CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



October 18, 2022

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

RE: Lot 11 Block 9 Unit 18 SAD 228

6524 Papagayo Pl. NW Volcano Cliffs Subdivision Grading and Drainage Plan

Engineers Stamp Date 10/3/2020 (D10D003I11)

CO Certification Date: 10/18/2022

Mr. Luehring,

PO Box 1293

Based on the Certification received on 10/17/2022, the site is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

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

NM 87103

Sincerely,

www.cabq.gov

Tiequan Chen, P.E.

Principal Engineer, Hydrology

Planning Department

RR/EA

C: File D10D003I11



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

	_	ermit #: Hydrology File #: F12D004
		Work Order#:
e 1 <u> </u>	ano Cliffs Unit 19	-
City Address: 6524 Papagayo Rd NW		
Applicant: Critical View Engineering		Contact:
Address:10900 Florence Ave NE, Albuquerque		
Phone#: 505-321-5917	Fax#:	E-mail: criticalviewabq@gmail.com
Other Contact: Builder		Contact: Lukas Gallegos
Address:1901 Avondale PI NW, Albuquerque	NM 87120	
		E-mail: handwconstructionllc@gmail.c
		X RESIDENCE DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL? X Ye DEPARTMENT TRANSPORTATION		
Check all that Apply: TYPE OF SUBMITTAL: X ENGINEER/ARCHITECT CERTIFICAT PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMI ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (T TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	IT APPLIC CL)	TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL XCERTIFICATE 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: 10/18/22	By:	Jesse Luehring
COA STAFF:		IC SUBMITTAL RECEIVED:

FEE PAID:_____

Critical View Engineering

PO Box 90073 Albuquerque, NM 87199 505-321-5917



Rudy Rael City of Albuquerque, Planning Department Development Review Services

RE: RESUBMITTAL #2--COO Certification by Engineer of Record (F12D004)

Property Desc: Lot 11, Block 9, Unit 19

I, Jesse J. Luehring, NM Professional Engineer #21684, working on behalf of Critical View Engineering, LLC, hereby certify that the overall grading of the subject property is in substantial conformance to the approved plans dated 8/11/20, and will drain in accordance with the design intent. All 'as-built' elevations are shown on the attached plan.

The record information edited onto the original design document has been obtained under my supervision, and is true and correct to the best of my knowledge and belief. This certification is for the pad elevation, finished floor elevation and site grading, and is submitted to support the Certificate of Occupancy per DPM Part 6-14(G) for this residence. Revision includes an increase land treatment 'D' for the footprint change and pool that were constructed but not reflected in the original approved G&D. Also included is additional photos demonstrating the addition of a swale to protect against masonry wall erosion.

Note that the record information presented herewith is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of the property. Those relying on this record document are advised to obtain independent verification of its accuracy.

