CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

September 20, 2024

Shawn Biazar, P.E.
SBS Construction and Engineering, LLC
7632 William Moyers Avenue, NE
Albuquerque, NM 87114

RE: 6505 Petirrojo NW
Permanent C.O. – Accepted
Engineer's Certification Dated 9/16/2024
Engineer's Stamp Date: 01/23/2024
Hydrology File: D10D003P6

Dear Mr. Soule:

Based on the Certification received 09/17/2024 and site visit on 09/20/2024, this letter serves as a "green tag" from Hydrology Section for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov .

Sincerely,

Anthony Montoya, Jr., P.E.
Senior Engineer, Hydrology
Planning Department, 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 6/2018)

Project Title: 6505 PETIRROJO RD., NW Building Permit #: _____ Hydrology File #: D10D003P6

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

Legal Description: Lot 6, Block 10, Volcano Cliffs Unit 18

City Address: 6505 PETIRROJO RD., NW

Applicant: SBS CONSTRUCTION AND ENGINEEING, LLC Contact: SHAWN BIAZAR

Address: 7632 William Moyers Avenue, NE, ALBUQUERQUE, NM 87114

Phone#: (505) 804-5013 Fax#: (505) 897-4996 E-mail: AECLLC@AOL.COM

Other Contact: _____ Contact: _____

Address: _____

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

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) __X__ RESIDENCE _____ DRB SITE ___ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes ___X___ No

DEPARTMENT _____ TRANSPORTATION __X__ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

__X__ 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?

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: 9/17/2024 By: SHAWN BIAZAR

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Location

This project is located at 6505 Petirrojo Road, NW and contains 0.3214 acre. See attached portion of Vicinity Map D-10-Z for exact location.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for the new pool on this lot.

Existing Drainage Conditions

This project falls within SAD 228 master drainge plan. This lot drains from south to north. No offsite runoff enters this site. There is existing retining wall on the west property line.

Proposed Conditions and On-Site Drainage Management Plan

A new retainig wall is proposed for the back property line and to drain the water into Petirojo road, NW. The allowable discharge volume based on the 100-year/10 Day volume is 2,844.33 cf and 100-year/10 Day volume under the proposed conditins is 2,818.65 cf. Therefore, the there are no ponding required since allowable is greater than proposed. The first flush volume ponding requirement is 239.60 cf. The actual ponding volume provided is 334.40 cf.

VOLUME CALCULATIONS

BASIN	AREA (SF)	AREA (AC)	AREA (MI^2)
ON-SITE	14,000.00	0.3214	0.000502

$$E = \frac{EA(AA) + EB(AB) + EC(AC) + ED(AD)}{AA + AB + AC + AD}$$

V-360 = E (AA + AB + AC + AD)/12

V-24HR HOUR = V-360 + AD (P-1440 - P-360) / 12

EA = 0.55
EB = 0.73
EC = 0.95
ED = 2.24

P-60 = 1.69
P-360 = 2.17
P-1440 = 2.49
P-10 Day = 3.90

ALLOWABLE CONDITIONS	PROPOSED CONDITIONS
AA = 0.00%	AA = 0.00%
AB = 10.00%	AB = 20.00%
AC = 40.00%	AC = 30.00%
AD = 50.00%	AD = 50.00%
E = 1.5730 IN	**E = 1.5510 IN**
V-360 = 0.0421 AC-FT	**V-360 = 0.0415 AC-FT**
V-360 = 1,835.17 CF	**V-360 = 1,809.50 CF**
AD = 0.1607 AC	**AD = 0.0709 AC**
V-10 Day = 0.0653 AC-FT	**V-10 Day = 0.0647 AC-FT**
V-10 Day = **2,844.33 CF**	V-10 Day = **2,818.67 CF**

FIRST FLIUSH PONDING REQUIREMENT

IMPERVIOUS AREA = 6,841.00 SF
FIRST FLUSH VOL. REQI. = 0.42" x 6,841.00 / 12 = 239.61 CF

PONDING VOLUME CALCULATION

TOTAL POND AREA PROVIDED =
PONDING CALCULATIONS:

