

October 14, 2004

Mr. Arthur Blessen, P.E.

CLAUDIO VIGIL ARCHITECTS

1801 Rio Grande Blvd. NW

Albuquerque, NM 87104

Re: WYOMING OFFICE PARK

Wyoming Blvd. and Palomas Ave. NE

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 11/14/2003 (D-19/D022)

Certification dated 10/13/2004

Dear Mr. Blessen,

P.O. Box 1293

Based upon the information provided in your submittal received 10/14/2004, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3982.

New Mexico 87103

Sincerely,
Orlene V. Portilla

www.cabq.gov

Arlene V. Portillo Plan Checker, Planning Dept. - Hydrology

Development and Building Services

C:

Phyllis Villanueva

File

December 13, 2005

John Arthur Blessen, PE Claudio Vigil Architects 1801 Rio Grande Blvd NW Albuquerque, NM 87104



Re: Wyoming Office Park, North Alb. Acres
Grading and Drainage Plan

Engineer's Stamp dated 12-09-05 (D19-D22)

Dear Mr. Blessen,

Based upon the information provided in your submittal received 12-09-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

P.O. Box 1293

If you have any questions, you can contact me at 924-3695.

Albuquerque

New Mexico 87103

www.cabq.gov C: File

Sincerely,

Rudy E. Rael, Associate Engineer

Planning Department.

Building and Development Services



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 2, 2004

John Arthur Blessen, P.E. Claudio Vigil Architects 1801 Rio Grande Blvd. NW Albuquerque, NM 87104

Wyoming Office Park, Tract X-1-B North Albuquerque Acres, Grading and Re: Drainage Report

Engineer's Stamp dated 11-14-03 (D19/D22)

Dear Mr. Blessen,

Based upon the information provided in your submittal received 11-17-03, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions regarding this permit please feel free to call the Public Works Hydrology section at 768-3654 (Charles Caruso) or 768-3645 (Brian Wolfe).

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro

Engineering Associate, Planning Dept.

Development and Building Services

Charles Caruso, Public Works Hydrology File



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 23, 2003

John Arthur Blessen, PE Claudio Vigil Architects 1801 Rio Grande NW Albuquerque, NM 87104

Re: Wyoming Office Park Drainage Report

Engineer's Stamp dated 8-20-03, (D19/D22)

Dear Mr. Blessen,

Based upon the information provided in your submittal dated 8-21-03, the above referenced plan is approved for Site Development Plan for Building Permit action by the DRB.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE Sr. Engineer, Planning Dept Development and Building

C: file

## Drainage Report

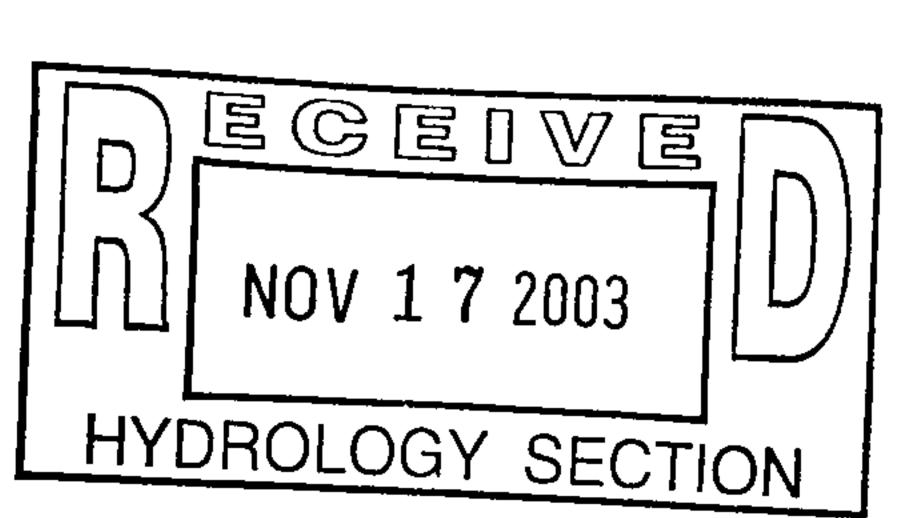
for

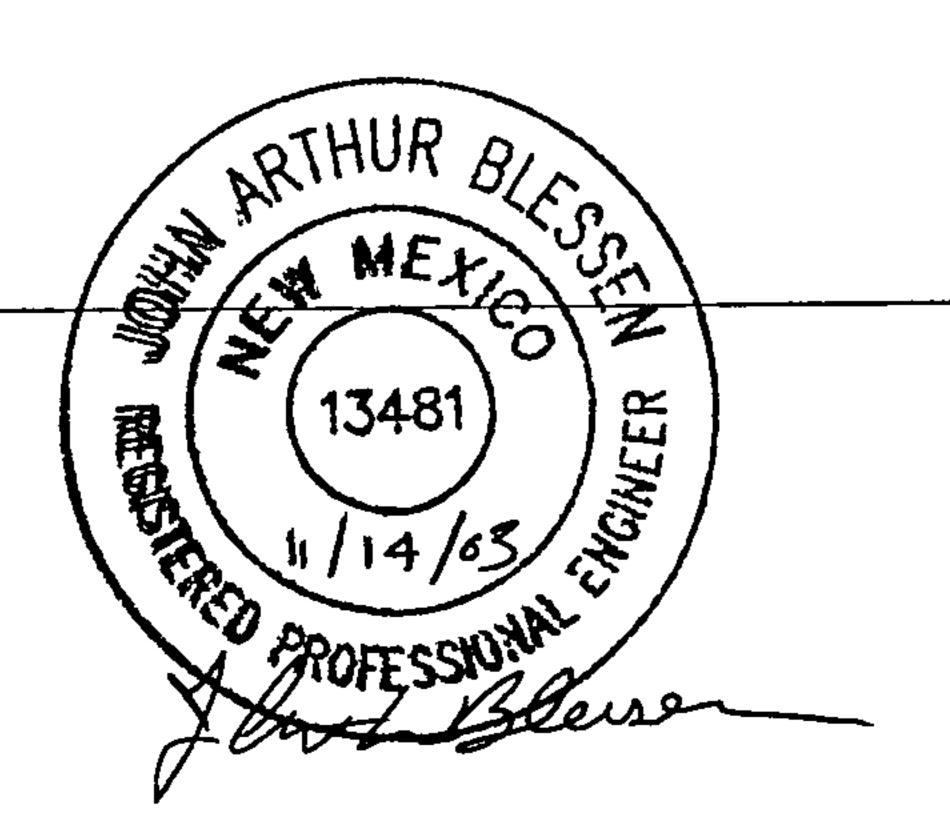
# Phase 1 Tract X-1-B North Albuquerque Acres

File #D19/D22
Wyoming Bldv. and Palomas

Albuquerque, New Mexico

November 14, 2003





#### Wyoming Office Park

#### Tract X-1-B North Albuquerque Acres - Phase 1

1. Location

Tracts X-1-B-1, X-1-B-2, X-1-B-3, & X-1-B-4

Formerly Tract X-1-B North Albuquerque Acres

Albuquerque, New Mexico

3.0 acres east side of Wyoming Bldv. south of Paseo del Norte

2. Existing Site Conditions:

The existing site is undeveloped and slopes form east to west at an approximate rate of 3.5%. The site dose not lie within a flood hazard zone (Panel 137 of 825). The site is higher than lands to the south and the street to the west: the lands to the north have been developed, and the existing block wall along the east property line prevent office site flows from entering the site; therefore office site flows are considered negligible.

Two previous grading plans have been approved for this site. The first plan filed in 1988 by Tom Mann, and the second filed in 1999 by Chaves Grieves. Both submittals required that all runoff be conveyed to the Domingo Baca Channel to the south of the site, without retaining any flow:

3. Developed Conditions:

The proposed Phase 1 development consist<sup>5</sup> of the one story office buildings located in Tract X-1-B-3 with associated parking and landscaping; the retaining walls along the east and south property line; and rough grading of Tracts X-1-B-1, X-1-B-2, and X-1-B-4.

The site has been divided into five subbasins. Basin A1, B1, B2, and B3 discharge into the existing 24"
diameter private storm drain which discharges into the Domingo Baca Channel Basin C1 surface drains
to the Domingo Baca Channel Right-of-Way to the south.

Basin A1

The flows from Basin A1 surface flows to a drop inlet located at the north drive entrance. The drop inlet discharges into the existing 24" private storm drain via a 8" pvc pipe. Phase 1 discharge are based assuming a Type C ground cover for the undeveloped areas.  $Q_{100}=3.1$  cfs. (Developed  $Q_{100}=3.7$  cfs).

Basin B1

The flows from Basin B1 surface flows to a drop inlet located at the south east corner of the side. The drop inlet discharges to the drop inlet at the south drive entrance via an 8" pvc pipe. Phase 1 discharge are based assuming a Type C ground cover for the undeveloped areas.  $Q_{100}=1.1$  cfs. (Developed  $Q_{100}=1.5$  cfs).

Basin B2 & B3

The flows from Basin B2 surface flows to a drop inlet located at the south drive entrance. Phase 1 discharge are based assuming a Type C ground cover for the undeveloped areas.

Basin B2  $Q_{100}$ =6.0 cfs (Developed  $Q_{100}$ =6.9 cfs)

Basin B3 Q<sub>100</sub>=1.6 cfs (Developed Q<sub>100</sub>=1.6 cfs) (Basin B3 is fully developed)

The combined runoff from basins B1, B2, & B2 discharge into the existing 24" private storm drain via a 12" dia pvc pipe  $Q_{100}$ =8.7 cfs (Developed  $Q_{100}$ =10.0 cfs).

Basin C.

Basin C1 is comprised of the sloped grade along building C. The runoff from basin C1 sheet flows onto the Domingo Baca Channel Right-of-Way at a rate of 0.23 cfs.

