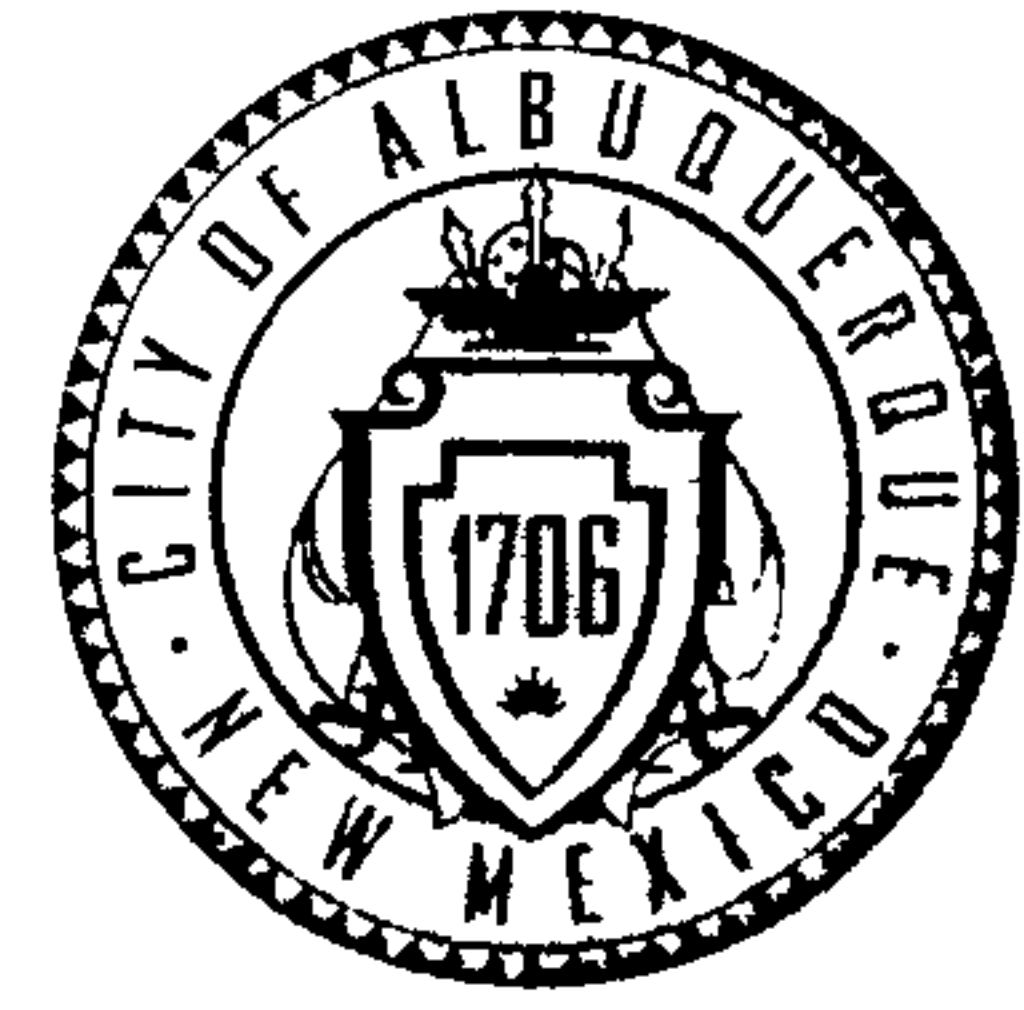


CITY OF ALBUQUERQUE

October 21, 2015



Brad Bingham, P.E.
Bingham Engineering
Albuquerque, NM

RE: **SAD 228 Residence**
6601 Cuervo PL NW
Request Permanent CO - Accepted
Engineers Stamp Date 5/27/15 (D10D003J7)

Dear Mr. Bingham,

Based on the Certification received 10/15/2015, the above mentioned building is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions please contact me at 924-3695 or Totten Elliott at 924-3982.

