

# CITY OF ALBUQUERQUE

Planning Department

David Campbell, Director



Mayor Timothy M. Keller

July 9, 2018

David Soule, P.E.  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, New Mexico 87199

RE: **Lot 16 Block 6 SAD 228**  
**6220 Camino Alto NW**  
**Volcano Cliffs Subdivision**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 7/6/18 (D10D003B16)**

Dear Mr. Soule,

Based upon the information provided in your submittal received 7/6/18, this plan cannot be approved for Grading Permit until the following comments are addressed.

- Show the 10' PUE in the rear yard and side yard.
- Provide one FF elevation.

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

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

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



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

**Project Title:** 6220 CAMINO ALTO **Building Permit #:** XX **Hydrology File #:** \_\_\_\_\_

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

**Legal Description:** LOT 16, BLOCK 6 VOLCANO CLIFFS UNIT 22

**City Address:** 6620 CAMINO ALTO ROAD NW

**Applicant:** Gabe Chavez

**Contact:** \_\_\_\_\_

**Address:** 6220 camino alto nw

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** RIO GRANDE ENGINEERING

**Contact:** DAVID SOULE

**Address:** PO BOX 93924 ALB NM 87199

**Phone#:** 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

**TYPE OF DEVELOPMENT:** \_\_\_\_\_ PLAT \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

Check all that Apply:

### DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE  
☐ TRAFFIC/ TRANSPORTATION

### 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?

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

### 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:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

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

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



Weighted E Method

							100-Year, 6-hr.						
Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted (ac-ft)	Volume (ac-ft)	Flow cfs				
UPLAND	10580.00	0.243	0%	0	10%	0.024	40%	0.0972	50%	0.121	0.807	0.016	0.58
ALLOWED	11993.00	0.275	0%	0	10%	0.028	40%	0.1101	50%	0.138	1.448	0.033	0.97
PROPOSED	11993.00	0.275	0%	0	10%	0.028	54%	0.1487	36%	0.099	1.311	0.030	0.92
total													

Equations:

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted D \* Total Area

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm- zone 1

Qa= 1.29  
Eb= 0.67  
Ec= 0.99  
Ed= 1.97

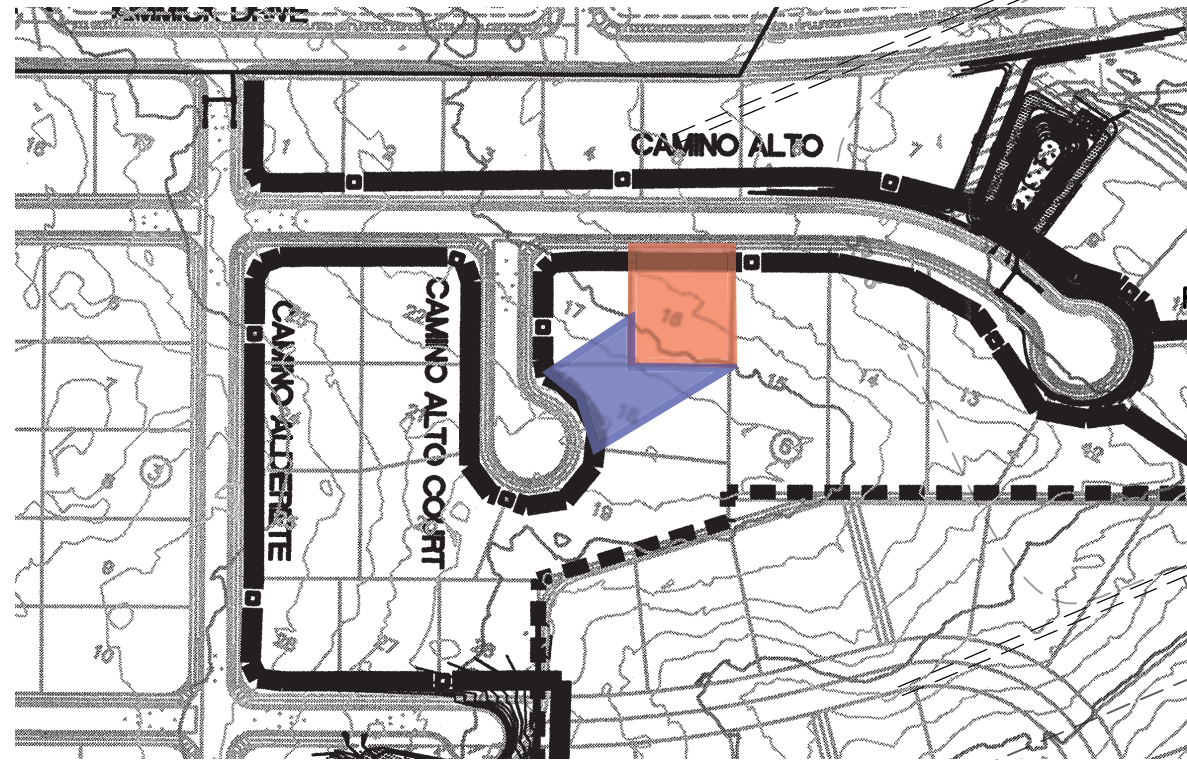
Qb= 2.03  
Qc= 2.87  
Qd= 4.37

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	122	456
FLOOD CONTROL	0	456

Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent roadway to northeast per the master drainage plan. We are ponding the water harvest volume generated by the site there is not measurable upland flow. This plan has a shallow water harvest pond in excess of the drainage regulations. This plan is in conformance to the master drainage plan



CONSTRUCT 20' DRIVEWAY AND SIDEWALK PER COA STD DWG #2405, 2425, 2430

BUILD FIRST FLUSH POND TOP=5308.00 BOTTOM=5307.50 REQUIRED VOLUME=193 CU. FT.

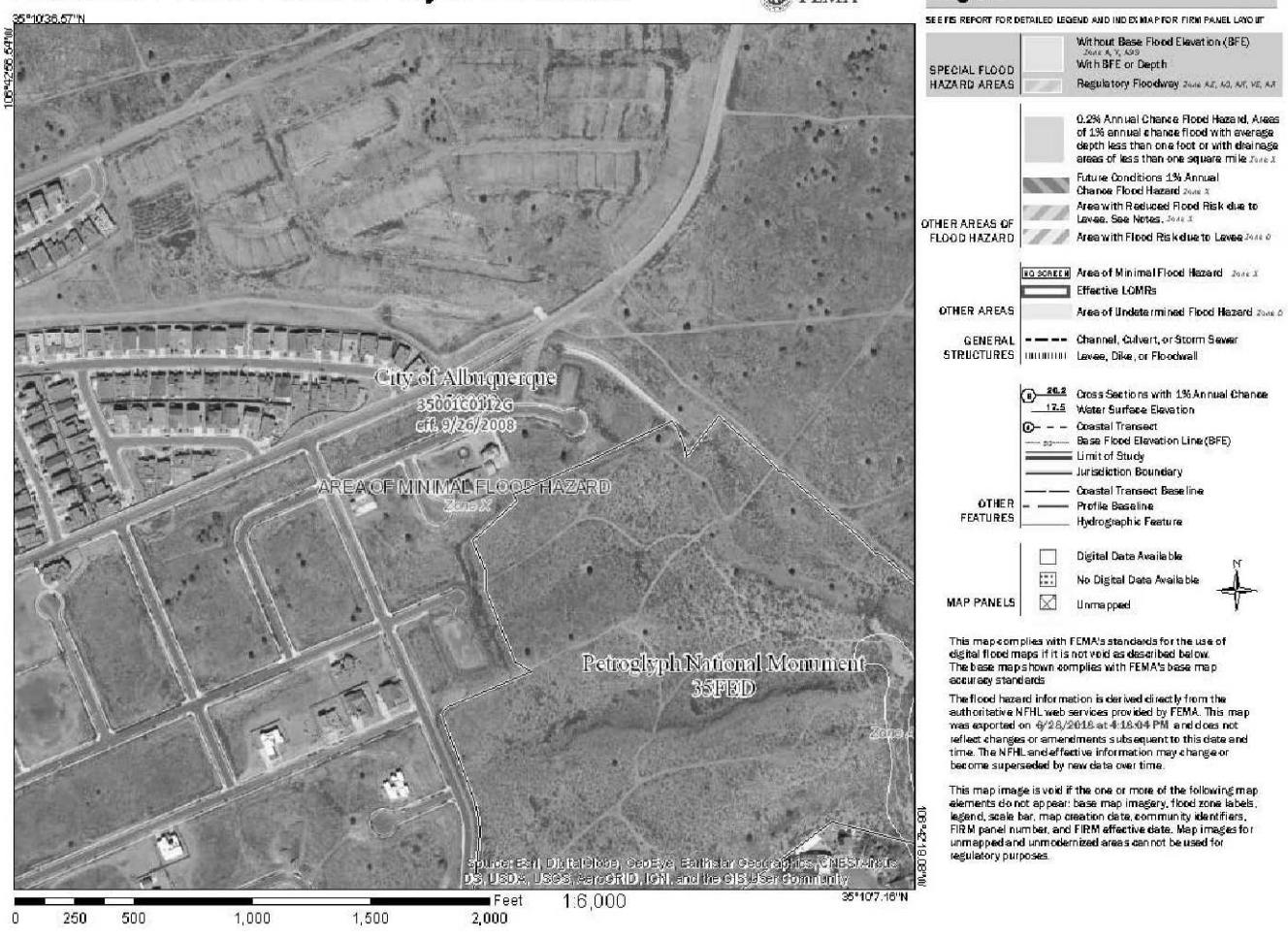
BUILD FIRST FLUSH POND TOP=5307.50 BOTTOM=5307.000 REQUIRED VOLUME=263 CU. FT.

