

DRAINAGE INFORM	ATION SHEET
DRAINAGE INFORM PROJECT TITLE: TRADITIONS @ TANOAZONE A DRB #: 97-437 EPC #:	ATLAS/DRNG. FILE # E-22 D
DRR #: 97-437 FPC #:	WORK ORDER #
LEGAL DESCRIPTION: TRACT N-6-A, T	ANDAN PROPERTIES
LEGAL DESCRIPTION: MOTO	ANOIN PAILEDIES
CITY ADDRESS:	
	X fra 1/2
ENGINEERING FIRM: <u>BOHANNAN-HUSTON INC.</u>	CONTACT: James opmiller
ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109	PHONE: (505) 823-1000
OWNER:	CONTACT:
ADDRESS:	PHONE:
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE: VE
	JUL 1 0 1998
TYPE OF SUBMITTAL:	ECPOPER APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
FINAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB=D. APPROVAL
GRADING PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER=S CERTIFICATION	FINAL PLAT APPROVAL
OTHER	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
_	CERTIFICATE OF OCCUPANCY APPROVAL
PRE-DESIGN MEETING:	Y GRADING PERMIT APPROVAL
	PAVING PERMIT APPROVAL
	S.A.D. DRAINAGE REPORT
COPY PROVIDED	DRAINAGE REQUIREMENTS
	OTHER WORK (SPECIFY)
7/. /22	Olack
DATE SUBMITTED: 7/10/98	



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 17, 2000

James Topmiller, P.E.
Bohannan-Huston Inc.
7500 Jefferson NE
Albuquerque, New Mexico 87109

RE: Grading and Drainage Plan for Traditions at Tanoan (E22/D20) Submitted for Preliminary and Final Plat Approval and Grading Permit Release, Engineer's Stamp Dated 4/3/00.

Dear Mr. Topmiller:

Based on the information provided, the above referenced plan is approved for Preliminary Plat action by the DRB. The above referenced plan is also approved for Rough Grading permit release provided that it is first approved by the DRB.

On the Infrastructure List, please add the note stating that the storm drain includes manholes, the outfall structure and appurtenances. Also note that the Letter of Map Revision (LOMR) must be obtained from FEMA prior to release of the financial guarantees. Since mass grading is not proposed, and since the grading for each lot will be certified after it is developed, the grading and drainage certification requirement on the Infrastructure List for the release of financial guarantees may not be required.

Prior to Final Plat sign-off, please provide a note on the Plat stating that AMAFCA will maintain the proposed 48" storm drain pipe within their easement.

If you have any questions, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E.

City/County Floodplain Administrator

c: Lisa Ann Manwill, P.E., Albuquerque Metropolitan Arroyo Flood Control Authority File

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PLATE 1A: STORM DRAIN DESIGN PLAN AND PROFILE

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PLATE 4: PROPOSED CONDITION BASIN MAP

PLATE 5: PRELIMINARY PLAT

PLATE 6: FEMA MAP

I. INTRODUCTION

This report presents the revised drainage management plan for preliminary and final plat (and work order) approval for the development of a residential subdivision called "Traditions at Tanoan Subdivision", on Tract N-6-A, of Tanoan Properties. The property is 2.76 acres, zoned R-D and proposed for development of four detached, single-family residential lots and the related private and public streets, and infrastructure. As is shown on the Drainage Basin Maps, Tramway Dam bounds the property on the east, and Tanoan Golf Course on the west, north and south.

This report has been revised from previously submitted reports to show an alternative handling of the dam's principal spillway discharge, i.e.; the discharge will be piped to a location that drains away from the existing irrigation pond (not to the pond).

II. PURPOSE OF REPORT

This report outlines the hydrological methods used, and summarizes the existing and proposed drainage conditions. Calculations and supporting data are presented in the appendices. Drainage basin maps, a grading plan, storm drain plans, profiles, details, street profiles, and a copy of the preliminary plat are included at the end of this report. The purpose of this report is to obtain a drainage report approval for the preliminary and final plat (and work order) from AMAFCA and the City of Albuquerque.

From previous conversations with Mr. Fred Aguirre (COA Hydrology) and Lisa Manwill (AMAFCA), AMAFCA will take part in the hydrological/hydraulic review of this plan.

III. METHODOLOGIES AND REFERENCES

Existing undeveloped conditions and proposed developed conditions were analyzed for an approximate 100-year, 6-hour storm event consistent with the City of Albuquerque Design Process Manual (DPM), including the January, 1997 revision of Chapter 22 Drainage, Flood Control, and Erosion Control, Section A.6. The analysis also references, and is consistent with, the previously submitted and approved report named "Application for CLOMR for Arroyo del Pino Arroyo, Adjacent to the Enclave at Tanoan Subdivision," dated April 1993, by Bohannan Huston, Inc.

Street hydraulics were analyzed using Manning's equation with the "n" values suggested in the DPM. Rating tables for streets are provided in the appendices along with hydrologic and hydraulic calculations. Streets are designed to convey the energy grade line of the design storm event within the right-of-way. Normal flow depth is confined to the top of the curb. The culvert calculations used inlet control conditions and are analyzed by nomographs in Appendix C.



IV. SUMMARY OF RELATED PLATTING/SITE DEVELOPMENT PLAN ACTION(S)

This report requests preliminary and final plat (and public work order) approval. Final grading plans and work order construction plans will be submitted and approved by the City and AMAFCA in the near future.

V. SITE LOCATION AND CHARACTERISTICS

This site currently consists of undeveloped vacant land with slopes ranging from 3% to 9% generally downhill in a westerly direction. Soils are highly absorptive sandy soils with occasional clay lenses. Vegetation is light, consisting of grasses and small sagebrush.

The site is to be accessed from Lowell Street by a private road crossing adjacent golf course lands. The golf course lands have pop-up sprinklers and paved golf course paths. The Lowell Street Right of Way has existing wet and dry utilities, and irrigated grasses on the surface.

A portion of the site is found within a FEMA floodplain, as shown on the floodplain map provided in the rear of this report.

VI. EXISTING HYDRAULIC AND HYDROLOGIC CONDITIONS

The existing drainage conditions are shown graphically on the Existing Drainage Conditions

Basin Map and are summarized as follows (calculations are also shown in the Appendix):

The bulk of the existing site is treated as a single basin, Basin E-1, for comparison purposes to the developed condition.

A. Onsite Conditions

Basin E-1 consists of the site itself, Tract N-6-A. Existing conditions generate 7.2 cfs for an approximate 100-year 6-hour storm event. The runoff flows to a shallow swale and is conveyed offsite and into the Tanoan Golf Course.

The Pino Dam principal spillway outlets near the southern reach of Lot 4. The 100-year, 6-hour discharge from the outlet is 206.1 cfs, as described in the "CLOMR Application for Arroyo del Pino" report. (See Appendix.) The discharge from the Dam proceeds at first westerly, and then is diverted by Golf Course berms to the north across Lot 4 before flowing out onto the Golf Course.

B. Offsite Conditions

Basin E-2 is made up of the western sloped side of the dam, immediately upstream of the site, and generates 10.0 cfs peak in the 100-year 6-hour storm event. The runoff from this basin travels in sheet flow in a westerly sheet flow manner across the site into the Golf Course or the existing irrigation pond.

Basin E-3 consists of the area draining to the proposed road crossing of the irrigation pond spillway swale. This basin includes the 100 year discharge of 117.5 cfs from the existing 54" storm drain exiting the Lalique Subdivision. The discharge from the basin is 139.2 cfs. (obtained from the "Enclave at Tanoan Drainage Report, April 1993).

C. Management of Offsite Drainage Basin Flows

The following describes how the basins' flows are to be managed and integrated within site development.

Historically, flows of 10.0 cfs run off the western slope of the dam embankment (E-2), drained over the site. Proposed conditions allow for historical flows to pass through the lots into Tradition Lane. Future homeowners of the lots are to allow flows to pass through their property via turned blocked and/or swales designed by the engineer on a lot by lot basis. The Pino Dam out fall flows for the 100 year storm are 206.1 cfs. These flows will be intercepted by a new 36" RCP and pass through an underground storm drain system to the north side of Tradition Lane. Dissipation of flow energy will occur in a riprap lined channel extending from the pipe end. See appendix C for hydraulic calculations and Plate 1A for the storm drain design plans. The flows will then continue down historical AMAFCA drainage easement paths.

The 206.1 cfs discharged from the dam's 36" principal spillway pipe shall be collected and conveyed via a new storm drain pipe to a discharge point located just west of Lot 1. The pipe will be of a material such as HDPE, as acceptable by AMAFCA and will be owned and maintained by AMAFCA. A new easement will be granted to AMAFCA covering the pipe. A dissipation channel of designed riprap shall be located at the new pipe's outlet. Calculations for both the pipe's hydraulics and the dissipation channel are located in Appendix C of this report.

A significant drainage structure proposed is **the multiple-culvert crossing on Tradition Lane** at the existing spillway swale from the irrigation pond. The culverts are identified as Analysis Point # 2, with a 100-year flow of 139.2 cfs. City Ordinance requires an all-weather access to proposed subdivisions so accordingly, the full flow must be passed under the road in the proposed culverts. Calculations provided in the Appendix result in the installation of three (3) 24"x38" oval RCP pipes to pass the required flow. Headwater requirements at the culvert entrances will place the culvert inverts at least 3.5' below the

road elevation. Minor regrading at the culvert outlets will produce a sloped swale that returns the flows in a low velocity manner to the Golf Course in its historical, predevelopment alignment. Maintenance of the road and the drainage crossing will be provided by the Tanoan Homeowner's Association, which provides this service for all the Tanoan residential development.

Offsite Basin 1 (OFF-1) is the basin covering the proposed Lowell Street extension to Tradition Lane. It is generating approximately 9.1 cfs in the 100-year storm event. These flows will be discharged westerly onto the Golf Course, in a semi-sheet flow manner, by sloping the road at a 3% gradient to the west. Since no curb (or an asphalt curb with spaced curb openings) will be constructed on the road's west side, flows will not be concentrated, and flow depths and velocities will be minimized to the point there will be no adverse impacts.

The existing FEMA floodplain on proposed Lot 4 and Tradition Lane shall be removed at a future date by CLOMR/LOMR submittal to the City and FEMA (by separate submittal).

AMAFCA will be provided a revised Filing Sheet for the Pino Dam Facility to reflect the new storm drain pipe extension and verification of no impact to the storm event water surface elevations in the dam.

VIII. CONCLUSION

The drainage management plan presented in this report for Traditions at Tanoan (formerly Tanoan Properties Tract N-6-A) provides a workable solution to the drainage issues created by the development of this property and should be approved as satisfying the requirements for Preliminary Plat, Final Plat and Work Order Approval.

EXISTING DRAINAGE / BASIN E-1

TANOAN: TRACT N-6-A
ON-SITE, EXISTING DRAINAGE BASINS
Qmax CALCULATIONS

Source: DPM

Zone 3: Between San Mateo and Eubank, North of I-40; and between San Mateo and the East boundary of Range 4 East, South of I-40

Treatments:

- **A.** Soil uncompacted by human activity with 0 to 10% slopes. native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, ground cover and infilteration capacity.
- **B.** Irrigated lawns, parks, and golf courses with 0 to 10% slopes. Native grasses, weeds, and shrubs and soil uncompacted by human activity with slopes greater than 10% and less than 20%.
- **C.** Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic. Irrigated lawns and parks with slopes greater than 10% and < 20%.
- **D.** Impervious areas, pavement and roofs.

TABLE A-6: Qmax = (Qmax1*A1)+(Qmax2*A2)+(Qmax3*A3)...