4. Summary / Conclusion

The proposed development will increase the volume of runoff from the site. This runoff will be discharged into the Domingo Baca Channel. The proposed runoff for the site for Phase 1 construction is 12 csf (4.00 cfs per acre). (Developed  $Q_{100}=14 \text{ cfs}$ , 4.67 cfs per acre)

Phase 1? What's included in

City of Albuquerque DPM 1997 edition

#### WYOMING OFFICE PARK BASIN A1 PHASE 1

Precipitation Zone 0.822 acres Basin Area

Existing			Improved Condit	ions	
Treatment			Treatment		
Area of A =	0 <b>sf</b>	0%	Area of A =	0 <b>sf</b>	0%
Area of B =	0 <b>sf</b>	0%	Area of B =	1096 <b>sf</b>	3%
Area of C =	35785 <b>sf</b>	100%	Area of C =	26090 sf	73%
Area of D =	0 sf	0%	Area of D =	8599 sf	24%

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

Existing	Conditions				improved Cork	IITIONS		
Treatme		of Area	E	n	Treatment	% of Area	E	En
	Α	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00
	В	0.00 x	0.912 =	0.00	В	0.03 x	0.912 =	0.03
	C	1.00 x	1.29 =	1.29	С	0.73 x	1.29 =	0.94
	D	0.00 x	2.36 =	0.00	D	0.24 x	2.36 =	0.57
			E =	1.29			E =	1.54
Volume	V = EA/12							
	Ve =	1.290 x	0.822 /	12 =	= 0.088 ac	cre ft	3847 cf	
	Vi =	1.536 x	0.822 /	12 =	= 0.105 ac	cre ft	4579 cf	

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

Treatment	% of Area		(	)	Treatment	% of Area	Q	
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.03 x	2.6 =	0.08
	C	1.00 x	3.45 =	3.45	C	0.73 x	3.45 =	2.52
	D	0.00 x	5.02 =	0.00	Đ	0.24 x	5.02 =	1.21
			<b>q</b> =	3.45			<b>q</b> =	3.80
Peak Rate (	2p = q A		_					

Qp(i) =

Qp(e) =0.822 =2.83 cfs 3.45 x  $3.80 \times 0.822 =$ 3.12 cfs

0.017 acre ft Excess Volume = 0.29 cfs Excess Rate =

> 0.2 hr tc =

0.791 hr tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) =tp = (0.7\*tc)+((1.6-(Ad/At))/12)0.253 hr

 $4.54 \text{ cfs / acre x} \quad 0.822 =$ 3.7297 Discharge Rate

4784 cf Volume 4760 cf Discharged

Pond Voulme 24 cf

City of Albuquerque DPM 1997 edition

WYOMING OFFICE	PARK F	RASIN	R1	PHASE 1
AA I OMINA OLLICE	FARNE	) MOIII	D I	FIIAGE !

Precipitation Zone 3
Basin Area = 0.320 acres

Improved Conditions Existing Treatment Treatment 0% 0 **sf** Area of A =0 **sf** 0% Area of A =Area of B = 0% 0 **sf** Area of B = 0 **sf** 0% 100% 13920 **sf** Area of C = 100% 13920 **sf** Area of C = 0 sf 0% Area of D =0 sf 0% Area of D =

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

Existing Co	onditions				Improved Cond	litions		
Treatment	%	of Area	E	:n	Treatment	% of Area		Ξn
	Α	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00
	В	0.00 x	0.912 =	0.00	В	0.00 x	0.912 =	0.00
	С	1.00 x	1.29 =	1.29	C	1.00 x	1.29 =	1.29
	D	0.00 x	2.36 =	0.00	D	0.00 x	2.36 =	0.00
			E =	1.29			E =	1.29
Volume V	= E A / 12							
	Ve =	1.290 x	0.32 /	12 =	0.034 ad	re ft	1496 cf	
	Vi =	1.290 x	0.32 /	12 =	0.034 ac	re ft	1496 cf	

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

3.45 x

3.45 x

Treatment	9	% of Area		)	Treatment	% of Area		<b>Q</b>
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.00 x	2.6 =	0.00
	C	1.00 x	3.45 =	3.45	C	1.00 x	3.45 =	3.45
	D	0.00 x	5.02 =	0.00	D	0.00 x	5.02 =	0.00
			<b>q</b> =	3.45			<b>q</b> =	3.45
Peak Rate (	A p = q A		•					

1.10 cfs

1.10 cfs

Excess Volume = 0.000 acre ft
Excess Rate = 0.00 cfs

Qp(e) =

Qp(i) =

tc = 0.2 hr

tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) = 0.788 hrtp = (0.7\*tc)+((1.6-(Ad/At))/12) = 0.273 hr

0.32 =

0.32 =

Discharge Rate  $4.57 \text{ cfs / acre } \times 0.320 = 1.4604$ 

Volume 1563 cf Discharged - 1399 cf

Pond Voulme 165 cf

City of Albuquerque DPM 1997 edition

#### WYOMING OFFICE PARK BASIN B2 PHASE 1

Precipitation Zone 3
Basin Area = 1.467 acres

Existing			Improved Condit	ions	
Treatment			Treatment		
Area of A =	0 sf	0%	Area of A =	0 <b>sf</b>	0%
Area of B =	0 <b>sf</b>	0%	Area of B =	4100 sf	6%
Area of C =	63924 <b>sf</b>	100%	Area of C =	31848 <b>sf</b>	50%
Area of D =	0 sf	0%	Area of D =	27976 sf	44%

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

Existing Co	•		improved Conditions					
<del></del>		% of Area		En Tr		% of Area	En	
	Α	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00
	В	0.00 x	0.912 =	0.00	В	0.06 x	0.912 =	0.06
	Č	1.00 x	1.29 =	1.29	С	0.50 x	1.29 =	0.64
	Ď	0.00 x	2.36 =	0.00	D	0.44 x	2.36 =	1.03
			E =	1.29			E =	1.73
Volume V =	= E A / 12							
	Ve =	1.290 x	1.467 /	12 =	= 0.158 a	cre ft	6872 cf	
	Vi =	1 734 x	1 467 /	12 =	= 0.212 a	cre ft	9237 cf	

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

Treatment		% of Area		)	Treatment	% of Area	Q	
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.06 x	2.6 =	0.17
	С	1.00 x	3.45 =	3.45	C	0.50 x	3.45 =	1.72
	D	0.00 x	5.02 =	0.00	D	0.44 x	5.02 =	2.20
			<b>q</b> =	3.45			<b>q</b> =	4.08
Peak Rate C	$A p = \alpha C$		•					

Peak Rate Qp = q A Qp(e) =  $3.45 \times 1.467 = 5.06 \text{ cfs}$ Qp(i) =  $4.08 \times 1.467 = 5.99 \text{ cfs}$ 

Excess Volume = 0.054 acre ft
Excess Rate = 0.93 cfs

tc = 0.2 hr

tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) = 0.786 hrtp = (0.7\*tc)+((1.6-(Ad/At))/12) = 0.237 hr

Discharge Rate 4.71 cfs / acre x = 1.467 = 6.9119

Volume 9651 cf Discharged - 9841 cf

Pond Voulme -190 cf

City of Albuquerque DPM 1997 edition

## WYOMING OFFICE PARK BASIN B3 PHASE 1

Precipitation Zone 0.323 acres Basin Area

Improved Conditions Existing Treatment Treatment 0% 0 **sf** Area of A = 0% 0 **sf** Area of A =10% 1374 **sf** Area of B = 0% 0 **sf** Area of B = 0% 0 **sf** Area of C = 100% 14088 sf Area of C =90% 12714 sf Area of D =0 sf 0% Area of D =

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

Existing Conditions			Improved Conditions					
•	Treatment % of Area		En		Treatment	% of Area	En	
	A	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00
	В	0.00 x	0.912 =	0.00	В	0.10 x	0.912 =	0.09
	C	1.00 x	1.29 =	1.29	C	0.00 x	1.29 =	0.00
	Ď	0.00 x	2.36 =	0.00	D	0.90 x	2.36 =	2.13
			E =	1.29			E =	2.22
Volume V =	EA/12							
	Ve =	1.290 x	0.323 /	12 =	= 0.035 a	cre ft	1514 cf	
	Vi =		0.323 /	12 =	= 0.060 a	cre ft	2605 cf	

Discharge Rate. Q (cfs / acre) 100 vr storm table A-9

Treatment %		% of Area	Ć		Treatment	% of Area	Q	
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.10 x	2.6 =	0.25
	C	1.00 x	3.45 =	3.45	С	0.00 x	3.45 =	0.00
	D	0.00 x	5.02 =	0.00	D	0.90 x	5.02 =	4.53
	_		<b>q</b> =	3.45			<b>q</b> =	4.78
Peak Rate (	2p = q	4						

1.12 cfs

1.55 cfs

0.025 acre ft Excess Volume = 0.43 cfs Excess Rate =

Qp(e) =

Qp(i) =

0.2 hr tc =

0.752 hr tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) =0.198 hr tp = (0.7\*tc)+((1.6-(Ad/At))/12)

1.5459  $4.78 \text{ cfs / acre x} \quad 0.323 =$ Discharge Rate

 $3.45 \times 0.323 =$ 

 $4.78 \times 0.323 =$ 

2722 cf Volume 2720 cf Discharged

Pond Voulme 1 cf

City of Albuquerque DPM 1997 edition

## WYOMING OFFICE PARK BASIN C1 PHASE 1

Precipitation Zone 3
Basin Area = 0.068 acres

Existing			Improved Conditi	ons	
Treatment			Treatment		
Area of A =	0 sf	0%	Area of A =	0 <b>sf</b>	0%
Area of B =	0 <b>sf</b>	0%	Area of B =	0 sf	0%
Area of C =	2961 <b>sf</b>	100%	Area of C =	2961 <b>sf</b>	100%
Area of D =	0 sf	0%	Area of D =	0 sf	0%

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

<b>Existing Conditions</b>				improved Con	ditions		
Treatment % of Area		E	n	Treatment	% of Area	En	
A	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00
В	0.00 x	0.912 =	0.00	В	0.00 x	0.912 =	0.00
C	1.00 x	1.29 =	1.29	С	1.00 x	1.29 =	1.29
Đ	0.00 x	2.36 =	0.00	D	0.00 x	2.36 =	0.00
		E =	1.29			E =	1.29
Volume V = E A / 1	12						
Ve =	1.290 x	0.068 /	12 =	e 0.007 a	cre ft	318 cf	
Vi =			12 =	= 0.007 a	cre ft	318 cf	

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

		% of Area Q		_	Treatment	% of Area	Q	
Houtifich	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.00 x	2.6 =	0.00
	C	1.00 x	3.45 =	3.45	C	1.00 x	3.45 =	3.45
	D	0.00 x	5.02 =	0.00	D	0.00 x	5.02 =	0.00
			<b>q</b> =	3.45			<b>q</b> =	3.45
Peak Rate C	A D = a A		•					
	p(e) =	3.45 x	0.068 =	0.23 c	fs			

