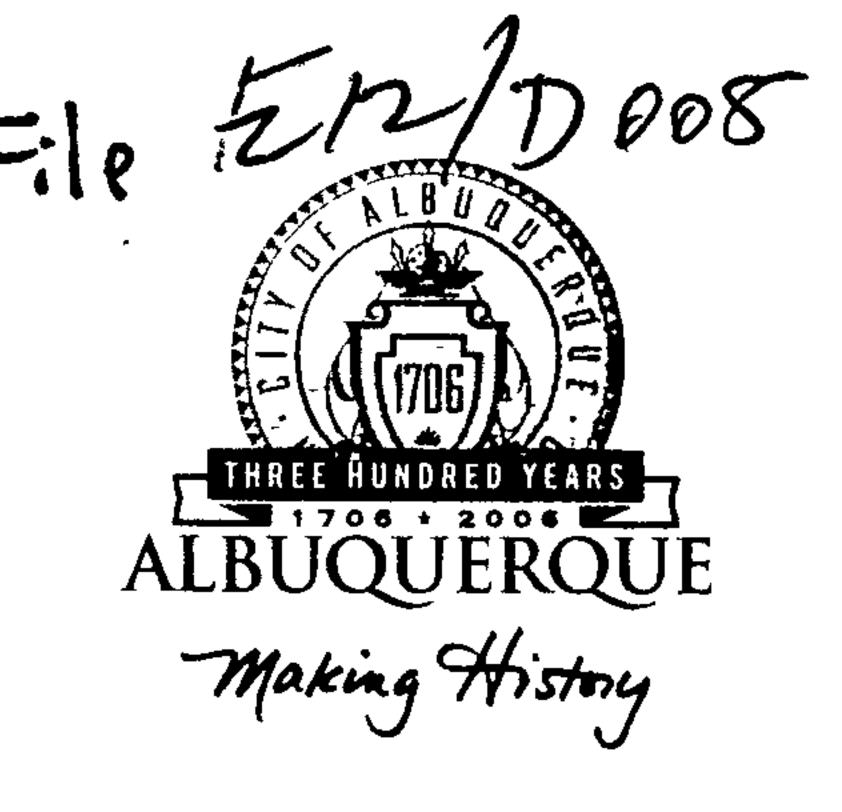
CITY OF ALBUQUERQUE FILE



November 2, 2005

Sam Santillanes 5505 La Colonia NW Albuquerque, NM 87120

Re: Obstruction and Maintenance of drainage channel

Dear Mr. Santillanes,

Albuquerque

P.O. Box 1293

New Mexico 87103

www.cabq.gov

The purpose of this letter is to respond to a complaint from two adjoining land owners about a structure allegedly erected by yourself on Tract R-2 (private property, owned by the Sagecrest Homeowners Association) upstream of the channel located in a private drainage easement on your property, (Lot B) in order to divert runoff intended to drain down the channel into 5605 Altima Pl. (Lot 2). I have enclosed excerpts from the original plat creating the subdivision in order to better explain the situation. This structure must be removed immediately in order to allow the runoff draining from Tract R-2 to continue through your lot as designed. I have also included copies of the plat language that mandate that the owner of Lot B is responsible for maintaining the channel. The lack of maintenance of this channel or failure to remove the structure could cause you to be liable for any damage either of those properties incurs due to misdirected runoff. Please contact me at 924-3986 to discuss this issue.

Sincerely,

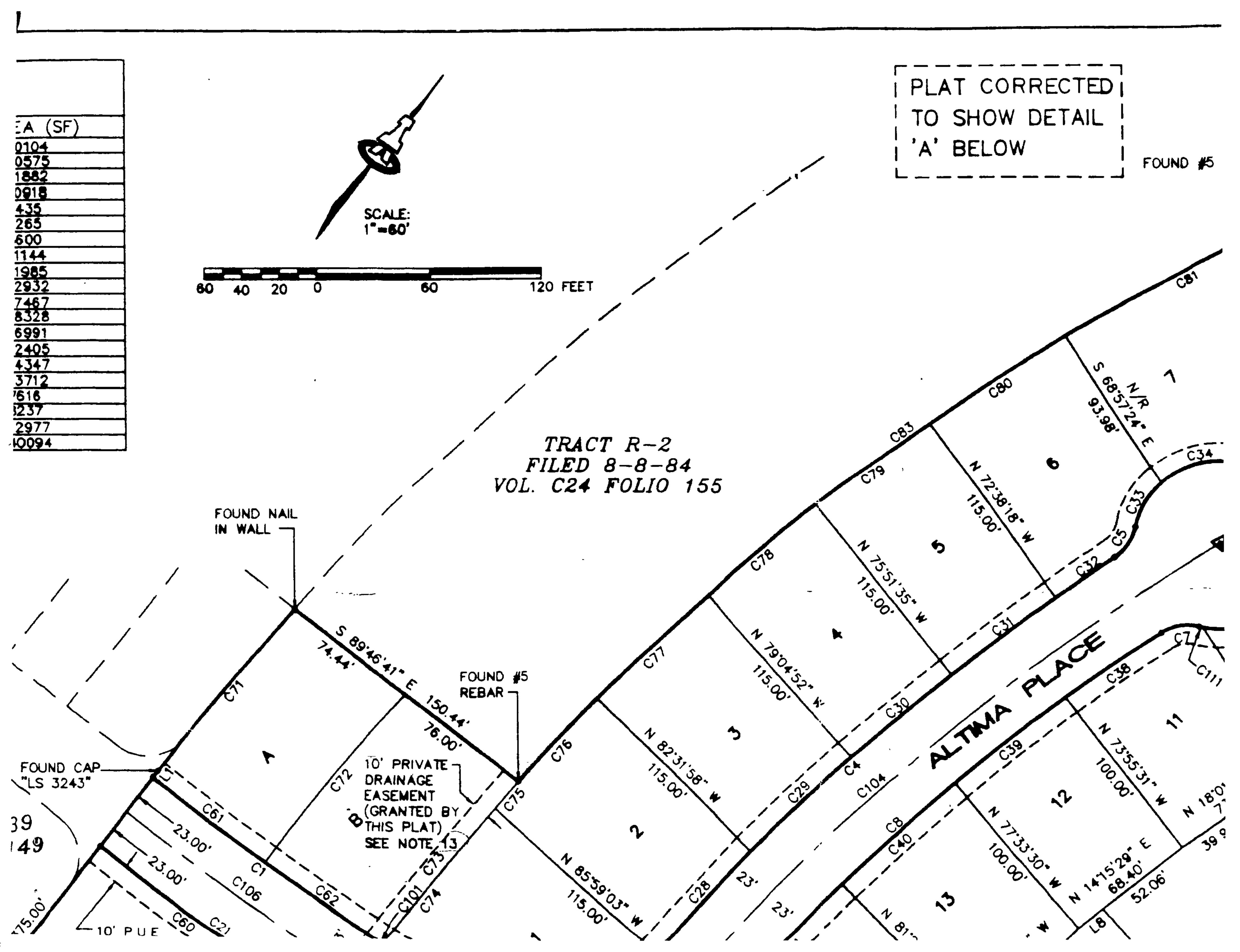
Bradley L. Bingham, PE, CFM

City Hydrologist

Principal Engineer, Planning Dept.

