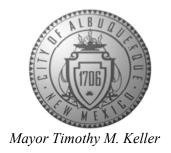
CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



December 18, 2020

Jesse J Luehring, P.E. Critical View Engineering 11501 Modesto Ave NE Albuquerque, New Mexico 87122

RE: Lot 27, Block 9, Unit 18 S.A.D. 228 6519 Picardia Pl. NW Grading and Drainage Plan Engineers Stamp Date 12/13/2020 (D10D003I27)

Mr. Luehring,

Based upon the information provided in your submittal received 12/17/2020, this plan is approved for Grading Permit.

PO Box 1293

A pad certification is required before concrete is poured, either by a letter from you stating that the pad is built according to the plan submitted or by an as-built with elevations plotted.

Albuquerque

Please attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

NM 87103

Also, please advise the owner/contractor that a separate wall permit must be obtained and this approved grading plan must be provided with the wall permit application.

www.cabq.gov

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

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

Sincerely,

Ernest Armijo, P.E.

Principal Engineer, Planning Dept. Development Review Services



City of Albuquerque

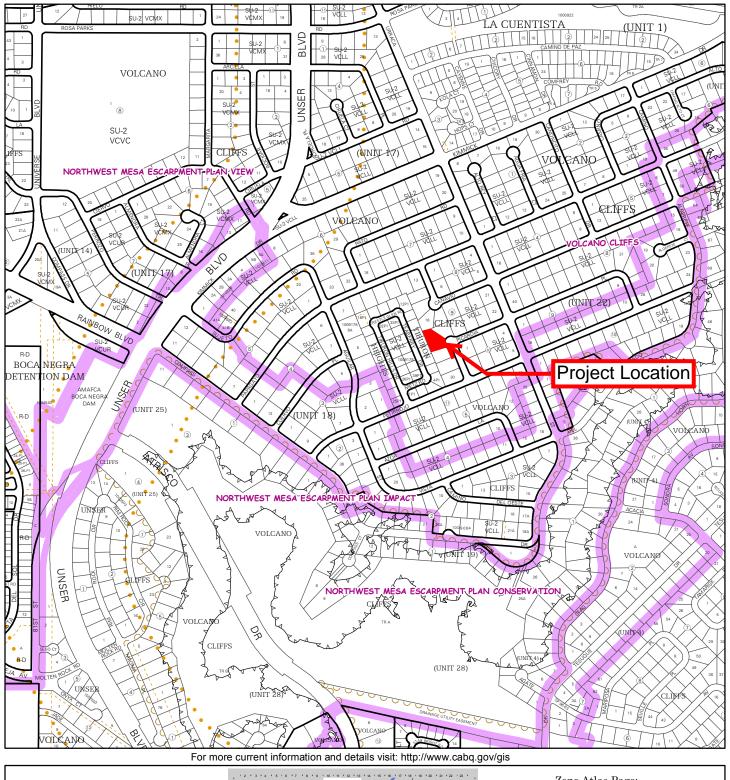
Planning Department

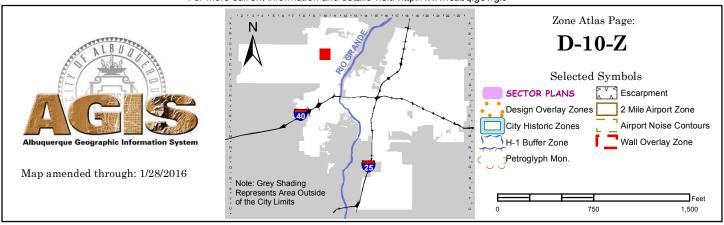
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

	Building F	Permit #: Hydrology File #:TBD
DRB#:	EPC#:	Work Order#:
Legal Description: Lot 27, Block 9, Vo	olcano Cliffs Unit 18	
City Address: 6519 Picardia PI NW		
Applicant: Critical View Engineering		Contact: Jesse Luehring
Address: 11501 Modesto Ave NE, Albuquerqu	e NM 87122	Contact.
		E-mail: criticalviewabq@gmail.com
Owner:Owner		Contact: Adam Garcia
Address: 2404 Maiden Grass Rd NW, Albud	querque NM 87120	
Phone#:505-620-4042	Fax#:	E-mail: adamagarcia@comcast.net
DEPARTMENT: TRAFFIC/ TRANCheck all that Apply:	SPORTATION _	
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFIC. PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PER ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	MIT APPLIC (TCL)	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 X GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR FLOODPLAIN DEVELOPMENT PERMIT OTHER (SPECIFY)