0.23 cfs

Excess Volume = 0.000 acre ft
Excess Rate = 0.00 cfs

Qp(i) =

tc = 0.2 hr

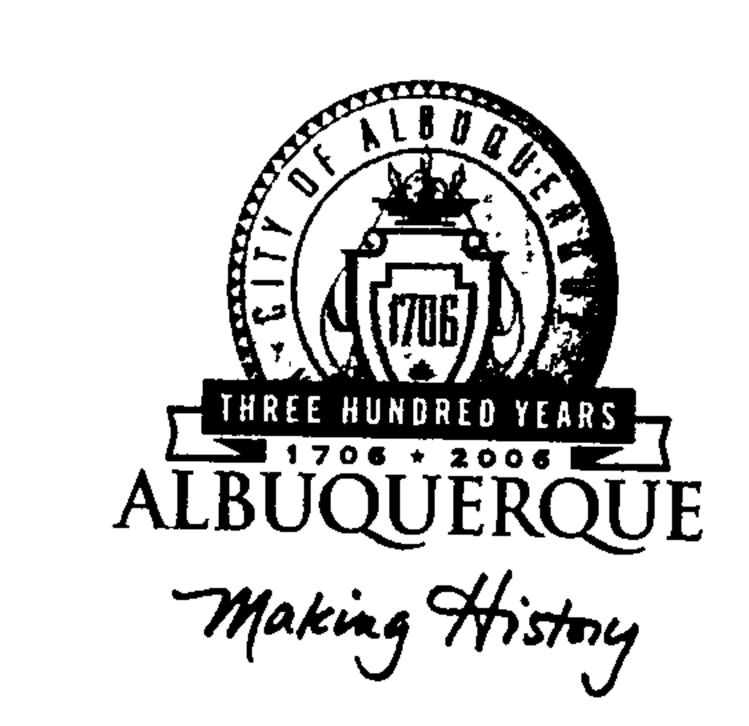
tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) = 0.788 hrtp = (0.7\*tc)+((1.6-(Ad/At))/12) = 0.273 hr

Discharge Rate 3.45 cfs / acre x 0.068 = 0.2345

 $3.45 \times 0.068 =$ 

Volume 333 cf Discharged - 333 cf

Pond Voulme 0 cf



**≱** ♦..

# Planning Department Transportation Development Services Section

October 15, 2004

Claudio Antonio Vigil, Registered Architect 1801 Rio Grande Blvd Albuquerque, NM 87104

Re:

Certification Submittal for Final Building Certificate of Occupancy for

Wyoming Office Park-Bank of The West, [D-19 / D-22]

Wyoming and Palomas Ave. NE Architect's Stamp Dated 10/14/04

Dear Mr. Vigil:

P.O. Box 1293

The TCL / Letter of Certification submitted on October 14, 2004 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Albuquerque

Sincerely,

New Mexico 87103

www.cabq.gov

Nilo E. Salgado-Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

Planning Department

c: Engineer
Hydrology file
CO Clerk



#### CLAUDIO VIGIL ARCHITECTS

October 14, 2004

Nilo Salgaeto
600 2nd. St. N.W.
Transportation Department
Building and Inspection
Albuquerque, New Mexico

RE: Traffic Certification - PROJECT #1002716 DRB 03DRB 01550
Wyoming Office Park - Bank of The West
Tract X-1-B-3 North Albuquerque Acres

Dear Nilo Salgaeto,

On October 13, 2004 this office made an inspection of the completed improvements to the Tract X-1-B-3 North Albuquerque Acres. All work necessary to support the facility has been completed and is in substantial compliance with the approved Site Plan.

The work is complete and ready for occupancy.

Sincerely,

Claudio Vigi

President

D) 国 G 国 T V 国 D) OCT 1 4 2004 D) HYDROLOGY SECTION



# Planning Department Transportation Development Services Section

July 31, 2006

John Arthur Blessen, P.E. 1801 Rio Grande Blvd NW Albuquerque, NM 87104

Re:

Certification Submittal for Final Building Certificate of Occupancy for

Office Bldg@Wyoming Office Park(Bldg A), [D-19 / D22]

7930 Wyoming Blvd NE

Engineer's Stamp Dated 07/17/06

P.O. Box 1293

Dear Mr. Blessen:

Albuquerque

The TCL / Letter of Certification submitted on July 31, 2006 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Singerely

New Mexico 87103

www.cabq.gov

Mo E. Salgado-Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

Planning Department

c:

Engineer
Hydrology file
CO Clerk



July 17, 2006

Phillip J. Lovato
Transportation Department Building and Inspection
600 2nd. St. N.W
Albuquerque, New Mexico

RE: Traffic Certification
Office Building
7930 Wyoming Blvd. NE

Dear Phillip Lovato:

On July 17, 2006, this office made an inspection of the completed improvements to the Office Building. All work necessary to support the facility has been completed, except as noted below, and is in substantial compliance with the DRB approved Site Plan.

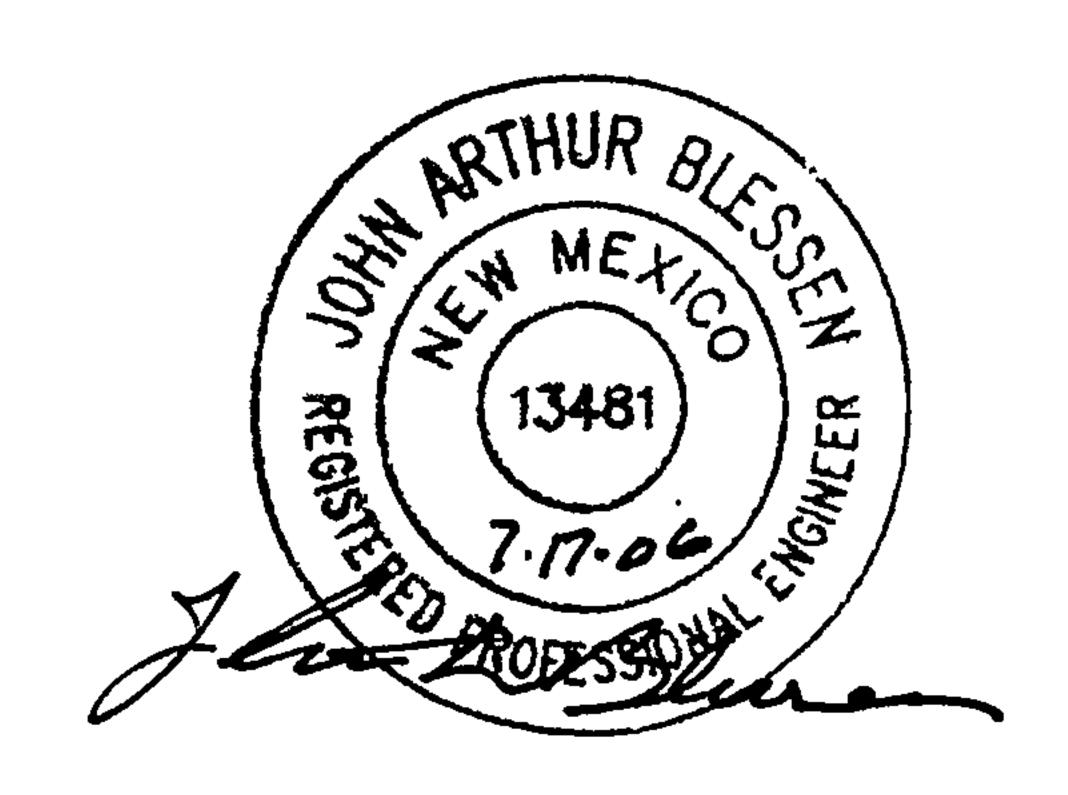
• The landscaping around the site was in progress.

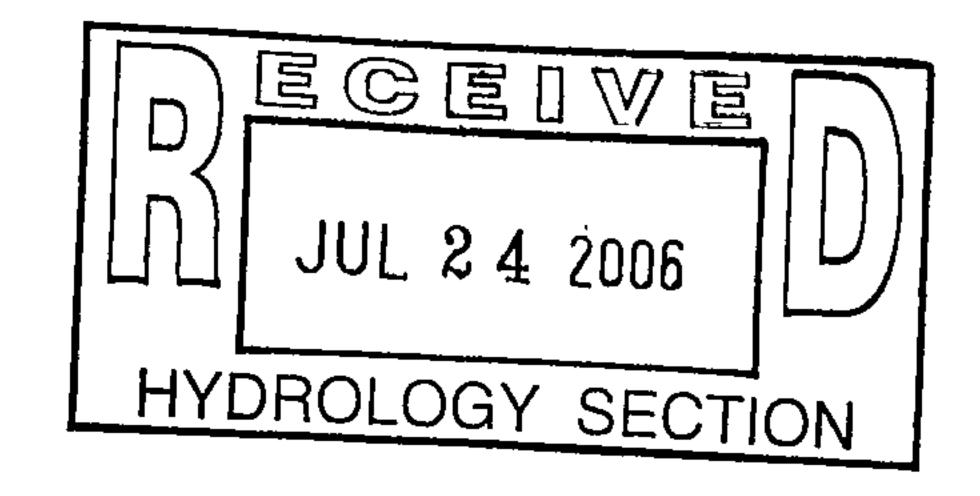
This work is scheduled to be completed by July 21, 2006.

The work is complete, except as noted above, and ready for a Final Certificate of Occupancy.

Sincerely,

J. Arthur Blessen PE Claudio Vigil Architect







February 16, 2007

J. Arthur Blessen, P.E. J. Arthur Blessen Engineering 11930 Menaul NE Suite 109 Albuquerque, NM 87112

Re: Wyoming Office Park Phase 3

7220-Wyoming Blvd NE, 7920 Wyoming Blud NE 7-23-17 C C

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 12/9/05 (D-19/D022)

Certification dated 2/15/07

P.O. Box 1293

Based upon the information provided in your submittal received 2/15/07, the above referenced certification is approved for release of Permanent Certificate of Occupancy by

Albuquerque

If you have any questions, you can contact me at 924-3695.

New Mexico 87103

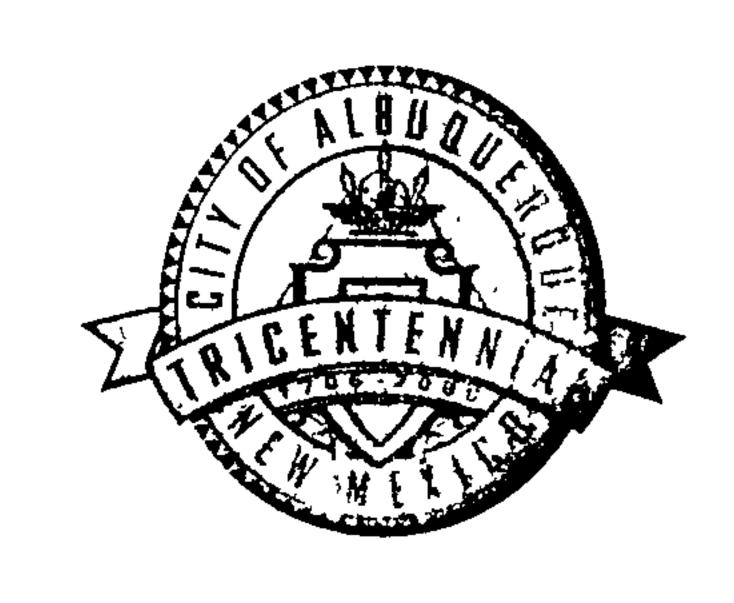
www.cabq.gov

Sincerely,

Curtis A. Cherne

Engineering Associate - Hydrology Development and Building Services

Katrina Sigala File



September 7, 2007

J. Arthur Blessen, P.E.

J. Arthur Blessen Engineering
11930 Menaul Blvd. NE, Suite 109
Albuquerque, NM 87112

Re: Wyoming Office Park Phase 4

7910 Wyoming Blvd NE

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 12/9/05 (D-19/D022)

Certification dated 9/5/07

P.O. Box 1293

Mr. Blessen,

Based upon the information provided in your submittal received 9/6/07, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3695.