Development and Building Services

C: Adam Silva, 5605 Altima Pl. NW
William Silva, Sagecrest HOA, 5700 Cactus Flower Dr NW
file,



<u> </u>
53702'30"
48'23'59"
4874'33"
41'23'16"
21'42'17"
1105'37"
41'53'22"
6574'36"
00'46'12"
02'04'24"
00'06'23"
04'01'11"
00°22'26"
01'12'48"
04'31'01"
02'52'49"
02'52'32"
08 02 18
14'41'20"
07'55'24"
23.50,05
61'55'52"
43'33'13"
47'39'10"
96'16'35"
04'21'33"
04'44'01"
04'47'28"
03'59'03"
00'48'24"

	NE TAI	3LE
LINE	DIRECTION	DISTANCE
<u> </u>	3 00'00'00 E	4.65
<u>L2</u>	N 11"26"06" E	18.46
<u>L3</u>	N 11'26'06 E	16.55
	N 01°22'08 W	10.00
L5	N 80'48'11 W	10.00
<u>L6</u>	S 1870'53" E	6.46
<u>L7</u>	N 19'38'10 E	12.73
<u>L8</u>	N 1475'29 E	16.34
L9	N 08'08'58' E	19.27'
L10	N 23'50'19 E	20.85

SUBDIMBION DATA / NOTES--Continued from Sheet 1 of 3

- 12. CITY STANDARD UTILITY NOTE II:
 "CITY OF ALBUQUERQUE WATER AND SANITARY SEWER SERVICE TO
 THE ESTATES AT TAYLOR RIDGE MUST BE VERIFIED AND COORDINATED
 WITH THE PUBLIC WORKS DEPARTMENT, CITY OF ALBUQUERQUE."
- 13. THE 10' PRIVATE DRAINAGE EASEMENT ALONG THE EAST LINE OF LOT B IS FOR THE BENEFIT OF TRACT R-2. THE MAINTENANCE OF THIS EASEMENT SHALL BE THE RESPONSIBILITY OF THE OWNER OF LOT B.

ANU SEKVI REASONABI

INCLUDED IS T
LOCATE, RELOC
MAINTAIN FACI.
FREE ACCESS
WORKING AREA
PRIVILEGE TO
FERE WITH THE
OTHER STRUCT
MENTS, NOR SI
PROPERTY OWN
VIOLATIONS OF
TION OF POOLS
EASEMENTS SH

Sagecrest Homeowners Association

October 13, 2005

Sam Santillanes 5505 La Colonia NW Albuquerque, NM 87120 Admissib Sursus

Dear Mr. Santillanes,

The Sagecrest Homeowners Association has been made aware of the fact that a concrete barrier has been erected by you on our property illegally behind your home. The city installed a concrete canal on the east side of your home for proper drainage from the open space land. This concrete barrier is not allowing proper drainage thereby causing erosion to some of the landowners on the bottom of the hill. Please remove the concrete barrier within one week of this notice.

Sincerely,

William Silva President, Sagecrest Homeowners Association

Please call me if you have any questions: 899-8561

¥ 5700 Cactus Flower Dr NW 87120



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

February 27, 1996

Scott McGee, PE Isaacson & Arfman 128 Monroe St NE Albuquerque, NM 87108

RE: ENGINEER'S CERTIFICATION FOR TAYLOR RIDGE TRACT A (E-12/D8)

RECEIVED FEBRUARY 13, 1996 FOR FINANCIAL GUARANTY RELEASE

ENGINEER'S STAMP DATED 2-9-96

Dear Mr. McGee:

Based on the information included in the submittal referenced above, City Hydrology accepts the Engineer's Certification for Financial Guaranty Release. Contact Terri Martin to obtain the Financial Guaranty Release for City Project Number 4918.93.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

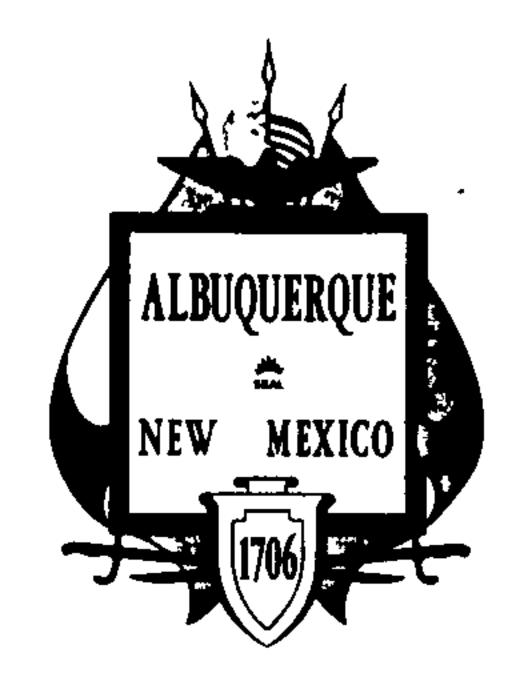
John P. Curtin, P.E.

Civil Engineer/Hydrology

c: Andrew Garcia

Terri Martin, CPN 4918.93

Ben Spencer, Argus Dev Co, 6400 Uptown NE Suite 200 W, 87110



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 15, 2000

Scott M. McGee, P.E. **ISAACSON & ARFMAN** 128 Monroe Street NE Albuquerque, NM 87108

Engineers Certification – Taylor Ridge Tracts "C" & "E" Re:

(E-12/D008) Submitted for Release of Financial Guaranty

Engineer's Stamp dated 2/9/1995

Engineering Certification Stamp dated 12-14-2000

Dear Mr. McGee:

Based upon the information provided in your submittal dated 12-14-2000, all retaining walls in Tracts "C" & "E" have been built; the Engineering Certification for the above referenced subdivision is approved for Release of Financial Guaranty.