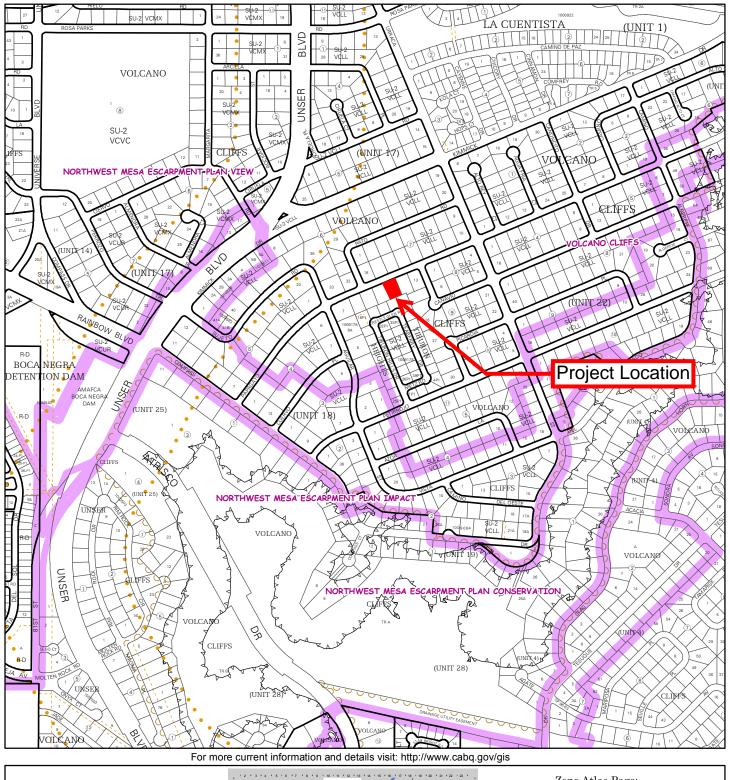
Very Respectfully,

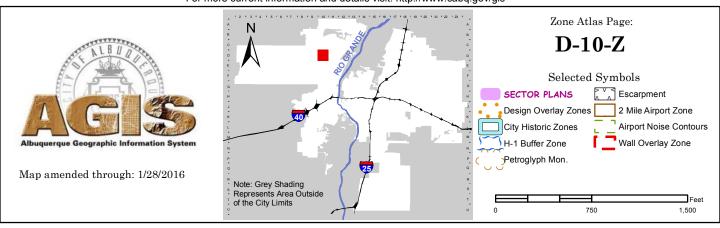
Jesse Luehring, PE

Attached: Revised Plan reflecting actual site conditions

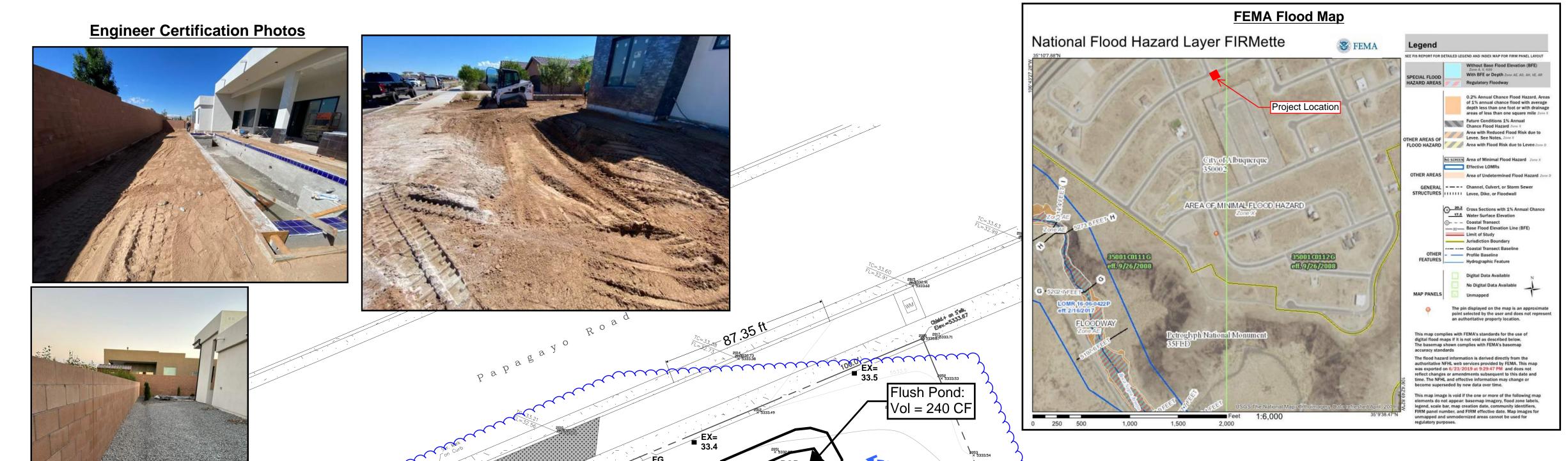


10-18-22









FF Elev: 34.6'

33.9

Intermediate Flush Pond: Vol = 105 CF FG ■ 33.7

34.0

Narrative:

