

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

July 29, 2020

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

RE: **Lot 11 Block 9 Volcano Cliffs Unit 22 SAD 228**
6405 Petirrojo Rd. NW
Grading and Drainage Plan
Engineers Stamp Date 6/26/2020 (D10D003Q11)
Pad Certification Date 7/27/2020

Dear Mr. Briggs,

PO Box 1293

Based upon the information provided in your submittal received 7/28/2020, this plan is approved for Building Permit.

Albuquerque

Please inform the builder/owner to attach a copy of this approved plan and this letter to the construction sets in the permitting process prior to sign-off by Hydrology.

NM 87103

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan dated 6/26/2020 and Pad Certification Date 7/27/2020.

www.cabq.gov

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,

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)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

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

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

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

IS THIS A RESUBMITTAL?: _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION _____ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- _____ 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:

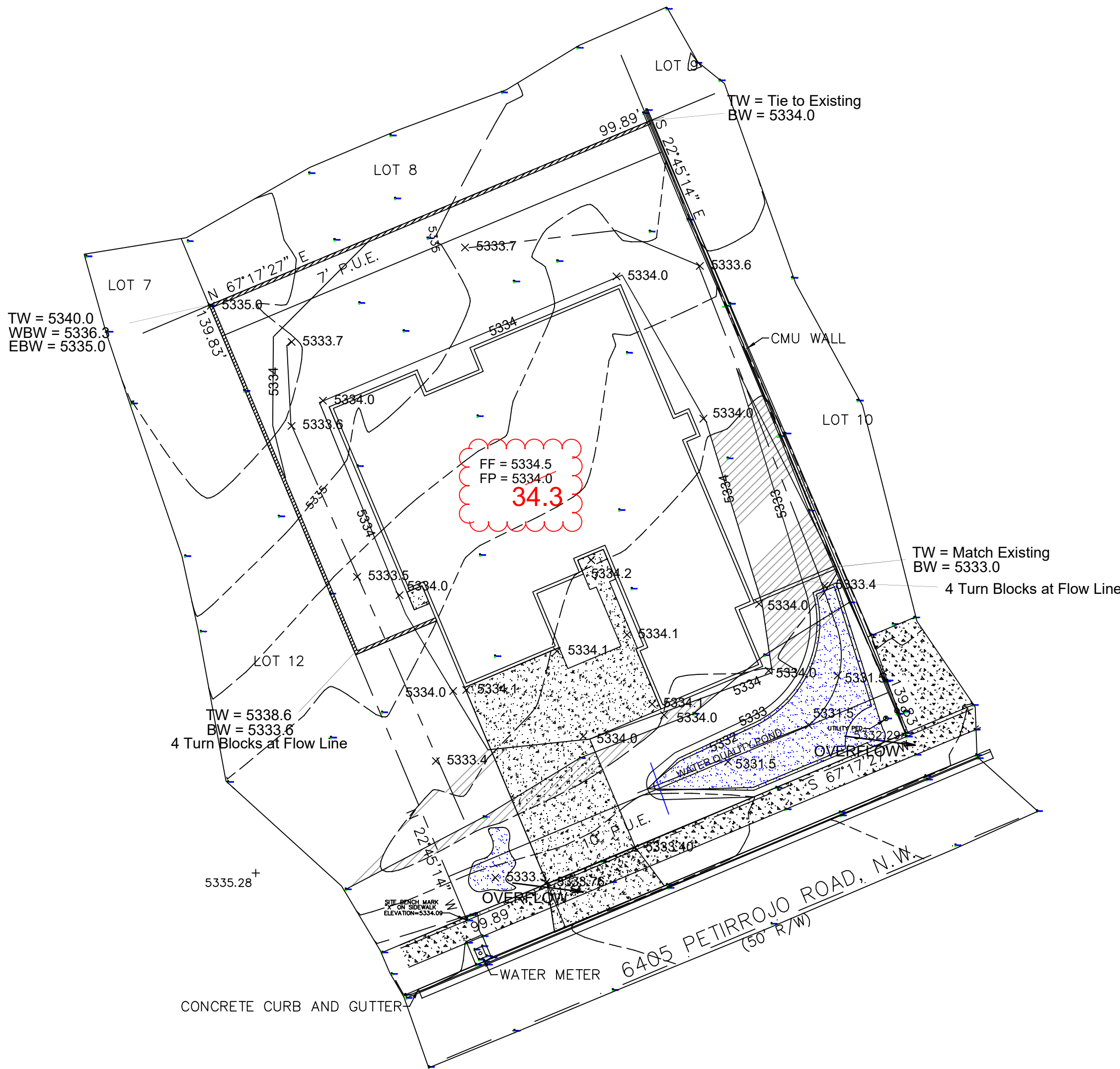
- _____ BUILDING PERMIT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY
- _____ PRELIMINARY PLAT APPROVAL
- _____ SITE PLAN FOR SUB'D APPROVAL
- _____ SITE PLAN FOR BLDG. PERMIT APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ SIA/ RELEASE OF FINANCIAL GUARANTEE
- _____ FOUNDATION PERMIT APPROVAL
- _____ GRADING PERMIT APPROVAL
- _____ SO-19 APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ GRADING/ PAD CERTIFICATION
- _____ WORK ORDER APPROVAL
- _____ CLOMR/LOMR
- _____ FLOODPLAIN DEVELOPMENT PERMIT
- _____ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ **By:** _____