If I can be of further assistance, please contact me at 924-3986

Sincerely,

Brackly L. Buyham

Bradley L. Bingham, PE

Hydrology Review Engineer

Arlene Portillo, PWD – #4918.92



P.O. Box 1293 Albuquerque, NM 87103

December 20, 1996

Martin J. Chávez, Mayor

Scott McGee, PE Isaacson & Arfman 128 Monroe St NE Albuquerque, NM 87108

RE:

MODIFIED S.O.#19 FOR 5327 APOLLO NW, TAYLOR RIDGE TRACTS C (E-12/D8)

RECEIVED DECEMBER 19, 1996 FOR STORM INLET MODIFICATION

ENGINEER'S STAMP DATED 12-19-96

Dear Mr. McGee:

Based on the information included in the submittal referenced above, City Hydrology approves the S.O.19 for 5327 Apollo Drive NW. Contact Storm Maintenance to inspect the modifications when they are completed.

It is City Hydrology's understanding that no additional Building Permit applications will be submitted at the Village at Taylor Ridge Subdivision until modification of the existing storm drain inlet has been inspected & approved by Storm Maintenance. Please be sure that City Hydrology receives a copy of the S.O.19 as soon as it is signed by Storm Maintenance.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.

Civil Engineer/Hydrology

c: Andrew Garcia

Glenn Jurgensen, Storm Maintenance w/S.O.19 Copy

Tom Conway, Charter Bldg & Dev, 2103 Wyoming NE 87112

Arlene Portilla Good

Good for You, Albuquerque!





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

April 17, 1996

Scott McGee, PE Isaacson & Arfman 128 Monroe St NE Albuquerque, NM 87108

RE: ENGINEER'S CERTIFICATION FOR TAYLOR RIDGE TRACTS C&E (E-12/D8)

RECEIVED MARCH 27, 1996 FOR FINANCIAL GUARANTY RELEASE

ENGINEER'S STAMP DATED 3-26-96

Dear Mr. McGee:

Based on the information included in the submittal referenced above, City Hydrology accepts the Engineer's Certification for Financial Guaranty Release. Contact Terri Martin to obtain the Financial Guaranty Release for City Project Number 4918.92.

City Hydrology recommends that buildings are constructed on the split pad lots promptly. The temporary 1h:1v slope will be highly susceptible to erosion during the rainy season.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.

Civil Engineer/Hydrology

c: Andrew Garcia

Terri Martin, CPN 4918.92

Ben Spencer, Argus Dev Co, 6400 Uptown NE Suite 200 W, 87110

			`			
DDA INIACE DIAL	AREA (AC)	LAND	TRE	ATME	VT (%)	
	MKEA (AC)	A	<u>B</u>	C	D	Q(cfs)
NORTH:						
A) Tres Vistas, Creighton Park, and abutting Montano Plaza, Taylor Ranch, and Oxnard Drives (5.5 D.U. = 4.6 D.U.'s/AC)	12.066	0	26	27	47	40.50
B) Park land (Tracts P-1, P-2, 4 P-3)	2.807	38	31	3/	0	5.64
c) Tract A-1	3,702	0	50	50	0	9.10
D) Commercial (Tract D-1) (5.0Ac - 35×460')	4.630	0	10	0	90	19.15
E) Taylor Ridge Apts (north portion)	fre	m Dr	ainage	Repo	r+ ->	25.50
North	BASIN:					
South:						
A) The Village, The Estates, portion of Montano Vista, and abutting Taylor Ranch and Montano Plaza Drives (9700's = 3.9 D.U.'s /Ac)				35		81.81
B) Tr R-2 (open Space)	2,010	0	50	50	0	4.92
c) Tr 0-1 (Open Space)	0.950	0	50	50	0	2,33
D) Taylor Ridge Apts (south portion)	fro	m Dr	minage	Repo	**	15.00
	PASIN:	Z TOTA				104.1cfs
D) 医医图》 MAR 2 7 1996						

ISAACSON & ARFMAN, P.A.

CREIGHTON PARK @ TAYLOR RIDGE

SUBDIVISION A = 5.8151 ACRES (4.5 D.u.'S /ACRE)PARK LAND 2.8071 ACRES 3.7023 ACRES 4 = 12.3245PARK @ TAYLOR RIDGE

RIDGE

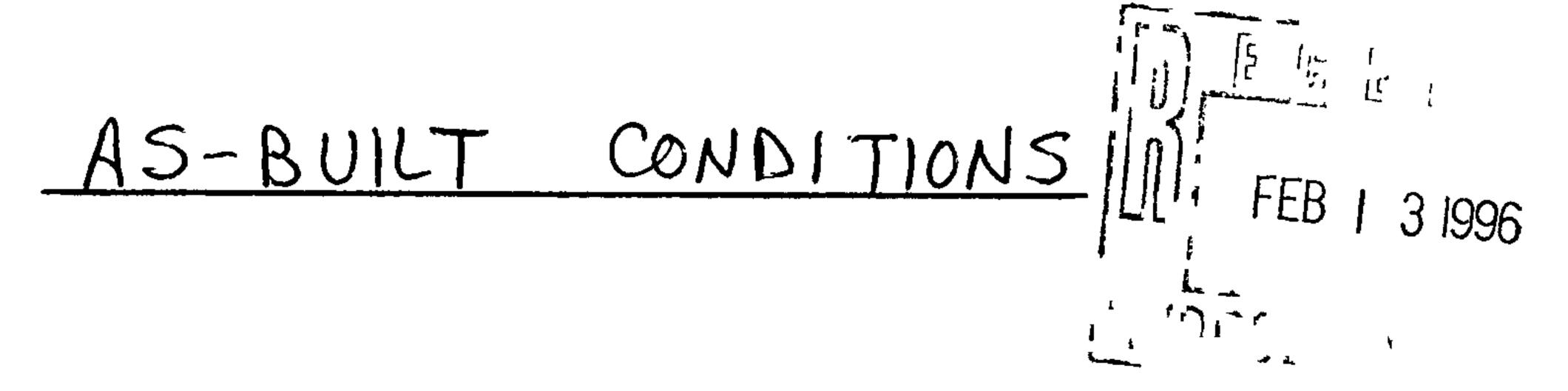
A B C D Q(CFS)

19.38

19.38

31 31 0 5.64*

TOTAL ** Q₁₀₀ = 34.1 cfs



- * LAND TREATMENT OF 50% B / 50% C HAS BEEN USED FOR REGRADED AREAS THAT HAVE BEEN REVEGETATED.
- ** RUNOFF RATE IS ACTUALLY LOWER THAN Q=34.1cfs,
 BECAUSE TRACT A-1 DOES NOT FREELY DISCHARGE, BUT
 HAS A LOWER RELEASE RATE FROM THE DETENTION POND.