Basin and Treatment Disbursement	Area (acres)	% of Total	Treatment	Q/ACRE peak
E-1	3.24			
native grasses w/ slopes <10%		50	А	1.87
irrigated lawns w/ slopes < 10%		50	В	2.60

Peak Discharge (CFS):

Table A-9

1.87*(0.5*3.24)+2.60*(0.5*3.24)

Qmax (CFS)

BASIN E-1

7.2 cfs

% Treatment D = 7*((N*N)+(5*N))^.5
 where N = units/acre = 1.98
 % Treatment D = 26



EXISTING DRAINAGE BASIN E-2

TANOAN: TRACT N-6-A

OFF-SITE, EXISTING DRAINAGE BASINS

Qmax CALCULATIONS

Source: DPM

Zone 3: Between San Mateo and Eubank, North of I-40; and between San Mateo and the East

boundary of Range 4 East, South of I-40

Treatments:

A. Soil uncompacted by human activity with 0 to 10% slopes. native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, ground cover and infilteration capacity.

- **B.** Irrigated lawns, parks, and golf courses with 0 to 10% slopes. Native grasses, weeds, and shrubs and soil uncompacted by human activity with slopes greater than 10% and less than 20%.
- **C.** Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic. Irrigated lawns and parks with slopes greater than 10% and < 20%.
- **D.** Impervious areas, pavement and roofs.

TABLE A-6: Qmax = (Qmax1*A1)+(Qmax2*A2)+(Qmax3*A3)...

Area and Treatment Disbursement	Area (acres)	Treatment	Q/ACRE peak
E-2: Dam Run-Off Above Subdivision	2	D	5.02

Peak Discharge:

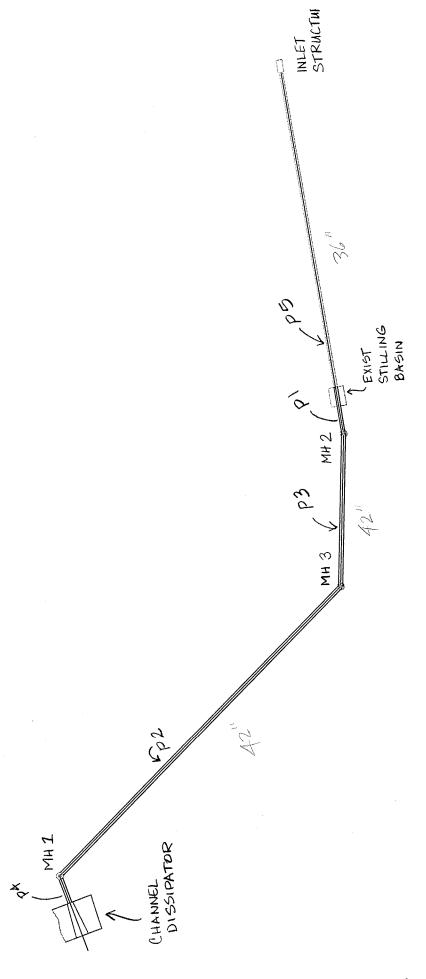
Table A-6

Qmax (CFS)

5.02*2.0

BASIN E-2

10.0



STORM DRAIN SIRING & AMALYSIS GICULATIONS

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dsgnl Headloss: 5 Flow Regime: Su		Flow From:	Chamber Length:		Flow From:	Slope: Pipe Height: Flow Status: Capacity: Headloss: Flow Regime:		Flow From:	Chamber Length:		Flow From:	Slope: Pipe Height: Flow Status: Capacity: Headloss: Flow Regime:	This is a principle system
36.1630 ft/s 4.9726		206.0000 cfs	Fixed 6.0000 ft See Below		206.0000 cfs	Fixed 42.0000 in 3.5000 ft 3.4600 ft 21.4112 ft/s 0.0000		206.0000 cfs	Fixed 5.0000 ft See Below		206.0000 cfs	Fixed 42.0000 in 3.5000 ft 3.4600 ft 21.4112 ft/s 0.0000	charged at MH1.*** charged at MH3.*** charged at MH2.***
Velocity: Froude Number:	Lesigning manhole MH3	Results: Total Flow:	Status: Chamber Width: Headloss:	Designing pipe P2	Results: Total Flow:	Status: Pipe Width: Depth of Flow: Critical Depth: Velocity: Froude Number:	bestgning manhole MHI	Results: Total Flow:	Status: Chamber Width: Headloss:	besigning pipe P4	Results: Total Flow:	Status: Pipe Width: Depth of Flow: Critical Depth: Velocity: Froude Number:	Hull/EGL Computations:Warning: System surchargedWarning: System surcharged

DISSIPATOR CHANNEL DESIGN CALCULATIONS

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isis de	208.00	5910.08	5911.27	5911.72	5912.70	0.093798	9.59	21.48	22.92	1.7
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	208.00	5910.04	5911.01	5911.23	5911.82	0.067284	7.21	28.56	38.74	1.4
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Free board calcs: Based on DPM requirements. For flow rates 2100cfs and average flow velocity of 35 fps or a eater:

Freeboard (ft) = 0.7 (2.0 + 0.025 Vd 1/3)

A 4 sechens-

STA 1+30.00: V = 17.46, d = 1.25 Frbd = $0.7(20+0.025(17.46)(1.25)^{1/3}$

STA 1+24.00: V=11.87, d=1.47

Frbd = 0.7(2.0+0.025(11.87)(1.47)3)

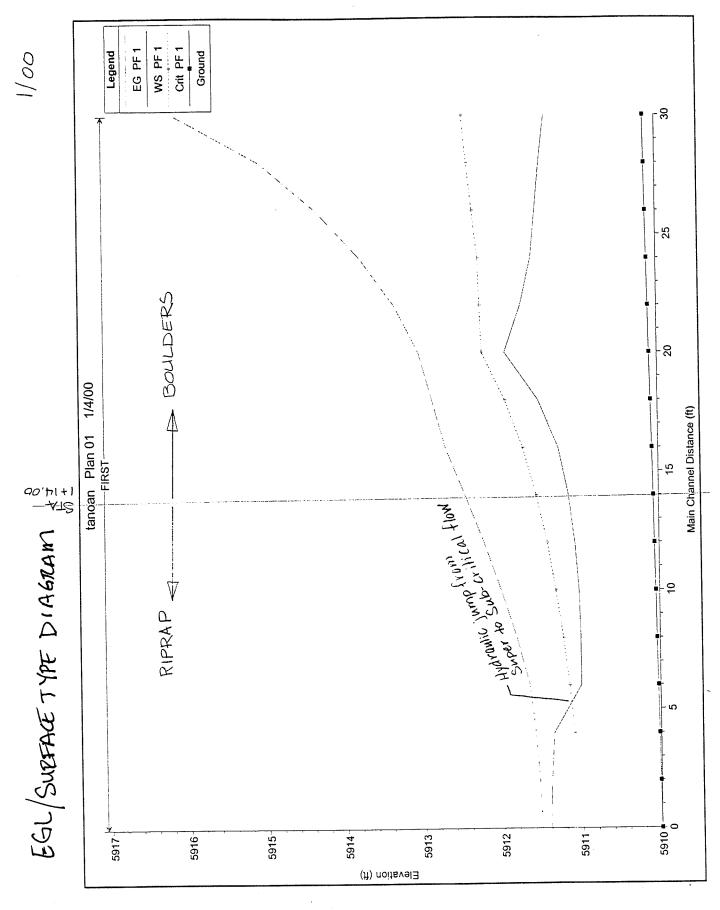
= 1.64

STA 1+20.00: V= 8.41, d=1.83

Frbd = 0.7(2.0+0.025(8.41)(1.83)/3) =1,59

Frbd = $0.7(2.0 + 0.025(2.54)(1.41)^{1/3})$ STA 1+00.00 V = 2.54, d=141 = 1.45

STA 1+1A v=9.19, d=1.07 Frbd = $0.7(2.0+0.025(9.19)(1.07)^{1/3})$



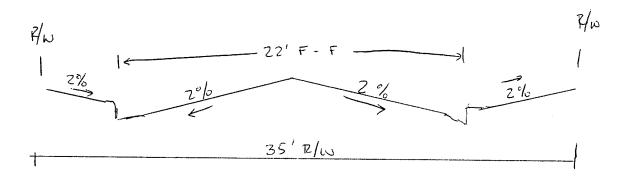
Street Flow Calculations Tradition Lane

 Q_{100} at intersection w/ Lowell = 18.0 cfs

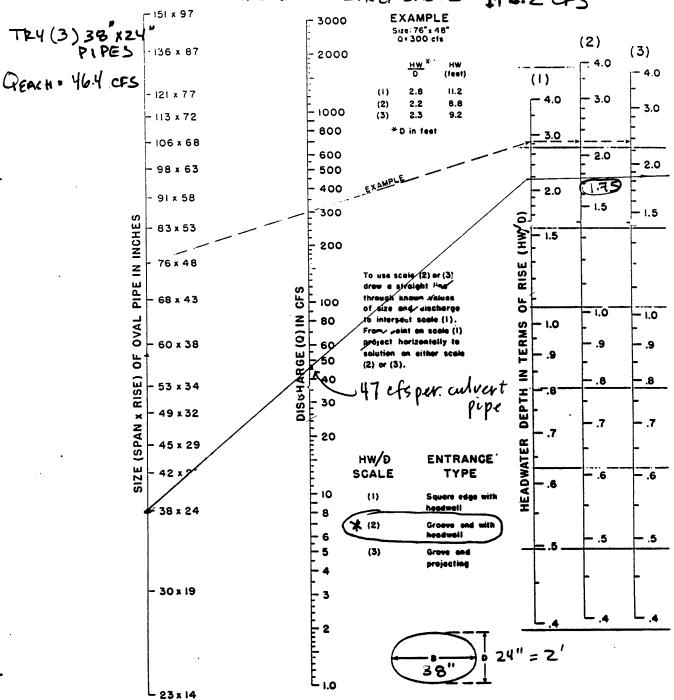
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3	8.33	0.00	7	30.33	0.00	11	0.00	0.00
4	10.33	0.00	8	31.00	0.67		0.00	0.00
4	10.33	0.01	0	31.00	0.07	12	0.00	0.00
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0.20	0.20	2.62	14.3	22.57	5.44	22.4	0.4	0.66
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0.60	0.60	11.74	168.0	23.70	14.31	23.2	3.1	3.78
0.65	0.65	12.90	195.9	23.84	15.18	23.3	3.5	3 4.23
0.70	0.70	14.10	213.2	26.23	15.12	25.6	3.5	4.25
0.75	0.75	15.48	227.2	30.12	14.67	29.5	3.3	4.09
0.80	0.80	17.06	246.2	34.01	14.43	33.4	15 3.23	3 4.03
0.82	0.82	17.74	255.2	35.56	14.38	35.0		

 Q_{100} =18.0 cfs Depth =0.22' Vel. Head =5.90'

Energy Head = 0.76' < 0.82' (R/W Height) $\sqrt{\text{OK!}}$



CULVERT DESIGN @ TRADITION / LOWEL INTERSECTION HART 3
QUO FROM POND & SURPOUNDING BASING 142.2 CFS



HEADWATER DEPTH FOR OVAL CONCRETE PIPE CULVERTS LONG AXIS HORIZONTAL WITH INLET CONTROL

BUREAU OF PUBLIC ROADS JAN. 1963

Hw= 1.4 Hw= (2/ X1.75) = 2.8

-ROADWAY

USE:

I Hw = 3.5'

FLOW

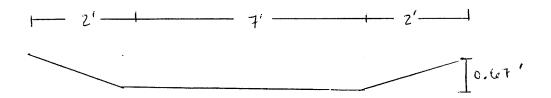
Aphalt Rundown (SPILLWAY)

