch, B. Conegliano, P. Dow, S. Zuris, and R. Leonard.

After examining several typical cases and discussing the legal and pragmatic problems, everyone in attendance agreed that the City and AMAFCA would follow these general guidelines:

a. Developers may manage storm water so that it enters the streambed of an established watercourse at a location different than under natural conditions.

b. Developers must arrange for the passage of unnaturally concentrated or diverted storm water to the streambed of an established watercourse. Where channel or pipe maintenance is foreseen, the developer may be required to furnish public authority with a suitable easement.

If you or anyone who attended the meeting disagrees with my summary, please notify me in writing prior to October 10, 1979.

Sincerely,

Richard E. Leonard

Richard E. Leonard
Executive Engineer

ic
cc: Attendees

SEP 24 1979

LAW OFFICES OF
SUTIN, THAYER & BROWNE
A PROFESSIONAL CORPORATION

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POST OFFICE BOX 2187
SANTA FE, NEW MEXICO 87501
505-988-5521

September 20, 1979

Gerald D. Davenport
Director of Municipal Development
P. O. Box 1293
Albuquerque, New Mexico 87103

Dear Mr. Davenport:

Our client is Ray A. Graham III, who owns property in Albuquerque which abuts the east side of Coors Boulevard at the intersection of both Coors and Dellyne and Coors and Montano. On August 22, 1979, we gave the State Highway Department written notice that the drainage works being constructed in the State Highway Department right-of-way on Coors Boulevard in the vicinity of Dellyne and in the vicinity of Montano would modify the drainage patterns in those areas in ways that would seriously damage Mr. Graham.

The State Highway Department responded by letter dated September 4, 1979, (copy enclosed) advising that it has "dual jurisdiction in this area with the City of Albuquerque" thus suggesting that the City shares responsibility in this matter.

Please advise us of the City's position.

Mr. Graham disagrees with many of the assumptions as to facts expressed and implied in the Highway Department's letter.

Very truly yours,

SUTIN, THAYER & BROWNE
A Professional Corporation

By Stephen Charnas
Stephen Charnas

SC:dh
Enclosure

cc: Mr. Ray A. Graham III

STATE OF NEW MEXICO
HIGHWAY DEPARTMENT

BRUCE KING
GOVERNOR

COMMISSION

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Chairman, Hobbs

James W. Chaney
Vice-Chairman, Moriarty

Albert N. Sanchez
Secretary, Santa Rosa

Paul Rader
Member, Mesilla

Julian Garcia
Member, Albuquerque

DEPARTMENT

Chief Highway Administrator
Fred L. O'Cheskey

General Office
P.O. Box 1149
Santa Fe, NM 87503
505-983-0100

District One Office
P.O. Box 231
Deming, NM 88030
505-546-2603

District Two Office
P.O. Box 1457
Roswell, NM 88201
505-622-8441

District Three Office
P.O. Box 3768-Station D
Albuquerque, NM 87110
505-821-4651

District Four Office
P.O. Box 30
Las Vegas, NM 87701
505-425-7527

District Five Office
O. Box 4127-Coronado Sta.
Santa Fe, NM 87503
505-983-0221

AN EQUAL
OPPORTUNITY
EMPLOYER

September 4, 1979

Sutin, Thayer & Browne
A Professional Corporation
P. O. Box 2187
Santa Fe, New Mexico 87501

Attention: Mr. Stephen Charnas

Re: SP-M-400(200) Coors Road

Gentlemen:

Reference your letter of August 22, 1979, about drainage on Coors Road in the vicinity of Dellyne and Montano intersections.

Please be advised that the present contract work is utilizing the original drainage crossings which were located originally in natural waterways and we believe that the drainage patterns after work completion will be substantially the same as before.

We are aware of the downstream property owners' wishes, but we also must advise you that there is dual jurisdiction in this area with the City of Albuquerque. Further, if the upstream flow of Dellyne was diverted across Coors to the east, the existing structures would have to remain in place to properly drain the roadside.

Please feel free to call upon us if you have any further questions.

Sincerely,

Fred L. O'Cheskey

Fred L. O'Cheskey
Chief Highway Administrator

FLO:sd

cc: Carl Serna, Director
Project Development

District 3

Legal Division

RICHARD E. LEONARD
EXECUTIVE ENGINEER

B. H. SWINBURNE, CHAIRMAN
WILLIAM V. HEREFORD, VICE-CHAIRMAN
FRANCES McCOY, SECRETARY-TREASURER
VERNON BOAK, DIRECTOR
KLESTON LAWS, DIRECTOR

Albuquerque Metropolitan Arroyo Flood Control Authority
2600 PROSPECT AVE. N.E.
P. O. BOX 25851 - ALBUQUERQUE, N. M. 87125
TELEPHONE 344-3616

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JUL 19 1979
CITY ENGINEER

July 16, 1979

Mr. Jeryl D. Hart, Jr.
Meurer, Serafini & Meurer, Inc.
2601 Wyoming Blvd., NE, Suite F
Albuquerque, N.M. 87110

Dear Mr. Hart:

Reference Mr. Wiley Smith's July 11, 1979 letter.

