

JOB # 03-0204

DATE 3/9/2004

RANCHOS DE CANDELARIA SUBDIVISION LAND USE

FACTOR
45%

Land Treatments in
acre-feet

LOT #	TOTAL AREA	ALLOWABLE IMPERVEIOUS AREA 45% OF TOTAL	PAVEMENT	DRIVE PAD	WALKS	MAXIMUM HOUSE PAD	IMPERVEIOUS AREA SQ FEET	D	C
1	11966.13	5384.76	322.9747	1335	400	3000	5057.9747	0.1161	0.1586
2	11966.86	5385.09	884.9805	400	400	3000	4684.9805	0.1076	0.1672
3	15777.83	7100.02	3801.0893	400	400	2475	7076.0893	0.1624	0.1998
4	10235.01	4605.75	601.6306	400	400	3000	4401.6306	0.1010	0.1339
5	11561.71	5202.77	611.8467	400	400	3000	4411.8467	0.1013	0.1641
6	12630.99	5683.95	2277.0813	400	400	2475	5552.0813	0.1275	0.1625
7	10886.17	4898.78	597.4606	400	400	3000	4397.4606	0.1010	0.1490
8	10890	4900.50	1209.1587	400	400	2700	4709.1587	0.1081	0.1419
A	9872.664	4442.70	3201.4433	0	0	0	3201.4433	0.0735	0.1531
B	5251.269	2363.07	2266.8956	0	0	0	2266.8956	0.0520	0.0685

Sub totals	1.0505	1.4986
Totals	2.5491	

JOB # 03-0204

DATE 3/9/2004

RANCHOS DE CANDELARIA PONDING CALCULATION

										P_{360} 2.35
Weighted E	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad	1.548416454	Lot 1 ponding Volume in cubic Ft.
	0	0	0	0	1.13	0.16	2.12	0.12		
	0		0		0.1586		0.1161			
	Aa		Ab		Ac		Ad			
$V_{360}=$	0.035446	acre-feet								1544.026668
$V_{6hr}=$	V_{360} 0.035446	0	0	2.35	12	0.035446 acre-feet				

Weighted E	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad	1.517641921	Lot 2 ponding Volume in cubic Ft.
	0	0	0	0	1.13	0.17	2.12	0.11		
	0		0		0.1672		0.1076			
	Aa		Ab		Ac		Ad			
$V_{360}=$	0.034754	acre-feet								1513.890287
$V_{6hr}=$	V_{360} 0.034754	0	0	2.35	12	0.034754 acre-feet				

Weighted E	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad	1.569240751	Lot 3 ponding Volume in cubic Ft.
	0	0	0	0	1.13	0.2	2.12	0.16		
	0		0		0.1998		0.1624			
	Aa		Ab		Ac		Ad			
$V_{360}=$	0.047365	acre-feet								2063.224011
$V_{6hr}=$	V_{360} 0.047365	0	0	2.35	12	0.047365 acre-feet				

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.13	2.12	0.1		
Weighted E	0		0		0.1339		0.101		1.555670498	Lot 4 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360}=$	0.030452		acre-feet							1326.505309
$V_{6hr}=$	$\frac{V_{360}}{0.030452}$		0	0	2.35	12			0.030452	acre-feet

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.1		
Weighted E	0		0		0.1641		0.1013		1.507871138	Lot 5 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360}=$	0.033349		acre-feet							1452.691873
$V_{6hr}=$	$\frac{V_{360}}{0.033349}$		0	0	2.35	12			0.033349	acre-feet

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.13		
Weighted E	0		0		0.1625		0.1275		1.558724138	Lot 6 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360}=$	0.037669		acre-feet							1640.875454
$V_{6hr}=$	$\frac{V_{360}}{0.037669}$		0	0	2.35	12			0.037669	acre-feet

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E	0		0		0.149		0.101		1.52996	Lot 7 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360}=$	0.031874		acre-feet							1388.444246
$V_{6hr}=$	$\frac{V_{360}}{0.031874}$		0	0	2.35	12			0.031874	acre-feet

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E	0		0		0.1419		0.1029		1.570142974	Lot 8 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
V ₃₆₀ =	0.032031		acre-feet							1395.272303
	V ₃₆₀								0.032031	acre-feet
V _{6hr} =	0.032031		0	0	2.35	12				
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.07		
Weighted E	0		0		0.1531		0.0735		1.451116505	Lot A ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
V ₃₆₀ =	0.027402		acre-feet							1193.632258
	V ₃₆₀								0.027402	acre-feet
V _{6hr} =	0.027402		0	0	2.35	12				
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.07	2.12	0.05		
Weighted E	0		0		0.0685		0.052		1.557219917	Lot B ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
V ₃₆₀ =	0.015637		acre-feet							681.1540709
	V ₃₆₀								0.015637	acre-feet
V _{6hr} =	0.015637		0	0	2.35	12				

$V_{1440} = 0.035446$ acre-feet

1712.604541

$V_{24_{hr}} = \frac{V_{360} + A_d \cdot (P_{1440} - P_{360})}{12 \text{ in/ft}} = 0.035446 \cdot 0.12 \cdot 2.75 \cdot 2.35 \cdot 12 = 0.039316 \text{ acre-feet}$

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.17	2.12	0.11		
Weighted E	0		0		0.1672		0.1076		1.517641921	Lot 2 ponding Volume in cubic Ft.
	Aa		Ab		Ac		Ad			

$V_{1440} = 0.034754$ acre-feet

1670.126111

$V_{24_{hr}} = \frac{V_{360} + A_d \cdot (P_{1440} - P_{360})}{12 \text{ in/ft}} = 0.034754 \cdot 0.11 \cdot 2.75 \cdot 2.35 \cdot 12 = 0.038341 \text{ acre-feet}$

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.2	2.12	0.16		
Weighted E	0		0		0.1998		0.1624		1.569240751	Lot 3 ponding Volume in cubic Ft.
	Aa		Ab		Ac		Ad			

$V_{1440} = 0.047365$ acre-feet

2299.029753

$V_{24_{hr}} = \frac{V_{360} + A_d \cdot (P_{1440} - P_{360})}{12 \text{ in/ft}} = 0.047365 \cdot 0.16 \cdot 2.75 \cdot 2.35 \cdot 12 = 0.052778 \text{ acre-feet}$

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.13	2.12	0.1		
Weighted E	0		0		0.1339		0.101		1.555670498	Lot 4 ponding Volume in cubic Ft.
	Aa		Ab		Ac		Ad			
$V_{1440} =$	0.030452		acre-feet							1473.157894
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	$/12 \text{ in/ft}$					0.033819	acre-feet
	0.030452	0.1	2.75	2.35	12					
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.1		
Weighted E	0		0		0.1641		0.1013		1.507871138	Lot 5 ponding Volume in cubic Ft.
	Aa		Ab		Ac		Ad			
$V_{1440} =$	0.033349		acre-feet							1599.78006
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	$/12 \text{ in/ft}$					0.036726	acre-feet
	0.033349	0.1	2.75	2.35	12					
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.13		
Weighted E	0		0		0.1625		0.1275		1.558724138	Lot 6 ponding Volume in cubic Ft.
	Aa		Ab		Ac		Ad			
$V_{1440} =$	0.037669		acre-feet							1826.006194
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	$/12 \text{ in/ft}$					0.041919	acre-feet
	0.037669	0.13	2.75	2.35	12					
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E	0		0		0.149		0.101		1.52996	Lot 7 ponding Volume in cubic Ft.
	Aa		Ab		Ac		Ad			
$V_{1440} =$	0.031874		acre-feet							1535.096832
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	$/12 \text{ in/ft}$					0.035241	acre-feet
	0.031874	0.1	2.75	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E	0		0		0.1419		0.1029		1.570142974	Lot 8 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{1440} =$	0.032031		acre-feet							1544.6837
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft					0.035461	acre-feet
	0.032031	0.1	2.75	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.07		
Weighted E	0		0		0.1531		0.0735		1.451116505	Lot A ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{1440} =$	0.027402		acre-feet							1300.354684
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft					0.029852	acre-feet
	0.027402	0.07	2.75	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.07	2.12	0.05		
Weighted E	0		0		0.0685		0.052		1.557219917	Lot B ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{1440} =$	0.015637		acre-feet							756.6583725
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft					0.01737	acre-feet
	0.015637	0.05	2.75	2.35	12					