	TR	ACT	A				
SUBJEC	тТ	AYLOR	RII	36E	JOB	NO.72	<u> 35</u>
		DATE	•		T NO.	OF	



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

March 24, 1995

Scott McGee, PE Isaacson & Arfman 128 Monroe St NE Albuquerque, NM 87108

AMENDED GRADING PLANS FOR TAYLOR RIDGE B, C & E (E-12/D8) RE:

RECEIVED MARCH 7, 1995 FOR FINAL PLAT & WORK ORDER

ENGINEER'S STAMP DATED 2-9-95

Dear Mr. McGee:

Based on the information included in the submittal referenced above, (City) Hydrology accepts these Grading Plans for Final Plat.) These Grading Plans have no official status until they are approved by DRB.

Engineer's Certification of grading & drainage per DPM checklist must be approved before the Financial Guaranty will be released.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.

Civil Engineer/Hydrology

Andrew Garcia C:

Fred Aguirre, DRB 94-281

Ben Spencer, Argus Dev Co, 6400 Uptown NE Suite 200 W, 87110



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 25, 1994

Scott McGee, P.E. Isaacson & Arfman, P.A. 128 Monroe Street NE Albuquerque, N.M. 87108

RE: DRAINAGE REPORT FOR TAYLOR RIDGE TRACTS A, B, C & E (E-12/D8)

RECEIVED OCTOBER 6, 1994 FOR GRADING PERMIT APPROVAL

ENGINEER'S STAMP DATED 9-27-94

Dear Mr. McGee:

Based on the information included in the submittal referenced above, City [Hydrology_accepts_the Report_and_approves_Tracts_A,_B,_C_&_E_for_Grading] Permit. City Hydrology acknowledges that the Grading & Drainage Plan for Tract A, dated 10-11-94, is the same as the Plan, dated 9-27-94, except for the addition of the 30' access easement and the elimination of one lot.

Tract D is not covered by the Report. Since the proposed grades have changed more than 18" from the grades approved under the Report for Taylor Ranch Tract R-1 (E-11/D26), DRB must approve the changes. Tract D must be seeded with Native Grass per City Spec 1012 to control erosion.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.

Civil Engineer/Hydrology

c: Andrew Garcia

WPHYD/8737/jpc

DRAINAGE REPORT

FOR

TAYLOR RIDGE TRACTS A, B, C & E

ALBUQUERQUE, NEW MEXICO **OCTOBER 1994**

Prepared by:

ISAACSON & ARFMAN, P.A. 128 Monroe Street, NE Albuquerque, NM 87108

M. Ar Scott M. McGee, P.E.

CT 611994

I. INTRODUCTION

Taylor Ridge, Tracts A, B, C and E, is a residential subdivision proposed for a portion of the Taylor Ranch Tract R-1 site. Tract R-1 was split into nine tracts, (with a bulk land variance) which was approved and filed June 6, 1994. The site is located west of Coors Road between Montano Road NW and Dellyne Avenue NW.

The Bulk Land subdivision of Tract R-1 included the mass-grading of the site along with the construction of major "back-bone" utility, drainage, and roadway systems through the site. The drainage system was sized for future residential development and carries all flows east to a public stormwater detention/sedimentation facility adjacent to Coors Road NW.

This report addresses the proposed development of Taylor Ridge Tracts A, B, C and E (see Drainage Map in pocket). Tracts D, P-1, P-2, and P-3 are not proposed to be developed at this time. Tract F is the public stormwater detention/sedimentation facility.

II. EXISTING SITE CONDITIONS

- A. Flood Hazard--This site is not shown to be within an established flood hazard area as shown on the FIRM Panels 14 & 15.
- B. Soils--From the SCS Soil Survey of Bernalillo County, this site is 90 percent Bluepoint and Bluepoint-kokan association and 10 percent Madurez-Wink association. These soil associations are all loamy fine sands which are classified as Hydrologic Soil Group 'A' (90%) and 'B' (10%) soils.
- C. Topography--Located on the west side of Albuquerque, this land slopes generally from west to east at 3 to 10 percent. Drainage across each mass-graded tract will sheetflow east to temporary detention/sedimentation ponds.
- D. Offsite Flows--With the construction of Oxnard Drive NW and the extension to both Taylor Ranch Drive and Montano Plaza Drive, the four proposed tracts will accept very little offsite flow. The two exceptions are Tracts A and B. Tract A will continue to accept runoff from the adjacent City park lands while Tract B will accept runoff, from the adjacent Taylor Ranch Tract R-2. The existing temporary

blanket drainage easement on Tract B will be vacated and replaced with a 10-foot private drainage easement over the easterly 10-feet of Lot 2 as shown. This will allow runoff to be conveyed from Tract R-2 to the public right-of-way of La Colonia Drive NW once this street is extended.

III. ONSITE DRAINAGE MANAGEMENT

Runoff from developed lots will typically be routed to the proposed interior roadways. When this is not possible, backyard ponding areas will provide storage volume for backyard runoff. Tracts B and C will involve extensions of public storm drains that were stubbed out as part of Project No. 4918.90, the "backbone" storm drain system mentioned earlier.

All runoff will be routed to the public stormwater detention/sedimentation facility on Tract F. Runoff calculations are in the Appendix for individual tract development. Runoff amounts for individual tracts do not exceed those estimated (in the Master Drainage Report for Taylor Ranch Tract R=1-)

The Grading Plans included at the back of the Appendix will replace the mass-grading previously proposed. With the subdivision-lot grading proposed,

the earlier temporary detention/sedimentation ponds will not be required on each tract. Public streets will convey runoff to the public storm drain extensions shown.

									4
BASIN	1 TRACTS	AREA (AC)	A	<u>B</u>	<u></u>	D			
	P-1, P-2, P-3	2.8071	0	100	0	0	3,		
	A (4.9 d.v.'s/ac)	9.5174	0	30	21	49	31,9cfs		
10 -		12.3245	0	46	16	38	37.6cfs	37,7	
	Taylor Ranch 4 Montano Plaza								
20	R/W abutting Tract A	1.9835	0	0	21	79	8,0 cts	4,06cts	A.c
		•	•						
		4.2457	0	20	20	60	15,29cfs	3,60cts	Ac
	Oxnard Dr & Taylor Ranch Dr east of Montano Plaza	1.3085	0	0	2/	79	15,29cfs 5.31cfs	4.06 ct 50	/AC
30		5.5542	<u>-</u>				20.6 cfs		
	Commonsial - zand								
	Commercial-zoned area R-2 portion of D	5.0000	0	10	0	90	20.45	4, 14 cts/	HC
	K-L portion of D	8.7260	0	25		70	33./cfs	3,71 Cfs/	AC
40		13.9260	0	20		77	53.5 cfs		
	R-2 (50% regraded)	2.0/00	50	0	<u>50</u>	0	4.18cts	2,08ch	Ac
	B (3.1 d.u.'s /ac)	12./301	0	30	<u>35</u>	<u>35</u>	38.1cfs	3,14cts	Ac
50/	Montano Plaza R/W (Tract 18-C-2)	16.0685		<u> </u>	21	<u>79</u>	7.8 cfs	4.06cts	f/c
			6_	23	35	36	50.1cfs		
	Tract (5.2 d.v.'s/ac)	•	0	30	19	51	31.4 c.f.	· 3.38c/s	
	Tract D (southern partian)	2.1970	0	25	<u>.</u>	70	8.1 c.fs	3,71 cfs/	Ac
60							39.5 cts		
					10	<i>ب</i>	— ——		