At Intersection of Lowell and Tradition Lane Releases flows from ON-1 & ON-2 to existing Golf Course drainage swale

 $Q_{100} = 18.0 \text{ cfs}$

Designed for $2 \times 100 = 100 = 36.0 \text{ cfs}$

MANNING	'S N= .	013 SLOP	E= .02	2				
POINT 1	DIST	ELEV	POINT 3	DIST 7.00	ELEV	POINT	DIST	ELEV
2	2.00	0.00	4	9.00	0.67			
WSEL	DEPTH INC	FLOW AREA	FLOW RATE	WETTED PER	FLOW VEL	TOPWID	VEL HEAD	ENERGY HEAD
(FT)	(FT)	SQ.FT.	(CFS)	(FT)	(FPS)	(FT)	(FT)	(FT)
0.05	0.05	0.26	0.6	5.31	2.15	5.30	0.07	0.12
0.10	0.10	0.53	1.8	5.63	3.34	5.60	0.17	0.27
0.15	0.15	0.82	3.5	5.94	4.31	5.90	0.29	0.44
0.20	0.20	1.12	5.7	6.26	5.13	6.19	0.41	0.61
0.25	0.25	1.44	8.4	6.57	5.86	6.49	0.53	0.78
0.30	0.30	1.77	11.5	6.89	6.53	6.79	0.66	0.96
0.35	0.35	2.12	15.1	7.20	7.14	7.09	0.79	1.14
0.40	0.40	2.48	19.1	7.52	7.71	7.39	0.92	1.32
0.45	0.45	2.85	23.5	7.83	8.25	7.69	1.06	1.51
0.50	0.50	3.25	28.4	8.15	8.75	7.99	1.19	1.69
0.55	0.55	3.65	33.7	8.46	9.23	8.28	1.32	1.87
0.60	0.60	4.07	39.5	8.78	9.69	8.58	1.46	2.06
0.65	0.65	4.51	45.7	9.09	10.13	8.88	1.59	2.24
0.67	0.67	4.69	48.3	9.22	10.30	9.00	1.65	2.32



PROPOSED DRAINAGE

TANOAN: TRACT N-6-A

ON-SITE, PROPOSED DRAINAGE BASINS

Q 100 CALCULATIONS

Source: Per DPM Requirements

Zone 3: Between San Mateo and Eubank, North of I-40; and between San Mateo and the East boundary of Range 4 East, South of I-4C

Treatments:

- A. Soil uncompacted by human activity with 0 to 10% slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, ground cover and infilteration capacity
- B. Irrigated lawns, parks, and golf courses with 0 to 10% slopes. Native grasses, weeds, and shrubs and soil uncompacted by human activity with slopes greater than 10% and less than 20%
- C. Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacan lots. Gravel or rock on plastic. Irrigated lawns and parks with slopes greater than 10% and < 20%
- **D.** Impervious areas, pavement and roofs.

TABLE A-6: $Q100 = (Q100' \times A1) + (Q100'' \times A2) + (Q100''' \times A3)...$

Basin and Treatment Disbursement	Area (acres)	Treatment	Q/ACRE peak
ON-1: 30' Easement to Culverts	0.48		
Paving	0.16 33	° D	5.02
Grass to the south of Tradition Lane	0.32 big	70 C	3.45
ON-2:	4.71		
Lots: pavement and roofs*	0.63 137	D	5.02
Lots: irrigated lawns w/ slopes < 10%	1.86	В	2.60
Cul de Sac and Street to 30' Easement	0.27 ريخ إ	D	5.02
Dam run-off above subdivision	1.95	С	3.45

39% B 197. D 427. C

Peak Discharge (CFS):

5.02 X (0.16)+3.45 X (0.32) 0.63*(5.02)+1.86*(2.6)+0.27*(5.02)+1.95*(3.45) **Qmax ON-1 = 1.9 CFS**

Qmax ON-2 = 16.1 CFS

Q100 Onsite Basins = 18.0 CFS Total from ON-1, ON-2

[%] Treatment D = $7*((N*N)+(5*N))^{.5}$ where N = units/acre = 1.98 % Treatment D = 26% = 0.63 acres

TANOAN: TRACT N-6-A OFF-SITE, PROPOSED DRAINAGE BASINS Qmax CALCULATIONS

Source: Per DPM Requirements

Zone 3: Between San Mateo and Eubank, North of I-40; and between San Mateo and the East boundary of Range 4 East, South of I-40

Treatments:

- **A.** Soil uncompacted by human activity with 0 to 10% slopes. native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, ground cover and infilteration capacity.
- **B.** Irrigated lawns, parks, and golf courses with 0 to 10% slopes. Native grasses, weeds, and shrubs and soil uncompacted by human activity with slopes greater than 10% and less than 20%.
- **C.** Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic. Irrigated lawns and parks with slopes greater than 10% and < 20%.
- D. Impervious areas, pavement and roofs.

TABLE A-6: $Q100 = (Q100' \times A1) + (Q100'' \times A2) + (Q100''' \times A3)...$

Area and Treatment Disbursement	Area (acres)	Treatment	Q/ACRE peak
E-3: Pond and Surrounding Area*			
OFF-1: Drainage from Lowell	1.81	D	5.02

^{*} Source = Arroyo Del Pino Adjacent to the Enclave at Tanoan Subdivision, May 1993

Case No: 93-06-288R, Report # D-20, HYMO SUMMARY and Pino Arroyo Drainage Map (Exhibit 2)

Basin 206 less Sub-Basin 106 and Pino Dam Spillway: Qmax = 366.8 CFS - (21.5 +206.1 CFS) = 139.2 CFS

Peak Discharge (CFS):

Table A-6	BASIN	Q100 (CFS)
* 366.8 - 21.5-206.1	E-3	139.2
5.02 x (1.81)	OFF-1	9.1





August 19, 1998

Albuquerque, NM 87107

Dear Lisa:

BOHANNAN HUSTON

Courtvard One

7500 JEFFERSON NE

Albuquerque

NEW MEXICO 87109

voice 505 823 1000

fax 505.821.0892

Ms. Lisa Manwill **Development Review Engineer** Albuquerque Metropolitan Arroyo Flood Control Authority 2600 Prospect NE

Re: Response to Comments Dated July 29, 1998 – The Traditions at Tanoan Subdivision

Mike Adams and I appreciate meeting with you last week to discuss in detail and more comprehensively your comments to the drainage report for The Traditions at Tanoan Subdivision. It was extremely helpful to us to get a feel for your concerns and to be able to discuss them.

The purpose of this letter is to respond to your comments in light of the meeting we held with you. We address the comments below in the order that your letter presented them. We are enclosing a revised infrastructure list and grading/drainage plan.

- 1. **Discharge from the Dam Outlet.** The report stated that under existing conditions, any discharge from the dam exits the outlet and then immediately is diverted northerly by earth mounds constructed with the golf course construction. Under this subdivision's proposed conditions, minimal grading would occur near the outlet to return the flow to its original discharge pattern (in a roughly southwest direction). complying with the original 1977 dam construction plans (see Exhibit A).
- 2. History. With regard to the flood plain history, the flood plain identified on the current FEMA maps show a northerly direction of flow upon leaving the outlet. From as-built records of the dam (excerpts enclosed), this was not the original direction under which the dam was constructed. We believe that the diversion to the north occurred when the golf course was constructed, a year or two ahead of the FEMA mapping.

With regard to the existing 100' drainage easement, the easement was created in 1978 for the future construction of a storm drain or channel within that alignment. The easement, in various documents, ultimately extends to Wyoming Blvd.

With regard to the proposed "realigned" course for discharge, we believe it should be considered not the new course, but the original approved course (when the dam was constructed). We have discussed this drainage realignment with Golf Course officials and have their concurrence.

ENGLIBERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

Ms. Lisa Manwill August 19, 1998 Page 2



- 3. **LOMR.** As discussed, it is our intention to add the LOMR to the infrastructure list for the project. Actual performance calculations and submittal to FEMA will occur at a future date, but prior to release of the LOMR financial guarantee based on the infrastructure list. The LOMR will identify the course of dam outlet discharges in accordance with the grading proposed by this subdivision.
- 4. **Encroachment Agreement.** Enclosed is the plat sheet from the Tanoan Properties replat that identifies the corridor for access over the drainage easement. With this documentation, we are hopeful that we satisfy AMAFCA's requirements with respect to encroachment and will not be required to take this to the Board.
- 5. **Drainage Easement.** As discussed at length in our meeting, a blanket drainage easement exists over the golf course property which allows and accepts flows from multiple City and private subdivision facilities, including AMAFCA facilities. We are proposing no change in the concept of dam outlet discharge concepts for flow down the Pino Arroyo and through the golf course. The concept remains exactly as it has been for many years and through many downstream developments similar to our own. Enclosed is a copy of the easement to Tanoan Land Company, which is the documentation which we have been able to obtain to date.
- 6. **Pond Southwest of Subdivision.** The existing pond identified southwest of The Traditions Subdivision is an irrigation pond owned and maintained by the Golf Course. We have revised the grading plan to identify additional elevations around the pond and a clearer identification of the approximate flood plain that occurs after the development of this subdivision. The elevation of the pond bottom is unknown. Spillway calculations were provided in the appendix of the submitted report that provides a clearer picture of the spillway and how it works.
- 7. **Pond and Culvert Crossing.** Flows leave the pond through the natural-grassed spillway located in the northwest corner of the pond. They are discharged down a natural and graded swale to the proposed culverts under Tradition Lane. Once passed through the culverts, flows reenter the previous flood plain path in the vicinity of the undeveloped Lowell right-of-way.
- 8. **Culvert Elevations.** We have provided additional invert information on the drainage/grading plan regarding inverts of the culverts and top of pavement elevations above the culverts. This information is also found in appendix of the report.
- 9. **Additional Information.** As requested, we have provided additional information on the drainage/grading plan.
- 10. **Flood Plain on Lots 1 and 4.** The preliminary plat, and eventually the final plat, as necessary, will be modified to identify the flood plain crossing Lots 1, 4 and 5.
- 11. **Swale Below Dam Face.** A section is identified on the plan showing a cross-section of the proposed swale. With regard to authorization for grading of the swale, the owners of The Traditions at Tanoan also own the property of Tract N-6-B. It would be my interpretation that the swale may be graded with the concurrence of AMAFCA that there is no damage to the integrity of the dam. Given the very light flows and the very pervious nature of the soil/surface conditions within the basin that drains to the swale, there will be infrequent concentrated flows within this swale, and large storms are successfully passed, as identified in the appendix calculations, when they occur.



Ms. Lisa Manwill August 19, 1998 Page 3



12. **AMAFCA/City Coordination.** As you are aware, we are coordinating with both of these agencies during this review and approval process.

With the response letter and the enclosures, and with the understandings reached in our meetings with you and City staff, we are hopeful that we have met your concerns and provided sufficient justification for your approval of this plan.

If I can answer any questions, please feel free to contact me at any time.

Sincerely,

Bohannan Huston

James R. Topmiller, P.E.

Vice President, Community Development

and Planning Group

JRT/am Enclosures

cc: Mike Adams, Brown & Associates

Susan Calongne, City of Albuquerque David Reynolds, Tucker & Booker, Inc.