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

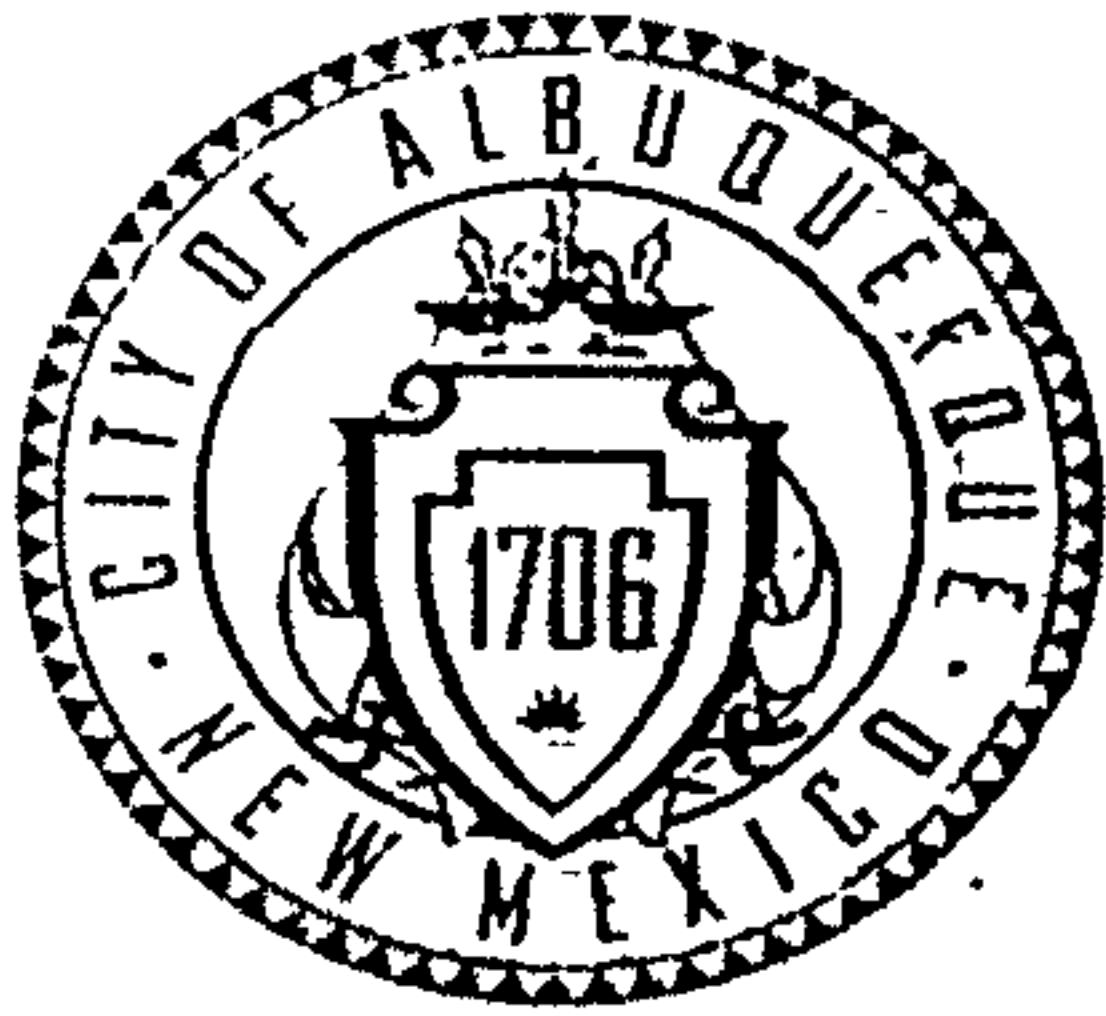
PO Box 1293

Albuquerque

New Mexico 87103

TE/RH
C: File

www.cabq.gov

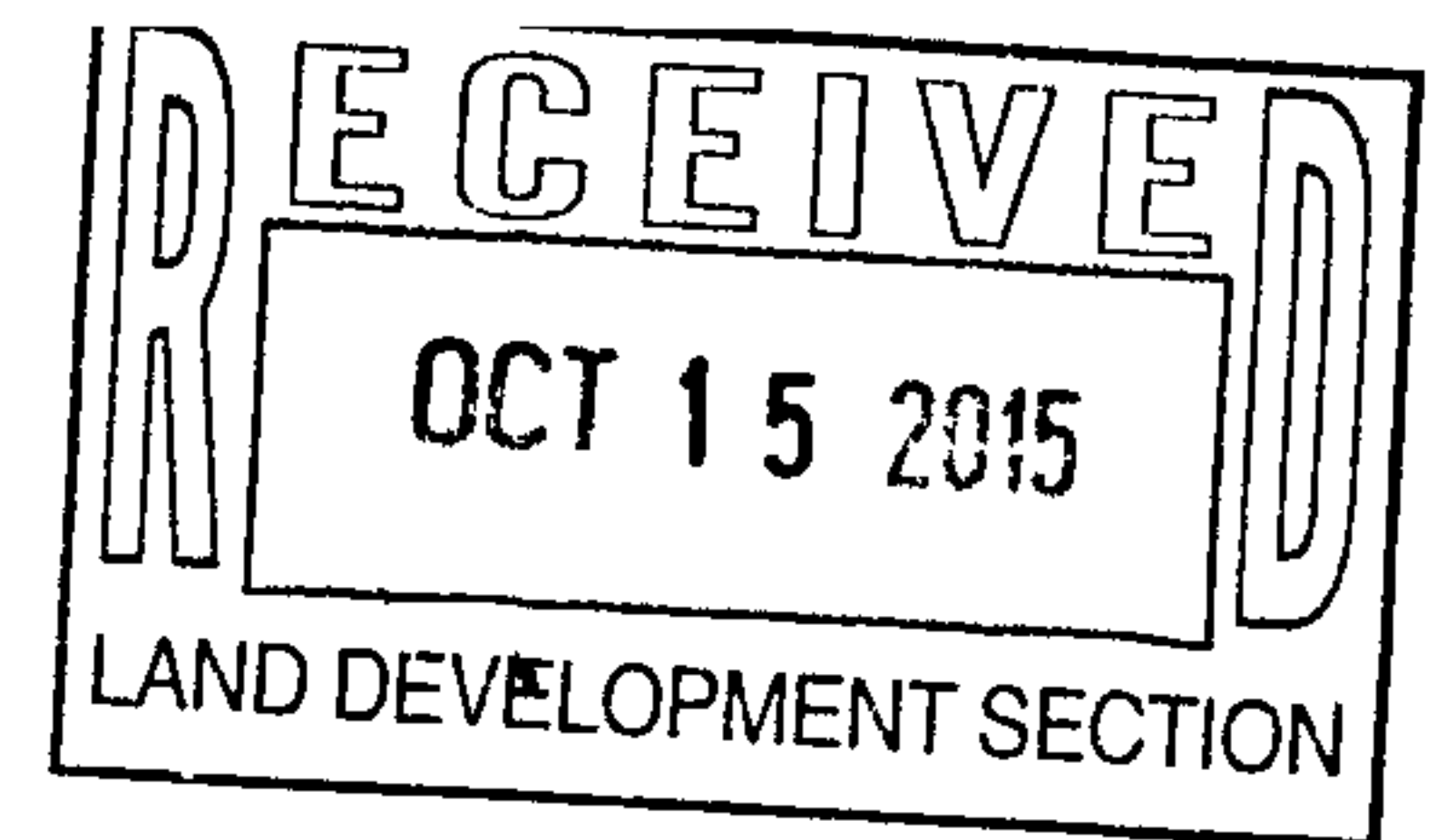


City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)



Project Title: 6601 Cuervo PL NW Building Permit # _____ City Drainage # D10/0
DRB# _____ EPC# _____ Work Order# 0357
Legal Description: _____
City Address: _____