On-site retention of unnatural runoff may be required by AMAFCA Resolution 1972-2. However, our February, 1979, agreement with the City calls for compromise with aesthetics and economics. If you believe the City's position violates the spirit of that agreement, I suggest a conference before going to the Technical Standards Committee.

Outfall right-of-way is not an AMAFCA requirement.

Sincerely,

Richard E. Leonard

Richard E. Leonard
Executive Engineer

ic

cc: Mr Conegliano

ATTACHMENT

MEURER, SERAFINI AND MEURER, INC. CONSULTING ENGINEERS • SURVEYORS • PLANNERS

2601 WYOMING BLVD., N.E., SUITE F • ALBUQUERQUE, NEW MEXICO 87110 • (505) 292-1936

July 11, 1979

Mr. Richard Leonard, P.E.
Executive Director
Albuquerque Metropolitan Arroyo Flood Control Authority
2600 Prospect Avenue N.E.
Albuquerque, New Mexico 87106

Re: Dellyne Townhouse Drainage Study

Dear Mr. Leonard:

On behalf of our client, I request that you review the attached report for Dellyne Townhouses. The project is located in the northwest portion of Albuquerque, west of Coors Road and south of Dellyne Avenue. Mr. Jere Hart and I had spoken on May 10, 1979, with yourself and Mr. Bruno Conegliano prior to proceeding with design for this project. We feel that the attached drainage study conforms to the policies stated on May 10, 1979.

The drainage study was submitted to the City for review on May 25, 1979. Now after seven weeks we receive a reply on July 9, 1979, from Bruno with no prior conferences and a number of questionable points concerning our report. This letter seems to clearly conflict with the Memorandum of Agreement dated February 22, 1979, as to "timely" consideration and compromise. I am certain you can make evaluation without further comment.

At the heart of the matter are the references by Bruno in paragraphs 2, 3, 4, and 6 of his letter dated July 9, 1979 (attachment). Bruno has required the following:

1. No runoff will be permitted from any storm except as is allowed to discharge from a retention pond over a 24 hour period.

2. Only on-site retention will be permitted and total discharge must remain the same as the undeveloped condition.

3. At the developer's option, purchase of outfall right-of-way may be secured for the construction of a stable channel, at contractor's expense.

Since these items seem to be in direct conflict with past and present direction for drainage within Albuquerque, I ask for your review and comments.

Sincerely,

MEURER, SERAFINI AND MEURER, INC.

Wiley R. Smith, P.E.
Project Manager

WRS:dw

Encls.

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR
David Rusk

July 9, 1979

Mr. Jeryl D. Hart, Jr.
Meurer, Serafini & Meurer, Inc.
2601 Wyoming Blvd. N.E., Suite F
Albuquerque, New Mexico 87110

Re: Dellyne Townhouse Development

Dear Mr. Hart:

I have reviewed the drainage report for the referenced development and my comments are as follows:

1) Figure 2 in the report does not allow the identification and verification of the pervious and impervious areas.

2) The methology adopted for the evaluation of the hydrograph (page 2) is questionable (See Appendix).

3) The increased volume in total runoff which must be retained on site amounts to some 21,083 cubic feet if the total impervious area is 5.28ac (This figure was obtained from the computations in the report).

4) Retention and not simply detention on site is required (in compliance with the AMAFCA Res. 72-2) because, in the absence of a definite public outflow to the Rio Grande, downstream from Coors Rd., degradation of the natural water course, would follow the increased frequency of runoff occurrences after development. The developer has the option to secure right-of-way for an outfall to a public drainage facility and to construct a stable (non-erosive) channel.

5) Ponding facilities for private purposes cannot be constructed in public right-of-way since neither the City nor the Highway Department can assume the responsibility for the maintenance.

6) Since all the runoff is to be conveyed to the ponds and the natural or undeveloped runoff is allowed to be discharged from the retention areas, a spillway must be provided for the overflow. Drainage of the ponds will be allowed but over a time period of no less than 24 hours.

7) In the case of community ponds where the depth of water exceeds 18", safety provisions must be included and specified.

8) Drainage rundowns when constructed in public right-of-ways must adhere to minimum standards necessary for maintenance purposes and no "special structures" can be used (See Figure 2) unless approved by Street Maintenance.

If you wish to discuss these matters further, please do not hesitate to contact my office.