DRAINAGE INFORMATION SHEET

PROJECT TITLE: TRADITIONS @ ZONE AT	LAS/DRNG. FILE # $\frac{E}{22}/D20$
DRB #: 97 - 437 EPC #:	WORK ORDER #:
LEGAL DESCRIPTION: TRACT N-6-A	
CITY ADDRESS: ACADEMY & LOWELL	
ENGINEERING FIRM: BOHANNAN-HUSTON INC. ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 OWNER: Brown & Associates ADDRESS: 3400 Candral a ARCHITECT: ADDRESS: SURVEYOR:	CONTACT: COLLEGEN GARCIA PHONE: _(505) 823-1000 CONTACT: MIKE ADAMS PHONE: CONTACT: PHONE: CONTACT: PHONE: CONTACT: PHONE: CONTACT: PHONE:
DRAINAGE REPORT DRAINAGE PLAN FINAL GRADING & DRAINAGE PLAN GRADING PLAN EROSION CONTROL PLAN ENGINEER'S CERTIFICATION OTHER	S. DEV. PLAN FOR SUB&D. APPROVAL S. DEV. PLAN FOR BLDG. PERMIT APPROVAL SECTOR PLAN APPROVAL
DATE SUBMITTED: 4-6-00 BY: College Carolo Revised 02/98	DECEUVED APR 0 6 2000 HYDROLOGY SECTION

April 17, 2000

James Topmiller, P.E. Bohannan-Huston Inc. 7500 Jefferson NE Albuquerque, New Mexico 87109

RE: Grading and Drainage Plan for Traditions at Tanoan (E22/D20) Submitted for Preliminary and Final Plat Approval and Grading Permit Release, Engineer's Stamp Dated 4/3/00.

Dear Mr. Topmiller:

Based on the information provided, the above referenced plan is approved for Preliminary Plat action by the DRB. The above referenced plan is also approved for Rough Grading permit release provided that it is first approved by the DRB.

On the Infrastructure List, please add the note stating that the storm drain includes manholes, the outfall structure and appurtenances. Also note that the Letter of Map Revision (LOMR) must be obtained from FEMA prior to release of the financial guarantees. Since mass grading is not proposed, and since the grading for each lot will be certified after it is developed, the grading and drainage certification requirement on the Infrastructure List for the release of financial guarantees may not be required.

Prior to Final Plat sign-off, please provide a note on the Plat stating that AMAFCA will maintain the proposed 48" storm drain pipe within their easement.

If you have any questions, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E. City/County Floodplain Administrator

c: Lisa Ann Manwill, P.E., Albuquerque Metropolitan Arroyo Flood Control Authority File



Chairman Chuck Gara
Environmental Planning Commission
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

30HAMMAN-HUSTON INC.

Re:

Appeal of Traditions at Tanoan Subdivision

DRB Case No. 97-4-437, Appeal No. 00136-00000-00639, Project No. 1000519

Courtyard One

Dear Chairman Gara:

7500 JEFFERSON NE

Albuquerque

NM 87109-4335

voice 505.823.1000

fax 505.821.0892

We are in receipt of the application and attachment to the Notice of Appeal from Mr. Michael Allison, representing Mark and Maura Dahrling. After reviewing the reasons for appeal, we feel it important to respond to the points presented in that attachment, many of which have little or no substance, nor correct understanding. I respond below in the order the points were presented in that attachment, as submitted with the appeal application.

1.a. Existing Flood Control Interference. Mr. Allison states that the residence will be "located literally beneath an operative dam." While it is true that this site lies downstream to an operative dam, it is also true that thousands of similar residences are located below dams of this nature, including much of Tanoan and the appellant's home. The dam is an AMAFCA-operated facility, under the ultimate review of the State Engineer's Office, and has been designed according to all current required standards. AMAFCA has reviewed and approved the Drainage Report and associated hydraulic calculations that were prepared by Bohannan Huston, Inc. with this subdivision action. We, the City Engineer, and AMAFCA believe that the Traditions subdivision is adequately protected.

Additionally, it is stated that the applicants will "force substantial amounts of storm water beneath existing development." In actuality, storm water will be diverted away from the development and underneath an existing golf course, thereby providing maximum protection to the proposed subdivision. In fact, these new drainage improvements will also afford greater protection to the appellant's home.

A "50-year event" is also referenced. This reference is misrepresented, since all dams are designed for 100-year storm events and greater, providing even further protection to the subdivision above that suggested by Mr. Allison.

Mr. Allison also states that proposed homes would be "vulnerable to errant golf balls." While this is true, it can also be said for most of the homes lying adjacent to the Tanoan Golf Course. We have worked extremely closely with the Golf Course management on this project and have their approval of the proposed subdivision plans.

Finally, under paragraph 1.a., it is stated that a dangerous precedent is being established with the development of land within "drainage facilities and flood paths." We respond that land development occurs on a regular basis within the arroyos and flood paths of the Albuquerque area. Providing that acceptable engineering measures are employed to address all relevant drainage issues, this practice produces no dangerous precedence.

Chairman Chuck Gara May 31, 2000 Page 2

- 1.b. Open Space Displacement. The Traditions site has never been public nor private open space. It has been privately-owned land. Accordingly, there has been no displacement of any officially designated open space. For information, the required open space for the overall Tanoan master planned community (in which Traditions is located) is overwhelmingly supplied by the Golf Course.
- 1.c. Vehicular Traffic Increase. Mr. Allison states that the subdivision will "markedly increase traffic and noise along Lowell Boulevard." Most of the Lowell Boulevard reach, north of Academy Road, serves many existing residences. We do not believe that four additional residences will create a marked increase in traffic and noise. Using typical City guidelines for peak-hour traffic, these residences will put only four more cars on Lowell during peak hour or, essentially, one car every 15 minutes (in rough terms).
- 1.d. <u>Cul-de-Sac.</u> The appellant states that a "dangerously long cul-de-sac" would be created. In response, the cul-de-sac presented under the subdivision plan provides for standard City pavement widths in a semi-circuiar cul-de-sac at the middle and end of the access roadway. There will be adequate emergency access available to the subdivision. The Development Review Board has reviewed and approved the cul-de-sac and roadway as proposed.
- 1.e. <u>View Impairment.</u> It is stated that the Traditions at Tanoan Subdivision proposal damages views of the adjacent Lalique lots. In response, we are unsure of what views are being impaired, since the proposed subdivision is nestled below the dam embankment and, for the most part, is quite unable to impair views of horizon, skyline or mountains. However, and perhaps most importantly, we cannot be held responsible for representations made by other developers who did not own the property of this proposed subdivision.
- 2. Arbitrary Action by DRB. The appellant finally states that the DRB "abused its discretion" by refusing to grant a deferral to allow professional review of the planned drainage. When this request was offered at the DRB hearing, we responded with the fact that professional engineers at both AMAFCA and City of Albuquerque have reviewed and approved the drainage plan, which drainage plan was also originally prepared by a professional engineering firm. Immediately following the DRB approval action, the appellant was provided a copy of the Drainage Report and offered assistance in reading and understanding its contents. In the just-under two weeks prior to the appellant's submitting his appeal, no communication was received from the appellant regarding the report.

In summary, after careful review of the appellant's reasons for appeal, we strongly believe there is little substance and understanding in their comments. We believe that the City of Albuquerque's Development Review Board acted in a responsible and professional manner in approving the Traditions at Tanoan Subdivision request and accordingly, we request your denial of this appeal.

Sincerely,

Bohannan Huston, Inc.

James R. Topmiller, P.E.

Vice President, Community Development

and Planning Group

JRT/kc

CC:

Ron Brown, Brown & Associates Mike Adams, Brown & Associates Janet Stephens, COA DRB Chair DEDICATION DEED (LOWELL STREET)

AND

CRANTS OF EASEMENT

AMERIHEST CORPORATION, A New Mexico Corporation

("AMERIHEST" which term includes its successors and acsigna) for
good and sufficient consideration grants to the CITY OF

ALBUQUERQUE ("CITY") whom address is P.O. Box 1293, Albuquerque,
New Mexico 87103, that certain real property situate in

Bernalillo County, New Mexico, more particularly described in

Exhibit "A" attached hereto and incorporated herein by reference,

("PROPERTY").

"TEMPORARY EASEMENT") for full and exclusive possessio and control of the PROPERTY subject to any public utility: 'rposes needed by the CITY. This TEMPORARY EASEMENT shall continue in force until such time as the CITY makes a formal deter ination (the "DETERMINATION") that it is necessary for the public health and safety to construct and open a public street over the PROPERTY. The DETERMINATION shall be made after a public hearing at which the public has had any opportunity to be heard. Notice of the public hearing shall be given in the manner then prescribed by the CITY's subdivision ordinance for a public hearin, additionally the CITY shall give notice to PRICE and AMERIA ST. The DETERMINATION shall not be deemed made until a line of the last of the public health of the deemed made until a line of the last of the deemed made until a line of the last of the deemed made until a line of the last of the deemed made until a line of the last of



been entered by the CITY'S governing body, if appealed to that body by a party of interest in accordance with the CITY'S then existing procedures. The TEMPORARY EASEMENT shall terminate upon the DETERMINATION being final. Any expenses associated with relocation or removal of guard stations or other appurtenances associated with a private street shall be borne by AMERIWEST.

43、47%

THIS CONVEYANCE IS FURTHER SUBJECT TO: reservations, restrictions, and magnets of record, including a drainage essement in favor of AMAFCA which is in existence and shall survive this conveyance and an essement which has been granted to AMERIWEST for passage of pedestrians across the PROPERTY and advalors taxes for 1984 and thereafter.

AMERIWEST agrees that it shall indemnify the CITY and hold the CITY harmless from claims or damages resulting i: in the use of the TEMPORARY EASEMENT, except when such claim or damage results from the negligence of the CITY. The CITY agrees that it shall indemnify and hold AMERIWEST harmless from claims or damages resulting from the use of the TEMPORARY EASEMENT which result from the CITY's negligence.

All provisions of this instrument, including the benefits and burdens, run with the land and are binding upon and inure to the heirs, assigns, successors and personal representatives of the parties hereto.

Noticen required to be given by this conveyance are to be given at the following addresses unless written notice of change of address has been lodged with the other parties:

Ameriwest Corporation 6400 Uptown Boulevard, N.E. Suite 300-East Albuquerque, New Mexico 67110

David and Dallas Price c/o American Golf and Tennis Corp. 641 Sepulvada Boulevard (Los Angeles, California 90049

WITH SPECIAL WARRANTY COVENANTS.

Executed the 31st day of December 1984.

ACCEPTED:

CITY OF ALBUQUERQUE.

THENICIPAL COPPONATION

APPLOYED.

ASSIFTANT CITY ITTORNEY
TRAFFIC ENGINEER
ATTEST

CIEN CION

AMERIWEST CORPORATION, a New Mexico corporation

As To Fogn

City Attorney

Datei

3

COUNTY OF BERNALILLO

The foregoing instrument was duly acknowledged before me this 21st day of December, 1984, by Allan L. Whiteen!

Of AMERIWEST CORPORATION, New Mexico corporation on behalf of said corporation.

Motor Public tilner

Often A.

ints:1/3/10

STATE OF NEW MEXICO

COUNTY OF BERHALILLO

The foregoing instrument was acknowledged before me this day of December, 1984, by Frank A. Kleinhenz, Chief Administrative Officer of the City of Albuquerque, a municipal corporation on behalf of said corporation.

HUNNEY

Notary Public

My Commission Expires:

12/18/84

4



i certain tract of land situate within projected Section 27, 7118, 981, N.M.P.M., within the Elena Salivers Grant, City of Library Services, Services of Control of Stracts of Services of

249

Stated at the northeset corner of the treet herein described, soid corner reign a point point of the continerty boundary of said front 70° and size being a point on the continerty right-across of Seat interior brice whose in a projected faction 21, 33, 36, and 77 so shown on ride plat of ILDAR FROIETIESE boers significant, 7006,00 feet and from said plat of point of beginning running themes along the asstoric boundary of the treet feerin caserines.