Engineering Firm: Bingham Engineering Contact: Brad Bingham
Address: 515 Montclair SE
Phone# _____ Fax# _____ E-mail: bradleybingham@hotmail.com
Owner: _____ Contact: _____
Address: _____
Phone# _____ Fax# _____ E-mail: _____
Architect: _____ Contact: _____
Address: _____
Phone# _____ Fax# _____ E-mail: _____
Other Contact: _____ Contact: _____
Address: _____
Phone# _____ Fax# _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☒ ENGINEER/ ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
☒ CERTIFICATE OF OCCUPANCY
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☐ Yes ☒ No

DATE SUBMITTED: 10/ By: Brad Bingham

COA STAFF ELECTRONIC SUBMITTAL RECEIVED _____

CITY OF ALBUQUERQUE

May 28, 2015



Brad Bingham, P.E.
Bingham Engineering
Albuquerque, NM

**RE: Lot 7 Block 4 Volcano Cliffs Subd. Unit 18
6601 Cuervo PL NW
Grading and Drainage Plan
Engineers Stamp Date 5/27/15 (D10D003J7)**

Dear Mr. Bingham,

Based upon the information provided in your submittal received 5/28/2015, the above referenced Grading and Drainage Plan is approved for Grading Permit and Building Permit. Please attach a copy of this approved plan, dated 5-27-15, to the construction sets in the permitting process prior to sign-off by Hydrology.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

PO Box 1293

If you have any questions please contact me at 924-3695 or Rudy Rael at 924-3977.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: File

DRAINAGE CERTIFICATION

I, _____, NMPE _____, OF THE FIRM _____, 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 _____. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY _____ OF THE FIRM _____. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON _____ 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 _____.

<LIST EXCEPTIONS, IF ANY>

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE 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.

Signature of Engineer

Date

ENGINEER'S STAMP

CITY OF ALBUQUERQUE

May 28, 2015



Brad Bingham, P.E.
Bingham Engineering
Albuquerque, NM

**RE: Lot 7 Block 4 Volcano Cliffs Subd. Unit 18
6601 Cuervo PL NW
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Engineers Stamp Date 5/27/15 (D10D003J7)**

