

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 8, 1994

Mark Goodwin, P.E. D. Mark Goodwin & Assoc. P.O.Box 90606 Albuquerque, N.M. 87199

RE: ENGINEER'S CERTIFICATION FOR QUANZ CAR CARE (C12/D5)
RECEIVED FEBRUARY 23, 1994 FOR CERTIFICATE OF OCCUPANCY APPROVAL
ENGINEER'S STAMP DATED 2-21-94

Dear Mr. Goodwin:

Based on the information included in the submittal referenced above and the As-built Work Order drawings received March 2, 1994, City Hydrology releases a Permanent Certificate of Occupancy for this project.

The Financial Guaranty will be released when the Agreement & Covenant is executed & recorded.

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

Sincerely,

John P. Curtin, P.E. Civil Engineer/Hydrology

c: INSPECTOR

Lynda-Michelle DeVanti, City Project No. 4715.90

WPHYD/7769/jpc

ahaa	D. Mark Goodwin & Associates, P.A.
$Q \mid Q$	D. Mark Goodwin & Associates, P.A. Consulting Engineers and Surveyors

PROJECT WULL) -
SUBJECT ASBULL	TS /
BY GTK	_DATEZ-21-94
CHECKED	DATE
; c	CHEFT Z OF

ON SITE POND

PLANIMETER WAS USED

70P CONTOUR

86.8

1717 × 9= 15,453 SF

BOTTOM CONTOUR

83.0

710 x 9 = 4390 SF

15453+6390=10,921,5

Vocume = 10,921.5 x 86.8-83.0 = 41,501.7 CF>39,875 CF

OF

 $V_{10\,D3V} = 19,937 + 2.004(43560)(3,67-2,20)/12$ = 36,631 cf





dm	D. Mark Goodwin & Associates, P.A. Consulting Engineers and Surveyors
UV	Consulting Engineers and Surveyors

PROJECT SUBJECT BY	JAU	2 // DATE	2-51	- -91
CHECKED	SHE	DATE.	OF	

OFF-SITE PUND PLANIMETER WAS USED

TOP CONTOUR

715 × 9 = 6435 SF

BOHOM CONTOUR

71,2

240 x 9 = 2160 SF

4435 + 2160 = 4297.5

VOLUME = 4297.5 x (74.4-71.2)

= 13,752 CF > 13,516 CF

V100 = 7,778 + 1.076(43,560) (3,67-2,20)/12

= 13,518cf







City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 4, 1993

Mark Goodwin, P.E. D. Mark Goodwin & Assoc. P.O.Box 90606 Albuquerque, N.M. 87199

> RE: GRADING & DRAINAGE PLAN FOR QUANZ CAR CARE (C12/D5) ENGINEER'S STAMP DATED 9-23-93, RECEIVED SEPTEMBER 24, 1993 FOR WORK ORDER APPROVAL.

Dear Mr. Goodwin:

Based on the information included in the submittal referenced above, City Hydrology APPROVES this project for Work Order.

The following comments must be addressed prior to Engineer's Certification approval:

- 1. Letter from Norm Gregory dated August 18, 1993 does not mention grading a swale on his property.
- 2. Any retention pond constructed with a berm must have an emergency spillway designed to convey the 100-year peak flow per the Mayor's Emergency Rule published 5-14-91. Also, Retention pond volume must be based on the 100-year/10 day storm or 2 x 100 year/6 hour storm.

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

Sincerely,

Yohn P. Curtin, P.E. Civil Engineer/Hydrology

xc: Billy Goolsby

Alan Martinez

File

WPHYD/7769/jpc

PUBLIC WORKS DEPARTMENT

DRAINAGE CALCULATIONS

I. REFERENCES:

- A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) VOL. 2 DESIGN CRITERIA, CHAPTER 22.2: DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL DESIGN CRITERIA FOR CITY OF ALBUQUERQUE, NEW MEXICO, IN COOPERATION WITH BERNALILLO COUNTY AND THE AMAFCA.
- B. FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 8 OF 50.
- C. ZONE ATLAS PAGE C-12/13-Z.