Story: 1914, 1914, 1914 to a point of aurestore; themes, 256,47 feet along the are of a serie to the left having a radius of 166,00 feet and 5 short bearing 112-41-17-E, 196,23 feet to a soint of Languagy themes. f55.47 fest along the are of a serve to the left having a radius of 16.08 fest and if shord bearing 132*hi*17*E, 756.23 fest to a soint of tangency; themes, 6.5* 4.13*E, 731.38 fest is a point of serveture; themes, 6.3* 4.13*E, 731.38 fest is a point of serveture; themes, 6.3* 4.13*E, 731.38 fest is a point of serveture; themes, 132.30 fest along the are of a serve to the right having a radius of ability fest and a shord bearing 103*132*33*W, 310.77 fest to a point of tangency; themes, 131.39 fest long the are of a serve to the right having a radius of hills fest and a shord bearing 131*36*W, 514.78 fest to a point of tangency; themes, 131.18 fest and a shord bearing 310*16*56*W, 514.78 fest to a point of process survature; themes, 141.18 fest along the sp. of a surve to the left having a radius of 136.00 fest and a spond bearing 318*36*27*W, 514.78 fest to a point of fest of an area of bearing 318*36*27*W, 199.58 fest to the sectional congress of the trust herein dearined, and concern being a point on the acretarity right-of-may of landary peak, whence the contrast sensor of said freet there are 189731535*C, 197.11 feet; theme canting along and southerly beundary one said mortherly right-of-may. right-er-easy, 18,08 feet to the southwest server of the tract herein described; heree learing the southerly boundary or sold Tract described; here learing the southerly boundary or sold Tract described; and the protherly right-ef-easy of Academy Read and continuing clean the westerly boundary of the right herein described; and the protherly right-ef-easy of the tract herein described; as fact and a cancer bearing elevely 1972, as5.25 feet to a point of poores expressive; theree, 372,96 feet clean the are of a current to the left having a radius of 34.00 feet and a cherd bearing elevaly-ef-e, sas.60 feet to a point of surveiture; theree, 1972,51 feet clean the ape of a serve to the left having a radius point of selection and a cherd bearing elevaly-eff resting a radius point of clean and a cherd bearing elevaly-eff. 181.56 feet to a point of reverse currentures theree, 172.11 feet clean the are of reverse to the left having a radius of 34.00 feet and a cherd bearing 100.12*51*E, 181.56 feet to a paint of tangeness thence, 237.46*11*Y, 237.58 feet to a point of currently 1972, 237.58 feet to a point of entered the rest of a device to the right having a radius of 518.00 feet and a rherd bearing 112*11*[198, 287.01 feet to a point of tangeness thence, 200*17*40*C, 154.66 feet to the northerly boundary of raid Tract herdin described, a point on the cautherly fight-of-way of sid Tract herdin described, a point on the cautherly fight-of-way of a sid Tract herder bearing right-of-vay, 359.36*20*E, 58.00 feet to the point and place of acginning. region regions as a second both section of the least persia section of the least persi

Treat contains 4.2529 agree, ware or lease

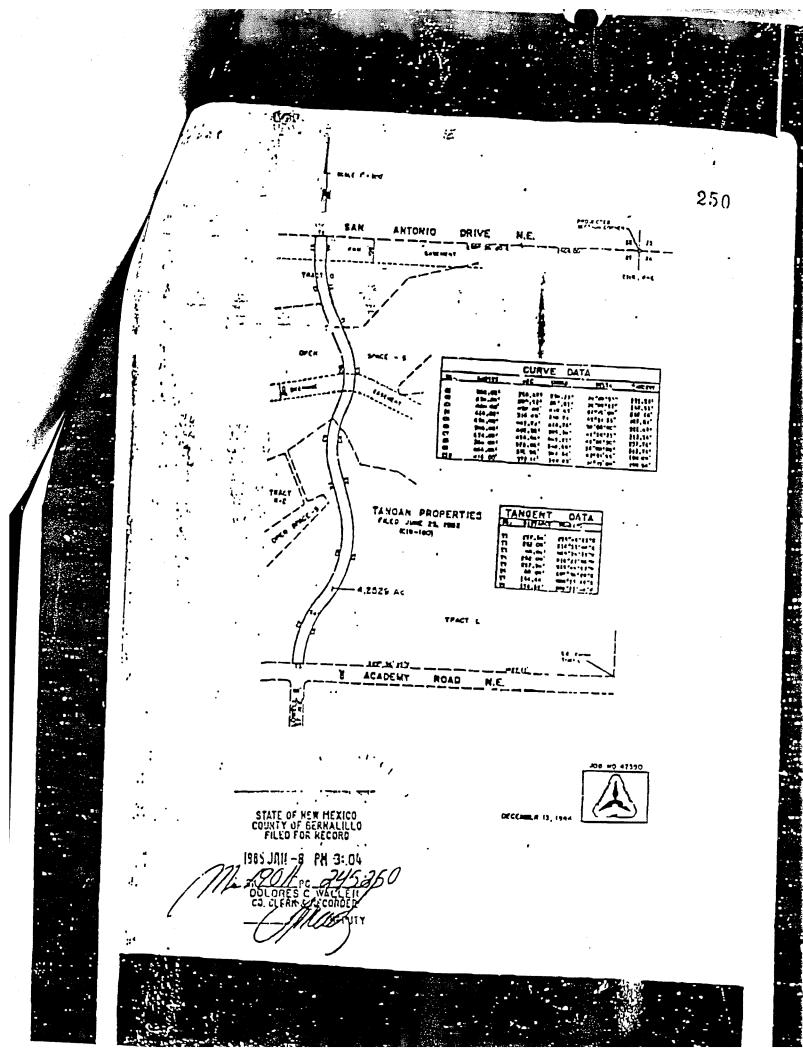
Behannan-Kusten Ine. 8125 Carlinia Blva. Albequerque, MA 47107

Derester 13, 1980 Jeb Eq. 42390

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EXHIBIT A



COMMENTS TO THE DEVELOPMENT REVIEW BOARD
RE: THE PROPOSED TRADITIONS SUBDIVISION AT TANOAN
ATT'N: KIM DICOME, RICHARD DOURTE, ROGER GREEN, DEBBIE STOVER,
FRED AGUIRRE AND LISA MANWILL
AUGUST 25. 1998

As to changing the drainage to dump storm water into the existing golf course pond:

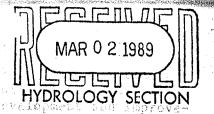
It is common knowledge that Tanoan has historically had very serious dewatering problems. The homes adjacent to the pond experienced severe problems which were the subject of numerous law suits. After great expenditure of time and effort, these problems have for the most part been handled to the satisfaction of all involved. Dumping storm water into the pond will create new problems or renew old ones. Therefore, the homeowners adjacent to the pond strongly oppose any drainage plan that would dump water into the pond.

Additionally, we have seen no easements which would allow the dumping of storm water across the golf course. They may exist, but the developers were unable to provide them as of a few weeks ago.

As to Lowell Street, we are concerned that the City is not being given the full picture by the developers on this project, whose actions and words do not match up. On the one hand, they are claiming that Lowell is going to be paved by the City and that therefore they should not have to worry about building Lowell to standard City widths, or put in sidewalks, since, they say, it will be torn up anyway when the City puts Lowell through. On the other hand, they tell us that the administrative procedures are already being implemented which would remove Lowell from the City's master street plan, and that thereafter procedures will be implemented to vacate Lowell right of way North of the proposed Tradition Lane. It is our position that this preliminary plat should not be approved unless and until we know whether the Lowell right of way is being vacated. Otherwise, you will be approving a plat based on conditions which even now are in the process of being changed by the City government.

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Malin	6516 LOWELL NE
Dan of Gradin Lu	ch 6524. Sometime.
Bid: Carol Handle	11801 Becaut IN NE
Barbara & Frank mares	11805 Baccarect Fre No
Fate Hegh	6520 Lovell N. E 87111
	11735 SKY VALLEY WAY N.E. BILL
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GRANT OF EASEMENT (Multiple Uses)



THIS GRANT OF EASEMENT made this 25 day of June, 1982, by and between TANOAN ENTERPRISES, INC., a New Mexico corporation (hereinafter called the "Grantor"), and TANOAN LAND COMPANY, INC., a New Mexico corporation, and AFFILIATED MORTGAGE AND DEVELOPMENT COMPANY, a New Mexico corporation (hereinafter collectively called the "Grantee"),

or within the essement will be done in such manner

WITNESSETH: Seed no unrestolable interference with the play of That for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor has this day bargained and sold and by these presents does sell, convey, and deliver unto Grantee, its assigns and successors in interest, a permanent easement over and across the property described in Exhibit "A" ("Easement Property") attached hereto and incorporated herein, for the purposes specified hereinbelow, all in accordance with the terms and conditions hereof.

This easement shall be appurtenant to, benefit, burden, and run with the properties of Grantee situate in Albuquerque, Bernalillo County, New Mexico, and situate north of Academy Road, N.E., east of Ventura Street, N.E., west of Tramway Boulevard, N.E., and south of the southern boundary of North Albuquerque Acres.

To have and hold the said right and easement for the uses and purposes as specified herein, unto Grantee, its successors and assigns, in perpetuity, unless sooner abandoned or the uses and purposes as specified herein are no longer served hereby.

- 1. Drainage Easement: Grantee shall, from time to time and during the existence of the term of this easement, have the right to discharge surface drainage water over, upon, and onto the Easement Property, which surface waters are generated or originate on Grantee's properties, or waters which Grantee must accept onto its property from adjoining properties pursuant to approved drainage plans or by operation of law. Grantee shall use reasonable efforts to assure that the volume and manner of discharge of such waters onto the Easement Property is done in such a manner and in such volumes and at such velocities as will not cause permanent damage to the Easement Property and to improvements located within the Easement Property. However, it is recognized that all or a portion of the Easement Property is designated by the Albuquerque Metropolitan Arroyo Flood Control Authority as an area which must accept and convey surface drainage waters from a wide area, in excess of the properties owned by Grantee, and Grantee's only liability or responsibility with regard to damage of the Easement Property shall be to comply in good faith with the provisions of this paragraph. In no event shall Grantee be liable for any damages of any kind or nature covered by flood or other insurance under any policy of insurance carried by Grantor or any other party maintaining insurance on the Easement Property.
- Open Space: Grantee shall have the exclusive right, from time to time, to grant and place restrictive covenants on the Easement Property, in accordance with that Agreement with the City of Albuquerque dated the 2nd day of July, 1979, a copy of which is attached hereto as Exhibit "B" and incorporated herein by reference. Grantee shall have the exclusive right to any credits for open space acquired as a result of the filing of such covenants, and Grantor shall have no right or interest therein.

- 3. Underground Utilities: Grantee shall have the right at any time and from time to time t onstruct and locate undergrou utilities across the Easement Property as may be reasonably necessary for development and improvement of Grantee's property adjacent to or located in the vicinity of the Easement Property. Grantee shall have the right to grant or dedicate easements to public utilities or other such entities which may require easements for the servicing and maintenance of such utility lines. In the exercise of Grantee's rights hereunder, it is agreed as follows:
- a. Any construction within the easement will be done in such manner and at such times as will cause no unreasonable interference with the play of golf on the surface area or with Grantor's operations and use of the Easement Property.
- b. All cost of installation of the utilities and the restoring of the surface area to the condition in which it was found prior to the installation thereof shall be at the sole cost and expense of Grantee.
- c. Grantee shall cooperate with Grantor prior to the location, installation, and/or construction of any utilities so as not to unreasonably interfere with Grantor's operations or with its use of the Easement Property, and in all cases shall give Grantor not less than ten (10) days prior written notice of its intent to commence construction so as to allow Grantor to post proper notices or advise its members as to the project.
- d. Grantee shall hold harmless and indemnify Grantor from any cost for repairing the surface area of and improvements on the Easement Property as to any damage caused by the maintenance of the utility lines or other structures placed within the easement area.
- e. The scope of this easement for utilities shall be interpreted so as to give Grantee, or its assigns, the normal and customary rights generally granted to public utility companies or the City of Albuquerque for the installation of underground utilities within the City of Albuquerque.