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PO Box 1293

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Albuquerque

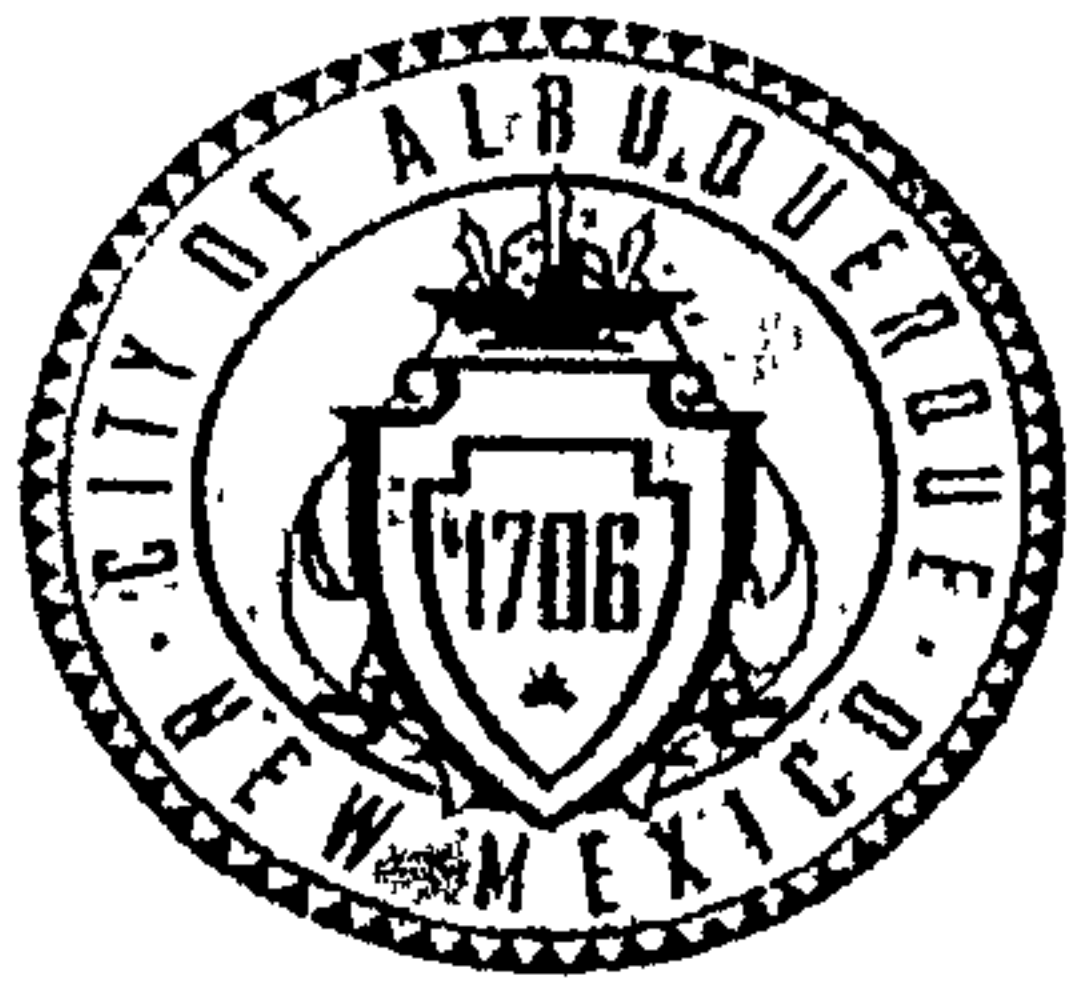
New Mexico 87103

www.cabq.gov

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: File



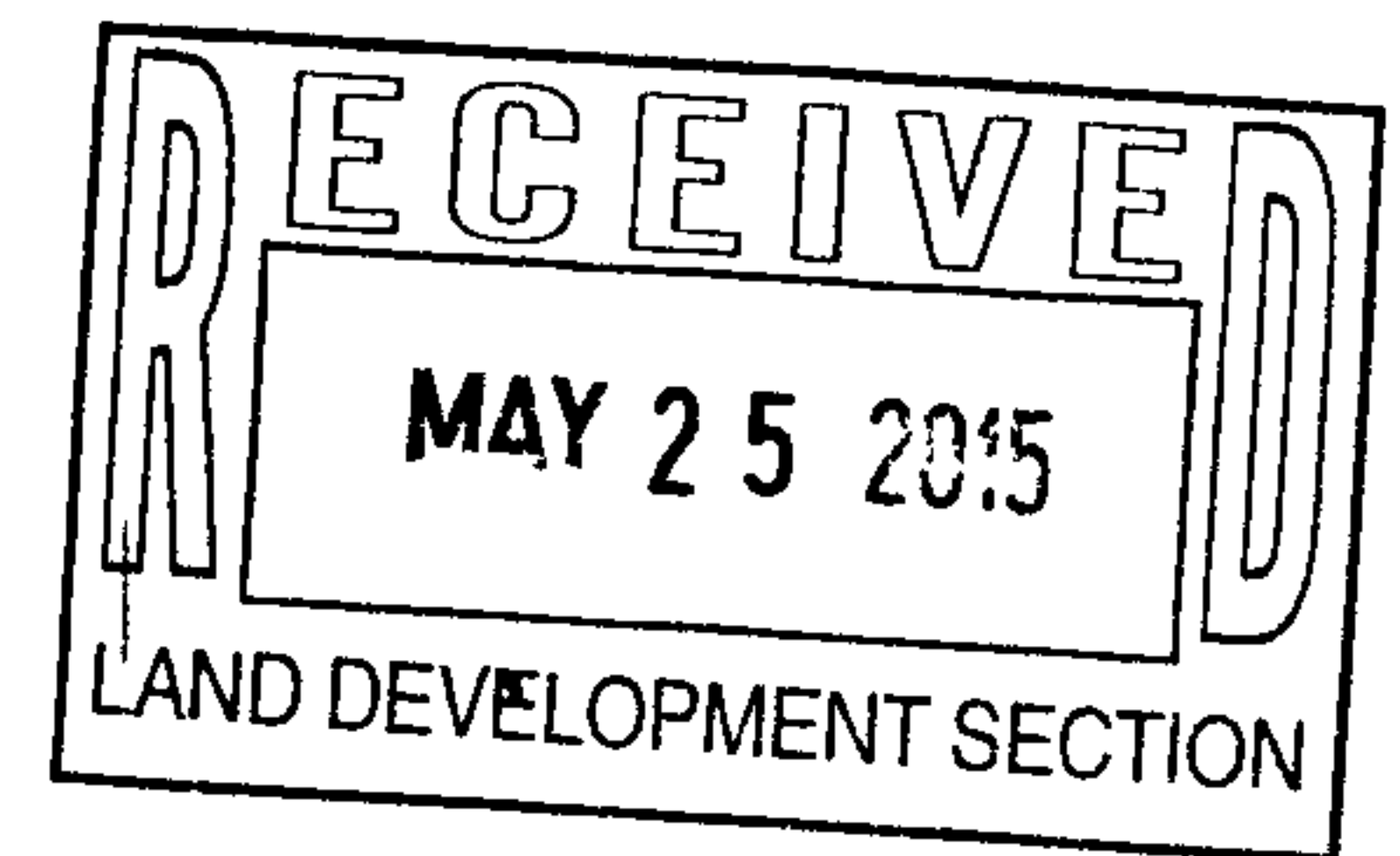
City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)



Project Title: 6601 Cuervo NW Building Permit #: _____ City Drainage #: D10 / D357 003J7
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: _____
City Address: same
Engineering Firm: Bingham Engineering Contact: Brad
Address: 515 Montclair SE
Phone#: 238-1277 Fax#: _____ E-mail: bradleybingham@hotmail.com
Owner: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____
Architect: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____
Surveyor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____
Contractor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☒ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEER'S CERT (TCL)
☐ ENGINEER'S CERT (DRB SITE PLAN)
☐ ENGINEER'S CERT (ESC)
☐ SO-19
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE 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
☐ CERTIFICATE OF OCCUPANCY (PERM)
☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ GRADING CERTIFICATION
☐ SO-19 APPROVAL
☐ ESC PERMIT APPROVAL
☐ ESC CERT. ACCEPTANCE
☐ OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED: _____ Yes _____ No _____ Copy Provided