JOB # 03-0204

DATE 3/9/2004

RANCHOS DE CANDELARIA PONDING CALCULATION

										P ₃₆₀ 2.35	P _{10DAYS} 3.95
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.16	2.12	0.12			
Weighted E	0		0		0.1586		0.1161		1.548416454		
	Aa		Ab		Ac		Ad			Lot 1 ponding	
										Volume in cubic Ft.	
V ₃₆₀ =	0.035446		acre-feet							2218.338161	
	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.050926	acre-feet	
V _{10days} =	0.035446	0.12	3.95	2.35	12						

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.17	2.12	0.11			
Weighted E	0		0		0.1672		0.1076		1.517641921		
	Aa		Ab		Ac		Ad			Lot 2 ponding	
										Volume in cubic Ft.	
V ₃₆₀ =	0.034754		acre-feet							2138.833584	
	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.049101	acre-feet	
V _{10days} =	0.034754	0.11	3.95	2.35	12						

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.2	2.12	0.16			
Weighted E	0		0		0.1998		0.1624		1.569240751		
	Aa		Ab		Ac		Ad			Lot 3 ponding	
										Volume in cubic Ft.	
V ₃₆₀ =	0.047365		acre-feet							3006.446979	
	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.069018	acre-feet	
V _{10days} =	0.047365	0.16	3.95	2.35	12						

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E	0		0		0.1419		0.1029		1.570142974	Lot 8 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360} =$	0.032031		acre-feet							1992.917891
$V_{10days} =$	V_{360}	$+A_d$	$*(P_{10days} - P_{360})$	/12 in/ft					0.045751	acre-feet
	0.032031	0.1	3.95	2.35	12					
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.07		
Weighted E	0		0		0.1531		0.0735		1.451116505	Lot A ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360} =$	0.027402		acre-feet							1620.521963
$V_{10days} =$	V_{360}	$+A_d$	$*(P_{10days} - P_{360})$	/12 in/ft					0.037202	acre-feet
	0.027402	0.07	3.95	2.35	12					
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.07	2.12	0.05		
Weighted E	0		0		0.0685		0.052		1.557219917	Lot B ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360} =$	0.015637		acre-feet							983.1712773
$V_{10days} =$	V_{360}	$+A_d$	$*(P_{10days} - P_{360})$	/12 in/ft					0.02257	acre-feet
	0.015637	0.05	3.95	2.35	12					



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 31, 2004

Richard Lovato, PE
NM Quality Consultants
1016 San Pedro Dr. NE
Albuquerque, NM 87109

**Re: Rancho de Candelaria Subdivision Grading and Drainage Plan
Engineer's Stamp dated 3-9-04 (G13/D23)**

Dear Mr. Lovato,

Based upon the information provided in your submittal dated 3-9-04, the above referenced plan cannot be approved for Preliminary Plat action by the DRB. Once that board approves the plan, please submit a mylar copy for my signature in order to obtain a Grading Permit.

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 please feel free to call the Municipal Development Department, Hydrology section at 768-3654 (Charles Caruso) or 768-3645 (Bryan Wolfe).

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

Sincerely,

Bradley L. Bingham, PE
Principal Engineer, Hydrology
Development and Building Services

C: Chuck Caruso
file

NEW MEXICO
QUALITY CONSULTANTS
CONSTRUCTION MANAGEMENT
SURVEYING
&
CIVIL ENGINEERING



March 9, 2004

Brad Bingham, PE
City of Albuquerque, Hydrology
Development and Building Services
PO Box 1293
Albuquerque, New Mexico 87103

Subject: **Ranchos de Candelaria Subdivision Grading and Drainage Plan**
(G13/D23)

Dear Mr. Bingham,

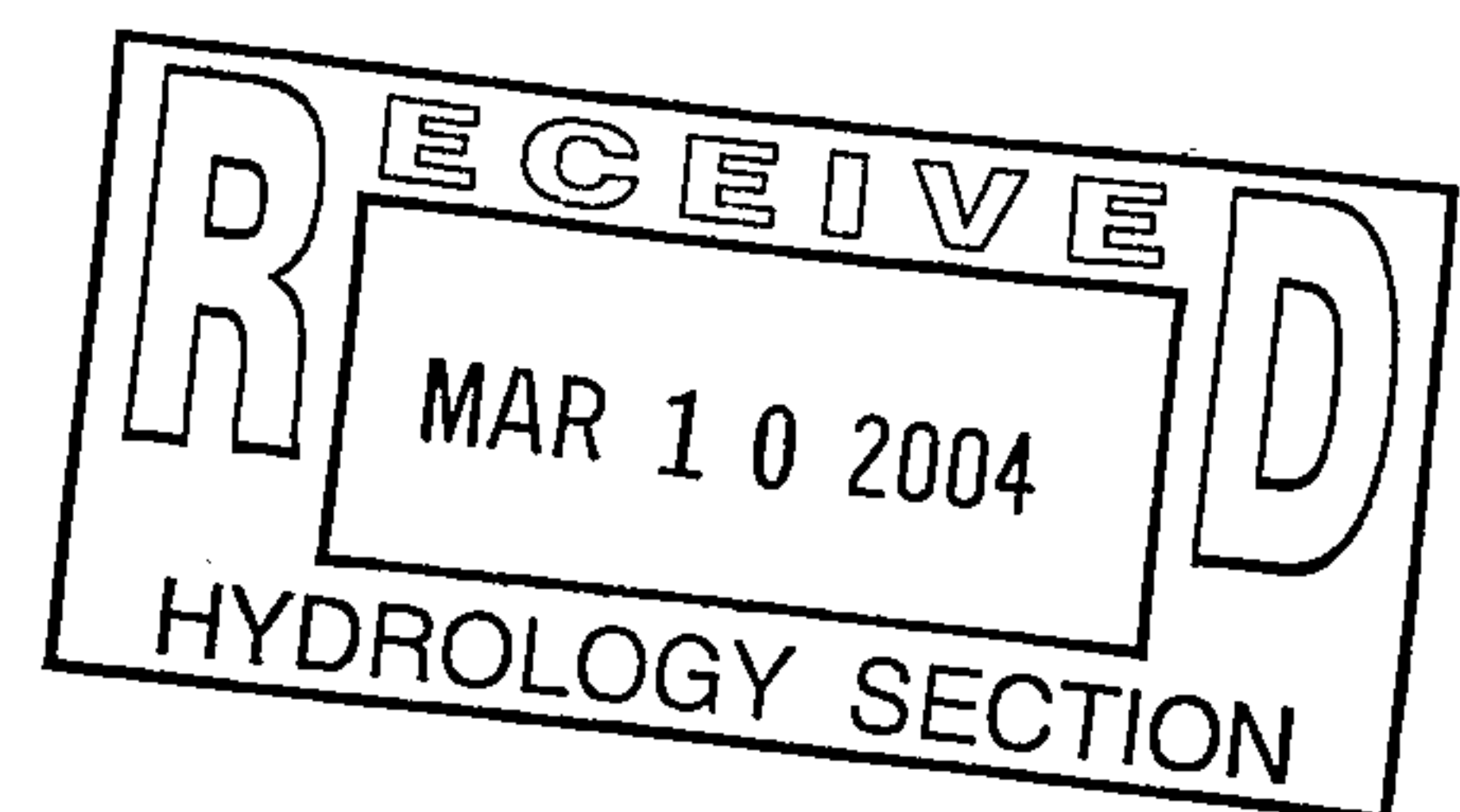
Transmitted herewith are two copies of the updated Grading and Drainage plan and supporting calculations for the subject development.