Notwithstanding anything herein to the contrary, Grantor expressly retains the right to use the Easement Property for purposes of a golf course and related activities of its country club operations. As part of the consideration for this grant, the Grantee does hereby agree to release, defend, protect, indemnify, and hold Grantor harmless from any and all claims for damages, including reasonable attorney's fees, to third persons for whatever cause incidental to the exercise of Grantee's rights granted herein.

IN WITNESS WHEREOF, the parties have set their hands and seals the day and year first written above.

The foregoing instrument was doly pobenday of June, 1982, by CHARLES A. HARRING a New Mexico corporation corporation.

TANOAN ENTERPRISES, INC., By Charles a Haceling
Its de vo

TANOAN LAND COMPANY, INC., a New Mexico corporation

My commission expires:

mey 6, 1984

By Charles a Haggelin

THE JONES LAW FIRM, P. C.

320 GOLD AVE., S. W., SUITE 1415 P. O. BOX 1727

ALBUQUERQUE, NEW MEXICO 87103

TELEPHONE (505) 843-9292 FAX (505) 843-9293

August 12, 1998

Robert M. Adams and Ronald D. Brown c/o B & A Development Corp. 3411 Candelaria Rd. NE Albuquerque, NM 87107



ALLE TOPS

Re:

DONALD L. JONES

ATTORNEY AT LAW

Amended and Restated Perpetual Easement for Private Access and Utilities (the "Restated Easement") and Vacation of Prior Perpetual Private Access Easement (the "Vacation of Easement") from Lowell Street to Tract N-6-A of Tanoan Properties, in Albuquerque, New Mexico

Dear Mike and Ron:

Enclosed are the original Amended and Restated Perpetual Easement for Private Access and Utilities dated July 29, 1998 (the "Restated Easement"), and the Vacation of Perpetual Private Access Easement dated July 29, 1998, which were filed for record on August 11, 1998, as Document Numbers 1998100738 and 1998100739, respectively, in the Office of the Clerk of Bernalillo County, New Mexico.

We also are transmitting a copy of each of the enclosed documents, with a copy of this letter, to Carol Reed in the Legal Department of American Golf Corporation, and to Kevin J. Curran, Assistant City Attorney for The City of Albuquerque (the "City"), for their files on this matter.

As you requested, I am in the process of preparing a draft of the proposed Sub-Easement to the City according to the terms of Paragraph 4 of the Restated Easement and will send a draft of the Sub-Easement to Kevin Curran, Carol Reed and you for your review and approval or comments as soon as possible. Best regards.

Sincerely,

THE JONES LAW FIRM, P.C.

Donald L. Jones

DLJ:dj Enclosures

cc w/enc:

Kevin J. Curran, Esq.

Carol Reed

AMENDED AND RESTATED PERPETUAL EASEMENT FOR PRIVATE ACCESS AND UTILITIES

This Amended and Restated Perpetual Easement for Private Access and Utilities (this "Easement") is made as of July 29, 1998 by and among NATIONAL GOLF OPERATING PARTNERSHIP, L.P., a Delaware limited partnership ("Grantor"), Ronald D. Brown, Jo Ann V. Brown, Robert M. Adams and Jenny M. Adams (sometimes referred to singularly as "Grantee" and collectively as "Grantees"), and B & A DEVELOPMENT CORP., a New Mexico corporation ("B & A Development"). In consideration of the promises set forth in this Easement and other valuable consideration, the receipt and adequacy of which are acknowledged by the undersigned parties, Grantor, Grantees, and B & A Development agree:

- 1. Recitals. The parties make the following recitals with respect to this Easement:
- 1.1 Grantor is the fee owner of certain real property located in the City of Albuquerque, New Mexico, which Grantor leases to American Golf Corporation, a California corporation ("AGC"), for use as a private golf course and country club facility known as Tanoan Country Club (referred to collectively as the "Golf Course Property"). The Golf Course Property is managed and operated by AGC.
- 1.2 Grantor has granted to B & A Development a Perpetual Private Access Easement, dated as of December 19, 1994 (the "Original Easement"), upon, over, under and across a portion of the Golf Course Property which is described on an exhibit attached to the Original Easement (the "Original Easement Parcel"). The Original Easement was filed for record on June 4, 1995, in Book 95-1, at Pages 2132 2139, as Document No. 95001099, in the records of the County Clerk of Bernalillo County, New Mexico, and was for the benefit of a tract of land known as Tract N-6 of TANOAN PROPERTIES, a subdivision of land in the City of Albuquerque, New Mexico, which land is more specifically described on an exhibit attached to the Original Easement.
- 1.3 Tract N-6 of TANOAN PROPERTIES has been subdivided by a plat titled "Plat of Tracts N-6-A and N-6-B, TANOAN PROPERTIES, Albuquerque, New Mexico March 1995" which plat was filed for record on November 20, 1995, in Map Book 95C, at Folio 422, in the records of the County Clerk of Bernalillo County, New Mexico (the "Replat").
- 1.4 As of the date of this Easement, Grantees are the fee owners of Tract N-6-A of TANOAN PROPERTIES ("Tract N-6-A"), and B & A Development is the fee owner of Tract N-6-B of TANOAN PROPERTIES ("Tract N-6-B"), which tracts are shown and designated on the Replat.
- 1.5 Grantor also is the fee owner of a new easement parcel more specifically described and shown on the attached <u>Exhibit A</u> (the "Easement Parcel"), which is a part of the Golf Course Property and the subject of this Easement.



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- 1.6 The Parties now want to amend and restate the Original Easement, in its entirety, as set forth in this Easement.
 - 2. <u>Grant of Easement</u>. Grantor grants to Grantees the following easement:

A perpetual, exclusive easement upon, over, under and across that portion of Grantor's property described as the Easement Parcel on the attached Exhibit A for the following uses:

The construction, installation, maintenance, repair, modification, replacement and operation of a private street, landscaping, drainage improvements and public utilities, including, without limitation, electric power, gas, water, sewer, telephone, cable television, and related improvements; and

Pedestrian and vehicular access from Lowell Street N.E. to and from the Tract N-6-A, more specifically described on the attached Exhibit B, for the use and benefit of (i) Grantees and their respective employees, contractors, suppliers, invitees, licensees, tenants and subtenants, and (ii) public emergency vehicles, United States Postal Service delivery and other delivery services;

SUBJECT TO all reservations, restrictions and encumbrances of record as of the date this Easement is filed for record in the records of the County Clerk of Bernalillo County, New Mexico, and all terms and conditions set forth in this Easement.

- 3. <u>Construction and Maintenance of Improvements; Conditions.</u> Grantees, and the agents, employees, contractors and subcontractors of Grantees, will have the right to construct, install, maintain, repair, modify, replace and operate, at the expense of Grantees, a private street, landscaping, public utilities and related improvements (referred to collectively as the "Easement Improvements") upon, over, under and across the Easement Parcel, subject to the following conditions:
- 3.1 Grantees will comply with all applicable restrictive covenants, ordinances, regulations, rules, orders and laws with respect to any such construction, installation, maintenance, repair, modification, replacement or operation of the Easement Improvements.
- 3.2 All of the Easement Improvements constructed or installed by Grantees upon, over, under or across the Easement Parcel will be consistent with, and the least intrusive upon, the aesthetics and use of Grantor's property adjacent to the Easement Parcel, to the extent permitted by law and the land use policies the City of Albuquerque, New Mexico (the "City of Albuquerque").

- 3.3 Grantees will coordinate with the appropriate officers or employees of AGC to locate any irrigation lines, pipes and underground equipment that may be affected by any work of Grantees, or of any agents, employees, contractors or subcontractors of Grantees, within the Easement Parcel. Grantees will be responsible for keeping all of Grantor's lines, pipes and underground equipment throughout the construction or installation of any of the Easement Improvements in or on the Easement Parcel, and Grantees will restore the same to their prior operating condition after such construction or installation has been completed.
- 3.4 Grantees will maintain, or cause to be maintained, at the expense of Grantees, the Easement Improvements in good order, condition and repair.
- 3.5 Grantees will take all reasonable measures and exercise Grantees' best efforts to prevent damage to the Golf Course Property and, at Grantees' sole expense, will promptly restore all turf, trees and other landscaping improvements and irrigation facilities within the Golf Course Property damaged by Grantees, or any agents, employees, contractors or subcontractors of Grantees, in connection with any work on or use of the Easement Parcel under the terms of this Easement, to the same or better condition as such improvements and facilities existed immediately prior to the activity resulting in the disturbance of the affected Golf Course Property. Specifically, Grantees' personnel will be responsible for all grading work necessary to re-establish the contouring of the Golf Course Property as a result of any activities on the Easement Parcel, including, but not limited to, the re-establishment of any mounds, tees and flow lines on the Golf Course Property that may be damage as a result of any such activities.
- 4. Grantees' Right to Grant or Dedicate Sub-easements to The City of Albuquerque or a Utility Company for Utilities. Grantees will have the right to grant or dedicate a sub-easement or sub-easements upon, over, under and across the Easement Parcel to the City of Albuquerque and/or to any public or private utility company for the construction, installation, maintenance, repair, modification, replacement and/or operation of utility facilities including, without limitation, electric power, gas, water, sewer, telephone, cable television, and related improvements, subject to Grantor's consent to the terms and conditions of the proposed grant or dedication of any such sub-easement, which consent will not be unreasonably withheld or delayed. Grantor will be deemed to have consented to any such proposed sub-easement unless Grantor provides written notice to Grantees of any objections of Grantor within 15 days after Grantor receives a copy of the proposed sub-easement from Grantees. If required to do so by Grantees, the City of Albuquerque, or any public or private utility company, Grantor will evidence Grantor's consent to the grant or dedication of any such sub-easement by having the proposed sub-easement signed by an authorized officer, agent or employee of Grantor; provided Grantor consents to the proposed sub-easement and is not be required to agree to any financial or indemnity obligations with respect to any such grant or dedication.

