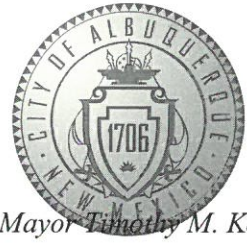


# CITY OF ALBUQUERQUE

Planning Department  
David Campbell, Director



Mayor Timothy M. Keller

January 17, 2019

Richard Dourte, P.E.  
RHD Engineering LLC  
4305 Purple Sage Ave. NW  
Albuquerque, New Mexico 87120

RE: **Lot 35 Block 6 Unit 2 SAD 227**  
**7904 Kibo NW**  
**Volcano Cliffs Subdivision**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 1/10/19 (E10D056)**

Dear Mr. Dourte,

Based upon the information provided in your submittal received 1/10/19, this plan cannot be approved for Grading Permit until the following comments are addressed.

PO Box 1293

- Provide a scale and the north arrow.
- Provide the property line for the entire site.
- The driveway appears to be entering the site through another property, clarify.
- Provide a benchmark.

Albuquerque

**Prior to building permit approval a pad certification will be required.**

NM 87103

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

www.cabq.gov

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

James D. Hughes, P.E.  
Principal Engineer, Hydrology  
Planning Department

RR/JDH  
C: File E10D056



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** Lot 35, Bk 6, Volcano Cliffs **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** Lot 35, Block 6, Volcano Cliffs no. 2

**City Address:** 7904 Kibo Drive NW

**Applicant:** RHD Engineering, LLC **Contact:** Richard Dourte

**Address:** 4305 Purple Sage Ave. NW, Alb. NM, 87120

**Phone#:** 505.288.1621 **Fax#:** \_\_\_\_\_ **E-mail:** rhengineering@outlook.com

**Other Contact:** Joe Simons Architecture **Contact:** Joe Simons

**Address:** PO Box 67408, Alb. NM 87193-7048

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** joe@simonsarchitecture.com

**TYPE OF DEVELOPMENT:** \_\_\_\_\_ PLAT (# of lots) ☒ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

**IS THIS A RESUBMITTAL?** \_\_\_\_\_ Yes ☒ No

**DEPARTMENT** \_\_\_\_\_ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

### TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE MASTER PLAN
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ OTHER (SPECIFY) \_\_\_\_\_
- ☐ PRE-DESIGN MEETING?

### 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
- ☐ FLOODPLAIN DEVELOPMENT PERMIT
- ☐ OTHER (SPECIFY) \_\_\_\_\_

**DATE SUBMITTED:** 1-10-19 **By:** Richard Dourte

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



DRAINAGE NARRATIVE:

1. THIS SITE IS LOCATED WITHIN THE SAD 227 DRAINAGE PLAN. AN ALLOTMENT OF 3600SF OF IMPERVIOUS AREA PER LOT IS PERMITTED TO DRAIN TO THE SAD 227 STORM DRAIN SYSTEM. THIS SITE IS PROPOSED TO HAVE 3925SF OF IMPERVIOUS AREA. THE DIFFERENCE IN THE RUNOFF WILL NEED TO BE PONDED ONSITE. THIS SITE WOULD BE REQUIRED TO POND ONLY 26CF. SEE THE DRAINAGE CALCULATIONS BELOW.
2. BASIN N IS REQUIRED TO POND THE 100YR 6HR EVENT =391CF. THIS IS GREATER THAN THE FIRST FLUSH VOLUME OF 26CF. THE TWO PONDS FOR THIS AREA ARE 320CF+80CF= 400CF. THUS THE VOLUME PROVIDED IS GREATER THAN THE VOLUME REQUIRED.
3. BASIN S IS REQUIRED TO POND THE FIRST FLUSH VOLUME OF 86CF. THE POND VOLUME IS 100CF. THUS THE POND VOLUME PROVIDE IS GREATER THAN THE VOLUME REQUIRED.