FEE PAID:_

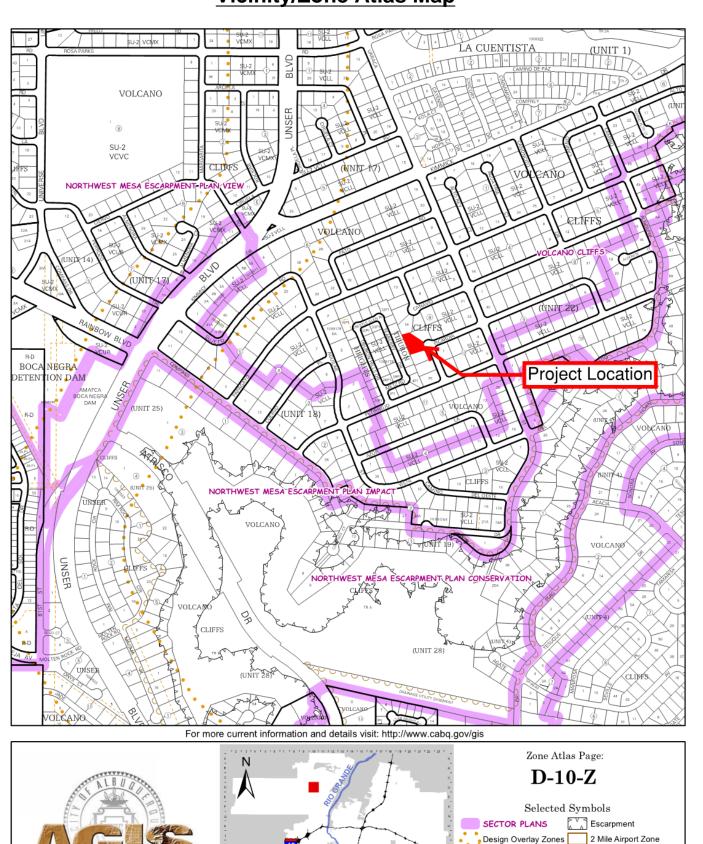




Drawn: 12/13/20 Rev: 0

CRITICAL VIEW ENGINEERING

Vicinity/Zone Atlas Map



H-1 Buffer Zone Wall Overlay Zone

New House Pad Elev.: 5337.0 1/2" Rebar Elev.: 5334.27 0 250 500

Pad Elev: 36.3

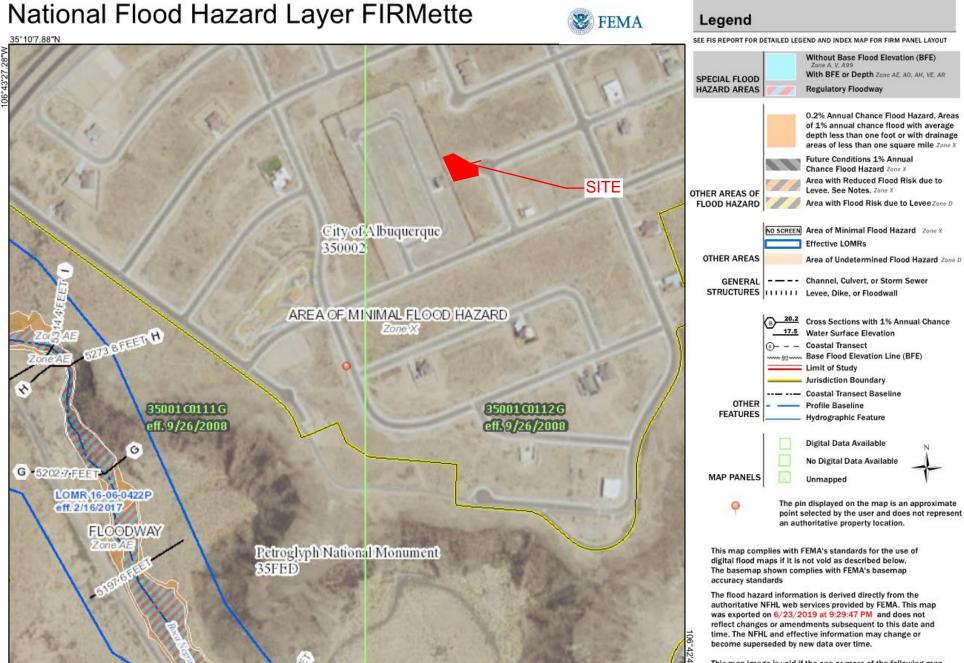
FF Elev: 36.7

---- 5335.5 - -- -- -- ----

2X, 4" Drainage Opening

Peak Discharge 1.41 CFS

@ 5333.5



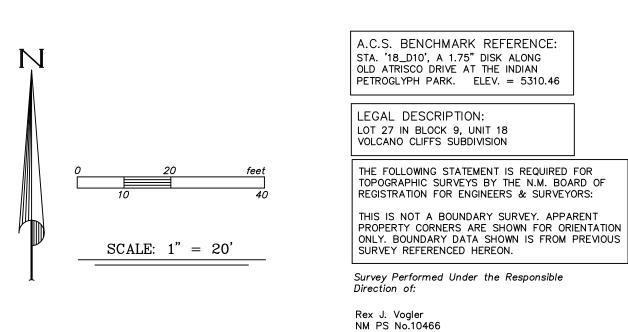
FEMA Flood Map

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for

Legend: **Existing Min. Contour** Existing Maj. Contour --- 5333.5--- Proposed Min. Contour 5333 Proposed Maj Contour Existing Spot Elev. **Proposed Spot Elev. Proposed Block Wall** Flow Direction