Judy D. Hoodward Repp. Co. FRSE R 27 NN

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- 5. <u>Grantor's Right of Access</u>. Grantor, its licensees, members, successors and assigns will retain an irrevocable right of access to and over the Easement Parcel granted in this Easement for the purposes of using and maintaining Grantor's property adjacent to the Easement Parcel for the best and highest use of Grantor's property.
- Grantees' Assumption of Risks and Indemnity Obligations. Grantees covenant and 6. agree that Grantor and AGC will be free from liability and claims of damages by reason of any injury to any person or persons whomsoever (including Grantees and any of their respective agents. officers, employees, contractors or invitees) or to any property of any kind whatsoever which results from or is in any way connected with any construction or installation on, or any use of, the Easement Parcel by Grantees or by any of Grantees' respective agents, officers, employees, contractors or invitees, or the exercise of any rights of Grantees pursuant to this Easement, and Grantees assume all risks related to any such activities. Grantees and Grantees' successors and assigns covenant and agree to defend, indemnify and hold harmless Grantor and AGC, on demand, from any and all liability, loss, costs, damages, obligations, or reasonable, actual attorneys' fees that may be sustained or incurred by Grantor, with respect to Grantees' exercise of their rights under this Easement or any activities of Grantees or of any of their respective agents, officers, employees, contractors or invitees on the Easement Parcel, including without limitation, liability relating to personal injury and property damage incurred by Grantees, or by any officers, employees, agents, contractors or invitees of Grantees, resulting from such activities or from the flight of golf balls or other activities conducted on the Golf Course Property (subject to the limitations of such indemnity obligations as set forth in Section 8 of this Easement).
- 7. Restrictive Covenant and Equitable Servitude Which Run with the Land. Grantees' agreement to defend, indemnify and hold harmless Grantor, any successor in interest of Grantor, or any other person or entity, as set forth in this Easement, and Grantees' agreement to maintain the Easement Parcel in good repair as fully set forth in Sections 3.1 through 3.5 of this Easement, will now and forever constitute a restrictive covenant which will run with the land as to the Easement Parcel and as to Tract N-6-A, as well as an equitable servitude which will hereby attach to, run with, and burden the land now known as Tract N-6-A, with all benefits thereof flowing to Grantor, Grantees and their respective successors and assigns.
- 8. <u>Limitation on Indemnity Obligations</u>. Despite any provision in this Easement to the contrary, the obligation of Grantees, and any successor in interest of any of the Grantees, to defend, indemnify, and hold harmless Grantor, any successor in interest of Grantor, or any other person or entity as set forth in this Easement, is subject to the following limitations:
- 8.1 Any such indemnity obligation is limited by and specifically subject to the provisions of Section 56-7-1, New Mexico Statutes Annotated (1978), as amended, if and to the extent that such statute is applicable to any indemnity provision of this Easement.



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- 8.2 Each of the Grantees and any successor in interest of any of the Grantees will only be obligated to indemnify, hold harmless and defend Grantor, any successor in interest of Grantor, or any other person or entity as set forth in this Easement, as to any claims, liens, actions, proceedings, lawsuits, liabilities, losses, costs, damages and/or judgments which may be asserted, filed or entered with respect to any acts or omissions which occur during the time that such Grantee, or the successor in interest of such Grantee, as the case may be, owns all or any part of Tract N-6-A.
- 8.3 Neither the City of Albuquerque, nor any public or private utility company, will be obligated to defend, indemnify, or hold harmless Grantor, any successor in interest of Grantor, or any other person or entity as set forth in this Easement with respect to any sub-easement that may be granted or dedicated by Grantees upon, over, under and across the Easement Parcel for utility facilities, unless the City of Albuquerque, or the public or private utility company, as the case may be, expressly assumes or agrees, in writing, to any such indemnity obligations.
- 9. <u>Filing and Notice of Easement</u>. Grantees will file and record, at the expense of Grantees, this Easement in the office of the County Clerk of Bernalillo County, New Mexico, within 30 days after the fully-signed original of this Easement has been delivered to Grantees, so as to put all the world on notice of this Easement and of the restrictive covenants and equitable servitude set forth in this Easement.
- 10. <u>Implementation</u>. Grantor and Grantees, without need of further consideration, will take whatever steps are reasonable and necessary to implement their mutual intent and the terms of this Easement.
- 11. <u>Authority of Signatories</u>. By signing this Easement, the signatories represent and warrant that (i) they have the authority to bind all persons, entities and associations they claim to represent to the terms and conditions of this Easement, and (ii) they have the approval and authority of any and all property owners, homeowners' associations, or boards necessary to effect the terms of this Easement now and forever.
 - 12. <u>Miscellaneous</u>. The following general provisions will apply to this Easement:
- 12.1 <u>Notices and Addresses</u>. All notices, demands, requests or replies (referred to collectively in this section as "notice") required or permitted with respect to this Easement will be in writing and may be delivered by any of the following methods: (i) by personal delivery with receipt acknowledged in writing; (ii) by deposit with the United States Postal Service as certified or registered mail, return receipt requested, and all required postage prepaid; or (iii) by deposit with an overnight express delivery service with receipt acknowledged in writing and all required charges prepaid. Notice by personal delivery will be effective on the date delivered. Notice by deposit with the United States Postal Service will be effective as of the date the return receipt is signed. Notice by overnight express delivery service will be effective as of the date that receipt is acknowledged in writing. Notices given with respect to this Easement will be addressed to Grantor, Grantees, or



B & A Development at the addresses set forth below unless any of such parties specifies another address by written notice to the other parties to this Easement:

Notices to Grantor:

National Golf Operating Partnership, L.P. c/o National Golf Properties
Office of the General Counsel
2951 - 28th Street
Santa Monica, California 90405

With a copy to:

American Golf Corporation Attn: Legal Department 2951 - 28th Street Santa Monica, California 90405

Notices to Grantees:

Ronald D. Brown and Robert M. Adams B & A Development Corp. 3411 Candelaria Rd. N.E. Albuquerque, New Mexico 87107

Or to the same Addressees at:

P. O. Box 3617 Albuquerque, New Mexico 87197

- 12.2 <u>Governing Law; Interpretation</u>. This Easement will be governed by and construed in accordance with the laws of the state of New Mexico.
- 12.3 <u>Jurisdiction</u>. In any suit, action or proceeding arising out of or relating to this Easement, any party now or hereafter bound by or subject to this Easement irrevocably submits to the jurisdiction of either the District Court of Bernalillo County, New Mexico, or the United District Court for the District of New Mexico, depending on where any such action is filed, and waives any and all objections to jurisdiction that such party may have under the laws of either the state of New Mexico or the United States of America.
- 12.4 <u>Waiver</u>. The failure of any party to exercise any right given under this Easement or to insist on strict compliance with any term, condition or agreement set forth in this Easement, will not constitute a waiver of such party's right in the future to exercise such right or to demand strict compliance with any such term, condition or agreement under this Easement.



- bound by or subject to this Easement files an action against any other party bound by or subject to this Easement (i) to enforce any of the provisions of this Easement, (ii) to protest any other party's interest under this Easement, or (iii) to recover damages for any breach of this Easement, and a final order or judgment is ultimately entered in the action (the finality of which is not legally contested), then the party that does not prevail in the action will reimburse the prevailing party for all expenses and costs, including, without limitation, all discovery and court costs and the reasonable, actual attorney fees, incurred by the prevailing party with respect to the action. If the action is not prosecuted to a final order or judgment, then the party bringing the action will reimburse the party or parties against whom the action was brought (referred to collectively as the "Defending Party") for all expenses and costs, including, without limitation, all discovery and court costs and the reasonable, actual attorney fees, incurred by the Defending Party, unless the parties otherwise agree, in writing.
- 12.6 <u>Counterparts</u>. This Easement may be executed in any number of counterparts, each of which when so executed will be deemed to be an original and all of which when taken together will constitute one and the same Easement.
- 12.7 <u>Severability</u>. Each and every provision of this Easement is severable, and if any provision, or the application of any provision to any person or circumstance, is held to be invalid, illegal or unenforceable, then the validity of the remainder of this Easement, or the application of such provision to persons or circumstances other than to those which are held to be invalid, illegal or unenforceable, will not be affected by any such holding.
- 12.8 Easement and Covenants Run With Land; Constructive Notice. This Easement and all covenants set forth in this Easement will run with the land and will be binding on and inure to the benefit of Grantor, Grantees, and their respective successors and assigns. When this Easement has been filed for record in the records of the County Clerk of Bernalillo County, New Mexico, every person or entity which has or hereafter acquires any right, title, estate or interest in or to all or any portion of either the Easement Parcel or the Tract N-6-A will be conclusively deemed to have consented and agreed to all of the terms, conditions and agreements set forth in this Easement, regardless of whether any reference to this Easement is set forth in the instrument by which such person or entity acquires its interest in any such real property.
- 12.9 <u>Modification; Termination</u>. This Easement may not be modified, amended or terminated except by an instrument, in writing, signed by or on behalf of all parties who have an ownership interest of record in all or any part of the Easement Parcel or Tract N-6-A.
- 12.10 Entire Agreement. This Easement, including the attached Exhibit A and Exhibit B which are made a part of this Easement by reference, comprises the entire understanding and agreement among Grantor, Grantees and B & A Development with respect to the subject matter of this Easement, and this Easement supersedes and replaces all prior or contemporaneous

agreements, understandings, representations and statements, whether oral or written, among Grantor, Grantees and B & A Development with respect to the subject matter of this Easement, including the Original Easement.

Original Easement.
Dated as of the date set forth in the first sentence of this Easement.
GRANTOR: NATIONAL GOLF OPERATING PARTNERSHIP, L.P., A Delaware Limited Partnership GRANTEES: RONALD D. BROWN
By: National Golf Properties, Inc., A Maryland Corporation, Its General Partner JO ANN V. BROWN
By: Scott S. Thompson, Vice President and General Counsel ROBERT M. ADAMS ROBERT M. ADAMS JENNY M. ADAMS
B & A DEVELOPMENT CORP., A New Mexico Corporation
By: Robert M. Adams, Its Vice President
STATE OF CALIFORNIA)) ss.
COUNTY OF LOS ANGELES)
On Augustio, 1998, before me, Silvia P. Adams, personally appeared SCOTT S. THOMPSON, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument, the person or entity on behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY PUBLIC

My commission expires:

<u>November 20, 2000</u>
(Seal or Stamp)





STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)
This instrument was acknowledged before me on July 1, 1998 by Ronald D. Brown and Jo Ann V. Brown, husband and wife. My commission expires (Seal or Stamp) OFFICIAL SEAL LINDA DE BLOIS Notory Public State of New Mexico My Commission Expires (22 200)
STATE OF NEW MEXICO
) ss. COUNTY OF BERNALILLO)
This instrument was acknowledged before me on July <u>29</u> , 1998 by Robert M. Adams and Jenny M. Adams, husband and wife.
OFFICIAL SEAL LINDA DE BLOIS Notary Public Sivate of New Mexico
My commission expresion Expires 6-22-2001
(Seal or Stamp)
STATE OF NEW MEXICO) ss.
COUNTY OF BERNALILLO)
This instrument was acknowledged before me on Jul <u>99</u> , 1998 by Robert M. Adams, as Vice President of B & A Development Corp., a New Mexico corporation, of behalf of the corporation.

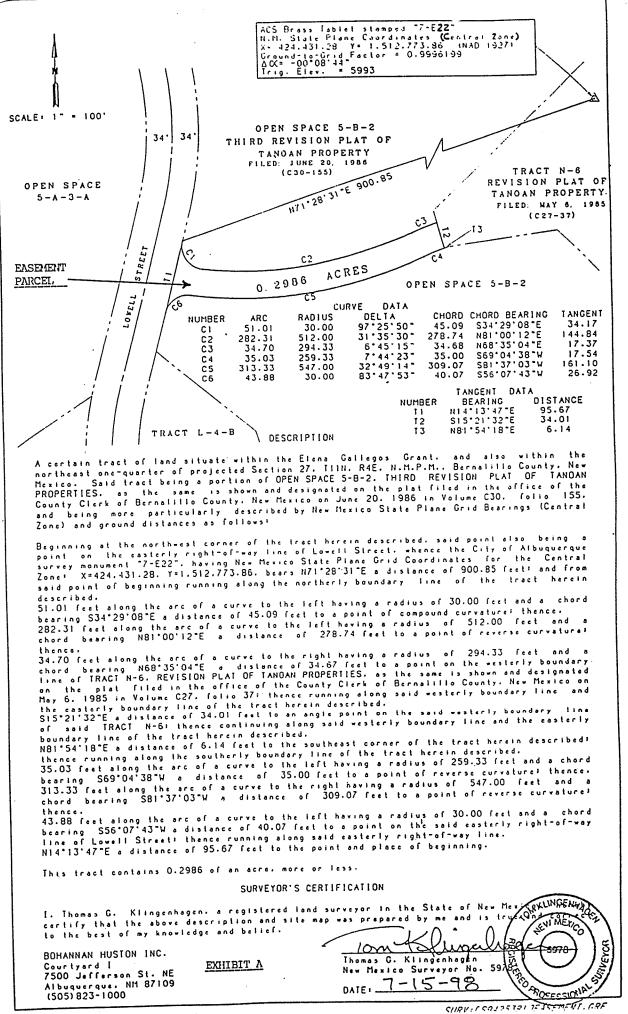
Kind De Blois NOTARY PUBLIC

My commission expires:

(Seal or Stamp)



1998100738 5098499 Page: 9 of 11 08/11/1998 01:09P R 27.00 Bk-9813 Pa-8994



Albuquerque, NM 87109

(505) 823-1000

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CHRV: 1 COJOSTO I TETCEMENT. C.RF

7-15-98

DATE: -

TRACT N-6-A

Tract N-6-A of TANOAN PROPERTIES, Albuquerque, New Mexico, as the same is shown and designated on the plat of said addition filed in the office of the County Clerk of Bernalillo County, New Mexico, on November 20, 1995, in Map Book 95C, Folio 422.