SUBJECT TAYLOR RIDGE S/D JOB NO. 0794

BY SM DATE 5/9/94 SHEET NO. 3A OF_

PROJECT: TAYLOR RIDGE Analysis Politi #	
DRAINAGE AREA: Planimeter Rdg x .015	29, TRES VISTAS CT, ES VISTAS RD
x Map Scale2 ÷ 43,560 $A = 4.2$	457 acres
TIME OF CONCENTRATION: Drainage Basin Data:	
L = ft., fall = ft., slope =	ft/ft
☐ Overland Flow: v = ft/sec (P1 22.2 B-1) Tc = sec. = min. Tc =	min.
Street Flow:	
v = ft/sec (P1 22.2 B-2) $Tc = sec. = min. Tc = (US)$	E) 12 min.
☐ Arroyo Flow: Tc = 0.0078 <u>LO.77</u> = min. Tc = SO.385	min.
LAND TREATMENT:	
Land Use Type Percentage Acres Precipitation A 0 0 0 B 15 20 0.637 0 C 22 20 0.934 0 D 63 60 2.675	n Zone:
100% <u>4.246</u> PEAK DISCHARGE (Table 9):	
Treatment Area(acres) Discharge (cfs/ac) A 0 - B 0.637 2.03 C 0.934 2.87 D 2.675 4,37 TOTAL	Q ₁₀₀ (cfs) 0 1.3 2.7 11.7 15.7.1 15.3 MOK
VOLUME OF RUNOFF: Soil Group A B C D CN (Previous) = (P1 22.2 C-2) Percent Impervious = % CN (Composite) = (P1 22.2 C-3) Direct Runoff, q ₁₀₀ = " (P1 22.2 C-4) V ₁₀₀ = q A = x ac x 43,560 = cu. find the solution of the solutio	

PROJECT:	TAYLOR	RIDGE	TRACT A	•	is Point #		D \ 1
DRAINAGE	E AREA:				6075 1-	Z 1, lay 0 C D	r Ridge F rK (OFF SI
Plani	meter Rdg		$_{\rm x}.015$		112 acre	S OT FQ	rk (offsi
x Ma	p Scale	•	² ÷ 43.560	A	7.	0 <u>a</u> ac	res
	CONCENTRA nage Basin D						
L·=_		_ ft., fall = _		_ ft., slo	pe =		ft/ft
□ Ov	erland Flow:						
	v =	ft/se	c (P1 22.2 F	3-1)			
	Tc =	sec.	=	_ min.	Tc =		min.
IXI Str	reet Flow:						
	V =	ft/se	c (P1 22.2 E	3-2)			
	Tc =		=		Tc = (US)	E) 12	2 min.
	Tc = 0.0078	<u>LO.77</u> = SO.385		_ min.	Tc =		min.
LAND TRE	ATMENT:						
	Use Type	Percentag	e Acres	F	recipitatio	n Zone:	
	A				•		
	B	27	<u></u>	89			
	C	26		83			
	D	47	<u>3,</u>	29			
		100%	<u>7.</u>	01_			
	CHARGE (Ta	-		, ,		~ (~ \	
Treat	ment	Area(acres	s) <u>Disch</u>	arge (cfs	/ac)	Q_{100} (cfs)	
F	1	1 00		7 42		70	
	პ ~	1.87		2.03		<u> </u>	
· · ·	ر م	7,85		4.8/	,	<u> </u>	<u> </u>
T		5,29		4,5/		17,7	-
1	COTAL					23.4	<u></u>
VOLUME C	F RUNOFF:						
Soil (Group A B C	D					
CN (F	Previous) =	(P1 2	22.2 C-2)				
	ent Imperviou		_%				
	Composite) =		22.2 C-3)				
	et Runoff, q ₁₀		_" (P1 22.2 (-		c .	
17	$- \alpha \Delta -$	~	20 x 43 56	(1) –	C11	rt	

PROJECT: TAYLOR	RIDGE	Analysis Point #	28
DRAINAGE AREA: Planimeter Rdg.	x.015	TRACT A Park	-1 # 1.6 acres (OFFSITE)
x Map Scale	² ÷ 43,560	$A = \underline{5.3}$	2 acres
TIME OF CONCENTRATION Drainage Basin Data			
L = ft.	, fall =	_ ft., slope =	``ft/ft
Overland Flow: v = Tc =	ft/sec (P1 22.2 E sec. =	3-1) _ min.) 12 min.
□ Street Flow: v = Tc =	ft/sec (P1 22.2 E sec. =	3-2) _ min.	min.
\square Arroyo Flow: $Tc = 0.0078 \underline{LO}$ SO.	. <u>77</u> =	_ min. Tc =	min.
B C D			Zone:
VOLUME OF RUNOFF: Soil Group A B C D CN (Previous) = Percent Impervious = CN (Composite) = Direct Runoff, q ₁₀₀ = V ₁₀₀ = q A = 12	(P1 22.2 C-2)		

PROJECT: JAYLOR	RIDGE TRACT B Ana	lysis Point # 3A
DRAINAGE AREA: Planimeter Rdg.	x.015	Pegasus Pl cul-de-sac a backyards of lots 24-29
x Map Scale	² ÷ 43,560	$A = \frac{4.78}{\text{acres}}$
TIME OF CONCENTR Drainage Basin		•
[_ =	ft., fall = ft.,	slope = ft/ft
Overland Flow v = Tc =	v: ft/sec (P1 22.2 B-1) sec. =min	n. Tc = min.
Street Flow: v = Tc =	ft/sec (P1 22.2 B-2) sec. = mir	n. $Tc = (USE)$ 12 min.
☐ Arroyo Flow: Tc = 0.007	8 <u>LO.77</u> = mir SO.385	n. Tc = min.
LAND TREATMENT: Land Use Type A B C D	Percentage Acres 15 0.72 58 2.77 27 1.29 100% 4.78	Precipitation Zone:
PEAK DISCHARGE (Total) Treatment A B C D TOTAL	Area(acres) Discharge 0,72 2,03	<u></u>
VOLUME OF RUNOFI Soil Group A B CN (Previous) = Percent Impervious) CN (Composite) Direct Runoff, q V ₁₀₀ = q A =	C D (P1 22.2 C-2) ous = % = (P1 22.2 C-3)	cu. ft.