This plan has been revised in accordance with our meeting with you on February 18, 2004. We addressed all the criteria for the "flat grading scheme" design and provided ponding for 100 year, 10-day storm as required.

We trust that this plan will now meet with your approval. Please call me at 28-8711 if you have any questions or need anything further.

Sincerely,

Richard Lovato PE/PS,



Cc: File 2003-0204
Billy Holler

(REV. 1/28/2003rd)

G-13/D23

LEGAL DESCRIPTION: TRACT A RIMA ADDITION & TRACT A1 LANDS of Coronado Garcia
CITY ADDRESS: RANCHOS DE CAMPECARUA SUBD.

CONTACT: RICHARD HOWARD
PHONE: 228-8711
ZIP CODE: 87110

CONTACT: Bill Holler
PHONE: 792-4533
ZIP CODE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTACT: GEORGE MARINET
PHONE: 842-6579
ZIP CODE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF APPROVAL SOUGHT:

- ☒ SIA / FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY (PERM.)
☐ CERTIFICATE OF OCCUPANCY (TEMP.)
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ OTHER (SPECIFY) _____

☒ YES
☐ NO
☐ COPY PROVIDED

APPROVAL
APPROVAL
FY)

RECEIVED

MAR 10 2004

HYDROLOGY SECTION

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

PROJECT TITLE: RANCHO DE CANDELARIA ZONE MAP: G-137-1023
 DRB#: 1002798 EPC#: _____ WORK ORDER#: 742581

LEGAL DESCRIPTION: RANCHO DE CANDELARIA SUBDIVISION
 CITY ADDRESS: ALBUQUERQUE, N.MEX.

ENGINEERING FIRM: NEW MEXICO QUALITY CONSULTANTS CONTACT: RICHARD LOVATO
 ADDRESS: 1016 SAN PEDRO DR NE PHONE: 228-8711
 CITY, STATE: ALBUQ. N.MEX. ZIP CODE: 87110

OWNER: BILLY HOLLER CONTACT: Billy Holler
 ADDRESS: 1122 ORTEGA NW PHONE: 792-4533
 CITY, STATE: ALBUQ. N.MEX. ZIP CODE: 87114

ARCHITECT: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: NEW MEXICO QUALITY CONSULTANTS CONTACT: RICHARD LOVATO
 ADDRESS: 1016 SAN PEDRO DR NE PHONE: 228-8711
 CITY, STATE: ALBUQ. N.MEX. ZIP CODE: 87110

CONTRACTOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:
☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☐ ENGINEER'S CERT (TCL)
☐ ENGINEER'S CERT (DRB SITE PLAN)
☐ OTHER (SPECIFY) _____

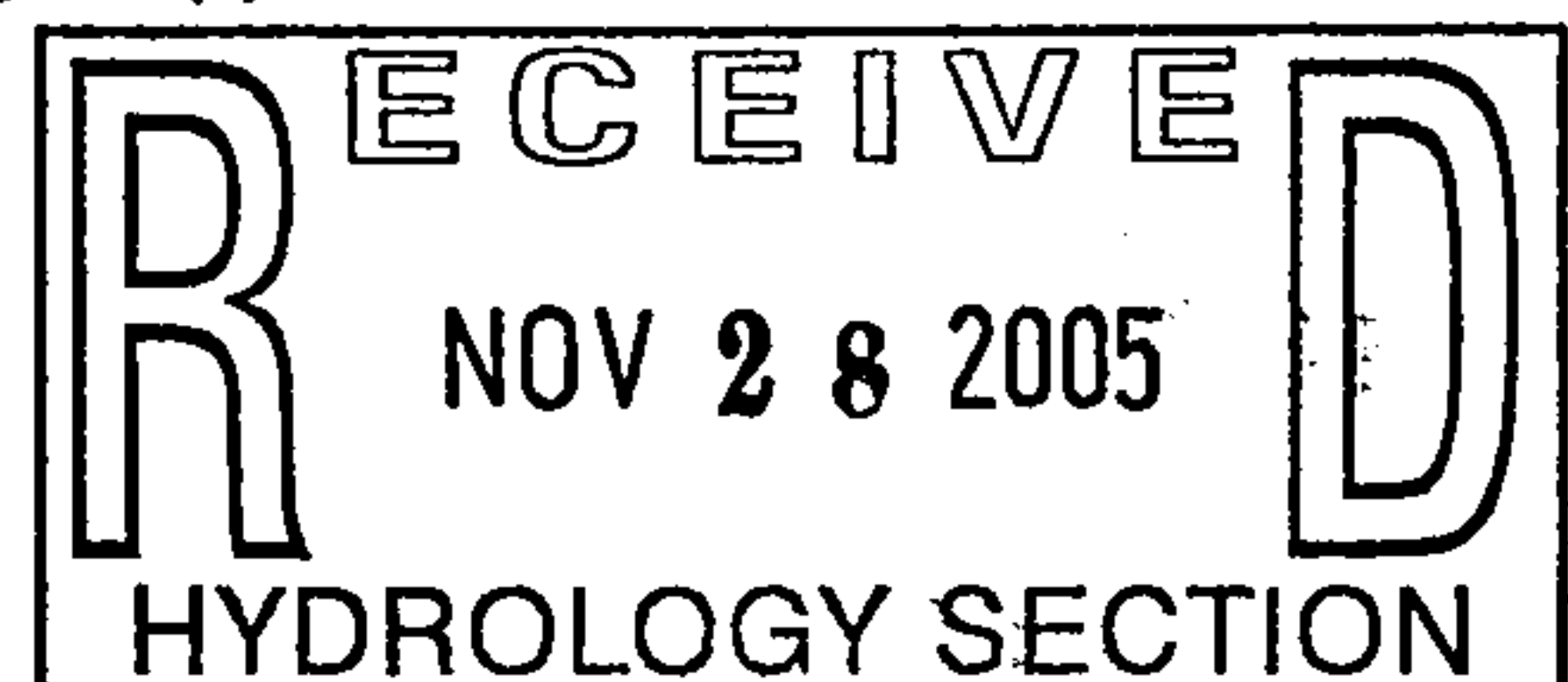
CHECK TYPE OF APPROVAL SOUGHT:
☒ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED:
☐ YES
☐ NO
☐ COPY PROVIDED