Detail 2425

property as shown

General Notes

. All perimeter walls shall be permitted separately 2. No grading shall be allowed on adjacent properties

for all aspects of earthwork and engineered fill material

3. A pad certification is required before the building permit is issued

4. An as-built certification is required before certificate of occupancy is

5. All disturbed areas shall be stabilized with concrete, gravel, asphalt,

6. It is recommended to contract with a licensed geotechnical engineer

7. Driveway cutout shown in concept form only, and shall comply with

8. Any sideyard gates shall allow drainage conveyance to the front of the

NM Standard Specs for Public Works Construction, specifically Std

This is a grading and drainage Plan for the construction of the building pad for the Lot at address 6524 Papagayo Rd (Lot #11, Block #9, Volcano Cliffs Subdivision Unit 18, a part of Special Assessment District

The purpose of this plan is to establish the first floor elevation, house layout, site concrete 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 DPM.

Drainage Intent:

Vicinity/Zone Atlas Map

D-10-Z

Existing Conditions: This lot is an 0.33 acre vacant land property, that is bound on the South, East, and West by developed lots, with street frontage to Papagayo Rd. to the North. The lot is lower than the elevation of the road, and generally drains to the West, with negligible offsite flows entering the property. The SAD 228 DMP places this property in drainage basin 201-H, and assumes that onsite will drain West or North to the street, eventually discharging into Pond 5 at the West end of SAD 228 development.

Proposed Conditions: Improvements to the lot include a new residence, pool, and concrete driveway that will add approximately 6700 SF of impervious area (note pool is assumed to be land treatment 'D'), or 46% of the property area (SAD 228 DMP allows up to 50%). The lot is designed to drain to the street, in accordance with the SAD 228 DMP.

A water quality detention pond with a volume of 240 Cu. Ft. is designed to capture the 'first flush' of approximately 235 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 discharge from the NW edge of the pond by overflowing the existing sidewalk.

Additional improvements will include the construction of approximately 100 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.

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 202 cubic feet of detention storage for this property. The initial storage on site will be collected and held in the 228 cubic foot capacity landscape pond near the street 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

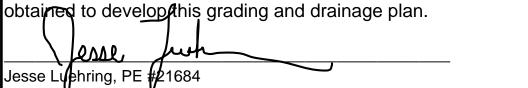
> Revision A: 10/3/20 Modified to reflect

actual Pad Elevation

Revision B: 10/18/22

COO As-built Info

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Mainere Calaulations **Drainage Calculations**

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	6695	46%	50%	2.20	1.97	4.37	0.67	0.025	0.004355
Туре С	6105	42%	40%	2.20	0.99	2.87	0.40	0.012	0.001051
Туре В	1700	12%	10%	2.20	0.67	2.03	0.08	0.002	-
	14500	100%	100%				1.15	0.039	0.005406
						ALLOWED Peak Discharge:	1.18	18 CFS	
						ACTUAL Peak Discharge:	1.15 CFS		
Tatal Dusings - Dasin Assaul	aga Dagin Araa.	14500	SF			First Flush Volume:	235	Cubic Ft	
Total Drainage Basin Area:		0.333 AC				100-Yr Storm Volume	1698 Cubic Ft		

Existing Min. Contour --- 5333.5--- Proposed Min. Contour Existing Spot Elev. **<----**

Legend:

Contour Interval is 0.5'

• Coordinates are modified NM State Plane ground surface coordinates. Central Zone, NAD83, using a combined factor of 1.000328829 applied at origin (0,0). • BenchMark Reference - National Geodetic Survey CORS Station 'ZAB1'.

Static GPS observations post-processed to ZAB1 to obtain NAVD88 elevations

• This is not a boundary survey. Property lines shown hereon are for reference only, and are based on previous surveys by others.

> Rio Grande Surveying Co. PC PO Box 7155 Albuquerque, NM 87194 (505) 379-4579 m rgsc360@gmail.com

May 14, 2020