GENERAL NOTES:

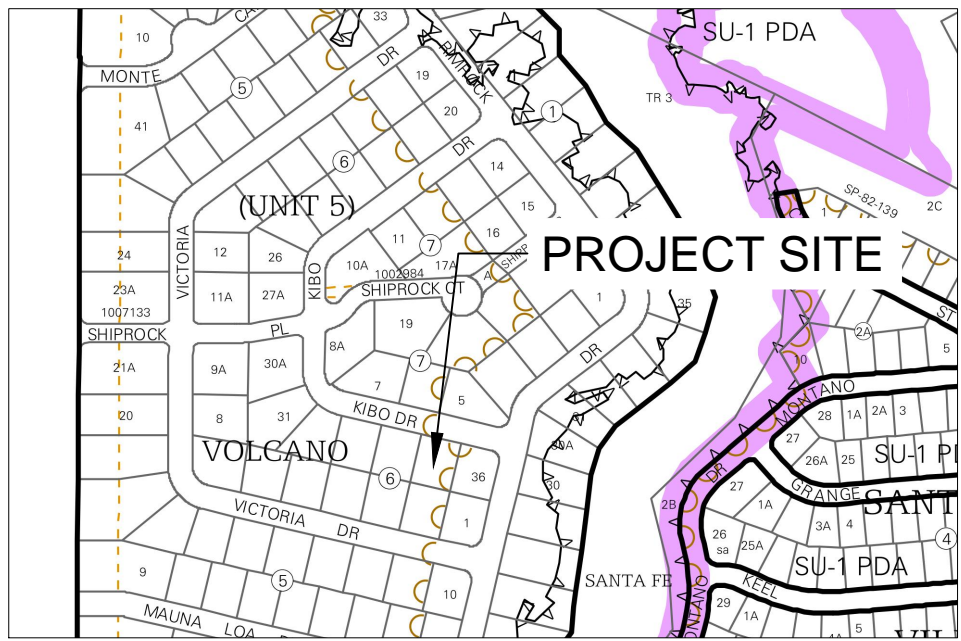
1. THIS SITE IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE ( REFER TO THE FIRM MAP 35001C0113G, EXCERPT ATTACHED).
2. RHD ENGINEERING, LLC RECOMMENDS THAT THE OWNER OBTAIN A GEOTECHNICAL REPORT PRIOR TO DESIGN OF BUILDING FOOTING/FOUNDATION.
3. SLOPE STABILAZATION SHALL BE USED ON SLOPES GREATER THAN A 3:1 SLOPE, PER MANUFACTURER RECOMMENDATIONS.
4. ALL SWPPP REQUIREMENTS SHALL BE ADHERED TO.
5. ALL WORK ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO WORK COMMENCING.
6. ALL WORK IN THE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS.
7. THE SURVEY INFORMATION WAS PROVIDED BY MR. DAVID ACOSTA, NMPS 21082, CONSTRUCTION SURVEY TECHNOLOGIES, INC.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



VICINITY MAP: E-10-Z



FIRM MAP: 35001C0113G

LEGAL DESCRIPTION:

LOT 35, BLOCK 6, VOLCANO CLIFFS NO. 2  
CITY OF ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. RETAIN THE FIRST .34' OF STORM RUNOFF FROM IMPERVIOUS AREA OF DEVELOPMENT TO CONFORM TO THE WATER QUALITY REQUIREMENTS.

LEGEND

- 46.00  
TW=44.00  
PROPOSED SPOT ELEVATION  
TOP OF WALL ELEVATION  
BOTTOM OF WALL ELEVATION  
EXISTING CONTOUR  
EXISTING INDEX CONTOUR  
PROPOSED CONTOUR  
PROPOSED INDEX CONTOUR  
LOT LINE  
RIGHT-OF-WAY  
PROPOSED RETAINING WALL  
PROPOSED ROCK FACE WALL  
EXISTING CURB AND GUTTER  
PROPOSED EDGE OF CONCRETE  
PROPOSED FLOWLINE  
EXISTING WALL  
PROPOSED BASIN BOUNDARY