DATE SUBMITTED: 11-28-05 BY: Billy Holler

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

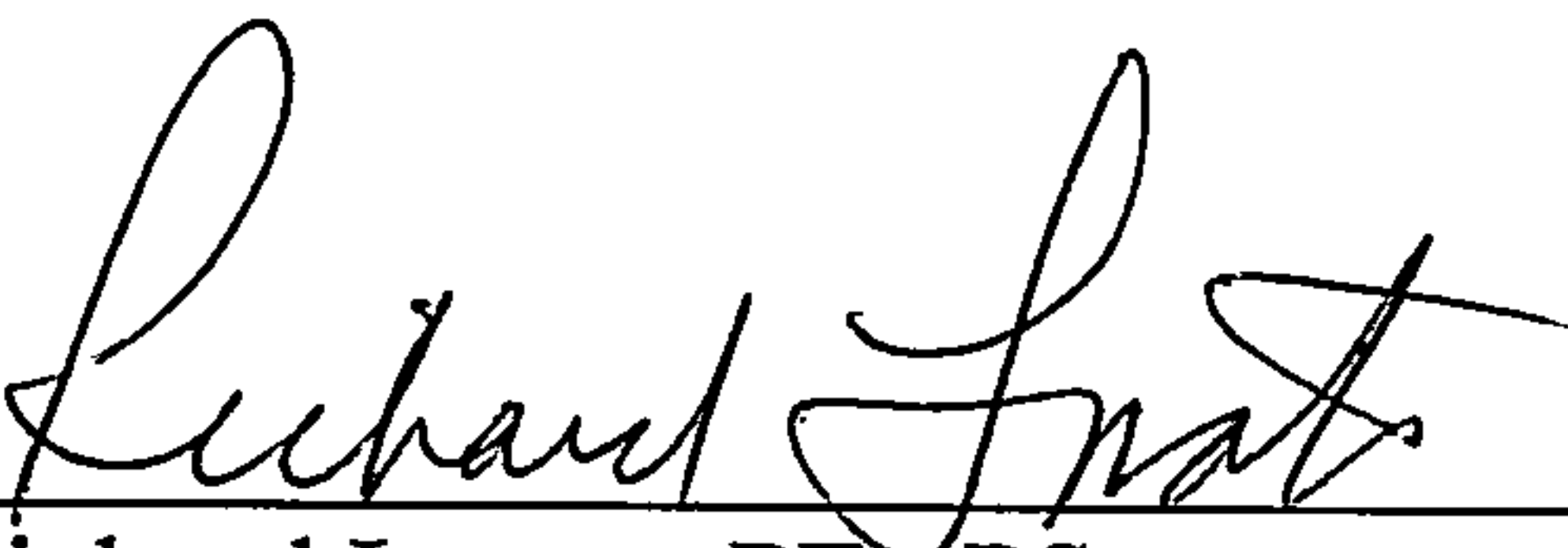


DRAINAGE CERTIFICATION

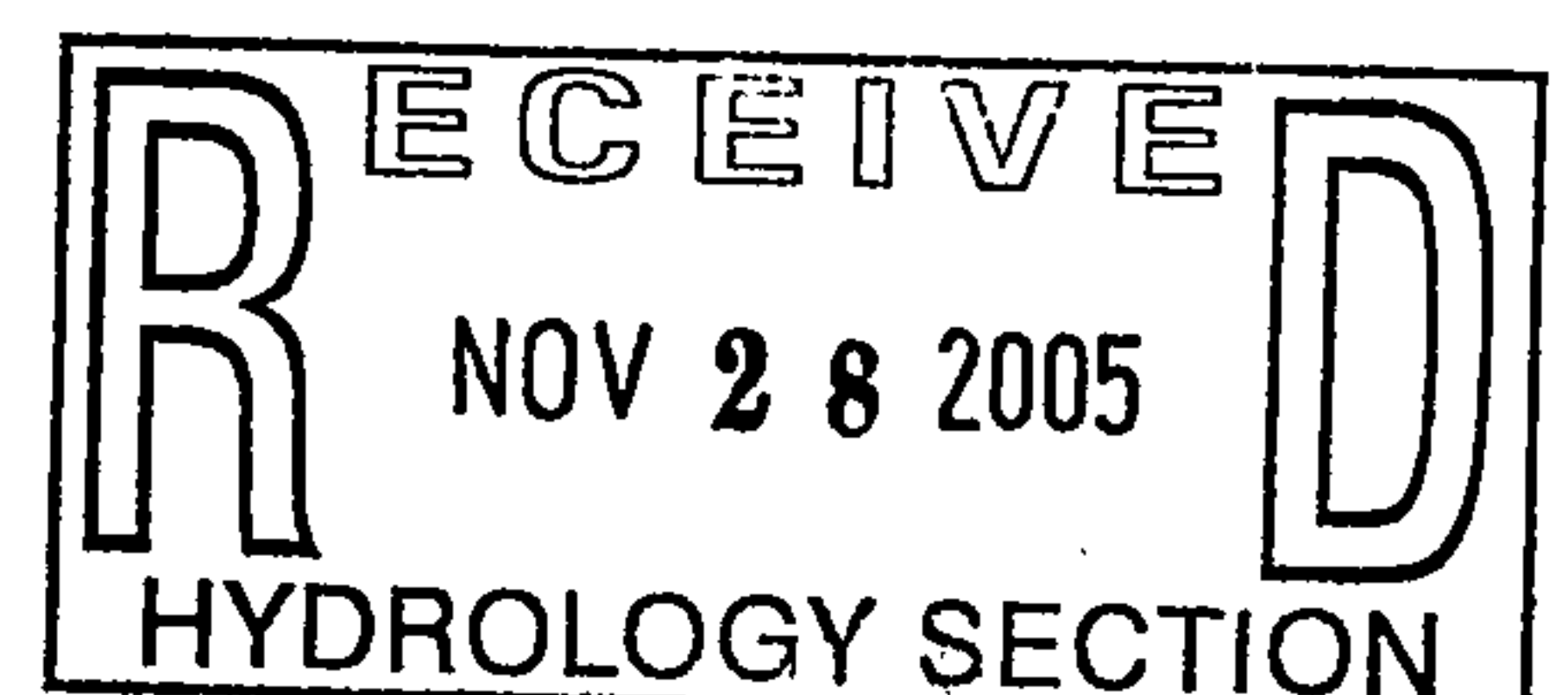
I, Richard Lovato, NMPE 6823, of the firm, New Mexico Quality Consultants, (NMQC) hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated March 9, 2004. The record information edited onto the original design document has been obtained by, Richard Lovato, NMPS 11769 of the firm, New Mexico quality Consultants. I further certify that I have personally visited the project site on Candelaria Road at Rancho de Candelaria Subdivision and have determined by visual inspection that the survey data is representative of actual site conditions and is true and correct the best of my knowledge and belief. This certification is submitted in support of a request for Engineer's certification (Hydrology).

See attached letter dated November 27, 2005 describing minor deviations to the approve drainage plan.