Very truly yours,

Bruno Conegliano
Assistant City Engineer-Hydrology

BC/fs

cc - Richard Heller
Rich Leonard
Drainage File

I, John Kinscherff, being owner of that property south of and adjacent to that certain subdivision known as La Mariposa South, hereby give permission to AMBELL to permit 6 c.f.s. (based on the 100-year storm) in addition to the 6 c.f.s. that naturally occurs to be placed on my property.

John Kinscherff

Bruno

Genge/Murray-McCormick
2601 Wyoming Blvd., N.E. Suite F
Albuquerque, N.M. 87110/505-292-1936
Engineering · Surveying · Planning
Tucson · Phoenix · Denver · Pueblo

Kimmick
La Mariposa South

June 24, 1977

Mr. V. M. Kimmick
City Engineer
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Re: Engineering Design of Dellyne Avenue

Dear Mr. Kimmick:

Dale Bellamah Corporation, Inc., has retained us to prepare the complete set of improvement plans for the Engineering Design of Dellyne Avenue between Coors Road and the west boundary of La Mariposa South.

In accordance with the City's procedural requirements for processing improvement plans prepared by a private consulting engineering office, we hereby request your approval to proceed.

Very truly yours,

Carl A. Tebbens

Carl A. Tebbens, P.E.
Vice President

CAT:dw

Approved by:

V. M. Kimmick

V. M. Kimmick
City Engineer

6-27-77
Date

Desig Meeting 2PM. Wed. June 29 to discuss preliminary grades.

MEURER, SERAFINI AND MEURER, INC.

CONSULTING ENGINEERS • SURVEYORS • PLANNERS

2601 WYOMING BLVD., N.E., SUITE F • ALBUQUERQUE, NEW MEXICO 87110 • (505) 292-1936

5-18-78
Copy to:
Bob --
Dwayne

May 18, 1978

Mr. V. M. Kimmick
City Engineer
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Re: Dellyne Avenue at Coors Road

Dear Mr. Kimmick:

This letter presents a brief history of the sequence of events relative to the design and construction of Dellyne Avenue and alternatives for handling drainage between Coors Road N.W. and Camino Vista in the La Mariposa South subdivision, approximately 3100 L.F. west of Coors Road.

In order to discuss the drainage related problems for the project, I feel that it is of importance to summarize the sequence of events relative to the design of Dellyne:

a.) Sanitary sewer line in Dellyne designed by City - 1966. (Special Assessment District No. 169)

b.) Water line in Dellyne designed by City - 1976. (Drawing #C-4-76)

"Future Proposed Curb Grade" designed on Dellyne on water plans designed by City - 1976. (Drawing #C-4-76)

c.) Design of La Mariposa 1-C by Murray-McCormick - 1976.

d.) La Mariposa South engineering design including design of Dellyne adjacent to development in accordance with previously set City grades - designed by MSM - Spring 1977.

La Mariposa South Drainage Study - prepared by MSM - Spring 1977.

e.) Design of Dellyne from Camino Vista to Coors Road in accordance with previously set City grades by MSM - Winter 1977.

f.) Drainage Study for Dellyne Road by MSM - Winter 1977.

g.) Start construction of Dellyne Avenue per approved plans and work orders, March 1978. Construction stopped by City of Albuquerque to lower water line, and restart held pending resolution of Coors/Dellyne intersection by State Division of Highways - May 1978.

Design Concept

Dellyne Avenue was designed for AMBELL by MSM in order to provide the residents living within the southerly limits of Taylor Ranch a more direct paved access to Coors Road. The design was based, after several coordination meetings with the City, on the street grades set by the City on the water plans prepared by the City (Drawing No. C-4-76).

Dellyne Avenue in its natural condition had a high point just west of its intersection with Valle Vista. This summit kept drainage from the west end of Dellyne from entering Coors Road. The small amount of drainage which collected in the sump approximately 300' west of the summit would occasionally discharge overland to the southeast and eventually enter the Coors right-of-way approximately 1000 feet south of the Dellyne/Coors intersection; then drain to the north in the ditch along the west side of Coors.

Drainage east of the natural Dellyne summit, including that discharging into Dellyne from Valle Vista, has always flowed down Dellyne to Coors Road.

With the design of Dellyne, the summit was cut, thus allowing Dellyne to discharge all runoff directly to Coors Road. The increase in the 100 year frequency runoff at the intersection of Dellyne and Coors is approximately 33.5 cfs based on the approved Dellyne Avenue drainage study or approximately 20 cfs based on the approved La Mariposa South drainage study approved in the Spring of 1977. The difference in the above flows is due to a change in drainage criteria established by the City.

The State Division of Highways is in disagreement with the way the drainage is being handled at the Coors Road intersection.

It has been discussed and decided that a "cattle guard" type inlet be installed in Dellyne in order to intercept all of the flow discharging from Dellyne.