CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

July 14, 2020

Donald Briggs, P.E.
Don Briggs Engineering LLC
5324 Oakledge Ct. NW
Albuquerque, New Mexico 87120

RE: **Lot 11 Block 9 Unit 22 SAD 228**
6405 Petirrojo Rd. NW
Volcano Cliffs Subdivision
Grading and Drainage Plan
Engineers Stamp Date; 6/30/21 (D10D00Q11)
C.O. Certification Date; 7/8/2021

Dear Mr. Briggs,

Based upon the information provided in your submittal received 7/14/2021, this plan is approved for Certificate of Occupancy release.

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

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: 6405 Petirrojo Rd. NW Building Permit #: _____ Hydrology File #: D10D003Q11

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: Lot 011 009 VOLCANO CLIFFS SUBD UNIT 22

City Address: 6405 Petirrojo Rd/ NW, Albuquerque, NM 87120

Applicant: Don Briggs Engineering LLC Contact: Don Briggs PE

Address: 5324 Oakledge Ct. NW, Albuquerque, NM 17820

Phone#: 505-249-4843 Fax#: _____ E-mail: donbriggsengineering@gmail.com

Owner: Southwest Elegant Homes Contact: Mia Huynh

Address: _____

Phone#: 440-4632 Fax#: _____ E-mail: swehomellc@gmail.com

TYPE OF SUBMITTAL: _____ PLAT (___# OF LOTS) _X_ RESIDENCE ____ DRB SITE ____ ADMIN SITE

IS THIS A RESUBMITTAL?: _X_ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION _X_ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

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

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ____ BUILDING PERMIT APPROVAL
- _X_ 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: 7/9/2021 By: Don Briggs

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

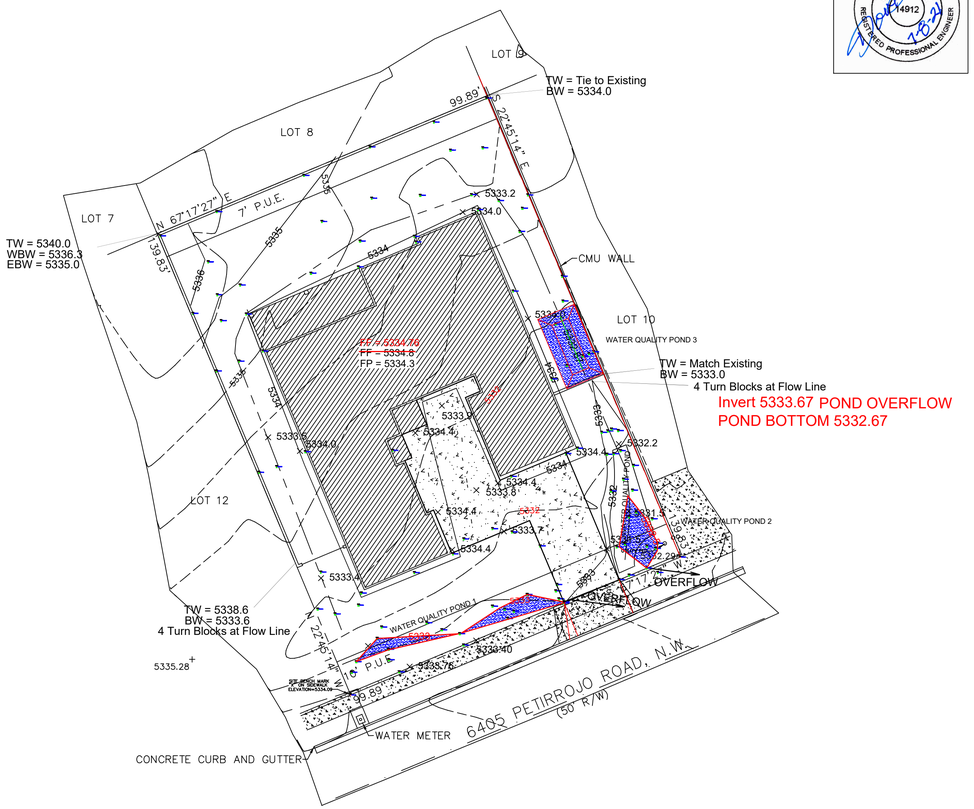
DRAINAGE CERTIFICATION

I, Don Briggs, NMPE 14912, OF THE FIRM Don Briggs Engineering LLC , 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 6/30/2021. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Andrew Medina PS , NMPS 12649, OF THE FIRM Sandia Land Surveying LLC .