II. IMPERVIOUSNESS:

TREATMENT	TYPES OF	EXISTIN	IG	PROPOS	ED
TYPE	SURFACES	SQ.FT	ACRES	SQ.FT	ACRES
A	UNDEVELOPED	0	0.0000	0	0.0000
В	LANDSCAPE	0	0.0000	13,500	0.3099
С	VACANT LAND	155,139	3.5615	51,000	1.1708
D	IMPERVIOUS AREA	0	0.0000	90,639	2.0808
	SITE TOTAL	155,139	3.5615	155,139	3.5615

III. PEAK DISCHARGE 100 YEAR-6 HOUR RAINFALL:

TREATMENT	TYPES OF	EXISTIN	G	PROPOS	ED
TYPE	SURFACES	CFS/Ac	Qp(100)	CFS/Ac	Qp(100)
A	UNDEVELOPED	1.29	0.00	1.29	0.00
В	LANDSCAPE	2.03	0.00	2.03	0.63
C	VACANT LAND	2.87	10.22	2.87	3.36
D	IMPERVIOUS AREA	4.37	0.00	4.37	9.09
PEA	K DISCHARGE (CFS)		10.22		13.08

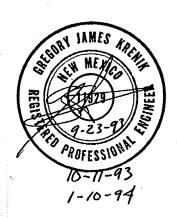
IV. VOLUME 100 YEAR-6 HOUR RAINFALL:

TREATMENT	TYPES OF	EXISTIN	NG	PROPOS	ED
TYPE	SURFACES	E (IN)	ExA	E (IN)	ExA
A	UNDEVELOPED	0.44	0.00	0.44	0.00
В	LANDSCAPE	0.67	0.00	0.67	0.21
C	VACANT LAND	0.99	3.53	0.99	1.16
D	IMPERVIOUS AREA	1.97	0.00	1.97	4.10
	WEIGHTED "E"		0.99		1.53
R. LEE, Le	VOLUME	0.294	AC-FT	0.455	AC-FT
		12,798.97	CU-FT	19,841.15	CU-FT



QUANZ MOTORS DRAINAGE CALCULATIONS





D. MARK GOODWIN & ASSOCIATES

August 18, 1993

Rick Quantz 988 Alameda Blvd. Albuquerque, NM 87114

Dear Rick:

This letter is a follow up to our August 3, 1993 meeting regarding the common boundary wall of our properties at Eagle Ranch Road and Paseo del Norte.

- You will grade a 10:1 slope to the bottom of the west 1. property line wall.
- You will lower the existing grade at the west property line approximately 3' to 4' with the overdig extending 2. 20' + onto the Centex property. Any excess soil will be stock piled for future use by Centex Homes.
- 3. Excess <u>clean</u> soil from your site may be placed on the stockpile.

If you have any questions feel free to call me anytime.

Best Regards

Land Development Coordinator





PROJECT QUANT	L MOYORS
SUBJECT DRAWAG	E CALCS
BY GJK	DATE 6-11-93
CHECKED	DATE
REUISED 10-11-93	SHEETOF

TOTAL SITE: 3,5605 AC = 0,00556 S.M.

ROOF: 0,36489 AC

TREATMENT 2

PLANTERS: 0.05332 AC

TREATMENT B

C

PAVENENT: 1,63911 AC

TREATMENT 0

REGRIDED GROUND: 1,50318 AC TREATMENT

PERCENTAGES

TREATMENT B = 1.50

C=12,22

0 = 56.28

100 yr Storm

PIH = 1,90 in

PGH = 2,20 in

P24H= 2,67 11

tp=0.1333 HR

OT=0.0333 AR

THE HUMO RUN SHEETS 2:3 FROM

VOLUME REQUIRED FOR ONSITE RETENTION IS V= 0,9577 AC-FT

= 19, 937, 417 CF xZ= 39,874,824 CF

FIND POND VOLUME

ELEV.	AREA (SF)	VOLUME CF
81.5	8,898	8898+9509 = 4,60Z
82	9,509	
83	10,774	9509 + 10774 = 10,142
84	12,705	10774+12705 = 11,740
85	14,635	12705 + 14635 = 13,670