POND A:
AREA @ ELEV. 38.20 = 452.67 SF
AREA @ ELEV. 37.60 = 200.00 SF
POND VOLUME=(452.67+200.00)/2*0.60=195.80 CF

POND B:
AREA @ ELEV. 38.25 = 360.00 SF
AREA @ ELEV. 37.65 = 102.00 SF
POND VOLUME=(360.00+102.00)/2*0.60=138.60 CF
TOTAL PONDING VOLUME PROVIDED = 195.80+138.60=334.40 CF

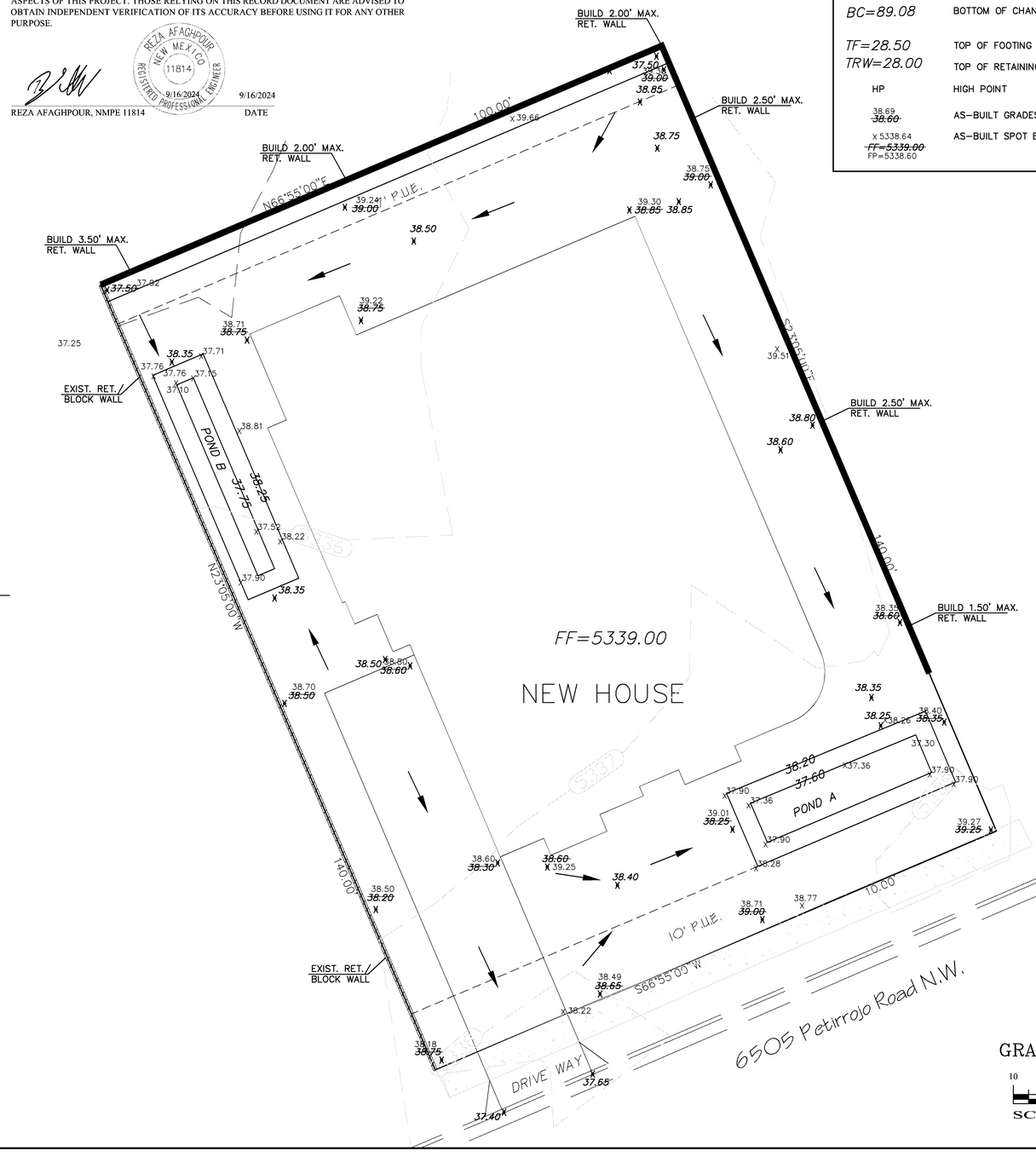
DRAINAGE CERTIFICATION

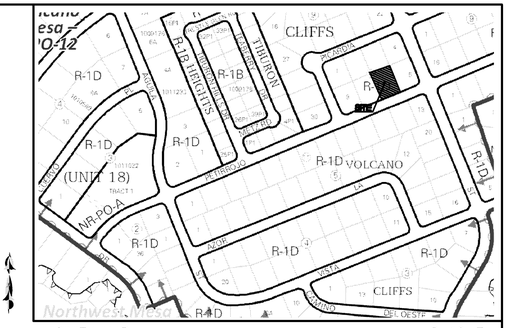
I, REZA AFAGHPOUR , NMPE 11814 , OF SBS CONSTRUCTION AND ENGINEERING, LLC , HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 01-23-2024 . THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NMPS 9801 LEONARD MARTINEZ , OF SBS CONSTRUCTION AND ENGINEERING . I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 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 FINAL CERTIFICATE OF OCCUPANCY .

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.

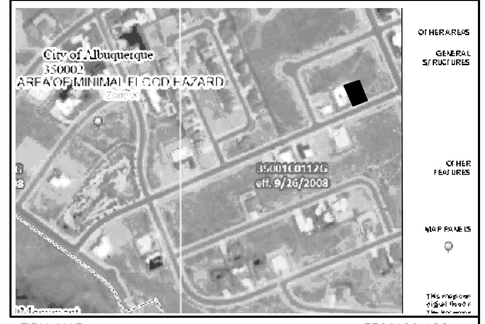
REZA AFAGHPOUR, NMPE 11814 — 9/16/2024 DATE

REZA AFAGHPOUR NEW MEXICO 11814 REGISTERED PROFESSIONAL ENGINEER 9/16/2024





VICINITY MAP: D-10-Z



FIRM MAP: 35001C0112G

LEGAL DESCRIPTION:
Lot 6, BlOCK 10, VOLCANO CLIFFS SUBDIVISION, UNIT 18
ADDRESS: 6505 PETIRROJO ROAD, NW.

BENCHMARK
CITY BNCHMARK 10_D10, ELEVATION OF 5322.212 FEET ABOVE SEA LEVEL.

LEGEND

—5030—	EXISTING CONTOUR (MAJOR)