I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 7/1/2021 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 CERTIFICATE OF OCCUPANCY.

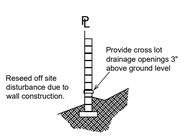
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND IS INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

DONALD R. BRIGGS NEW MEXICO 14912 REGISTERED PROFESSIONAL ENGINEER 7-6-21



Existing Contour
Design Contour
New 5' CMU Wall
Drainage Swale
G=5324.98 Existing Spot Elevation
5328.5 Proposed Spot Elevation

NATURAL GROUND CONTOUR
INTERVAL = 1.0'



SCALE 1" = 20'

DRAINAGE NARRATIVE

This grading & drainage plan was prepared to support a building permit application for a new residence located at 6405 Petirrojo Rd. NW. A review of the City Hydrology records indicate development of this property is governed by the Drainage Report for SAD 228. This report indicates allowable land treatment values of 0% A, 10% B, 40% C, and 50% D. If developed discharge rates exceed what is allowable using these land treatment values, mitigation measures will be required. This plan was prepared using the hydrology methodology presented in Chapter 22.2 of the City of Albuquerque's Development Process Manual (abbreviated method).

The site is a 0.34 acre parcel located in Precipitation Zone 1 and Floodzone X (Unshaded). It slopes from the north west to the south east at about 4.6%. The site is impacted by cross lot runoff from adjacent properties and ponds that water onsite. This plan is designed to meet the drainage requirements indicated in the SAD 228 report.

The hydrology analysis indicates the developed conditions will not increase discharge rates over what is allowed so mitigation measures are not required. However, a water quality pond is provided to meet EPA requirements. All onsite flows are directed to the front yard landscaping then to the street.

NOTE:
1. Pad Certification was provided for previous design on 7/27/20
2. A final inspection by Hydrology is required before a Certificate of Occupancy is released.
3. Provide openings in CMU wall 3" above ground to allow cross lot drainage.

GENERAL NOTES

Contractor is responsible for utility spots and controlling sediment deposition and erosion during construction.

A concrete washout bin must be provided as per City of Albuquerque MS4 Permit requirements.

All disturbed area due to construction must be reseeded or landscaped following construction.

Hydrology Calculations
6405 Petirrojo Rd. NW

Precipitation Zone 1
100 yr 6 hr Storm
Basin Area = 0.34 ac. 14810.4 sq ft Determined by DB
Allowable - SAD 228 Master Drainage Plan

Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	Comments
A	0.00%	0.00	0.44	1.29	0.00	0.00	Natural Ground
B	10.00%	0.03	0.67	2.03	0.00	0.07	Landscaped Areas
C	40.00%	0.14	0.99	2.87	0.01	0.39	Compacted earth
D	50.00%	0.17	1.97	4.37	0.03	0.74	Impervious Areas
TOTAL	100.00%	0.34	1.45		0.04	1.20	
					1787.12	cu ft	

Proposed 0.34 ac. 14810.4 sq ft Determined by DB

Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	Comments
A	0.00%	0.00	0.44	1.29	0.00	0.00	Natural Ground/Pond
B	8.10%	0.03	0.67	2.03	0.00	0.06	Landscaped Areas
C	50.80%	0.17	0.99	2.87	0.01	0.50	Compacted earth
D	41.10%	0.14	1.97	4.37	0.02	0.61	Impervious Areas
TOTAL	100.00%	0.34	1.37		0.04	1.16	
					1686.91	cu ft	