PROJECT: TAYLOR RIDGE TRACT B Analysis Point # 3B Lots A,B, 1-23, & FRONT YARDS O
DRAINAGE AREA:
DRAINAGE AREA: Planimeter Rdg x .015 Cots 24-29, d TR R-2(2.0) A offsite AREA)
x Map Scale $^2 \div 43.560$ $A = 9.36$ acres
TIME OF CONCENTRATION: Drainage Basin Data:
L = ft., fall = ft., slope = ft/ft
□ Overland Flow:
v = ft/sec (P1 22.2 B-1)
Tc = sec. = min. Tc = min.
💆 Street Flow:
v = ft/sec (P1 22.2 B-2)
$Tc = \frac{16,000 (1 - 2.1.5)}{\text{sec.}} = \frac{12}{\text{min.}} Tc = (0 \le E) 12 \text{min.}$
□ Arroyo Flow:
Tc = 0.0078 LO.77 = min. Tc = min.
SO.385
LAND TREATMENT:
Land Use Type Percentage Acres Precipitation Zone:
A
B <u>12</u> <u>1.12</u>
C 47 4,40
D <u>30</u> 2.81
$\frac{100\%}{9.36}$
PEAK DISCHARGE (Table 9): Treatment Area(acres) Discharge (cfs/ac) Q ₁₀₀ (cfs)
Treatment Area(acres) Discharge (cfs/ac) Q ₁₀₀ (cfs) A 1.03 Discharge (cfs/ac) Q ₁₀₀ (cfs)
B 1.12 2.03 2.3
C 2.87 12.6
D 2.81 4.37 12.3
TOTAL 28,5
VOLUME OF RUNOFF:
Soil Group A B C D CN (Previous) = (P1 22.2 C-2)
Percent Impervious = $\frac{(1122.2 \text{ C-2})}{\%}$
CN (Composite) = (P1 22.2 C-3)
Direct Runoff, $q_{100} =$ " (P1 22.2 C-4)
$V_{100} = q A = x ac x 43,560 = cu. ft.$
*

PROJECT: TAYLOR RIDGE Analysis Point # TRACT C
DRAINAGE AREA: PEGASUS DR, APOLLO CT, # APPOLLO DRIVE Planimeter Rdg x .015
x Map Scale $^2 \div 43,560$ A =
TIME OF CONCENTRATION: Drainage Basin Data:
L = ft., fall = ft., slope = ft/ft
☐ Overland Flow: v = ft/sec (P1 22.2 B-1) Tc = sec. = min. Tc = min.
Street Flow: $v = ft/sec (P1 22.2 B-2)$ $Tc = sec. = min. Tc = (U \le E) /2 min.$
☐ Arroyo Flow: Tc = 0.0078 <u>LO.77</u> = min. Tc = min. SO.385
LAND TREATMENT: Land Use Type Percentage Acres Precipitation Zone:
A B 15 30 1.50 C 34 19 3.39 D 51 51 5.08 100% 9.97 9.28 DMR
PEAK DISCHARGE (Table 9): Treatment Area(acres) Discharge (cfs/ac) Q ₁₀₀ (cfs)
A — — — O O O O O O O O O O O O O O O O
VOLUME OF RUNOFF: Soil Group A B C D CN (Previous) = (P1 22.2 C-2) Percent Impervious = % CN (Composite) = (P1 22.2 C-3) Direct Runoff, q ₁₀₀ = " (P1 22.2 C-4) V ₁₀₀ = q A = x ac x 43,560 = cu. ft.

Location	(cfs)	Street Slope	Flow Septh (Ft) (4)	Areq 1/2 Street (SF)	Velocity (fps)	Avg. h (1)	Froude. No. (2)	Sequent Depith (3)
TRACT E								
TRES VISTAS RD:	· ·							
@ 10+ 13/20	10.8	3.0	0,32	1.52	3.6	0.127	1.78	0.66
@ Oxnard Drive	(15.7-72)=8.7	8.0	0.26	0.89	4.9	0.099	2.74	0.89
	-							
TRACTA								
TAYLOR RIDGE RD:								
@ 10t 5	19.0	2.5	0.38	2.20	4.3	.157	1.91	0.85
@ Montano Plaza Dr	23.4-10.4=13.0	2.4	0.35	1.90	3,4	.141	1.60	0.64
								•
(1) D = Area / Top Width	(2)	F = V/($(3)^{1/2}$	$D_2 = (0.5)$) D, [(1+8F	-2)"2-]] fro	m DPM Pla	te 22.3 E-1

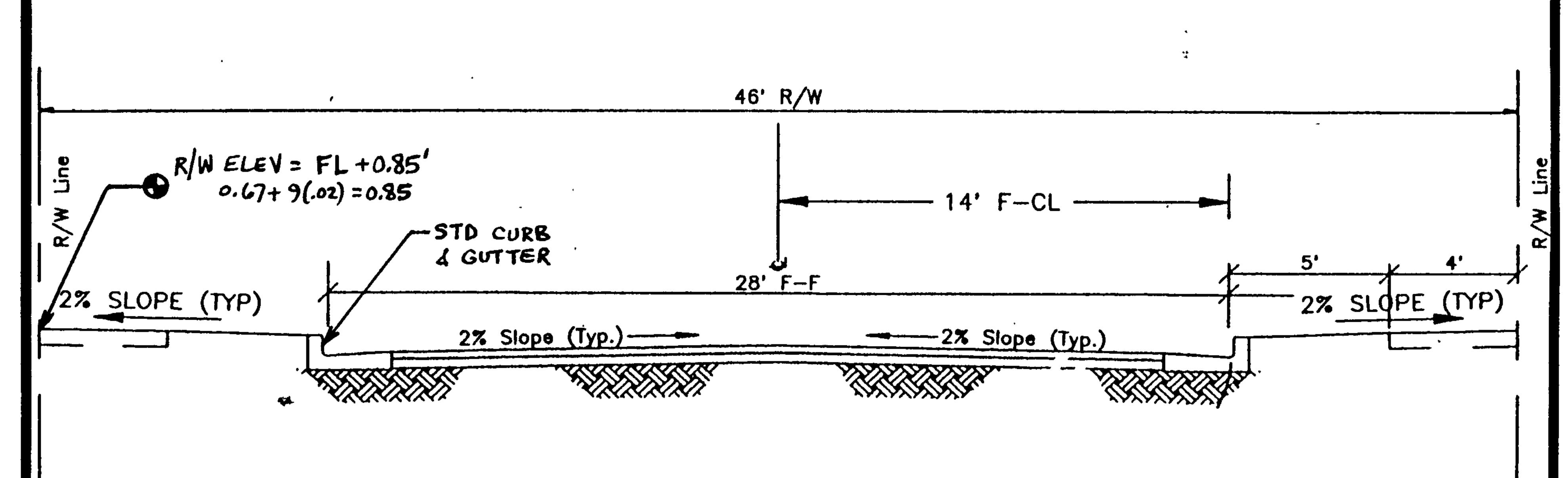
(4) DPM Plate 22.3 D-1 (32' street) gives exact depth up to 0.36ft & close approximations to 0.40ff flow depth