Note: Grey Shading
Represents Area Outside
of the City Limits

Map amended through: 1/28/2016



Rio Grande Surveying Co. POB 7155, Abq. NM 87194 (505)379—4579 mobile

rgsc360@gmail.com

Overflow Orifice Calcs

Pond Volume: 527 CF

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ipe diameter	4 <u>in ▼</u>	
//aterial	<u>Plastic</u> ▼	
Roughness coefficient	150	Ī
Pipe length	8 <u>in •</u>	T T
)гор	1 <u>in •</u>	
low velocity	13.44 ft/s •	
low discharge	1.173 <u>cu ft ▼</u> /s	
	x2 = 2.3 CFS	

Drainage Calculations

Picardia

Place

N.W.

Lot 27, Block 9, Volcano Cliffs Unit 18												
Land		Property	SAD 228	100-Yr Storm	Excess	Peak Discharge	Peak Rate of	100-Yr Storm	First Flush			
Туре	Area Lot (SF)	Area %	DMP %	Inch Depth (6 hr)	Precip (In)	CFS/AC	Discharge (CFS)	Volume (Ac-Ft)	Volume (Ac-Ft)			
Type D	7139	38%	50%	2.20	1.97	4.37	0.72	0.027	0.004644			
Type C	7409	39%	40%	2.20	0.99	2.87	0.49	0.014	0.001276			
Type B	4348	23%	10%	2.20	0.67	2.03	0.20	0.006	0.000749			
	18896	100%	100%				1.41	0.047	0.006668			
						ALLOWED Peak Discharge:	1.55	CFS				
						ACTUAL Peak Discharge:	1.41	CFS				
Total Dusiness Basin Aves		18896	SF			First Flush Volume:	290	Cubic Ft				
Total Drainage Basin Are	ige basiii Afea.	0.434	AC			100-Yr Storm Volume	2026	Cubic Ft				

- 1. All perimeter walls shall be permitted separately
- 2. No grading shall be allowed on adjacent properties
- 3. A pad certification is required before the building permit is issued 4. An as-built certification is required before certificate of occupancy is issued.
- All disturbed areas shall be stabilized with concrete, gravel, asphalt,
- 6. It is recommended to contract with a licensed geotechnical engineer for all aspects of earthwork and engineered fill material
- 7. Driveway cutout shown in concept form only, and shall comply with NM Standard Specs for Public Works Construction, specifically Std
- 8. Any sideyard gates shall allow drainage conveyance

General Notes

This is a grading and drainage Plan for the construction of the building pad for the Lot at address 6519 Picardia PI (Lot #27, Block #9, Volcano Cliffs Subdivision Unit 18, a part of Special Assessment District 228)

The purpose of this plan is to establish the first floor elevation, house layout, site improvements layout, wall locations, and general lot drainage of the site. This drainage plan has been prepared in accordance with the latest revision to the City of Albuquerque Development Process Manual, and in accordance with the SAD 228 Drainage Report dated November 2011. There are negligible offsite flows entering this property. The site is located in rainfall 'Zone 1' per the

Drainage Intent:

Existing Conditions: This lot is an 0.4338 acre vacant land property, that is bound on the South and North East by undeveloped lots, developed lots on the North and West, with street frontage to Picardia PI to the East. The lot is lower than the elevation of the road, and generally drains to the South, with negligible offsite flows entering the property. The SAD 228 DMP places this property in drainage basin 201-L, and assumes that onsite flows will drain south, eventually discharging into Pond 5 at the West end of SAD 228 development.

Proposed Conditions: Improvements to the lot include a new residence, concrete driveway, and future pool that will add approximately 7139 SF of impervious area, or 38% of the property area (SAD 228 DMP allows up to 50%). The lot is designed to drain to the Southwest corner, in accordance with the SAD 228 DMP and approved G&D plan D10D003A.

A water quality detention pond with a volume of 527 Cu. Ft. is designed to capture the 'first flush' of approximately 290 Cu. Ft. The existing sandy loam soils at the site are well drained (hydrologic soil group 'B') which will ensure a short retention time. Larger storm event flows will overflow through the wall drainage opening at the SW corner of the lot, at a peak rate of 1.41 CFS.

Additional improvements will include the construction of approximately 230 LF of 6 ft tall garden wall. These walls may retain up to 2' of soil. Drainage will traverse through any location of gates on the sideyard, and gates will be a minimum of 6" above grade.

First Flush:

The initial 'First Flush' to be managed on this lot is 0.44" less 0.10" initial abstraction, resulting in a net of 0.34" rainfall, or 290 cubic feet of detention storage for this property. The initial storage on site will be collected and held in the 527 cubic foot capacity landscape pond near the SW corner of the property as shown on the Plan.

Engineer's Certification

, Jesse Luehring, hereby certify that I have inspected the site, and that all existing grades are accurately reflected in the topographic survey obtained to develop this grading and drainage plan.

Jesse Luehring, PE #21684