PONDING REQUIREMENT =		1686.91	-1787.12	-100.21	cu ft.	PONDING NOT REQUIRED
Water Quality Retention Volume	= 0.34" x	6086.38	sq ft =	172.45	cu ft.	
Water Quality Retention Volume Provided =				180.11	cu ft	

AS BUILT WATER QUALITY POND VOLUME

POND 1

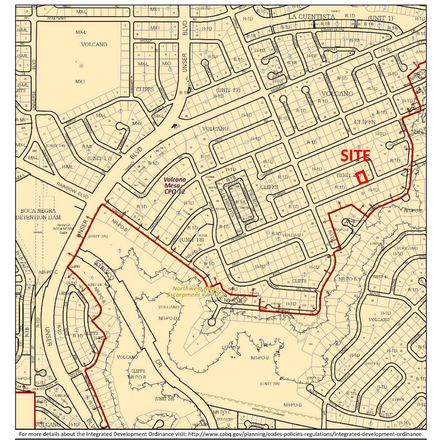
ELEVATION	AREA	AVE AREA	DEPTH	VOLUME	CUMULATIVE VOLUME		COMMENTS
(ft)	(sq ft)	(sq ft)	(ft)	(cu ft)	(cu ft)		
5331.50	0.00						
		0.00	1.28	0.00	0.00		
5332.78	0.00						
		70.77	0.22	15.57	15.57		
5333.00	141.55						
PONDING PROVIDED					15.57		

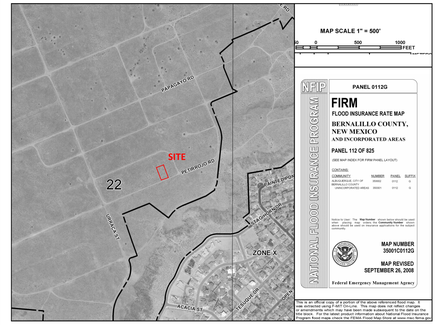
POND 2

ELEVATION	AREA	AVE AREA	DEPTH	VOLUME	CUMULATIVE VOLUME		COMMENTS
(ft)	(sq ft)	(sq ft)	(ft)	(cu ft)	(cu ft)		
5331.50	0.00						
		0.00	0.51	0.00	0.00		
5332.01	0.00						
		60.28	0.49	29.54	29.54		
5332.50	120.57						
PONDING PROVIDED					29.54		

POND 3

ELEVATION	AREA	AVE AREA	DEPTH	VOLUME	CUMULATIVE VOLUME		COMMENTS
(ft)	(sq ft)	(sq ft)	(ft)	(cu ft)	(cu ft)		
5332.67	60.00						
		135.00	1.00	135.00	135.00		
5333.67	210.00						
		105.00	0.00	0.00	135.00		
5333.67	0.00						
PONDING PROVIDED					135.00		





AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S INITIALS — BY — DATE
FIELD VERIFICATION — BY — DATE
MONUMENTATION
CORRECTED BY — DATE

BENCHMARKS
RECORDING INFORMATION
RECORDED BY
NO.

SURVEY INFORMATION
FIELD NOTES
NO. | DATE | BY

ENGINEER'S SEAL
DONALD R. BRIGGS NEW MEXICO 14912 REGISTERED PROFESSIONAL ENGINEER 7-6-21

NO.	DATE	REMARKS	BY
1.	9/11/20	REVISED FLOORPLAN	DB
2	6/30/21	REVISED GRADING/CONCRETE/PONDING	DB

REVISIONS
DESIGN — DATE 9/5/2019
DESIGNED BY DB
DRAWN BY DB — DATE 9/5/2019
CHECKED BY — DATE

DON BRIGGS Engineering LLC
505-249-4843
donbriggsengineering@gmail.com
5324 Oakledge Ct. NW, Albuquerque, NM 87120

TITLE:
6405 Pettirrojo Rd. NW
Grading & Drainage Plan

Design Review Committee	City Engineer Approval	Last Design Update	Mo. / Day / Yr.	Mo. / Day / Yr.

City Project No. D10D003Q11 | Zone Map No. | Sheet Of