New Mexico 87103

Sincerely,

www.cabq.gov

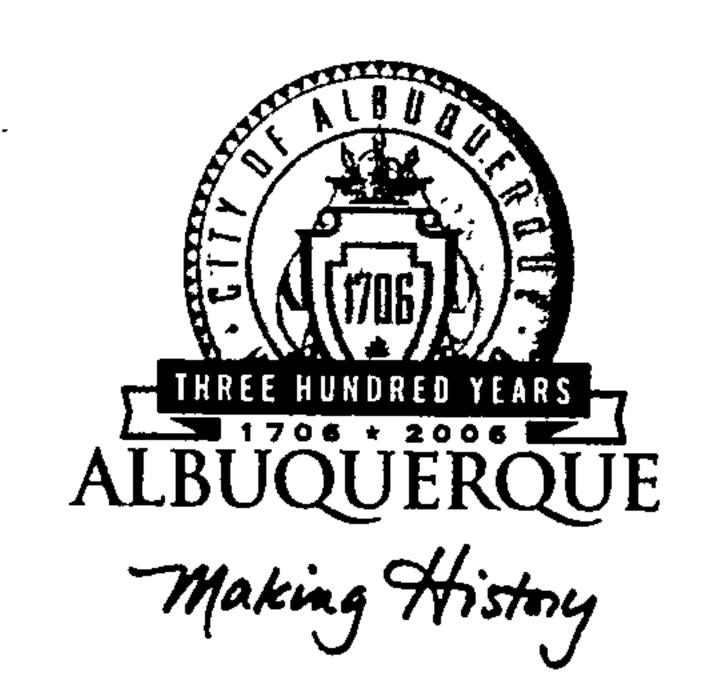
Curtis A. Cherne, P.E.

Engineering Associate Hydrology
Development and Building Services

C: CO Clerk File

December 13, 2005

John Arthur Blessen, PE Claudio Vigil Architects 1801 Rio Grande Blvd NW Albuquerque, NM 87104



Re: Wyoming Office Park, North Alb. Acres 143 £4
Grading and Drainage Plan
Engineer's Stamp dated 12-09-05 (D19-D22)

Dear Mr. Blessen,

Based upon the information provided in your submittal received 12-09-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

P.O. Box 1293

If you have any questions, you can contact me at 924-3695.

Albuquerque

New Mexico 87103

Sincerely,

Rudy E. Rael, Associate Engineer

Planning Department.

Building and Development Services

www.cabq.gov

C: File

# Drainage Report

for

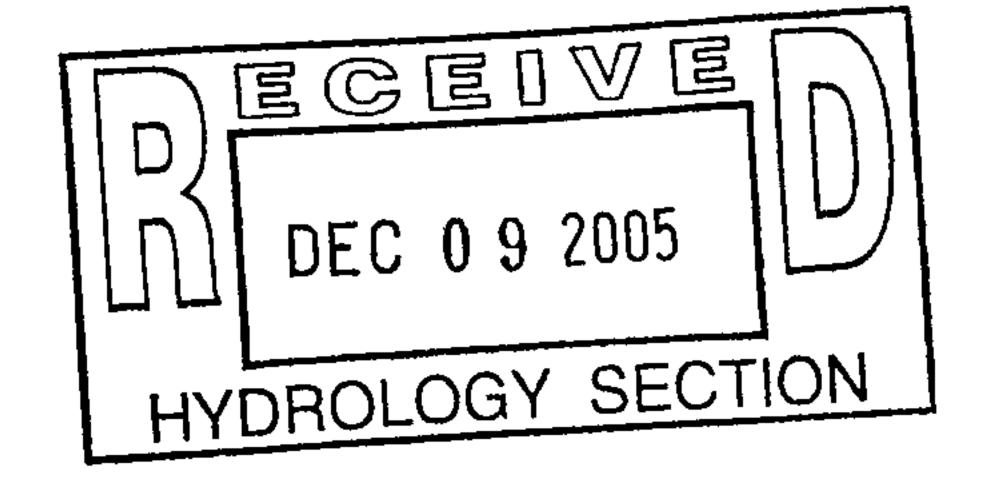
# Phase 3 & 4 Tract X-1-B-1 North Albuquerque Acres

File #D19/D22
Wyoming Bldv. and Palomas

Albuquerque, New Mexico

December 9, 2005





# Wyoming Office Park Tract X-1-B-1 North Albuquerque Acres - Phase 3 and 4

#### 1. Location

Tracts X-1-B-1, X-1-B-2, X-1-B-3, & X-1-B-4
Formerly Tract X-1-B North Albuquerque Acres
Albuquerque, New Mexico
3.0 acres east side of Wyoming Bldv. south of Paseo del Norte

#### 2. Existing Site Conditions:

The existing site is undeveloped and slopes form north to south at an approximate rate of 2.0%. The site dose not lie within a flood hazard zone (Panel 137 of 825). The site is higher than lands to the south and the street to the west: the lands to the north have been developed, and the existing block wall along the east property line prevent office site flows from entering the site; therefore office site flows are considered negligible.

Three previous grading plans have been approved for this site. The first plan filed in 1988 by Tom Mann, and the second filed in 1999 by Chaves Grieves. Both submittals required that all runoff be conveyed to the Domingo Baca Channel to the south of the site, without retaining any flow. The final plan filed in August of 2003 by Claudio Vigil Architect provided a master drainage plan for the entire site.

Phase 1 of the development is complete. Phase one consisted of the one story office buildings located in Tract X-1-B-3 with associated parking and landscaping; the retaining walls along the east and south property line; and rough grading of Tracts X-1-B-1, X-1-B-2, and X-1-B-4.

Phase 2 of the development was previously approved for construction and consisted of the one story office buildings located in Tract X-1-B-1 with associated parking and landscaping.

#### 3. Developed Conditions:

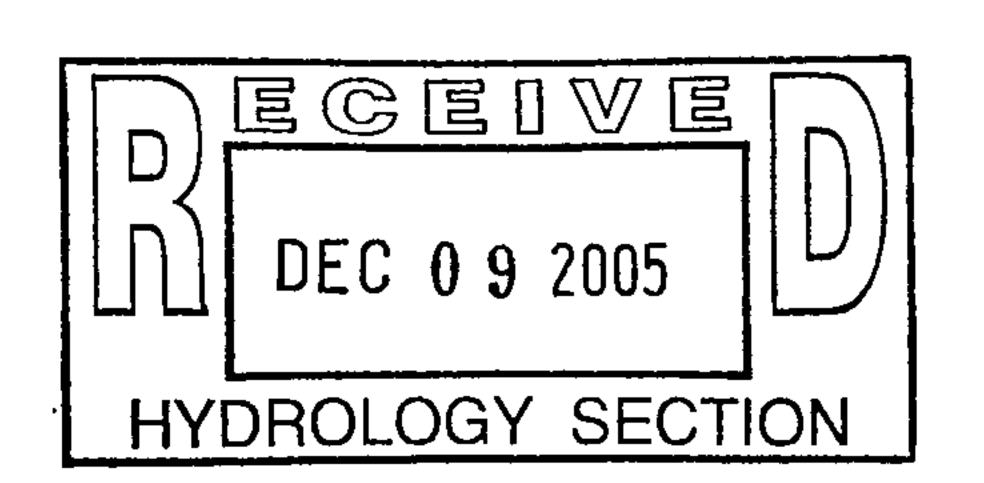
The site has been divided into five subbasins. Basin A1, B1, B2, and B3 discharge into the existing 24" diameter private storm drain which discharges into the Domingo Baca Channel. Basin C1 surface drains to the Domingo Baca Channel Right-of-Way to the south.

The proposed Phase 3 development consist of the one story office buildings located in Tract X-1-B-2 (Basin B2) with associated parking and landscaping.

The proposed Phase 4 development consist of the one story office buildings located in Tract X-1-B-2 (Basin B1) with associated parking and landscaping

#### Basin A1 Unchanged

The flows from Basin A1 surface flows to a drop inlet located at the north drive entrance. The drop inlet discharges into the existing 24" private storm drain via a 8" pvc pipe. Existing developed  $Q_{100}=3.7$  cfs.



#### Basin B1

Phase 4 will complete the development of Basin B1. The flows from Basin B1 surface flows to a drop inlet located at the south east corner of the side. The drop inlet discharges to the drop inlet at the south drive entrance via an 8" pvc pipe. Exiting discharge based on type C ground cover for the undeveloped areas.  $Q_{100}=1.1$  cfs. The developed discharge from Basin B1 is  $Q_{100}=1.5$  cfs.

#### Basin B2

Phase 3 will complete the development of Basin B2. The flows from Basin B2 surface flows to a drop inlet located at the south drive entrance. The existing discharge based on type C ground cover for the undeveloped areas. The developed discharge from Basin B2 is  $Q_{100}$ =6.9 cfs

#### -Basin B3 Unchanged

The runoff from Basin B3 flows to a drop inlet located at the south drive entrance. Basin B3  $Q_{100}=1.6$  cfs (Developed  $Q_{100}=1.6$  cfs) (Basin B3 is fully developed)

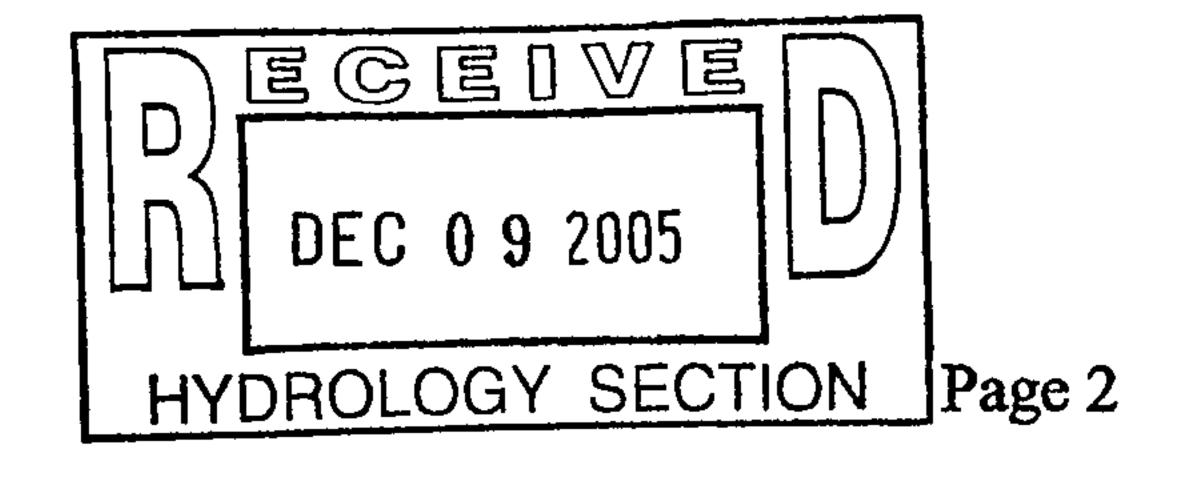
The combined runoff from basins B1, B2, & B2 discharge into the existing 24" private storm drain via a 12" dia pvc pipe. Developed flow  $Q_{100}=10.0$  cfs.