STREET HYDRAULICS SUMMARY

	N N N	133		DRAU	527		WW		
		(c+3)	Street Slepe Slepe	Elow Se Ph (ff)(4)	Weg Freet (SF)	Velocity (fps)	Defth Co	Froude No. (2)	Sequent Sequent Sequent (3) cent
Ţ	TRACT B LA COLONIA DR:								
		78.0	7.9	0,34	1.78	5.0	7.0	2.35	0.87
	@Montano Plaza Dr	28,5-10=18,5	. 0.	7470	2.56	w.	, 183	1,48	0.73
	TRACT					•			
	U								
· · - ·	@ 10t 17B/14A	9.8	7.3	0.38	2.20	4.2	181	1.87	0.83
	@ Pegasus Dr	27.4-11=16.4	7. V.	6.3	2.04	4·0	74.	1.84	0.77
	PEGASUS DR;								
	@ Apollo Dr	1,5	4.0	0.28	7.08	3,57	801.	. 8.8 ./	0.62
	(1) $D = Area / Top Width$	(2)) / S) (3) (3)		J D, [(1+8F	2)'(2) [-] fra	sm DPM Pla	te 22.3 E-1
			31 VS/	et aeptil 70	7.56 tt +	Clase appl	eximations -	to 0.40 ft	Flow depth.

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SUBJECT AYLOR RIDGE JOB NO.__
BY______ DATE 8/30/94 SHEET NO. A8 OF___



(28' F-F STREET WIDTH)

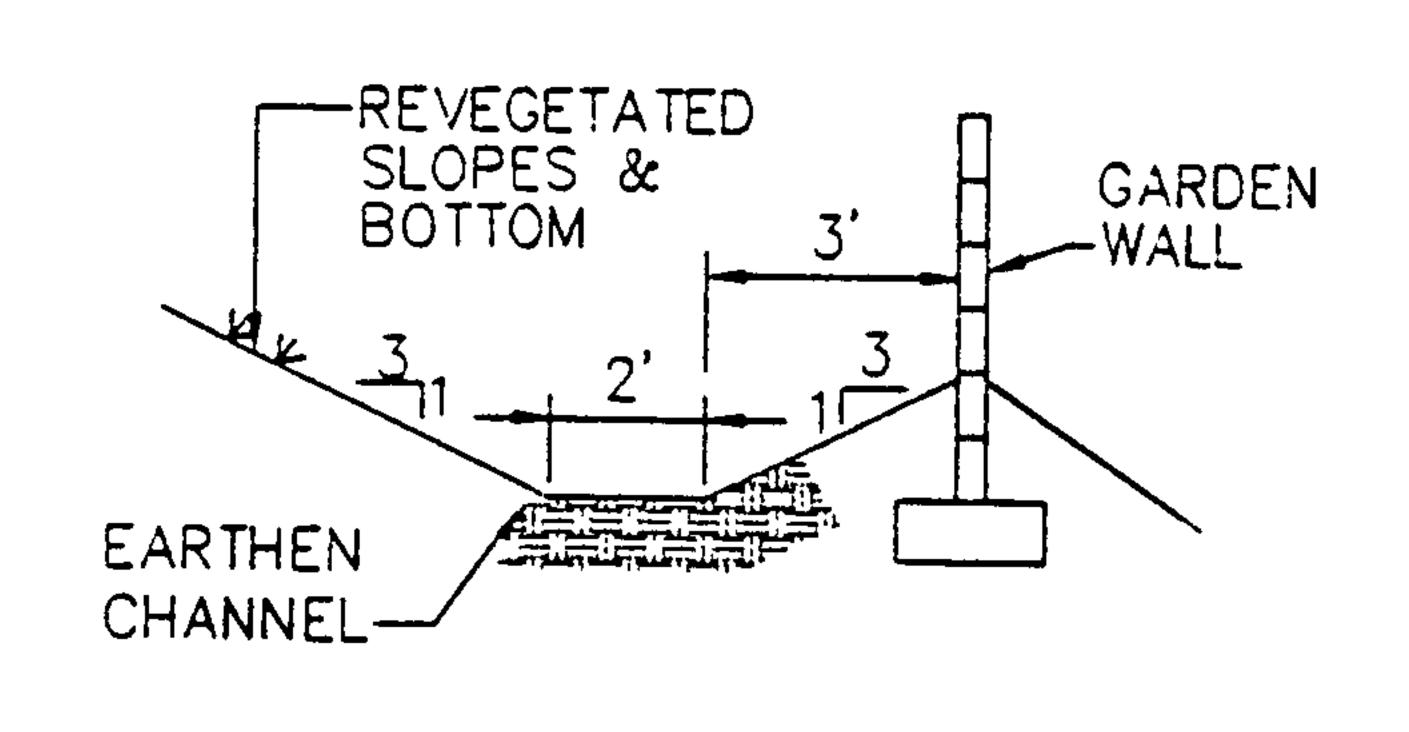
STORM DEA!			7770			NBLE
	Upezteenm (cfs)	Ethet Grante (9/0)	Flow Charl CFF)	Tellor	Tilet The Carry Ca	Chestrani.
LA COLONIA DR: 10+ 15/29	0.8	4.9	0.34	2 suge, "A"	6.0(2) = 12.0	9'0
LA COLONIA DR: 10+ 18	16.4	70	0.34	SNGL 'A' (OBL TIIROATT)	3,0	
LA COLONIA DR: 10+23/24	13,5	7.0% - A.C. O. J.	2,40 MERCEPTE	2 SWGL'H'	4.0(2) = 8.0 ¥ 23.0 c.FS	(>19.4*oK)
TAYLOR RIDGE RD: 145	0.61	N. 10.	6.38	2 such 14	5,2(2)=10.4	9'8

Isaacson & Arfman, P.A.