DATE SUBMITTED: 5/28/15

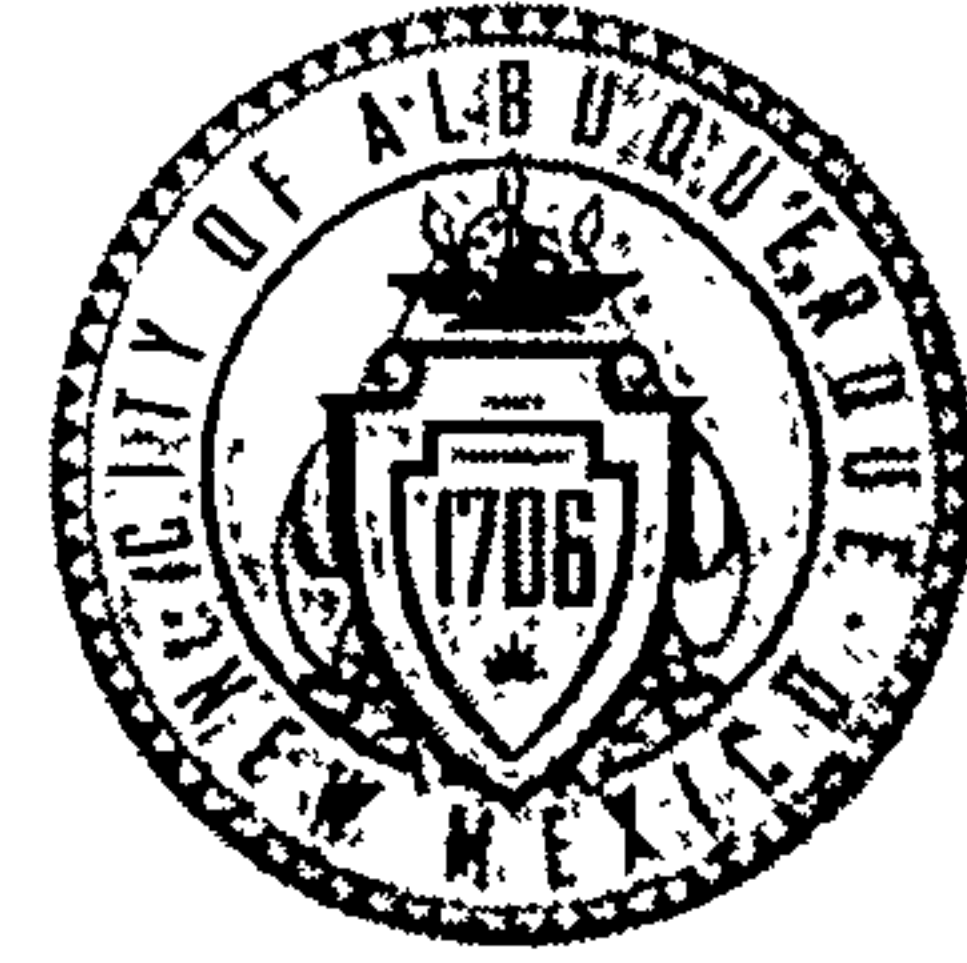
By: Brad Bingham

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
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre that are part of a larger common plan of development

CITY OF ALBUQUERQUE

May 27, 2015



Brad Bingham, P.E.
Bingham Engineering
Albuquerque, NM

**RE: SAD 228 Residence
6601 Cuervo PL NW
Grading and Drainage Plan
Engineers Stamp Date 5/11/15 (D10D003J7)**

Dear Mr. Bingham,

Based upon the information provided in your submittal received 5/19/2015, the above referenced Grading and Drainage Plan cannot be approved for Grading Permit or Building Permit until the following comments are addressed.

- ✓ Provide a site plan and FIRMette of this location.
- ✓ Provide a table of calculations for land treatments, percentages, existing and proposed flows.
- ✓ Provide a legal description of this site.
- ✓ Show or mention the location of the bench mark. 170-10

PO Box 1293

If you have any questions please contact me at 924-3695 or Rudy Rael at 924-3977.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: File

Please
See supplemental information to revise plan
for addressing of comments

Legal

Lot 7, Blk 4

Volcano Cliff Subd., Unit 18

Benchmark

ACS ~~17-D10~~

17-D10

37.5' NE. COMPASS, 191' S. Petirrojo

Topo

Land Treatments (0.52 Ac)

Proposed
B D

Existing
B

Runoff

Supplemental Information

6601 Cuervo NW

Bingham Engineering

515 Montclair SE
Albuquerque NM 87108

SPECIAL ASSESSMENT DISTRICT NO. 228
CITY OF ALBUQUERQUE
DRAINAGE REPORT
JANUARY 2012

Prepared For

City of Albuquerque
600 2nd street NW
Albuquerque, NM 87102
505-924-3860

Prepared By

WILSON
& COMPANY

Wilson & Company, Inc., Engineers & Architects
4900 Lang Ave, NE
Albuquerque, NM 87109
505-348-4000

WILSON
& COMPANY

Table 1: Precipitation Values - (in)			
Return Period (yrs)	24 hr Rainfall	6 hr Rainfall	1 hr Rainfall
100	2.51	2.16	1.7

2.4 Land Treatments

The land treatments used in the AHYMO Computer models are as described by Table A-4 of the COA DPM Section 22.2, and are summarized in Table 2.

Table 2: Land Treatment Classifications	
Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands. Unlined
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

The following Land Treatment percentages were entered in the AHYMO Computer model based on the Volcano Heights Drainage Compilation Report:

Table 3: Treatment Type Percentage Summary				
Land Use	Treatments			
	A	B	C	D
Residential/Town Homes	0%	15%	35%	50%
Residential	0%	10%	40%	50%
Commercial	0%	10%	10%	80%
Mixed Use	0%	5%	10%	85%
Open Space	100%	0%	0%	0%
Roadway	0%	10%	0%	90%

2.5 Time to Peak Calculations

Table 4: Existing Conditions Model Data							
Basin	Area (ac)	Land treatment type (%)				Q ₁₀₀ (cfs)	V ₁₀₀₋₂₄ (ac-ft)
		A	B	C	D		
100	174.0	94	0	0	6	118.53	7.418
101	92.7	90	0	0	10	58.51	3.233
102	27.0	100	0	0	0	31.63	0.900
103	16.4	100	0	0	0	19.23	0.548
104	10.2	100	0	0	0	11.99	0.341
105	3.9	100	0	0	0	4.62	0.131
106	13.8	100	0	0	0	14.36	0.460
107	28.7	95	0	5	0	25.97	1.002
108	20.5	100	0	0	0	16.03	0.683
109	4.8	100	0	0	0	5.63	0.160
110	12.4	100	0	0	0	14.33	0.412
111	3.4	100	0	0	0	3.98	0.113
112	3.5	100	0	0	0	4.05	0.115
113	33.3	100	0	0	0	38.77	1.110

2.7 Proposed Conditions

Improvements within SAD 228 will include asphalt paving, standard curb and gutter, sidewalks and storm sewer systems. Other utility improvements will include sanitary sewer system and water line. The storm system will accept onsite and offsite runoff which will be detained on site to release the allowable flows Per Volcano Heights Drainage Compilation Report. Drainage improvements proposed in this report are in compliance with the intent of Boca Negra – Mariposa Arroyo Drainage Management Plan prepared by Resource Technology, Inc. See Plates 2 and 3 in Appendix D for Basin and Sub-Basin Boundary Plans. Table 5 below summarizes proposed conditions model data.