#### Basin C Unchanged

Basin C1 is comprised of the sloped grade along building C. The runoff from basin C1 sheet flows onto the Domingo Baca Channel Right-of-Way at a rate of 0.23 cfs.

#### 4. Summary / Conclusion

The proposed development will increase the volume of runoff from the site. This runoff will be discharged into the Domingo Baca Channel. The proposed runoff for the site for Phase 3 and 4 construction is 14 csf (4.7 cfs per acre).



City of Albuquerque DPM 1997 edition

## WYOMING OFFICE PARK BASIN B2 PHASE 3

Precipitation Zone

Basin Area

1.467 acres

Existing			Improved Conditions				
Treatment			Treatment				
Area of A =	0 sf	0%	Area of A =	0 sf	0%		
Area of B =	0 sf	0%	Area of B =	8177 sf	13%		
Area of C =	63924 sf	100%	Area of C =	0 sf	0%		
Area of D =	0 sf	0%	Area of D =	55747 sf	87%		

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

Existing Conditions				Improved Cond	itions		
Treatment	% of Area	E	Ξn	•	% of Area		En
A	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00
В	0.00 x	0.912 =	0.00	В	0.13 x	0.912 =	0.12
C	1.00 x	1.29 =	1.29	C	0.00 x	1.29 =	0.00
Ð	0.00 x	2.36 =	0.00	Ð	0.87 x	2.36 =	2.06
		E =	1.29			E =	2.17
Volume $V = EA/12$						<del>-</del>	
Ve =	1.290 x	1.4675 /	12 =	0.158 acre	e ft	6872 cf	
Vi =	2.175 x	1.4675 /	12 =			11585 cf	

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

Treatment		% of Area		2	Treatment	% of Area		Q
	A	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.13 x	2.6 =	0.33
	C	1.00 x	3.45 =	3.45	С	0.00 x	3.45 =	0.00
	D	0.00 x	5.02 =	0.00	D	0.87 x	5.02 =	4.38
Đạnh Đại A	A		<b>q</b> =	3.45			<b>q</b> =	4.71

Peak Rate Qp = q A

Qp(e) = $3.45 \times 1.4675 =$ 5.06 cfs Qp(i) = $4.71 \times 1.4675 =$ 6.91 cfs

Excess Volume = 0.108 acre ft Excess Rate = 1.85 cfs

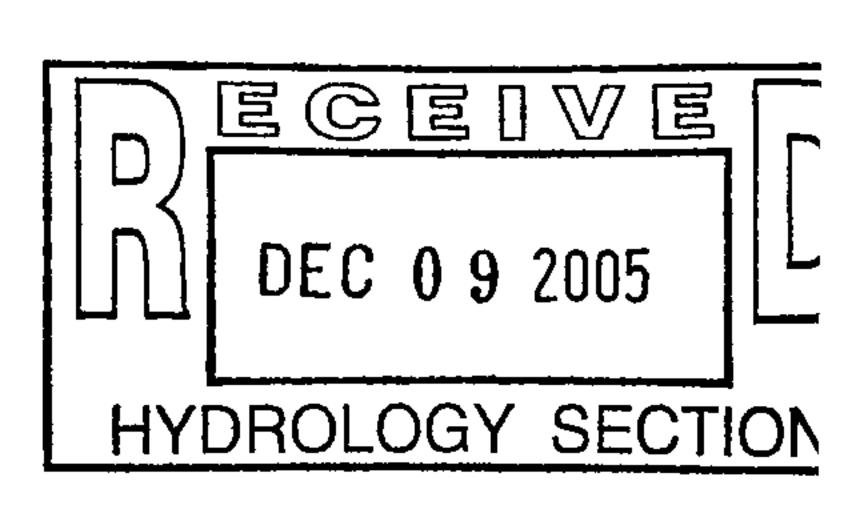
> tc = 0.2 hr

(2.107 \*E\*At/Qp)-(0.25\*Ad/At) =0.755 hr (0.7\*tc)+((1.6-(Ad/At))/12) 0.201 hr

Discharge Rate 4.71 cfs / acre x 1.467 =6.9119

Volume 12104 cf Discharged 12103 cf

Pond Voulme



City of Albuquerque DPM 1997 edition

## WYOMING OFFICE PARK BASIN B1 PHASE 4

Precipitation Zone

3

Basin Area

0.320 acres

Existing			Improved Conditions			
Treatment			Treatment			
Area of A =	0 sf	0%	Area of A =	0 sf	0%	
Area of B =	0 sf	0%	Area of B =	2595 sf	19%	
Area of C =	13920 sf	100%	Area of C =	0 sf	0%	
Area of D =	0 sf	0%	Area of D =	11325 sf	~~ <b>81%</b> ~	

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

Existing Cond	ditions		Improved Conditions						
Treatment	9	6 of Area	E	Ξn	Treatment	% of Area		En	
	A	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00	
	В	0.00 x	0.912 =	0.00	В	0.19 x	0.912 =	0.17	
	C	1.00 x	1.29 =	1.29	C	0.00 x	1.29 =	0.00	
	Ð	0.00 x	2.36 =	0.00	Ð	0.81 x	2.36 =	1.92	
			<b>E</b> =	1.29			<b>E</b> =	2.09	
Volume V = E	EA/12								
	Ve =	1.290 x	0.3196 /	12 =	0.034 a	cre ft	1496 cf		
	Vi =	2.090 x	0.3196 /	12 =	0.056 a	icre ft	2424 cf		

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

Treatment % of Area		Q		Treatment	% of Area	Q		
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.19 x	2.6 =	0.48
	C	1.00 x	3.45 =	3.45	· C	0.00 x	3.45 =	0.00
	D	0.00 x	5.02 =	0.00	Ð	0.81 x	5.02 =	4.08
DI-D-(			<b>q</b> =	3.45			<b>q</b> =	4.57

Peak Rate Qp = q A

 $Qp(e) = 3.45 \times 0.3196 = 1.10 \text{ cfs}$  $Qp(i) = 4.57 \times 0.3196 = 1.46 \text{ cfs}$ 

Excess Volume = 0.021 acre ft
Excess Rate = 0.36 cfs

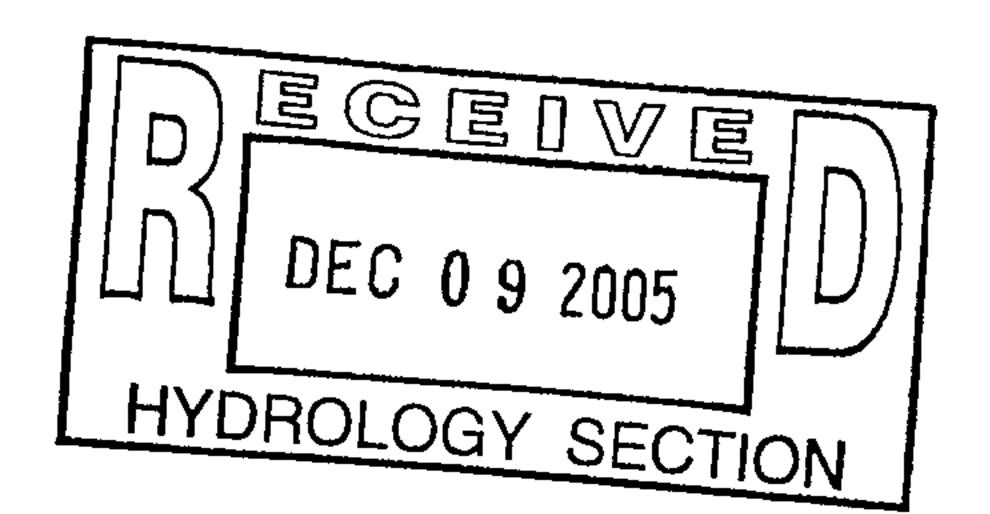
tc = 0.2 hr

tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) = 0.760 hrtp = (0.7\*tc)+((1.6-(Ad/At))/12) = 0.206 hr