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


Richard Lovato PE., PS

November 27, 2005



November 27, 2005

Re: Rancho de Candelaria
Project No. 742581
DRB No. 1002798
Grading and Drainage Certification

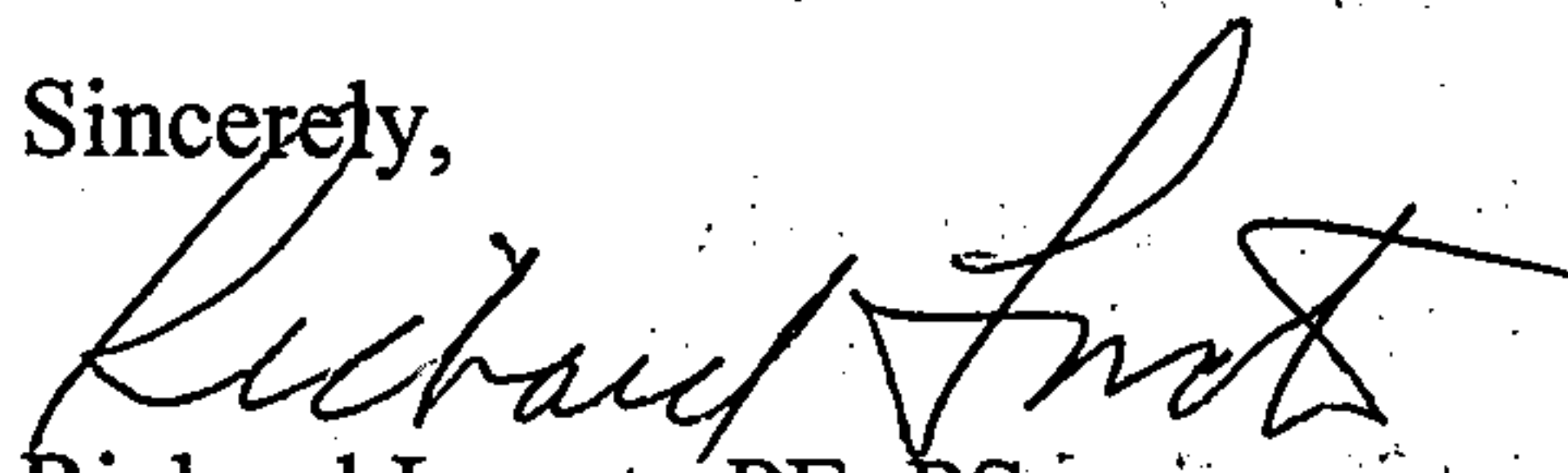
This is to certify that the grading and drainage performed for the subject project was completed in substantial compliance with the approved grading and drainage plan dated March 9, 2004. The following are minor items that were adjusted to better fit field conditions and to comply with comments made regarding the design after the grading plan was approved:

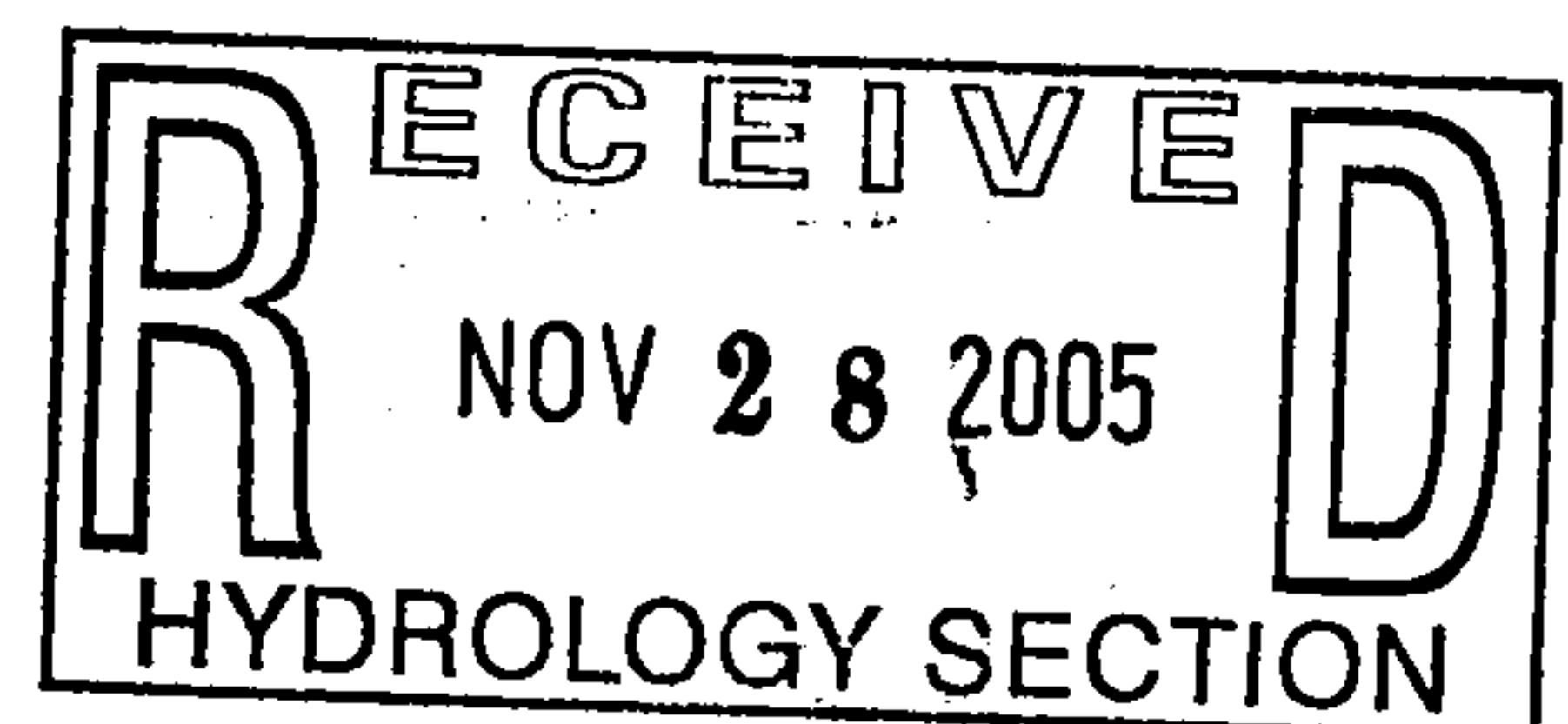
1. A 24" Reinforced concrete pipe was required rather than the proposed 24" CMP which required the grade of the road to be raised to provide sufficient cover over the pipe. The ditch alignment was revised. See attached Record Drawing for as built elevations.
2. The building pad elevation for lot 2 was raised by 1.0 feet to better fit street grade. All building pads were constructed in substantial conformance with the approved grading plan.
3. The ponds were only rough graded when the "As Built" survey was done on November 5, 2005. The contractor was in the process of fine grading these areas. The ponding configuration was generally as designed.

Attached is the "Record Drawing" dated November 27, 2005 which represents as built conditions as determined by field survey on November 5, 2005 performed by NMQC.