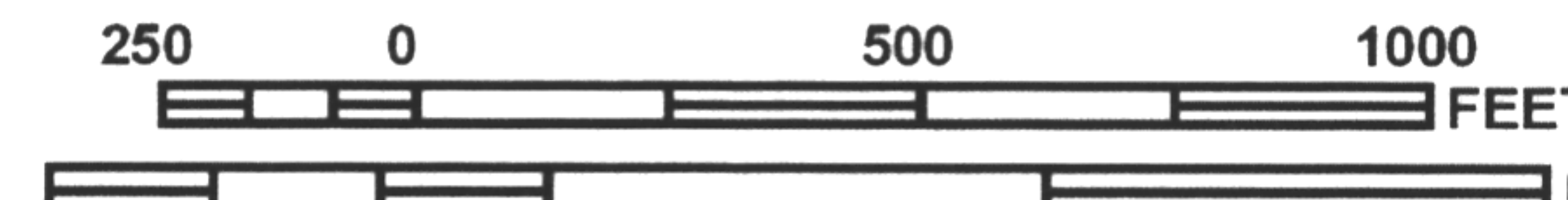
Table 5: Proposed Conditions Model- Basin Data							
Basin	Area (ac)	Land treatment type(%)				Q ₁₀₀ (cfs)	V ₁₀₀₋₂₄ (ac-ft)
		A	B	C	D		
UNIT 18, 19 & 22							
200	13.12	0	10	40	50	32.02	1.546
To Pond 4						32.02	1.546
201	95.3	0	10	40	50	187.54	12.300
To Pond 5						187.54	12.300
202	19.29	0	10	40	50	61.76	2.486
To La Cuentista Pond 4						61.76	2.486
203	38.83	0	10	40	50	116.11	5.014
To Pond 8						116.11	5.014
204	8.98	0	10	40	50	28.73	1.156
To Pond 7						28.73	1.156
205	41.86	0	10	40	50	114.37	5.402
To Pond 6						114.37	5.402
206	5.02	0	10	40	50	16.01	0.644
To Pond 9						16.01	0.644
207	1.85	0	10	40	50	5.96	0.240
Free Discharge						5.96	0.240

Table 6 summarizes proposed conditions model data for Sub-Basin in unit 18, 19 & 22.

Table 6: Proposed Conditions Model - Sub-Basin Data				
Basin	Area (ac)	cfs/ac	Q₁₀₀ (cfs)	V₁₀₀₋₂₄ (ac-ft)
Basin 200 (Discharge to Pond 4)				
200.00	13.12	2.44	32.02	1.55
Basin 201 (Discharge to Pond 5)				
201-A	7.48	1.97	14.72	0.97
201-B	6.62	1.97	13.03	0.85
201-C	5.12	1.97	10.08	0.66
201-D	2.47	1.97	4.86	0.32
201-E	1.53	1.97	3.01	0.20
201-F	8.73	1.97	17.18	1.13
201-G	8.54	1.97	16.81	1.10
201-H	8.88	1.97	17.47	1.15
201-I	6.09	1.97	11.98	0.79
201-J	8.51	1.97	16.75	1.10
201-K	3.75	1.97	7.38	0.48
201-L	11.78	1.97	23.18	1.52
201-M	5.17	1.97	10.17	0.67
201-N	5.27	1.97	10.37	0.68
201-O	3.16	1.97	6.22	0.41
201-P	2.20	1.97	4.33	0.28
Total	95.30		187.54	12.30
Basin 202 (Discharge to La Cuentista Pond)				
202-A	8.57	3.20	27.44	1.10
202-B	10.72	3.20	34.32	1.38
Total	19.29		61.76	2.486
202-C	1.33	2.62	3.50	0.235
Basin 203 (Discharge to Pond 8)				
203-A	6.51	2.99	19.47	0.84
203-B	9.99	2.99	29.87	1.29
203-C	5.24	2.99	15.67	0.68
203-D	4.18	2.99	12.50	0.54
203-E	9.89	2.99	29.57	1.28
203-F	3.02	2.99	9.03	0.390
Total	38.83		116.11	5.014



MAP SCALE 1" = 500'



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0111G

FIRM

FLOOD INSURANCE RATE MAP
BERNALILLO COUNTY,
NEW MEXICO
AND INCORPORATED AREAS

PANEL 111 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0111	G
BERNALILLO COUNTY UNINCORPORATED AREAS	350001	0111	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
35001C0111G