Discharge Rate  $4.57 \text{ cfs / acre} \times 0.320 = 1.4604$ 

Volume 2533 cf Discharged - 2533 cf

Pond Voulme -0 cf



## Drainage Report

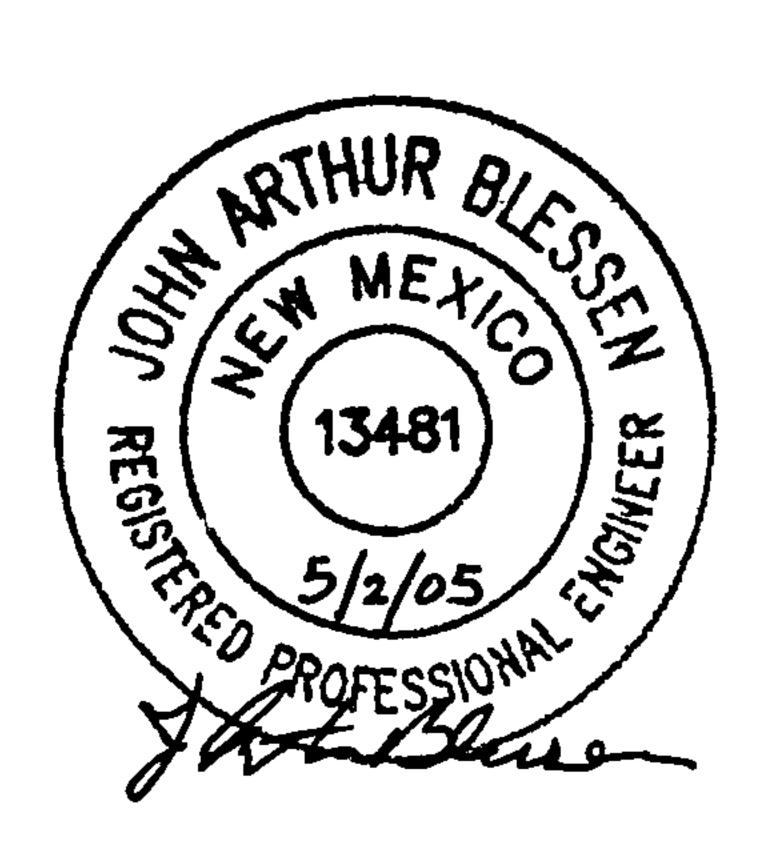
for

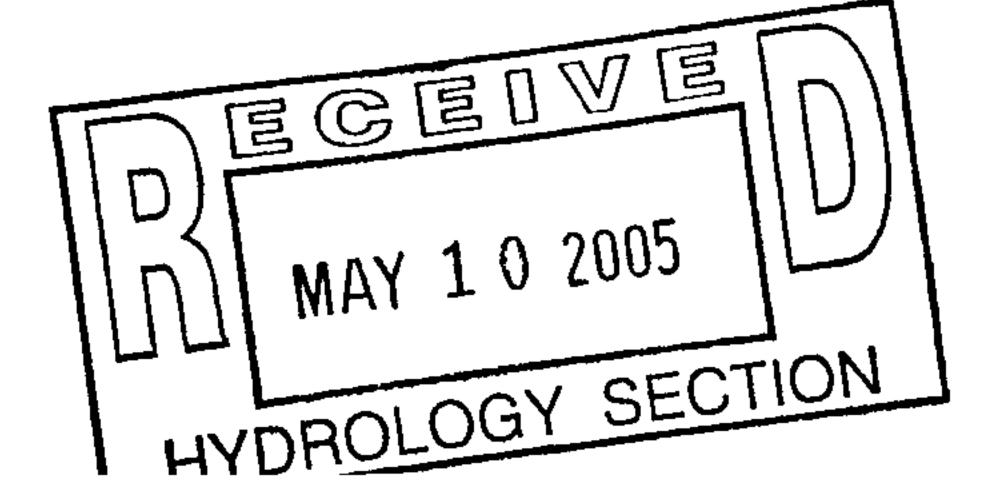
# Phase 2 Tract X-1-B-1 North Albuquerque Acres

File #D19/D22
Wyoming Bldv. and Palomas

Albuquerque, New Mexico

May 2, 2005





# Wyoming Office Park Tract X-1-B-1 North Albuquerque Acres - Phase 2

#### 1. Location

Tracts X-1-B-1, X-1-B-2, X-1-B-3, & X-1-B-4
Formerly Tract X-1-B North Albuquerque Acres
Albuquerque, New Mexico
3.0 acres east side of Wyoming Bldv. south of Paseo del Norte

## 2. Existing Site Conditions:

The existing site is undeveloped and slopes form north to south at an approximate rate of 2.0%. The site dose not lie within a flood hazard zone (Panel 137 of 825). The site is higher than lands to the south and the street to the west: the lands to the north have been developed, and the existing block wall along the east property line prevent of the site flows from entering the site; therefore of the site flows are considered negligible.

Three previous grading plans have been approved for this site. The first plan filed in 1988 by Tom Mann, and the second filed in 1999 by Chaves Grieves. Both submittals required that all runoff be conveyed to the Domingo Baca Channel to the south of the site, without retaining any flow. The final plan filed in August of 2003 by Claudio Vigil Architect provided a master drainage plan for the entire site.

Phase 1 of the development is complete. Phase one consisted of the one story office buildings located in Tract X-1-B-3 with associated parking and landscaping; the retaining walls along the east and south property line; and rough grading of Tracts X-1-B-1, X-1-B-2, and X-1-B-4.

#### 3. Developed Conditions:

The site has been divided into five subbasins. Basin A1, B1, B2, and B3 discharge into the existing 24" diameter private storm drain which discharges into the Domingo Baca Channel. Basin C1 surface drains to the Domingo Baca Channel Right-of-Way to the south.

The proposed Phase 2 development consist of the one story office buildings located in Tract X-1-B-1 (Basin A1) with associated parking and landscaping.

#### Basin A1

The flows from Basin A1 surface flows to a drop inlet located at the north drive entrance. The drop inlet discharges into the existing 24" private storm drain via a 8" pvc pipe. Phase 2 discharge developed  $Q_{100}=3.7$  cfs.

#### Basin B1 Unchanged

The flows from Basin B1 surface flows to a drop inlet located at the south east corner of the side. The drop inlet discharges to the drop inlet at the south drive entrance via an 8" pvc pipe. Exiting discharge based on type C ground cover for the undeveloped areas.  $Q_{100}=1.1$  cfs. (Developed  $Q_{100}=1.5$  cfs).

## Basin B2 & B3 Unchanged

The flows from Basin B2 surface flows to a drop inlet located at the south drive entrance. The existing discharge based on type C ground cover for the undeveloped areas.

Basin B2  $Q_{100}$ =6.0 cfs (Developed  $Q_{100}$ =6.9 cfs)

Basin B3 Q<sub>100</sub>=1.6 cfs (Developed Q<sub>100</sub>=1.6 cfs) (Basin B3 is fully developed)

The combined runoff from basins B1, B2, & B2 discharge into the existing 24" private storm drain via a 12" dia pvc pipe  $Q_{100}$ =8.7 cfs (Developed  $Q_{100}$ =10.0 cfs).

### Basin C Unchanged

Basin C1 is comprised of the sloped grade along building C. The runoff from basin C1 sheet flows onto the Domingo Baca Channel Right-of-Way at a rate of 0.23 cfs.

#### 4. Summary / Conclusion

The proposed development will increase the volume of runoff from the site. This runoff will be discharged into the Domingo Baca Channel. The proposed runoff for the site for Phase 2 construction is 12.6 csf (4.2 cfs per acre). (Discharge when fully developed  $Q_{100}=14 \text{ cfs}$ , 4.67 cfs per acre)

City of Albuquerque DPM 1997 edition

Wyoming	Office	Park	Basin	<b>A1</b>
---------	--------	------	-------	-----------

Precipitation Z	one	3 <
Basin Area	=	0.822 acres

Existing			Improved Conditions	•
Treatment			Treatment	•
Area of A =	0 sf	0%	Area of A =	Λ <sub>~</sub> ε
Area of B =	1006 ef	30/		0 sf

ruca oi A —	0 51	U%	Area of A =	0 sf	0%
Area of B =	1096 sf	3%	Area of B =	7141 sf	20%
Area of C =	26090 sf	73%	Area of C =	0 sf	20%
Area of D =	8599 sf	24%	Area of D =	28644 sf	80%
				LOUTT 31	UU /0

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8 Existing Conditions

Existing Conditions				Improved Condition	ons		
Treatment	% of Area	ĘE	n	<u> </u>	% of Area	F	Ξn
A	0.00 x	0.66	0.00	Α	0.00 x	0.66	0.00
В	0.03 x	0.912 =	0.03	В	0.20 x	0.912	0.00
C	0.73 x	1.29✓	0.94	C	0.20 x	1.29	0.10
Ð	0.24 x	2.36	0.57	D	0.80 x	2.36	1.89
		E =	1.54		0.00 X	2.50 =	
Volume V = E A / 12							2.07
Ve =	1.536 x	0.8215 /	12 =	0.105 acre	ff	4570 of	
Vi =	2.071 x	0.8215 /	12 =	J J. G.		4579 cf	
	_,,,,,	0.02107	12 -	<b>0.142 acre</b>	R	6176 cf	

0.142 acre ft

0.207 hr

6176 cf

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

Treatment	_	% of Area	C	2	Treatment	% of Area	(	$\mathbf{c}$
	Α	0.00 x	1.87 €	0.00	Α	0.00 x	1.87 🗠	0.00
	В	0.03 x	2.6	0.08	В	0.20 x	2.6	0.52
	С	0.73 x	3.45 =	2.52	С	0.00 x	3.45	0.00
	D	0.24 x	5.02 *	1.21	D	0.80 x	5.02	<i>-</i>
Paak Data On	- ~ A		<b>q</b> =	3.80			<b>q</b> =	4.54

Peak Rate Qp = g A Qp(e) = ING Qp(e)  $3.80 \times 0.8215 =$ 3.12 cfs Qp(i) = IMPFOVED  $4.54 \times 0.8215 =$ 3.73 cfs

Excess Volume = 0.037 acre ft Excess Rate = 0.60 cfs

> 0.2 hr tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) =0.762 hr tp = (0.7\*tc)+((1.6-(Ad/At))/12)

Discharge Rate 3.80 cfs / acre x 0.822 =3.2049

Volume 6453 cf Discharged 6002 cf

**Pond Voulme** 450 cf





July 31, 2006

Mr. Arthur Blessen, P.E.

CLAUDIO VIGIL ARCHITECTS

1801 Rio Grande Blvd. NW

Albuquerque, NM 87104

Re: WYOMING OFFICE PARK, TRACT X-1-B-1

7930 Wyoming Blvd. NE

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 05/02/2005 (D-19/D022)

Certification dated 07/14/2006

P.O. Box 1293

Dear Mr. Blessen,

Albuquerque

Based upon the information provided in your submittal received 07/17/2006, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

New Mexico 87103

If you have any questions, you can contact me at 924-3982.

www.cabq.gov

Arlene V. Portillo

Sincerely,

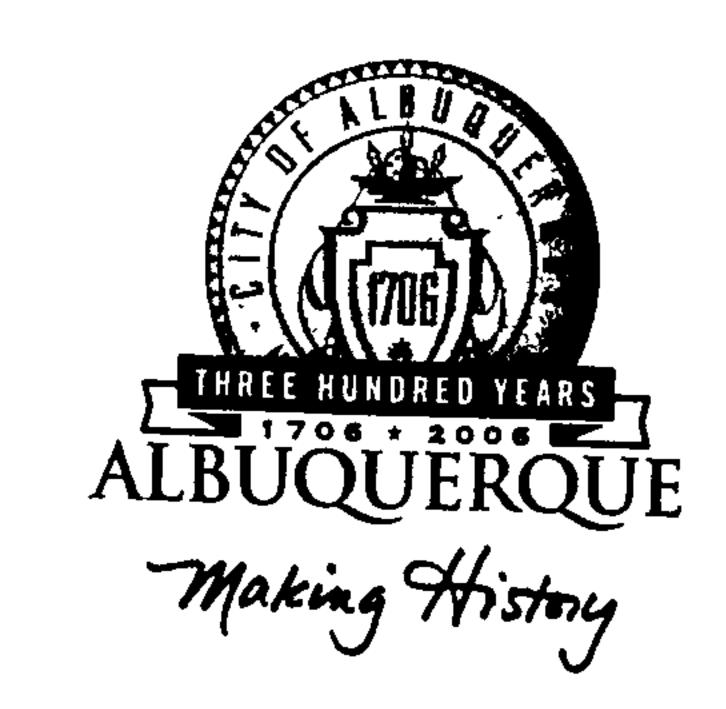
Plan Checker, Planning Dept. - Hydrology

Development and Building Services

 $\mathbf{C}$ :

CO Clerk

File



May 24, 2005

John Arthur Blessen, P.E. Claudio Vigil Architects 1801 Rio Grande Blvd. NW Albuquerque, NM 87104

Re: Office Building Shell – Wyoming Office Park, 7930 Wyoming Blvd. NE Grading and Drainage Plan - Engineer's Stamp dated 5-2-05 (D19-D22)

Dear Mr. Blessen,

Based upon the information provided in your submittal dated 5-10-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to release of the Certificate of Occupancy an Engineer's Certification of the grading plan per the DPM checklist will be required.