STORM DEA,			077 170	1177		HBLE
Location	Upazzenm (crs)	Ethert Greate (9/0)	Horry (1949)	Tellot	Trolet Greent Greent	Dunstram! Crssfram!
TRES VISTAS RD: 104 13/20	8'01	3.0	78.0	2 swc. 'A'	3,5(2) = 7.0	3.8
APOLLO DR: 10+ 178 14A	9,8	N:	0,38	2 swg 141	5.5(2)211.0	92
Apollo DR: 1st ZOB/11A	7.9	2.3	0.34	2 succ 'A'	4,2(2) = 8.4	. 53
APOLLO DR: lot 21B/10A	2,0	N	0.25	2 swc. 'A'	2,4(2)=4.8	
A Pollo DR: 107 8/9	2,0	(Sump)	. 60.0	SUGL'A'	20.7 *	
PEGASUS DR: 10+7	7.5	(sump)	0,67	SNGL 'A'	20,7 *	0.0
* Q INTERCEPTED AT SUMP ACCEPTING FLOW.	NCET BASE	000 CC00	SEED. GRA	COBL THEOAT) FE WITH OPE	EN THROAT	ONLY FOR OF CURB
= C A 229			12 ×	7		
(5.21)	2/5			4,5" = . (H2 -)	$375'$ $H_2 = 1/2$	5.75" = .896' (21) = 5.21sF
Q = 20.7 CFS THROAT	27/2) + 'H = 6	2-H/2=.375	4.260
				<u> </u>	0.635FT	

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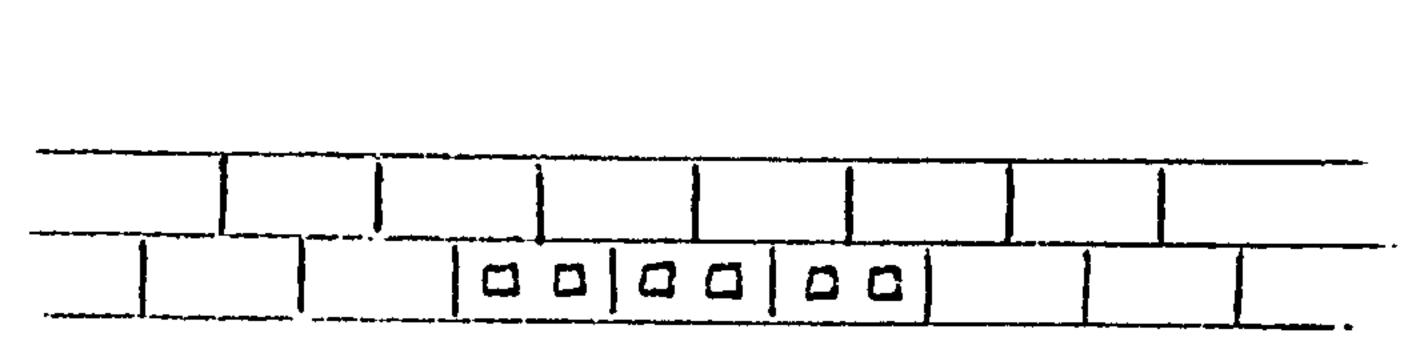
		IPE	PE HYL		C S	SUMMA	RY
Location	SD size (in)	Design Q (cfs)	Manning Capacity (cfs)	5/0pe (%)	Flow Depth (.Ft)	Velocity (Fps	Comments
Taylor Ridge Rd	18 24	10.4	18.2	3.0	0.86	10.0	
La Colonia Dr	24	15.0	32.0	2,0	0,93	10.0	
Apollo Dr	24	24.2	32.0	2.0	1,56	9.9	
(easement beyond)	36	69.8	94.0	2.0	2.25	/3./	
Tres Vistas Rd	18 24	7.0	18.2	3,0	0.70 0.60	8.5 7.4	



 $\frac{\text{SECTION A} - \text{A}}{1"=5'}$

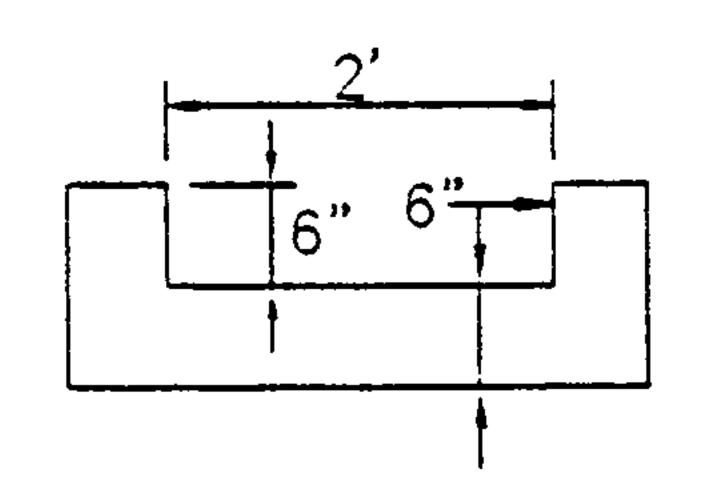
TRACT R-2 SWALE 5 = 1%, for y = 6'' $Q = \frac{1.49}{.03}(1.75)(0.35)^{1/3}(.01)^{1/2}$ Q = 4.3 CFS $Q_{MAX} = 4.2 \text{ CFS}$ $V = \frac{Q}{A} = \frac{4.2 \text{ CFS}}{1.75 \text{ SF}} = 2.4 \text{ FPS}$

REAR WALL TURNED BLOCKS



6 Openings @
$$51/2''$$
 square
 $A = 6 (0.21) = 1.26 \text{ SF}$
 $Q = CA \sqrt{2gH'}$

for y = 6'' $Q = (0.6)(1.26)[(64.4)(0.5)]^{1/2}$ Q = 4.3 cfs



NOTE:

LOT B PRIVATE DRAINAGE CHANNEL

<u>SECTION B-B</u> 1"=2' PRIVATE DRAINAGE CHANNEL
SHALL WIDEN TO 4' F-F OVER
4' LENGTH ADJACENT TO REAR
LOT. REAR WALL SHALL HAVE
3 TURNED BLOCKS (AT GROUND
LEVEL) AT DRAINAGE CHANNEL
ENTRANCE.

5 = 2% $\text{CAPACITY: } Q = \frac{1.49}{.013} (1.0) (0.33)^{2/3} (.02)^{1/2} = 6.7 \text{ cfs}$ $\text{for } Y = 0.34' \text{ : } Q = \frac{1.49}{.013} (.08) (.254)^{2/3} (.02)^{1/2} = 4.4 \text{ cfs}$ $V = Q/A = \frac{4.2}{0.67} = 6.3 \text{ fps}$