MAP REVISED
SEPTEMBER 26, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



Legend

Primary Streets

- Urban Principal Arterial
- BN and SF Railroad
- Freeway
- Urban Minor Arterial

Other Streets

Municipal Limits

- Corrales
- Edgewood
- Los Ranchos
- Rio Rancho
- Tijeras
- UNINCORPORATED

Notes

0.1 0 0.05 0.1 Miles

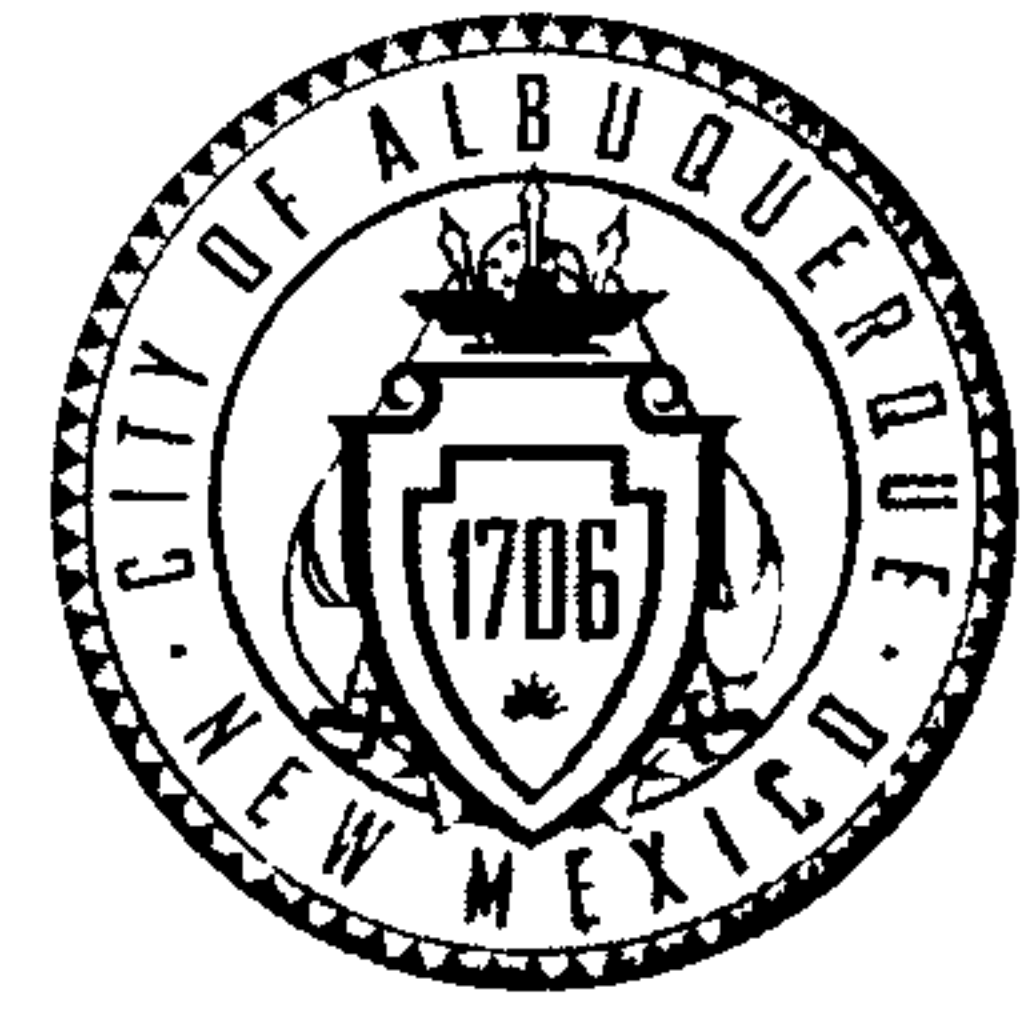
WGS_1984_Web_Mercator_Auxiliary_Sphere
5/27/2015 © City of Albuquerque

This map is a user generated static output from www.cabq.gov/gis and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR LEGAL PURPOSES

CITY OF ALBUQUERQUE

May 27, 2015



Brad Bingham, P.E.
Bingham Engineering
Albuquerque, NM

**RE: SAD 228 Residence
6601 Cuervo PL NW
Grading and Drainage Plan
Engineers Stamp Date 5/11/15 (D10D003J7)**

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PO Box 1293

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Albuquerque

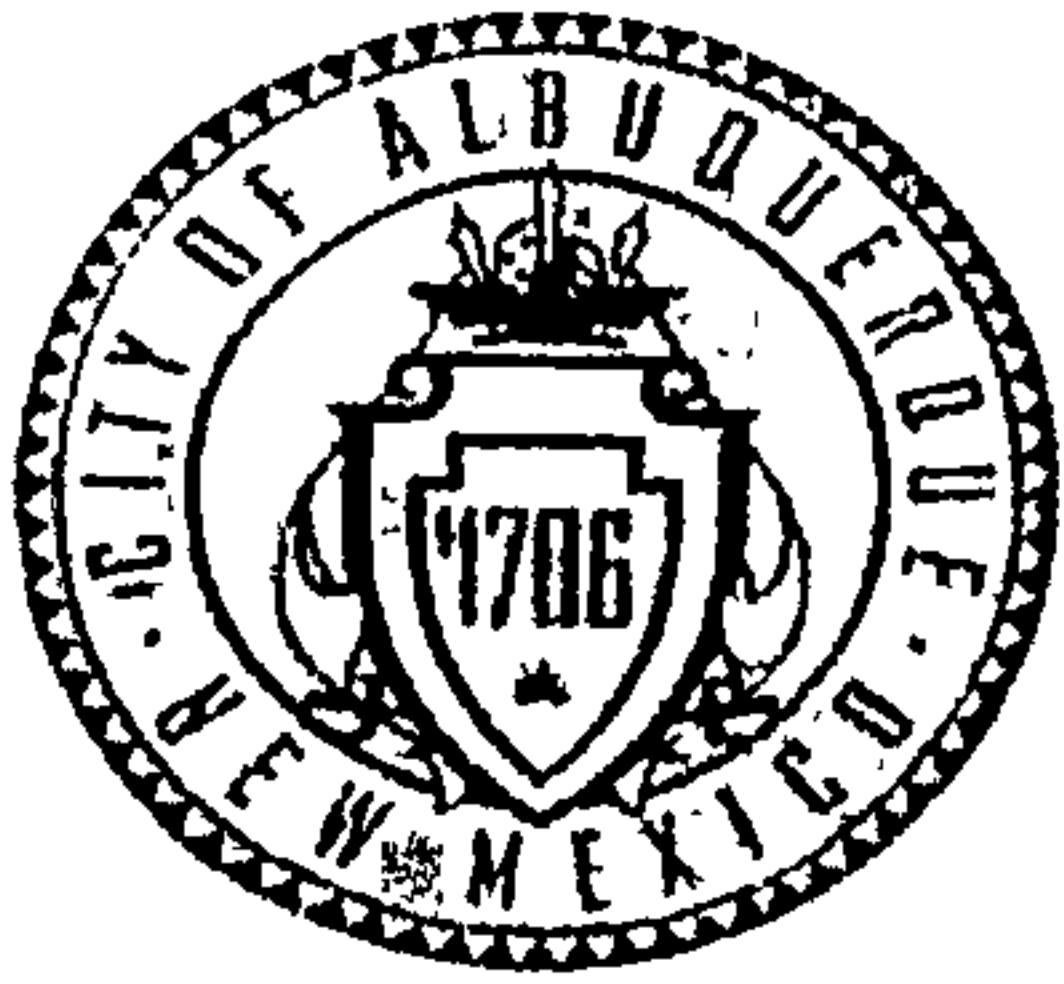
New Mexico 87103

www.cabq.gov

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: 6601 Cuervo NW Building Permit #: _____ City Drainage #: D10P003J7
DRB#: LOT 7 EPC#: _____ Work Order#: _____