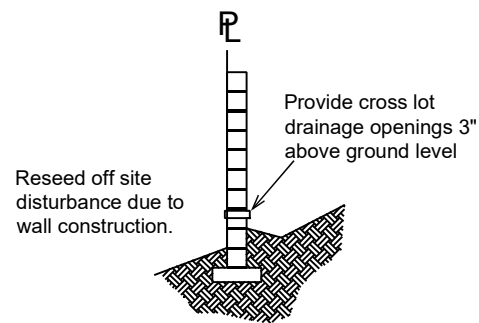
COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



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



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 is required prior to issuance of Building Permit.
 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	52.98%	0.18	0.99	2.87	0.01	0.52	Compacted earth
D	38.91%	0.13	1.97	4.37	0.02	0.58	Impervious Areas
TOTAL	100.00%	0.34	1.35		0.04	1.15	
					1660.54	cu ft	
PONDING REQUIREMENT =			1660.54	-1787.12	-126.58	cu ft.	PONDING NOT REQUIRED
Water Quality Retention Volume = 0.34" x			5763.44	sq ft	=	163.30	cu ft.
Water Quality Retention Volume Provided =						188.74	cu ft.
WATER QUALITY POND VOLUME							
ELEVATION	AREA	AVE. AREA	DEPTH	VOLUME	CUMULATIVE VOLUME		COMMENTS
(ft)	(sq ft)	(sq ft)	(ft)	(cu ft)	(cu ft)		
5331.50	0.00						
5332.00	629.14	314.57	0.50	157.28	157.28		
5332.30	629.14	629.14	0.30	188.74	188.74		
PONDING PROVIDED					188.74		