P.O. Box 1293

If you have any questions, you can contact me at 924-3990.

Albuquerque

Sincerely,

New Mexico 87103

Phillip J. Lovato, E.I.

Associate Engineer, Planning Department Development and Building Services

www.cabq.gov

C: file

# Drainage Report

for

# Tract X-1-B North Albuquerque Acres

Wyoming Bldv. and Palomas

Albuquerque, New Mexico

August 20, 2003



# Wyoming Office Park Tract X-1-B North Albuquerque Acres

#### 1. Location

Tract X-1-B North Albuquerque Acres
Albuquerque, New Mexico
3.0 acres east side of Wyoming Bldv. south of Paseo del Norte

#### 2. Existing Site Conditions:

The existing site is undeveloped and slopes form east to west at an approximate rate of 3.5%. The site dose not lie within a flood hazard zone (Panel 137 of 825). The site is higher than lands to the south and the street to the west: the lands to the north have been developed, and the existing block wall along the east property line prevent office site flows from entering the site; therefore office site flows are considered negligible.

Two previous grading plans have been approved for this site. The first plan filed in 1988 by Tom Mann, and the second filed in 1999 by Chaves Grieves. Both submittals required that all runoff be conveyed to the Domingo Baca Channel to the south of the site, without retaining any flow.

#### 3. Developed Conditions:

The proposed development consist of four one story office buildings with associated parking and landscaping. The proposed development will be a phased constructions.

The site has been divided into five subbasins. Basin A1, B1, B2, and B3 discharge into the existing 24" diameter private storm drain which discharges into the Domingo Baca Channel. Basin C1 surface drains to the Domingo Baca Channel Right-of-Way to the south.

#### Basin A1

The flows from Basin A1 surface flows to a drop inlet located at the north drive entrance. The drop inlet discharges into the existing 24" private storm drain via a 8" pvc pipe.  $Q_{100}=3.7$  cfs.

#### Basin B1

The flows from Basin B1 surface flows to a drop inlet located at the south east corner of the side. The drop inlet discharges to the drop inlet at the south drive entrance via an 8" pvc pipe.  $Q_{100}=1.5$  cfs.

#### Basin B2 & B3

The flows from Basin B2 surface flows to a drop inlet located at the south drive entrance.

The combined runoff from basins B1, B2, & B2 discharge into the existing 24" private storm drain via a 12" dia pvc pipe  $Q_{100}=10$  cfs.

#### Basin C.

Basin C1 is comprised of the sloped grade along building C. The runoff from basin C1 sheet flows onto the Domingo Baca Channel Right-of-Way at a rate of 0.23 cfs.

#### 4. Summary / Conclusion

The proposed development will increase the volume of runoff from the site. This runoff will be discharged into the Domingo Baca Channel. The proposed runoff for the site is 14 csf (4.67 cfs per acre).

City of Albuquerque DPM 1997 edition

## WYOMING OFFICE PARK BASIN A1

Precipitation Zone 3

Basin Area = 0.822 acres

Existing			Improved Condit	ions	
Treatment			Treatment		
Area of A =	0 sf	0%	Area of A =	0 sf	0%
Area of B =	0 sf	0%	Area of B =	7141 sf	20%
Area of C =	35785 sf	100%	Area of C =	0 sf	0%
Area of D =	0 sf	0%	Area of D =	28644 ef	80%

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

Existing Co	onditions	•	Improved Conditions						
Treatment	%	of Area	E	:n	Treatment	% of Area		En	
	Α	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00	
	В	0.00 x	0.912 =	0.00	В	0.20 x	0.912 =	0.18	
	C	1.00 x	1.29 =	1.29	C	0.00 x	1.29 =	0.00	
	D	0.00 x	2.36 =	0.00	D	0.80 x	2.36 =	1.89	
			E =	1.29			E =	2.07	
Volume V =	= E A / 12								
	Ve =	1.290 x	0.822 /	12 =	0.088 a	cre ft	3847 cf		

0.142 acre ft

6176 cf

Discharge Rate, Q (cfs / acre) 100 vr storm table A-9

0.0		(0.0) (0.0)	yı olunm ta	ひらして				
Treatment % of A		% of Area	of Area Q		Treatment	% of Area		<b>3</b>
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.20 x	2.6 =	
	С	1.00 x	3.45 =	3.45	С	0.00 x		
	D	0.00 x	5.02 =	0.00	D	0.80 x	5.02 =	
			<b>q</b> =	3.45			<b>a</b> =	4.54
Dook Data C	<b>)</b> ~ ~ ~ 4						•	

Peak Rate Qp = q A

 $Qp(e) = 3.45 \times 0.822 = 2.83 \text{ cfs}$  $Qp(i) = 4.54 \times 0.822 = 3.73 \text{ cfs}$ 

2.071 x 0.822 /

Excess Volume = 0.053 acre ft Excess Rate = 0.89 cfs

Vi =

tc = 0.2 hr

tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) = 0.762 hrtp = (0.7\*tc)+((1.6-(Ad/At))/12) = 0.207 hr

Discharge Rate 4.54 cfs / acre x 0.822 = 3.7297

Volume 6453 cf Discharged - 6454 cf

Pond Voulme -2 cf

#### TRACK X-1-B North Albuquerque Acres

## **Drainage Calculation**

City of Albuquerque DPM 1997 edition

#### WYOMING OFFICE PARK BASIN B1

Precipitation Zone 3

Basin Area = 0.320 acres

Existing Improved Conditions
Treatment Treatment

Area of A =0 **sf** 0% Area of A =0 sf 0% Area of B =0 **sf** 0% Area of B = 2595 sf 19% 13920 **sf** Area of C = 100% Area of C = 0 **sf** 0% Area of D =0 sf 0% Area of D =11325 sf

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

**Existing Conditions** Improved Conditions Treatment % of Area En % of Area Treatment En Α 0.00 x0.66 =0.00 0.00 x0.66 =0.00 Α В 0.00 x0.912 =В 0.00 0.19 x0.912 =0.17 1.00 x 1.29 =1.29 0.00 x1.29 = 0.00 D 0.00 x2.36 =0.00 D 0.81 x2.36 = 1.92 E =1.29 2.09 Volume V = EA/12

Ve =  $1.290 \times 0.32 /$  12 = 0.034 acre ft 1496 cf Vi =  $2.090 \times 0.32 /$  12 = 0.056 acre ft 2424 cf

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

Treatment % of Area		C	)	Treatment	% of Area	Q		
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.19 x	2.6 =	0.48
	C	1.00 x	3.45 =	3.45	C	0.00 x	3.45 =	0.00
	D	0.00 x	5.02 =	0.00	D	0.81 x	5.02 =	4.08
			<b>q</b> =	3.45			<b>q</b> =	4.57
		•						

Peak Rate Qp = q A

Qp(e) = 3.45 x 0.32 = 1.10 cfsQp(i) = 4.57 x 0.32 = 1.46 cfs

Excess Volume = 0.021 acre ft Excess Rate = 0.36 cfs

tc = 0.2 hr

tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) = 0.760 hrtp = (0.7\*tc)+((1.6-(Ad/At))/12) = 0.206 hr

Discharge Rate  $4.57 \text{ cfs / acre } \times 0.320 = 1.4604$ 

Volume 2533 cf Discharged - 2533 cf

Pond Voulme 0 cf

City of Albuquerque DPM 1997 edition

## WYOMING OFFICE PARK BASIN B2

Precipitation Zone 3

Basin Area = 1.467 acres

Existing Improved Conditions -Treatment Treatment Area of A =0 sf 0% Area of A =0 **sf** 0% Area of B =0 **sf** 0% Area of B =8177 sf 13% Area of C =63924 sf 100% Area of C = 0 **sf** 0% Area of D =0 sf 0% Area of D =55747 sf 87%

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

Existing Cond	ditions				Improved Con	ditions		
Treatment		% of Area	E	n	Treatment	% of Area	E	∃n
	Α	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00
	В	0.00 x	0.912 =	0.00	В	0.13 x	0.912 =	0.12
	C	1.00 x	1.29 =	1.29	C	0.00 x	1.29 =	0.00
	D	0.00 x	2.36 =	0.00	D	0.87 x	2.36 =	2.06
			E =	1.29			E =	2.17
Volume V = E	E A / 12	) •						
	Ve =	1.290 x	1.467 /	12 =	0.158 a	cre ft	6872 cf	
	Vi =	2.175 x	1.467 /	12 =			11585 cf	

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

Treatment	Treatment % of Area		G	)	Treatment	% of Area	Q	
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.13 x	2.6 =	0.33
	C	1.00 x	3.45 =	3.45	С	0.00 x	3.45 =	
•	D	0.00 x	5.02 =	0.00	D	0.87 x	5.02 =	4.38
			<b>q</b> =	3.45			<b>a</b> =	4.71
Dook Data C	<b>۸</b> ـ ـ ـ ۸						-•	

Peak Rate Qp = q A

 $Qp(e) = 3.45 \times 1.467 = 5.06 \text{ cfs}$  $Qp(i) = 4.71 \times 1.467 = 6.91 \text{ cfs}$ 

Excess Volume = 0.108 acre ft Excess Rate = 1.85 cfs

tc = 0.2 hr

tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) = 0.755 hrtp = (0.7\*tc)+((1.6-(Ad/At))/12) = 0.201 hr

Discharge Rate 4.71 cfs / acre x = 1.467 = 6.9119

Volume 12104 cf Discharged - 12103 cf

Pond Voulme 1 cf

City of Albuquerque DPM 1997 edition

## WYOMING OFFICE PARK BASIN B3

Precipitation Zone Basin Area 0.323 acres

Existing			Improved Condit	ions	
Treatment			Treatment		
Area of A =	0 sf	0%	Area of A =	0 s <b>f</b>	0%
Area of B =	0 <b>sf</b>	0%	Area of B =	1374 sf	10%
· Area of C =	14088 <b>sf</b>	100%	Area of C =	0 sf	0%
Area of D =	0 sf	0%	Area of D =	12714 sf	90%

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

		,	_ <b>- </b>					
Existing Condit	ions		Improved Conditions					
Treatment	% of Area	E	Ξn	Treatment	% of Area	1	En	
	A 0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00	
	0.00 x	0.912 =	0.00	В	0.10 x	0.912 =	–	
	C 1.00 x	1.29 =	1.29	С	0.00 x	1.29 =	0.00	
	D 0.00 x	2.36 =	0.00	D	0.90 x	2.36 =	2.13	
		E =	1.29			E =	2.22	
Volume V = E /	4/12							
V	e = 1.290 x	0.323 /	12 =	0.035 a	cre ft	1514 cf		
V	i = 2.219 x	0.323 /	12 =			2605 cf		