Legal Description: _____

City Address: 6601 Cuervo NW

Engineering Firm: Bingham Engineering Contact: Brad

Address: _____

Phone#: 238-1277

Fax#: _____

E-mail: bradley@bingham.com

Owner: _____

Address: _____

Phone#: _____

Fax#: _____

E-mail: _____

Architect: _____

Address: _____

Phone#: _____

Fax#: _____

E-mail: _____

Surveyor: _____

Address: _____

Phone#: _____

Fax#: _____

E-mail: _____

Contractor: _____

Address: _____

Phone#: _____

Fax#: _____

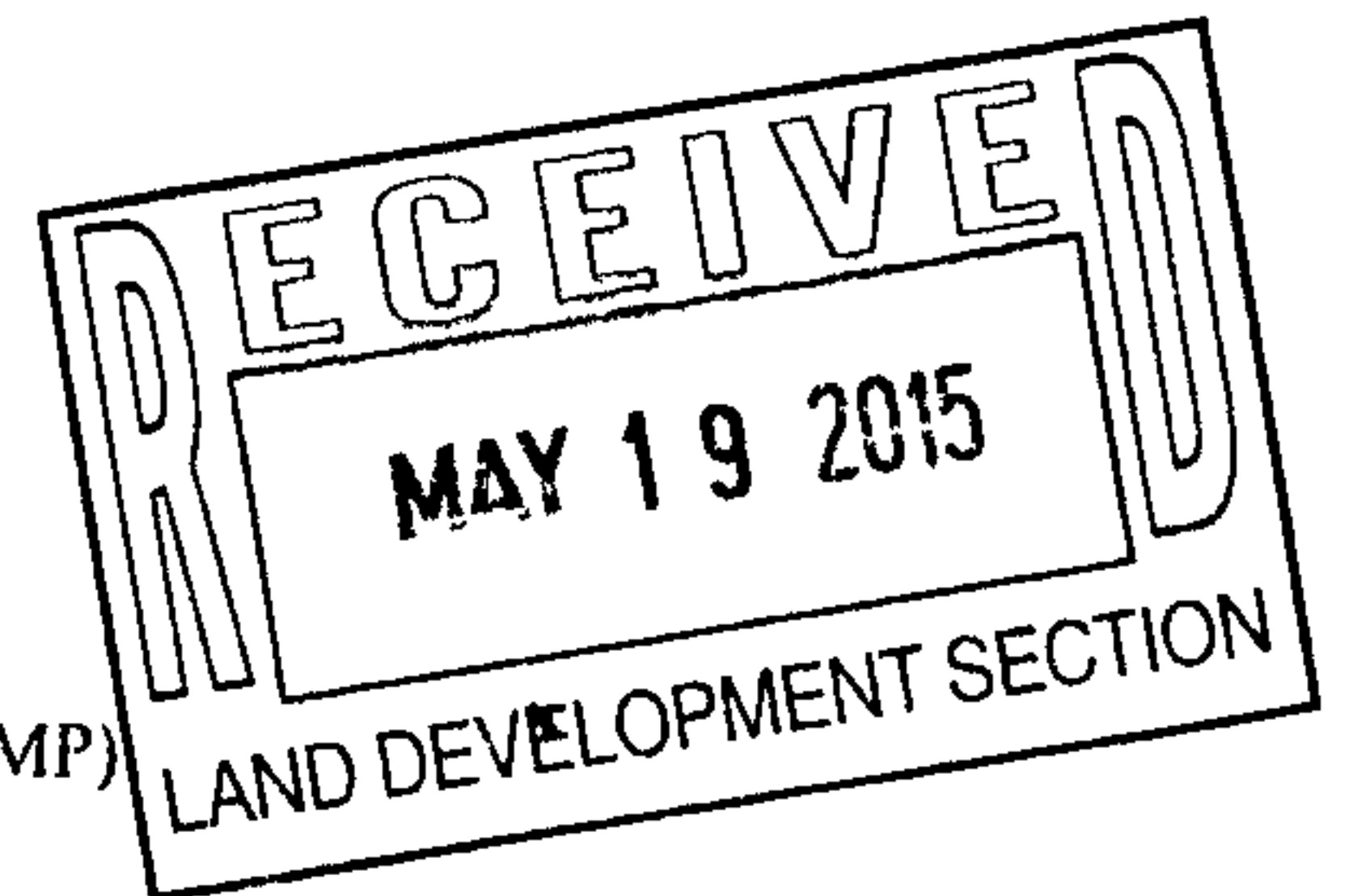
E-mail: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERT (TCL)
- ☐ ENGINEER'S CERT (DRB SITE PLAN)
- ☐ ENGINEER'S CERT (ESC)
- ☐ SO-19
- ☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE 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
- ☐ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
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- ☒ BUILDING PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ GRADING CERTIFICATION
- ☐ SO-19 APPROVAL
- ☐ ESC PERMIT APPROVAL
- ☐ ESC CERT. ACCEPTANCE
- ☐ OTHER (SPECIFY) _____



WAS A PRE-DESIGN CONFERENCE ATTENDED: _____

DATE SUBMITTED: 5/19/15

By: Brad B. Copy Provided

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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
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development