Project Benchmark Elev=5306.55 Fnd Scribe in Concrete NE Corner of Lot 15



VICINITY MAP: D-10-Z

National Flood Hazard Layer FIRMette



FIRM MAP:

LEGAL DESCRIPTION:

Lot 16, Block 6, Volcano Cliffs Unit 22

NOTES:

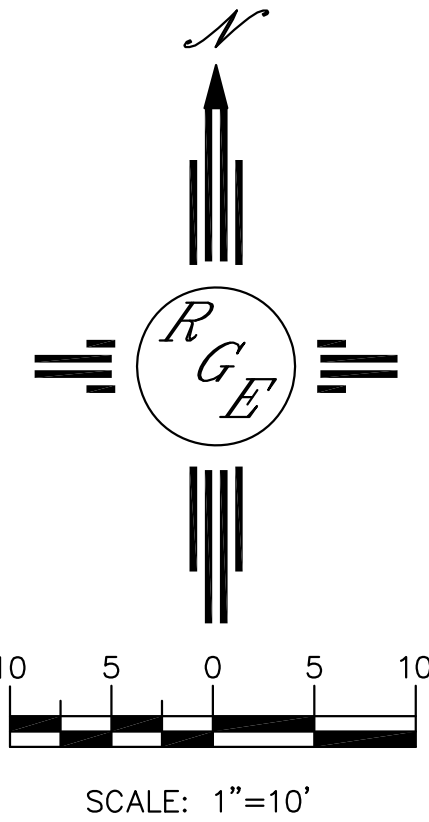
- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- A PAD CERTIFICATION IS REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT
- ANY PERIMETER WALLS SHALL BE CONSTRUCTED UNDER A SEPARATE BUILDING PERMIT AND MUST CONFORM TO THE APPROVED GRADING PLAN ALLOWING CROSS LOT DRAINAGE


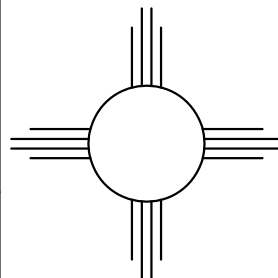
LEGEND

-----XXXX-----	EXISTING CONTOUR
-----XXXX-----	EXISTING INDEX CONTOUR
-----XXXX-----	PROPOSED CONTOUR
-----XXXX-----	PROPOSED INDEX CONTOUR
-----XXXX-----	SLOPE TIE
+ XXXX	EXISTING SPOT ELEVATION
+ XXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	CENTERLINE
-----	RIGHT-OF-WAY
=====	EXISTING CURB AND GUTTER
=====	PROPOSED CMU SCREEN WALL
=====	ROCK PLATTING-SEE DETAIL THIS SHEET

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.



ENGINEER'S SEAL  7/6/18 DAVID SOULE P.E. #14522	6220 CAMINO ALTO	DRAWN BY: WCVJ
	GRADING AND DRAINAGE PLAN	DATE: 7-06-18
	 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	218126-LAYOUT-7-06-18
		SHEET #
		JOB # 218126