Project: Lot 35, block 6, Volcano Cliffs no. 2										
Drainage Calculations - Zone 1										
Depth (inches) at 100yr Storm						Excess Precipitation, E(inches) - 6 HR Treatment				
Zone	P60	P360	P1440	P10days	P10days	Zone	A	B	C	D
1	1.87	2.20	2.66	3.12	3.67	1	0.44	0.67	0.99	1.97
2	2.01	2.35	2.75	3.30	3.95	2	0.53	0.78	1.13	2.12
3	2.14	2.60	3.10	3.95	4.90	3	0.66	0.92	1.29	2.36
4	2.23	2.90	3.65	4.70	5.95	4	0.80	1.08	1.46	2.64
Weighted E = ((Ea*As)+(Eb*Ab)+(Ec*Ac)+(Ed*Ad))/((Aa+Ab+Ac+Ad))						Peak Discharge (CFS/ACRE) 100 YR Treatment				
V360=(Weighted E *P360)/12 in/ft						Zone				
V1440= V360+Ad*(P1440-P360)/12in/ft						A B C D				
V10days=V360+Ad*(P10days-P360)/12in/ft						1 1.29 2.03 2.87 4.37				
						2 1.56 2.28 3.14 4.70				
						3 1.87 2.60 3.45 5.02				
						4 2.20 2.92 3.73 5.25				
*****DESIGN CRITERIA*****										
Area	SQ. FT	Acres	% Total	Design Flows (CFS)						
A=	0	0.000	0%	Area	SQ. FT	Acres	Peak Discharge (100 YR)			
B=	0	0.000	0%	A=	0	0.000	0.00			
C=	8400	0.193	70%	B=	0	0.000	0.00			
D=	3600	0.083	30%	C=	8400	0.193	0.55			
Total	12000	0.275	100%	D=	3600	0.083	0.36			
Weighted E= 1.284				Total (CFS)				0.91		
*****PROPOSED CONDITIONS BASIN S*****										
Area	SQ. FT	Acres	% Total	Design Flows (CFS)						
A=	0	0.000	0%	Area	SQ. FT	Acres	Peak Discharge (100 YR)			
B=	0	0.000	0%	A=	0	0.000	0.00			
C=	5125	0.118	63%	B=	0	0.000	0.00			
D=	3025	0.069	37%	C=	5125	0.118	0.34			
Total	8150	0.187	100%	D=	3025	0.069	0.30			
Weighted E= 1.354				Total (CFS)				0.64		
*****PROPOSED CONDITIONS BASIN N*****										
Area	SQ. FT	Acres	% Total	Design Flows (CFS)						
A=	0	0.000	0%	Area	SQ. FT <td>Acres<td>Peak Discharge (100 YR)</td><td colspan="2"></td></td>	Acres <td>Peak Discharge (100 YR)</td> <td colspan="2"></td>	Peak Discharge (100 YR)			
B=	0	0.000	0%	A=	0	0.000	0.00			
C=	2950	0.068	77%	B=	0	0.000	0.00			
D=	900	0.021	23%	C=	2950	0.068	0.19			
Total	3850	0.088	100%	D=	900	0.021	0.09			
Weighted E= 1.219				Total (CFS)				0.28		
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B=	0	0.000	0%	A=	0	0.000	0.00			
C=	2950	0.068	77%	B=	0	0.000	0.00			
D=	900	0.021	23%	C=	2950	0.068	0.19			
Total	3850	0.088	100%	D=	900	0.021	0.09			
Weighted E= 1.219				Total (CFS)				0.28		
*****DESIGN CRITERIA*****										
Area	SQ. FT	Acres	% Total	Design Flows (CFS)						
A=	0	0.000	0%	Area	SQ. FT <td>Acres<td>Peak Discharge (100 YR)</td><td colspan="2"></td></td>	Acres <td>Peak Discharge (100 YR)</td> <td colspan="2"></td>	Peak Discharge (100 YR)			
B=	0	0.000	0%	A=	0	0.000	0.00			
C=	2950	0.068	77%	B=	0	0.000	0.00			
D=	900	0.021	23%	C=	2950	0.068	0.19			
Total	3850	0.088	100%	D=	900	0.021	0.09			
Weighted E= 1.219				Total (CFS)				0.28		
*****DESIGN CRITERIA*****										
Area	SQ. FT	Acres	% Total	Design Flows (CFS)						
A=	0	0.000	0%	Area	SQ. FT <td>Acres<td>Peak Discharge (100 YR)</td><td colspan="2"></td></td>	Acres <td>Peak Discharge (100 YR)</td> <td colspan="2"></td>	Peak Discharge (100 YR)			
B=	0	0.000	0%	A=	0	0.000	0.00			
C=	2950	0.068	77%	B=	0	0.000	0.00			
D=	900	0.021	23%	C=	2950	0.068	0.19			
Total	3850	0.088	100%	D=	900	0.021	0.09			
Weighted E= 1.219				Total (CFS)				0.28		
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B=	0	0.000	0%	A=	0	0.000	0.00			
C=	2950	0.068	77%	B=	0	0.000	0.00			
D=	900	0.021	23%	C=	2950	0.068	0.19			
Total	3850	0.088	100%	D=</						