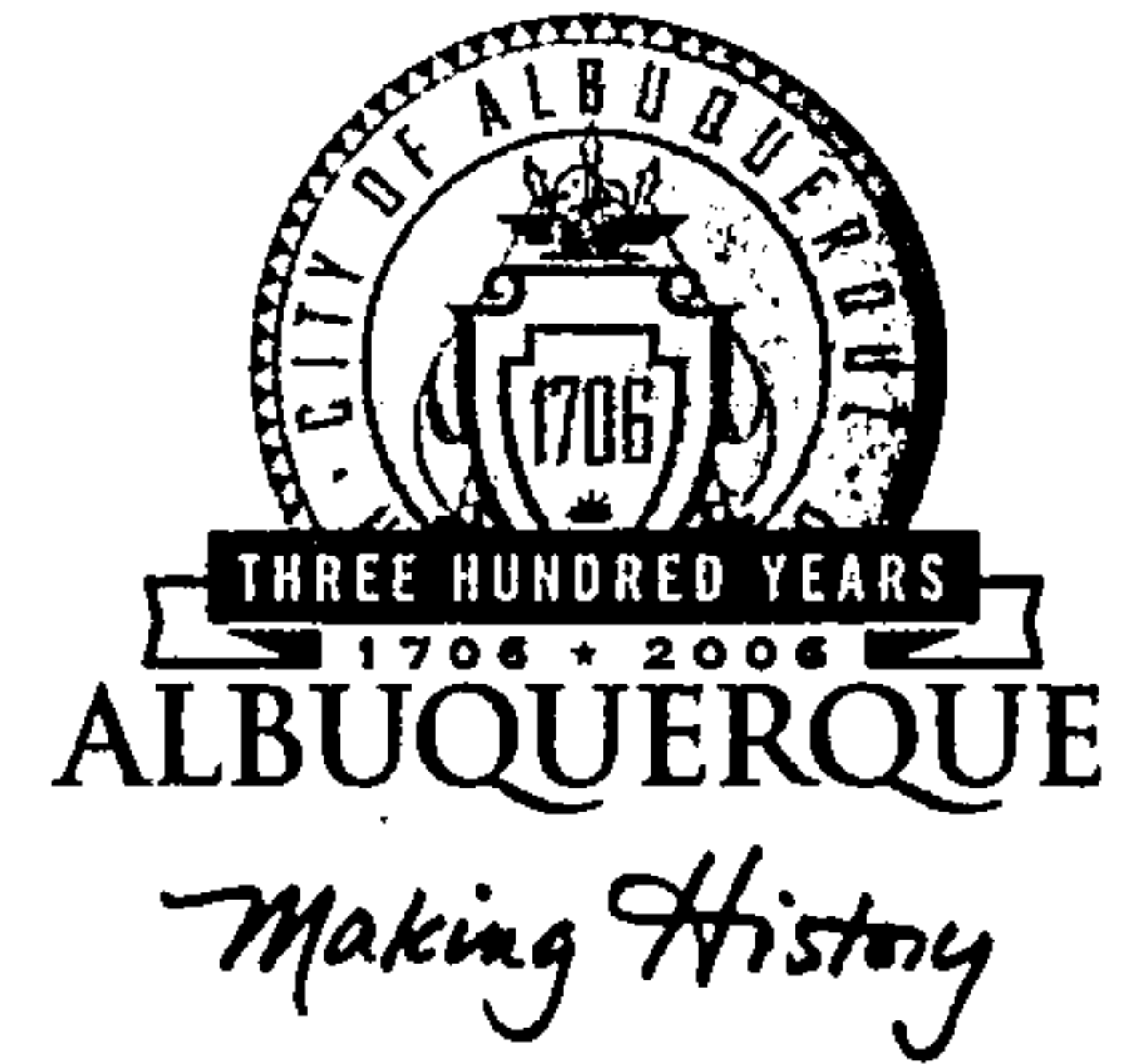
Please call me at 228-8711 if you have any questions or need further information on this subject.

Sincerely,


Richard Lovato PE, PS
New Mexico Quality Consultants
1016 San Pedro Drive
Albuquerque, NM 87110



CITY OF ALBUQUERQUE



December 5, 2005

Mr. Richard Lovato, PE
NEW MEXICO QUALITY CONSULTANTS
1016 San Pedro Drive NE
Albuquerque, NM 87110

RE: RANCHO DE CANDELARIA SUBDIVISION (G-13/D23)
Engineers Certification for Release of Financial Guaranty
Engineers Stamp dated 03/09/2004
Engineers Certification dated 11/27/2005

Dear Mr. Lovato:

P.O. Box 1293

Based upon the information provided in your Engineer's Certification Submittal dated 11/28/2005, the above referenced plan is adequate to satisfy the Grading and Drainage Certification for Release of Financial Guaranty.

Albuquerque

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

New Mexico 87103

Sincerely,

Arlene V. Portillo
Plan Checker, Planning Dept.- Hydrology
Development and Building Services

www.cabq.gov

C: Marilyn Maldonado, COA# 742581
File

JOB # 03-0204

DATE 3/9/2004

RANCHOS DE CANDELARIA SUBDIVISION LAND USE

FACTOR
45%

Land Treatments in
acre-feet

LOT #	TOTAL AREA	ALLOWABLE IMPERVEIOUS AREA 45% OF TOTAL	PAVEMENT	DRIVE PAD	WALKS	MAXIMUM HOUSE PAD	IMPERVEIOUS AREA SQ FEET	D	C
1	11966.13	5384.76	322.9747	1335	400	3000	5057.9747	0.1161	0.1586
2	11966.86	5385.09	884.9805	400	400	3000	4684.9805	0.1076	0.1672
3	15777.83	7100.02	3801.0893	400	400	2475	7076.0893	0.1624	0.1998
4	10235.01	4605.75	601.6306	400	400	3000	4401.6306	0.1010	0.1339
5	11561.71	5202.77	611.8467	400	400	3000	4411.8467	0.1013	0.1641
6	12630.99	5683.95	2277.0813	400	400	2475	5552.0813	0.1275	0.1625
7	10886.17	4898.78	597.4606	400	400	3000	4397.4606	0.1010	0.1490
8	10890	4900.50	1209.1587	400	400	2700	4709.1587	0.1081	0.1419
A	9872.664	4442.70	3201.4433	0	0	0	3201.4433	0.0735	0.1531
B	5251.269	2363.07	2266.8956	0	0	0	2266.8956	0.0520	0.0685

Sub totals	1.0505	1.4986
Totals	2.5491	

RANCHOS DE CANDELARIA PONDING CALCULATION

										P ₃₆₀ 2.35
Weighted E	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad	1.548416454	Lot 1 ponding Volume in cubic Ft.
	0	0	0	0	1.13	0.16	2.12	0.12		
	0		0		0.1586		0.1161			
	Aa		Ab		Ac		Ad			
V ₃₆₀ =	0.035446	acre-feet								1544.026668
V _{6hr} =	V ₃₆₀ 0.035446	0	0	2.35	12	0.035446 acre-feet				

Weighted E	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad	1.517641921	Lot 2 ponding Volume in cubic Ft.
	0	0	0	0	1.13	0.17	2.12	0.11		
	0		0		0.1672		0.1076			
	Aa		Ab		Ac		Ad			
V ₃₆₀ =	0.034754	acre-feet								1513.890287
V _{6hr} =	V ₃₆₀ 0.034754	0	0	2.35	12	0.034754 acre-feet				

Weighted E	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad	1.569240751	Lot 3 ponding Volume in cubic Ft.
	0	0	0	0	1.13	0.2	2.12	0.16		
	0		0		0.1998		0.1624			
	Aa		Ab		Ac		Ad			
V ₃₆₀ =	0.047365	acre-feet								2063.224011
V _{6hr} =	V ₃₆₀ 0.047365	0	0	2.35	12	0.047365 acre-feet				

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.13	2.12	0.1		
Weighted E	0		0		0.1339		0.101		1.555670498	Lot 4 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360}=$	0.030452		acre-feet							1326.505309
	V_{360}								0.030452	acre-feet
$V_{6hr}=$	0.030452		0	0	2.35	12				

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.1		
Weighted E	0		0		0.1641		0.1013		1.507871138	Lot 5 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360}=$	0.033349		acre-feet							1452.691873
	V_{360}								0.033349	acre-feet
$V_{6hr}=$	0.033349		0	0	2.35	12				

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.13		
Weighted E	0		0		0.1625		0.1275		1.558724138	Lot 6 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360}=$	0.037669		acre-feet							1640.875454
	V_{360}								0.037669	acre-feet
$V_{6hr}=$	0.037669		0	0	2.35	12				