EXHIBIT B



VACATION OF PERPETUAL PRIVATE ACCESS EASEMENT

NATIONAL GOLF OPERATING PARTNERSHIP, L.P., a Delaware limited partnership ("Grantor"), B & A DEVELOPMENT CORP., a New Mexico corporation ("Grantee"), and Ronald D. Brown, Jo Ann V. Brown, Robert M. Adams and Jenny M. Adams, successors-in-interest of Grantee, hereby terminate and vacate that certain Perpetual Private Access Easement dated as of December 19, 1994, between Grantor and Grantee, which was filed for record on January 4, 1995, in Book 95-1, at Page 2132, as Document No. 95001099, in the records of the County Clerk of Bernalillo County, New Mexico.

DATED AS OF: July 29, 1998.

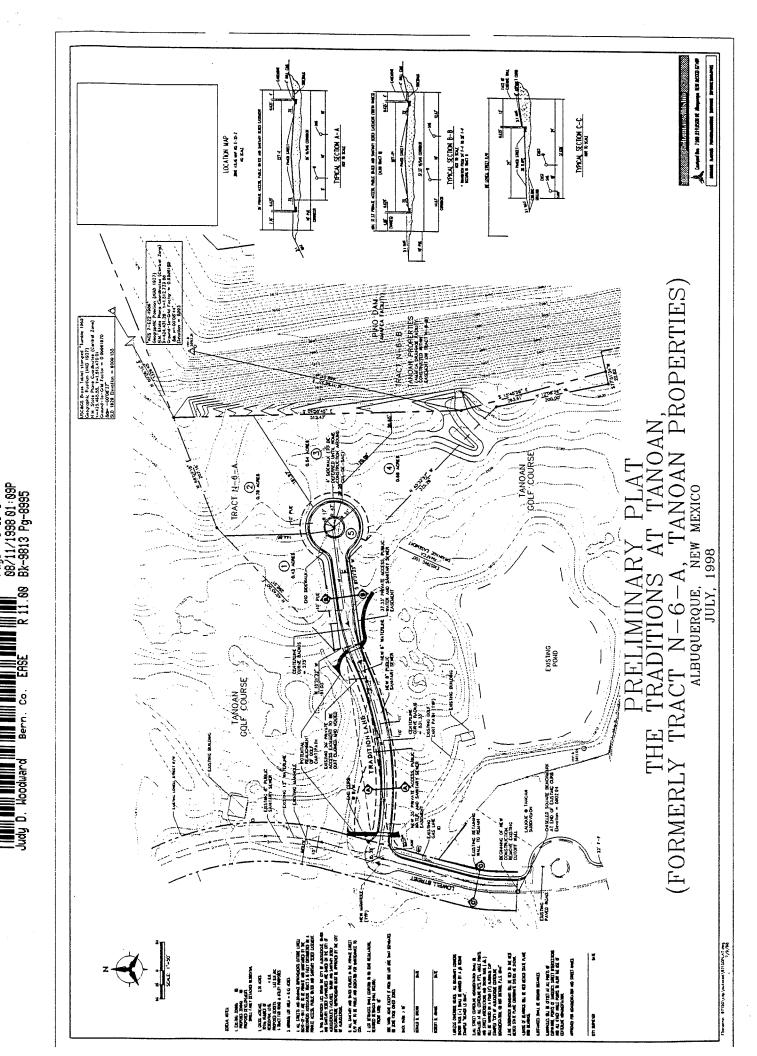
<u></u>	
NATIONAL GOLF OPERATING PARTNERSHIP, L.P., A Delaware Limited Partnership	B & A DEVELOPMENT CORP., A New Mexico Corporation
By: National Golf Properties, Inc., A Maryland Corporation, Its General Partner By: Scott S. Thompson, Its Vice President and General Counsel	Robert M. Adams, Its Vice President RONALD D. BROWN JO ANN V. BROWN
	ROBERT M. ADAMS
STATE OF CALIFORNIA)	JENNY M. ADAMS
COUNTY OF LOS ANGELES)	
SCOTT S. THOMPSON, personally known to	me (or proved to me on the basis of satisfactory cribed to the within instrument and acknowledged ed capacity, and that by his signature on the hich the person acted, executed the instrument.
My commission expires:	1.0 1. Het I ODDIO

Sylvia P. Adams
Comm. #1117798
LOS ANGELES COUNTY
Comm. Exp. Nov. 20. 2990

Ullemker 20,2000

(Seal or Stamp)

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SITUATE WITHIN

SITUATE WITHIN

THE ELEHA CALLEGUS GRANT

AND WITHIN

ROJECTED SECTIONS 26, 27, 28, AND 29

TOWNSHIP II NORTH, RANGE 4 EAST

NEW MEXICO PRINCIPAL MERIDIAN

BERNALILLO COUNTY, NEW MEXICO

7/10/78

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Exhibit ."A'

EXHIBIT "A"

Those certain five (5) parcels of land designated as "Open Space-1" through "Open Space-5" inclusive, as the same are shown and designated on Sheets 2, as the same are shown and designated on Sheets 2, 4, and 5, of the Amended Summary Plat of TANOAN PROPERTIES, Albuquerque, New Mexico, containing Sheets 1 through 5, inclusive, filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 25, 1982, as Document No. 82-33172.

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Cliff A. Spirock

N.M.L.S. Ud972

CONNUNITY SCIENCES COMPONATION

Corrales, New Mexico



OPEN-SPACE AGREEMENT

aws and CITY OF and ဌ the between S AGREEMENT ENTERED ELWEEN AFFILIATED MOI DAN LAND COMPANY ("OF ALBUQUERQUE, a role State of New Mexico (ERED ("TANOAN") (hereinafter called "Owners") a municipal corporation formed pursuant to to thereinafter called "City"). MORTGAGE MORTGAGE & T ("AMDEC") to the bnd

County, platting WHEREAS, pue New Mexico, incorporated planning the Owners the legal description of which is allached hereto herein by reference, and which property lies wi jurisdiction of City, and herelo as within Bernalillo the

6 ning for such area under the sector development Eubank/Tramway/Academy Sector Development as the WHEREAS, "Sector Development Plan", Owners and City are development and desirous of Plan and completing the hereinafter the labeled over-all referred the 00

plan filed whereby the openion to a prehensive and to preserve open space in ensive Zoning Code of the further to establish Zoning City pace pue ace requirements and filing of plat Owners the text of City of accordance with are plats for different areas within the desirous Albuquerque, Owner ra the egal docum vith Section can entering into an an be established documents nents required to 40(h)(1) of the (agreement advance sector Com-

AND AGREEMENTS
AGREED AS FOLLO THEREFORE, IN FOLLOWS: CONSIDERATION PARTIES HEREIN CONTAINED, IT IS HEREBY

- zoned quirement may 1. That the property upon annexation to the City will be apped so as to permit residential and related uses with open-space not more than 6,000 square feet of open space per dwelling unit irement may be met by the following alternatives, the choice to the will be pace requirements appropriately S C γď SuaumO
- dwelling, each efficiency or apen space and Of the total 6,000 square feet, the following minimum amount of pace shall be on the lot with the dwelling; 200 square feet for or one-bedroom dwelling, 250 square feet for each two-bedroom 300 square feet for each dwelling containing three or more bedroom.
- open to tical hereto execuling and delivering 6 of that met ลร that met on the lot upon which the dwelling and delivering to the City an instrument the document entitled "Open Space Restrict as Exhibit "B" which is incorporated herein general public need Owners not be accessible may elect to meet the 6 e Restrictive Covenants" attached ed herein by reference. Such det residents of the related dwalling e requirement for open dwelling unit is constraint in form and su constructed attached Such detached
- 2. It is a property, the property, the property is allowed by the property of Owners and. he requirements by the present zo located within the agreed thal s for open space as s zoning ordinance] as City will not change s for open space as: the Sector Development set out herein (or the is to any and all lands 9 Plan. mand, with regard to Owners' ein for the uses thereof pwned
- space fur copy of plat. the City a calculation of the open-space requirements resi Such calculation shall specify si tential lot and the amount of pursuant to Section 40(h) of the to City at the time of the ap 343 Upon application to the in the Sector Plan, Own coventints Cily application :hc the open space which will be delighted by the sp attached hereto, ō. their respective assignees, oning Ordinance. Owner station for final plat approval describing for that particular detached open Incaled shall further shall present

which in size and location meet the present requirements of Section 40(h) of the Zoning Code.

- 4. Upon verification of the City of the mathematical correctness of the calculations and regarding the location of the attached open space, the restrictive covenants shall be filed together with the final plat and upon such filing, Owners obligation with regard to open space pursuant to Section 18(f) and Section 40(h) of the Zoning Code shall be deemed fulfilled and completed.
- 5. It is understood and agreed that development of all property of Owners within the Sector Development Plan will not be accomplished immediately and will take place over several years after the date of execution of this Agreement. However, because of the substantial expenditure of monies in the planning and development, and improvement of the open-space area, Owners have acquired a "vested interest" in the plan for open space and provisions of Sections 18(f) and 40(h) of the Zoning Code, City agrees that such conditions, terms or requirements will not be changed or modified so as to adversely affect the interest of Owners as to any property within the Sector Development Plan.

IN WITNESS WHEREOF, the day and year first written the parti en above. parties hereto have executed this Agreement

Clepk/Recorder	LESS:	 -	•		•
Chief Admixistrative Officer	CITY OF ALBUQUERQUE	By Carpell House	TANOAN LAND COMPANY	By Charles a Topsacelin	AFFILIATED MORTGAGE & DEVELOPMENT COMPANY

REVIEWED BY LEGAL DEPARTMENT:

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Land Usc: escrved and restricted and preserved for the p. following hereby declared Pur-

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- Active and passive outdoor recreation
- b Agricultural (outdoor) and pasturing unimals
- Botanical Parks open to the general public.
- C Lakes, public waterways, facilities flood handling water storage water. and other,
- 40 Land D natural maintained state. p. pts natural state Ö being returned
- H Structures and facilities incidental ф the above nses.

instrument HZ 9 WITNESS the WHEREOF, day of of parties hereto have executed

Its	Ву

STATE OF NEW MEXICO COUNTY OF BERNAUILLO FILED FOR RECORD

.82 JUN 29 P3:13

CO. CLERK & DOUBLE CADER