—5029—	EXISTING CONTOUR (MINOR)
	BOUNDARY LINE
X 28.50	PROPOSED SPOT ELEVATION
X 5029.16	EXISTING GRADE
X 5075.65 FL	EXISTING FLOWLINE ELEVATION
	PROPOSED RETAINING WALL
BC=89.08	BOTTOM OF CHANEL
TF=28.50	TOP OF FOOTING
TRW=28.00	TOP OF RETAINING WALL
HP	HIGH POINT
38.69 ~~38.60~~	AS-BUILT GRADES
x 5338.64 ~~FF=5339.00~~ FP=5338.60	AS-BUILT SPOT ELEVATIONS

EROSION CONTROL PLAN AND POLLUTION PREVENTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUNOFF ON SITE.
4. REPAIR OF DAMAGED FACILITIES AND CLEAN-UP OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

GENERAL NOTES:
1: CONTOUR INTERVAL IS HALF (1.00) FOOT.
2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 10_D10, HAVING AN ELEVATION OF 5322.212 FEET ABOVE SEA LEVEL.
3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
4: THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
5: SLOPES ARE AT 3:1 MAXIMUM.
6: ADD 5300 TO ALL PROPOSED SPOT ELEVATIONS.

GRAPHIC SCALE
10 5 0 10
SCALE: 1"=10'

REZA AFAGHPOUR NEW MEXICO 11814 LICENSED PROFESSIONAL ENGINEER 01/23/2024

REZA AFAGHPOUR
P.E. #11814

SBS CONSTRUCTION AND ENGINEERING, LLC
7632 WILLIAM MOYERS AVE., NE
ALBUQUERQUE, NEW MEXICO 87122
(505)804-5013

6505 PETIROJO ST., N.W.
GRADING PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
202402-GD.DWG	SH-B	1-23-22	1