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E	0		0		0.149		0.101		1.52996	Lot 7 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360}=$	0.031874		acre-feet							1388.444246
	V_{360}								0.031874	acre-feet
$V_{6hr}=$	0.031874		0	0	2.35	12				

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E	0		0		0.1419		0.1029		1.570142974	Lot 8 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360} =$	0.032031		acre-feet							1395.272303
	V_{360}									
$V_{6hr} =$	0.032031		0	0	2.35	12			0.032031	acre-feet

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.07		
Weighted E	0		0		0.1531		0.0735		1.451116505	Lot A ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360} =$	0.027402		acre-feet							1193.632258
	V_{360}									
$V_{6hr} =$	0.027402		0	0	2.35	12			0.027402	acre-feet

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.07	2.12	0.05		
Weighted E	0		0		0.0685		0.052		1.557219917	Lot B ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{360} =$	0.015637		acre-feet							681.1540709
	V_{360}									
$V_{6hr} =$	0.015637		0	0	2.35	12			0.015637	acre-feet

JOB # 03-0204

DATE 3/9/2004

RANCHOS DE CANDELARIA PONDING CALCULATION

										P ₃₆₀ 2.35	P ₁₄₄₀ 2.75
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.16	2.12	0.12			
Weighted E	0		0		0.1586		0.1161		1.548416454		
	Aa		Ab		Ac		Ad			Lot 1 ponding	
										Volume in cubic Ft.	
V ₁₄₄₀ =	0.035446		acre-feet								1712.604541
	V ₃₆₀		+A _d		*(P ₁₄₄₀ -P ₃₆₀)		/12 in/ft				
V _{24hr} =	0.035446		0.12		2.75	2.35	12		0.039316	acre-feet	

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.17	2.12	0.11			
Weighted E	0		0		0.1672		0.1076		1.517641921		
	Aa		Ab		Ac		Ad			Lot 2 ponding	
										Volume in cubic Ft.	
V ₁₄₄₀ =	0.034754		acre-feet								1670.126111
	V ₃₆₀		+A _d		*(P ₁₄₄₀ -P ₃₆₀)		/12 in/ft				
V _{24hr} =	0.034754		0.11		2.75	2.35	12		0.038341	acre-feet	

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.2	2.12	0.16			
Weighted E	0		0		0.1998		0.1624		1.569240751		
	Aa		Ab		Ac		Ad			Lot 3 ponding	
										Volume in cubic Ft.	
V ₁₄₄₀ =	0.047365		acre-feet								2299.029753
	V ₃₆₀		+A _d		*(P ₁₄₄₀ -P ₃₆₀)		/12 in/ft				
V _{24hr} =	0.047365		0.16		2.75	2.35	12		0.052778	acre-feet	

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.13	2.12	0.1		
Weighted E	0		0		0.1339		0.101		1.555670498	Lot 4 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{1440} =$	0.030452		acre-feet							1473.157894
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft					0.033819	acre-feet
	0.030452	0.1	2.75	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.1		
Weighted E	0		0		0.1641		0.1013		1.507871138	Lot 5 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{1440} =$	0.033349		acre-feet							1599.78006
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft					0.036726	acre-feet
	0.033349	0.1	2.75	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.13		
Weighted E	0		0		0.1625		0.1275		1.558724138	Lot 6 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{1440} =$	0.037669		acre-feet							1826.006194
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft					0.041919	acre-feet
	0.037669	0.13	2.75	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E	0		0		0.149		0.101		1.52996	Lot 7 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
$V_{1440} =$	0.031874		acre-feet							1535.096832
$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft					0.035241	acre-feet
	0.031874	0.1	2.75	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E					0.1419		0.1029		1.570142974	Lot 8 ponding
	0		0							Volume in cubic Ft.
	Aa		Ab		Ac		Ad			

$V_{1440} =$	0.032031	acre-feet	1544.6837
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$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft	0.035461	acre-feet
	0.032031	0.1	2.75	2.35	12	

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.07		
Weighted E					0.1531		0.0735		1.451116505	Lot A ponding
	0		0							Volume in cubic Ft.
	Aa		Ab		Ac		Ad			

$V_{1440} =$	0.027402	acre-feet	1300.354684
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$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft	0.029852	acre-feet
	0.027402	0.07	2.75	2.35	12	

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.07	2.12	0.05		
Weighted E					0.0685		0.052		1.557219917	Lot B ponding
	0		0							Volume in cubic Ft.
	Aa		Ab		Ac		Ad			

$V_{1440} =$	0.015637	acre-feet	756.6583725
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$V_{24_{hr}} =$	V_{360}	$+A_d$	$*(P_{1440}-P_{360})$	/12 in/ft	0.01737	acre-feet
	0.015637	0.05	2.75	2.35	12	

JOB # 03-0204

DATE 3/9/2004

RANCHOS DE CANDELARIA PONDING CALCULATION

										P ₃₆₀ 2.35	P _{10DAYS} 3.95
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.16	2.12	0.12			
Weighted E	0		0		0.1586		0.1161		1.548416454		
	Aa		Ab		Ac		Ad			Lot 1 ponding	
										Volume in cubic Ft.	
V ₃₆₀ =	0.035446		acre-feet								2218.338161
	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.050926	acre-feet	
V _{10days} =	0.035446	0.12	3.95	2.35	12						
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.17	2.12	0.11			
Weighted E	0		0		0.1672		0.1076		1.517641921		
	Aa		Ab		Ac		Ad			Lot 2 ponding	
										Volume in cubic Ft.	
V ₃₆₀ =	0.034754		acre-feet								2138.833584
	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.049101	acre-feet	
V _{10days} =	0.034754	0.11	3.95	2.35	12						
	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.2	2.12	0.16			
Weighted E	0		0		0.1998		0.1624		1.569240751		
	Aa		Ab		Ac		Ad			Lot 3 ponding	
										Volume in cubic Ft.	
V ₃₆₀ =	0.047365		acre-feet								3006.446979
	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.069018	acre-feet	
V _{10days} =	0.047365	0.16	3.95	2.35	12						

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.13	2.12	0.1		
Weighted E	0		0		0.1339		0.101		1.555670498	Lot 4 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
V ₃₆₀ =	0.030452		acre-feet							1913.115652
V _{10days} =	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.043919	acre-feet
	0.030452	0.1	3.95	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.1		
Weighted E	0		0		0.1641		0.1013		1.507871138	Lot 5 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
V ₃₆₀ =	0.033349		acre-feet							2041.044623
V _{10days} =	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.046856	acre-feet
	0.033349	0.1	3.95	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.16	2.12	0.13		
Weighted E	0		0		0.1625		0.1275		1.558724138	Lot 6 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
V ₃₆₀ =	0.037669		acre-feet							2381.398412
V _{10days} =	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.054669	acre-feet
	0.037669	0.13	3.95	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad		
	0	0	0	0	1.13	0.15	2.12	0.1		
Weighted E	0		0		0.149		0.101		1.52996	Lot 7 ponding
	Aa		Ab		Ac		Ad			Volume in cubic Ft.
V ₃₆₀ =	0.031874		acre-feet							1975.054589
V _{10days} =	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)	/12 in/ft					0.045341	acre-feet
	0.031874	0.1	3.95	2.35	12					

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.15	2.12	0.1			
Weighted E									1.570142974	Lot 8 ponding	
	0		0		0.1419		0.1029			Volume in cubic Ft.	
	Aa		Ab		Ac		Ad				
V ₃₆₀ =	0.032031	acre-feet								1992.917891	