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

Treatment	9	% of Area		<b>Q</b>	Treatment	% of Area		<b>C</b>
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	0.00
	В	0.00 x	2.6 =	0.00	В	0.10 x	2.6 =	_
•	С	1.00 x	3.45 =	3.45	С	0.00 x	3.45 =	
	D	0.00 x	5.02 =	0.00	D	0.90 x	5.02 =	
			<b>q</b> =	3.45				4.78
Peak Rate C	$\Delta n = \alpha \Delta$						٦	•

Qp(e) = $3.45 \times 0.323 =$ 1.12 cfs Qp(i) = $4.78 \times 0.323 =$ 1.55 cfs

Excess Volume = 0.025 acre ft Excess Rate = 0.43 cfs

> tc = 0.2 hr

tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) =0.752 hr (0.7\*tc)+((1.6-(Ad/At))/12) 0.198 hr

Discharge Rate 4.78 cfs / acre x 0.323 =1.5459

Volume 2722 cf Discharged 2720 cf

Pond Voulme 1 cf

City of Albuquerque DPM 1997 edition

## WYOMING OFFICE PARK BASIN C1

Precipitation Zone 3
Basin Area = 0.068 acres

Existing			Improved Condition	ons	
Treatment			Treatment		
Area of A =	0 sf	0%	Area of A =	0 sf	0%
Area of B =	0 <b>sf</b>	0%	Area of B =	0 sf	0%
Area of C =	2961 sf	100%	Area of C =	2961 <b>s</b> f	100%
Area of D =	0 sf	0%	Area of D =	0 sf	0%

Excess Precipitation, E (inches) 6 hr - 100 yr storm table A-8

Existing Conditions			Improved Conditions					
Treatment	•	% of Area	En		Treatment	% of Area	En	
	Α	0.00 x	0.66 =	0.00	Α	0.00 x	0.66 =	0.00
	В	0.00 x	0.912 =	0.00	В	0.00 x	0.912 =	0.00
	С	1.00 x	1.29 =	1.29	С	1.00 x	1.29 =	1.29
	D	0.00 x	2.36 =	0.00	D	0.00 x	2.36 =	0.00
• • • <u>-</u> -			E =	1.29			E =	1.29
Volume V =	EA/12							
	Ve =	1.290 x	0.068 /	12 =	0.007 a	cre ft	318 cf	
	Vi =	1.290 x	0.068 /	12 =			318 cf	

Discharge Rate, Q (cfs / acre) 100 yr storm table A-9

Trantmont		n/ -c						
Treatment	% of Area		Q		Treatment	% of Area	O	
	Α	0.00 x	1.87 =	0.00	Α	0.00 x	1.87 =	ຼ ດ ດດ
	В	0.00 x	2.6 =	0.00	В	0.00 x	2.6 =	_
	С	1.00 x	3.45 =	3.45	С	1.00 x	3.45 =	
	D	0.00 x	5.02 =	0.00	D	0.00 x	5.02 =	_
			<b>q</b> =	3.45			a =	3.45
Peak Rate On	A n = 1						4	<b>0.10</b>

 $Qp(e) = 3.45 \times 0.068 = 0.23 \text{ cfs}$  $Qp(i) = 3.45 \times 0.068 = 0.23 \text{ cfs}$ 

Excess Volume = 0.000 acre ft Excess Rate = 0.00 cfs

tc = 0.2 hr th = (2.407 \*E\*A\*(0-) (0.00\*A\*)

tb = (2.107 \*E\*At/Qp)-(0.25\*Ad/At) = 0.788 hrtp = (0.7\*tc)+((1.6-(Ad/At))/12) = 0.273 hr

Discharge Rate 3.45 cfs / acre x 0.068 = 0.2345

Volume 333 cf Discharged - 333 cf

Pond Voulme 0 cf

### Flow Through Pipe

		Pipe Ca per Mannin PVC Pipe	pacity g Equation		Q=(1.486/n)(slope)^0.5 (Area)(Hydralic Radius)^0.67					
		n =	0.009		Area=	0.35	sq ft			
		slope =	0.0285	ft/ft	Rh=	0.17	ft	-		
		Pipe Dia =	8	in	Qfull=	2.95				
				Pipe Dia in	Qmax=	3.18 cfs				
		Slope	A	_	(3)	40	8	40	~ 4	
	0.4004		4	6	8	10	12	18	24	
	0.10%			0.256	0.552	1.001	1.627	4.798	10.333	
	0.50%	0.005	0.194	0.573	1.234	2.238	3.639	10.729	23.106	
	1.00%	0.010	0.275	0.810	1.745	3.165	5.146	15.173	32.677	
	1.50%	0.015	0.337	0.993	2.138	3.876	6.303	18.583	40.021	
	2.00%	0.020	0.389	1.146	2.468	4.476	7.278	21.458	46.212	
5)-	2.50%	0.025	0.435	1.281	2.760	5.004	8.137	23.991	51.667	
	3.00%	0.030	0.476	1.404	3.023	5.482	8.914	26.280	56.598	
	3.50%	0.035	0.514	1.516	3.266	5.921	9.628	28.386	61.133	
B	4.00%	0.040	0.550	1.621	3.491	6.330	10.293	30.346	65.354	
	5.00%	0.050	0.615	1.812	3.903	7.077	11.507	33.928	73.068	
	5.50%	0.055	0.645	1.901	4.094	7.422	12.069	35.584	76.634	
	6.00%	0.060	0.673	1.985	4.276	7.752	12.606	37.166	80.041	
	6.50%	0.065	0.701	2.066	4.450	8.069	13.120	38.684	83.310	
	7.00%	0.070	0.727	2.144	4.618	8.373	13.616	40.144	86.455	
	7.50%	0.075	0.753	2.220	4.780	8.667	14.094	41.553	89.489	
	8.00%	0.080	0.778	2.292	4.937	8.951	14.556	42.916	92.424	
	8.50%	0.085	0.801	2.363	5.089	9.227	15.004	44.236	95.268	
	9.00%	0.090	0.825	2.431	5.236	9.494	15.439	45.519	98.030	
•	10.00%	0.100	0.869	2.563	5.520	10.008	16.274	47.981	103.333	
2	20.00%	0.200	1.229	3.625	7.806	14.153	23.015	67.855	146.135	
	30.00%	0.300	1.506	4.439	9.560	17.334	28.187	83.106	178.978	
4	10.00%	0.400	1.739	5.126	11.039	20.016	32.548	95.962	206.666	



# Planning Department Transportation Development Services Section

January 26, 2007

Claudio Antonio Vigil, Registered Architect 1801 Rio Grande NW Albuquerque, NM 87104

Re:

Certification Submittal for Final Building Certificate of Occupancy for

Wyoming Office Park (Bldg B), [D-19 / D22]

7920 Wyoming NE

Architect's Stamp Dated 01/25/07

Dear Mr. Vigil:

P.O. Box 1293

The TCL / Letter of Certification submitted on January 25, 2007 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

, 4

Albuquerque

Sincerely,

New Mexico 87103

Nilo E. Salgado-Fernandez, P.E.

Senior Traffic Engineer

www.cabq.gov

Development and Building Services

Planning Department

c: Engineer

Hydrology file CO Clerk



January 25, 2007

Nilo Salgado-Fernandez Development & Building Services Division 600 2nd St. NW Albuquerque, New Mexico

Traffic Certification RE: Office Building 7920 Wyoming Blvd. NE

Dear Mr. Salgado-Fernandez:

On January 25, 2007, this office inspected the site of the above-mentioned office building. All work necessary to support the facility has been completed, and the site work is in substantial compliance with the DRB approved Site Plan. Noted below are the items still in progress. This work is scheduled to be completed by January 31, 2007.

The guardrail and handrails at stair and ramp have not been installed.

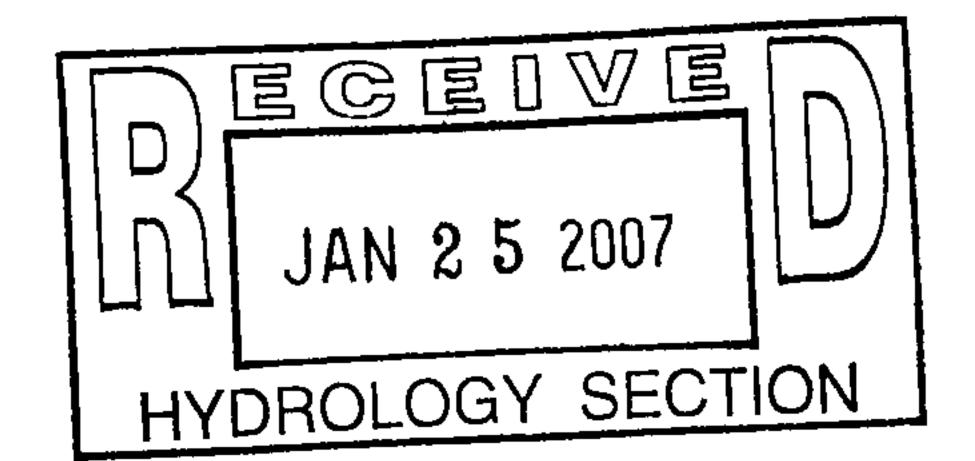
The work is complete, except as noted above, and ready for a Final Certificate of Occupancy.

Occupancy.

Sincerely,

Claudio Vigil

Architect





# Planning Department Transportation Development Services Section



August 29, 2007

Claudio Antonio Vigil, Registered Architect 1801 Rio Grande Blvd NW Albuquerque, NM 87104

Re:

Certification Submittal for Final Building Certificate of Occupancy for

Wyoming Office Park (Bldg C), [D-19 / D22]

7910 Wyoming Blvd

Architect's Stamp Dated 08/28/07

P.O. Box 1293

Dear Mr. Vigil:

\$incerely,

The TCL / Letter of Certification submitted on August 28, 2007 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Albuquerque

New Mexico 87103

oliN V

www.cabq.gov

Nilo E. Salgado-Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

Planning Department

C:

Engineer
Hydrology file
CO Clerk



August 28, 2007

Traffic Engineer Development and Building Services 600 2nd. St. N.W Albuquerque, New Mexico

TRAFFIC CERTIFICATION RE:

Wyoming Office Park, Office Building

7910 Wyoming Blvd. NE

To whom it may concern:

I, Claudio Vigil, NM Registered Architect 1236, of the firm Claudio Vigil Architects, hereby certify that this project is in substantial compliance with and in accordance with the design intent of DRB approved site plan and permit set. The record information documented and edited onto the approved DRB Site Plan has been obtained by Ed Avila of the firm Claudio Vigil Architects. I further certify that I have personally visited the project site on August 27, 2007 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Certificate of Occupancy.

All work necessary to support the facility has been completed, and is in substantial compliance with the approved TCL.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any

other purpose.

Date

ENGINEER'S OR ARCHITECT'S STAMP