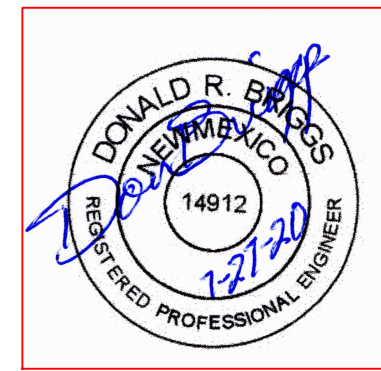
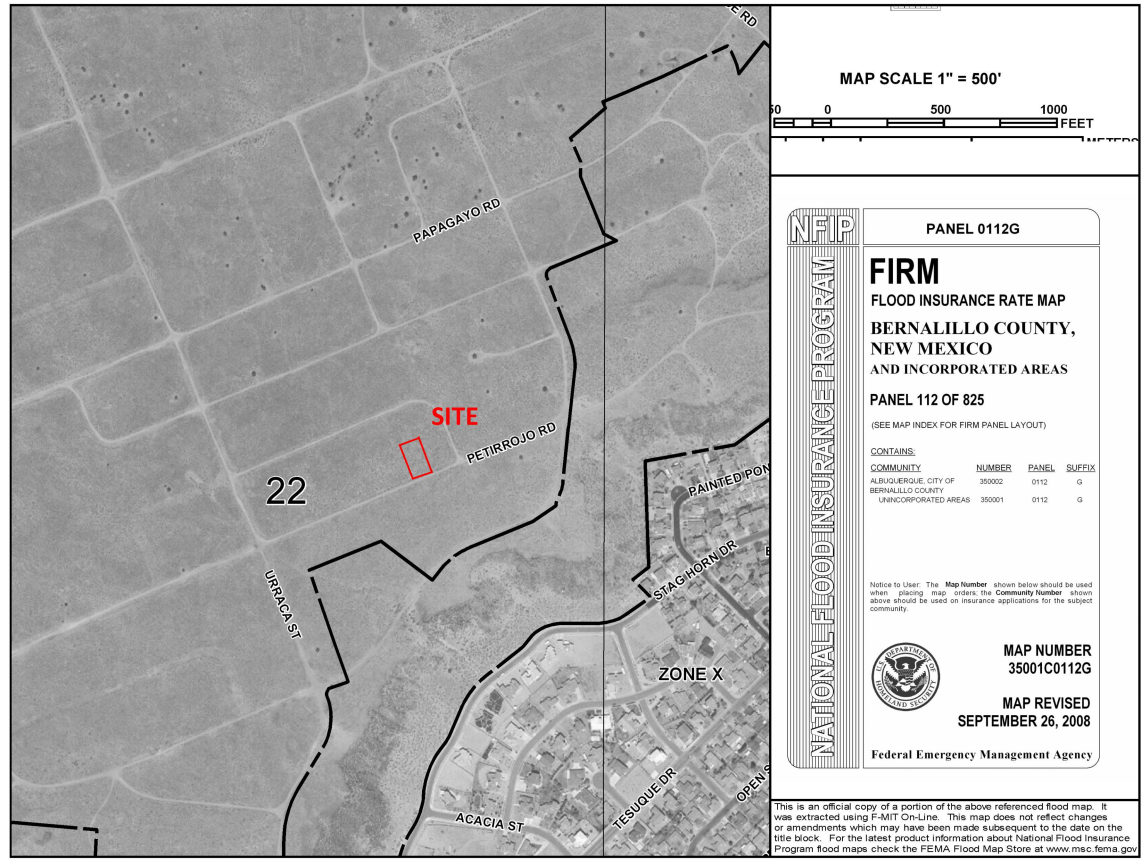
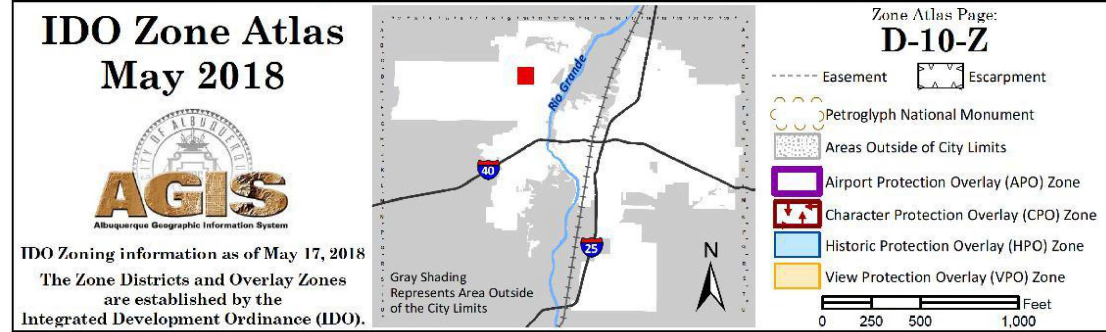
PAD CERTIFICATION

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 9/9/2019. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NA, NMPS NA, OF THE FIRM NA.

I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 7/27/2020 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 BUILDING PERMIT.

Pad Certification, Pad Elevation has been verified by level survey by the engineer.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND 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.



		505-249-4843 donbriggseengineering@gmail.com 5324 Oakledge Ct. NW, Albuquerque, NM 87120	
TITLE: 6405 Petirrojo Rd. NW Grading & Drainage Plan			
Design Review Committee	City Engineer Approval	Last Design Update	Mo. / Day / Yr.
City Project No.	Zone Map No.	Sheet	Of