	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)		/12 in/ft		
V _{10days} =	0.032031	0.1	3.95	2.35	12	0.045751	acre-feet

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.15	2.12	0.07			
Weighted E									1.451116505	Lot A ponding	
	0		0		0.1531		0.0735			Volume in cubic Ft.	
	Aa		Ab		Ac		Ad				
V ₃₆₀ =	0.027402	acre-feet								1620.521963	

	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)		/12 in/ft		
V _{10days} =	0.027402	0.07	3.95	2.35	12	0.037202	acre-feet

	Ea	Aa	Eb	Ab	Ec	Ac	Ed	Ad			
	0	0	0	0	1.13	0.07	2.12	0.05			
Weighted E									1.557219917	Lot B ponding	
	0		0		0.0685		0.052			Volume in cubic Ft.	
	Aa		Ab		Ac		Ad				
V ₃₆₀ =	0.015637	acre-feet								983.1712773	

	V ₃₆₀	+A _d	*(P _{10days} -P ₃₆₀)		/12 in/ft		
V _{10days} =	0.015637	0.05	3.95	2.35	12	0.02257	acre-feet

G-13/023

APPLICANT'S NAME: Billy Holler ZONE ATLAS/DRNG. FILE #: G-13-2
DRB #: 1002798 ^{03EPC-01673} EPC #: 03EPC-01674 WORK ORDER #: _____
LEGAL DESCRIPTION: TRACT A RIMA ADDITION & TRACT A-1
LANDS OF CONRADO GARCIA
CITY ADDRESS: RANCHO DE CANDELARIA SUBD.
ENGINEERING FIRM: NEW MEXICO QUALITY CONSULT CONTACT: _____
ADDRESS: 1016 SAN PEDRO DR NE A1B PHONE: 228-8711 / 254-4952
87110
OWNER: Billy Holler CONTACT: Billy Holler
ADDRESS: 1122 ORTEGA NW A1B PHONE: 792-4533
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: MARQUEZ SURVEYING GROUP CONTACT: GEORGE MARQUEZ
ADDRESS: 2713 VIOLA ROAD SW A1B PHONE: 842-6579
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER _____

PRE-DESIGN MEETING:

- ☐ YES
☐ NO
☐ COPY PROVIDED

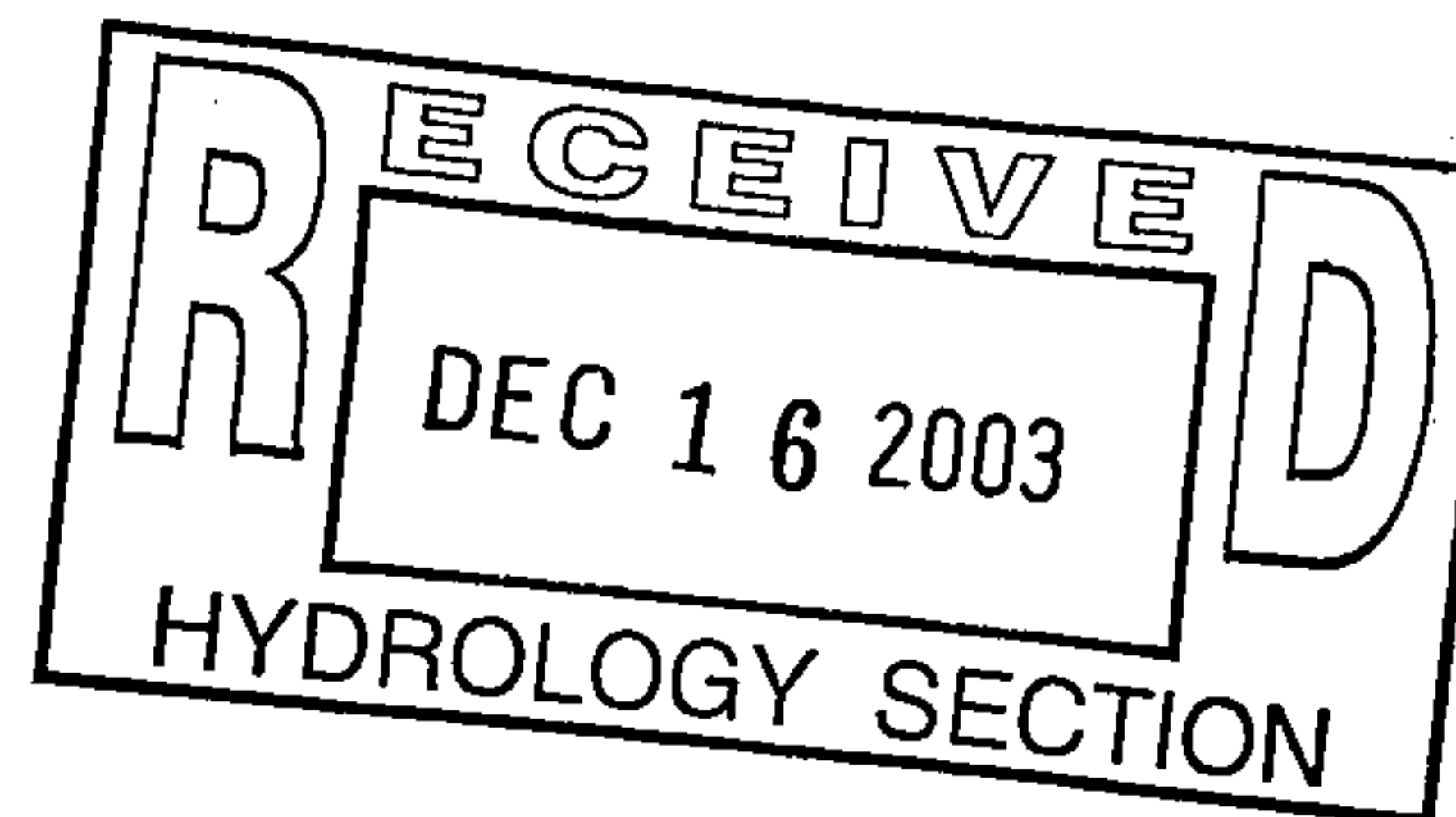
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
☒ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☒ S.A.D. DRAINAGE REPORT
☒ DRAINAGE REQUIREMENTS
☐ SUBDIVISION CERTIFICATION
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 12/16/03

BY: RICHARD LOVATO

Revised 02/98



*** TX REPORT ***

TRANSMISSION OK

TX/RX NO	0844
CONNECTION TEL	9p2544952
SUBADDRESS	
CONNECTION ID	
ST. TIME	02/11 16:05
USAGE T	01'09
PGS.	3
RESULT	OK



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

February 11, 2004

Richard Lovato, PE
NM Quality Consultants
1016 San Pedro Dr. NE
Albuquerque, NM 87109

Re: Rancho de Candelaria Subdivision Grading and Drainage Plan
Engineer's Stamp dated 12-15-03 (G13/D23)

Dear Mr. Lovato,

Based upon the information provided in your submittal dated 12-16-03, the above referenced plan cannot be approved for Preliminary Plat until the following comments are addressed

- How does lot 1 take access off the street when there is an 18" irrigation culvert ending at the curb?
- I am enclosing a copy of the flat grading scheme from the DPM. Item 7 states that there be no accessible storm drains in the area. Since there is one in Candelaria, you must either drain all lots into Conrado Court (which must drain to Candelaria) or create a sag in the street and install a storm drain.

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



City of Albuquerque

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Sincerely,

Bradley L. Bingham, PE
Principal Engineer, Hydrology
Development and Building Services

C: file