

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

February 28, 2024

Reza Afaghpour, PE  
SBS Construction and Engineering, LLC  
10209 Snowflake Ct NW  
Albuquerque, NM 87114

RE: **Lot 6 Block 10 Volcano Cliffs Unit 18 SAD 228  
6505 Petirrojo Rd. NW.  
Grading and Drainage Plan  
Engineers Stamp Date 1/23/2024 (D10D003P6)**

Mr. Afaghpour,

Based upon the information provided in your submittal received 2/27/2024, this plan is approved for grading plan.

PO Box 1293

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.

Albuquerque

**Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan and Pad Certification. Advise the owner & Contractor that dirt is not allowed in the public right of way to climb the curb. Crusher fines or lumber is allowed. If dirt is used this will delay going forward with the construction of the home.**

NM 87103

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

www.cabq.gov

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

Sincerely,

Tiequan Chen, P.E.  
Principal Engineer, Hydrology  
Planning Department, Development Review Services

RR/SB  
File D10D003P6



# 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 #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** Lot 6, Block 10, Volcano Cliffs Unit 18  
**City Address:** 6505 PETIRROJO RD., NW

**Applicant:** SBS CONSTRUCTION AND ENGINEERING, 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) ☒ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

IS THIS A RESUBMITTAL? \_\_\_\_\_ Yes ☒ No

**DEPARTMENT** \_\_\_\_\_ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

### TYPE OF SUBMITTAL:

\_\_\_\_\_ 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  
\_\_\_\_\_ 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:** 1/24/2024 **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 retaining wall is proposed for the back property line and to drain the water into Petirrojo 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 (MT <sup>3</sup> )
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 V-360 = 0.0421 AC-FT V-360 = 1,835.17 CF AD = 0.1607 AC V-10 Day = 0.0653 AC-FT V-10 Day = 2,844.33 CF	E = 1.5510 IN V-360 = 0.0415 AC-FT V-360 = 1,809.50 CF AD = 0.0709 AC V-10 Day = 0.0647 AC-FT V-10 Day = 2,818.67 CF

FIRST FLIUSH PONDING REQUIREMENT

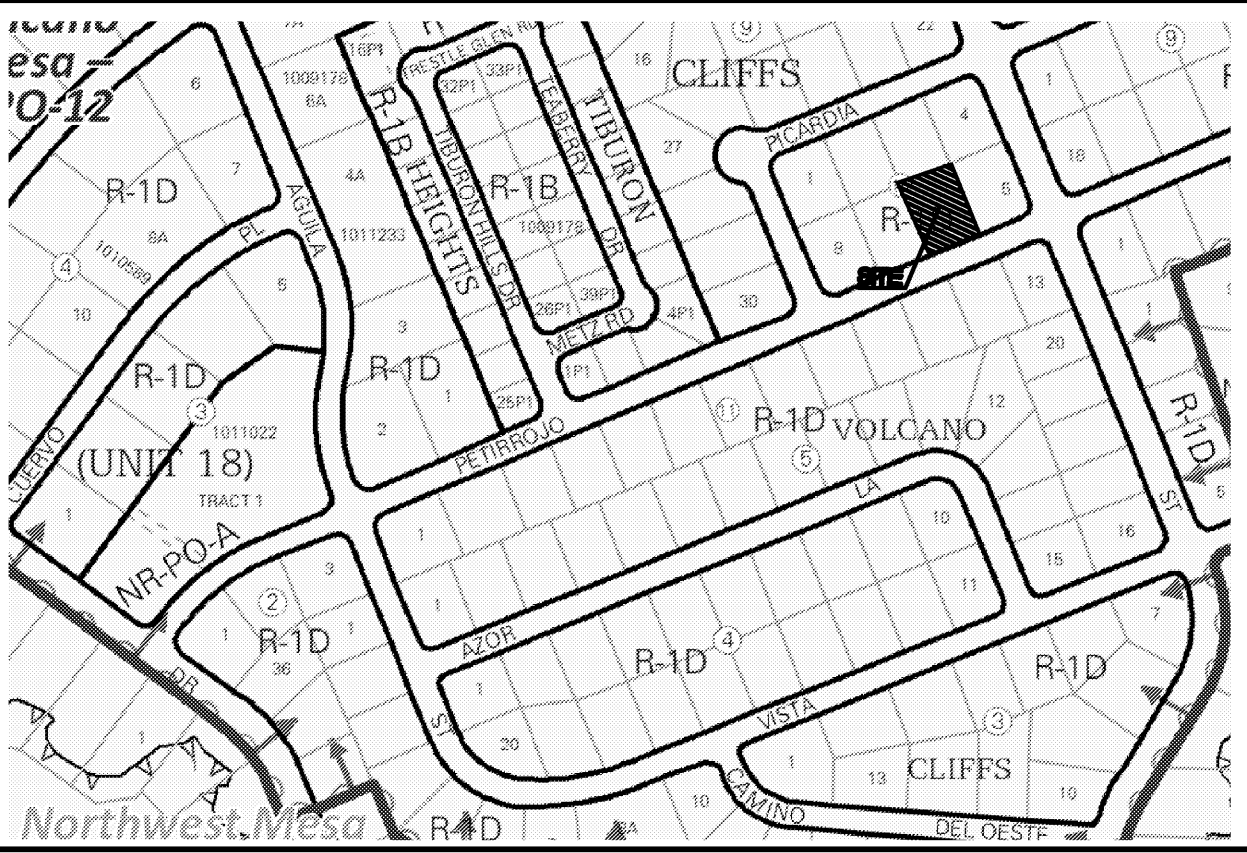
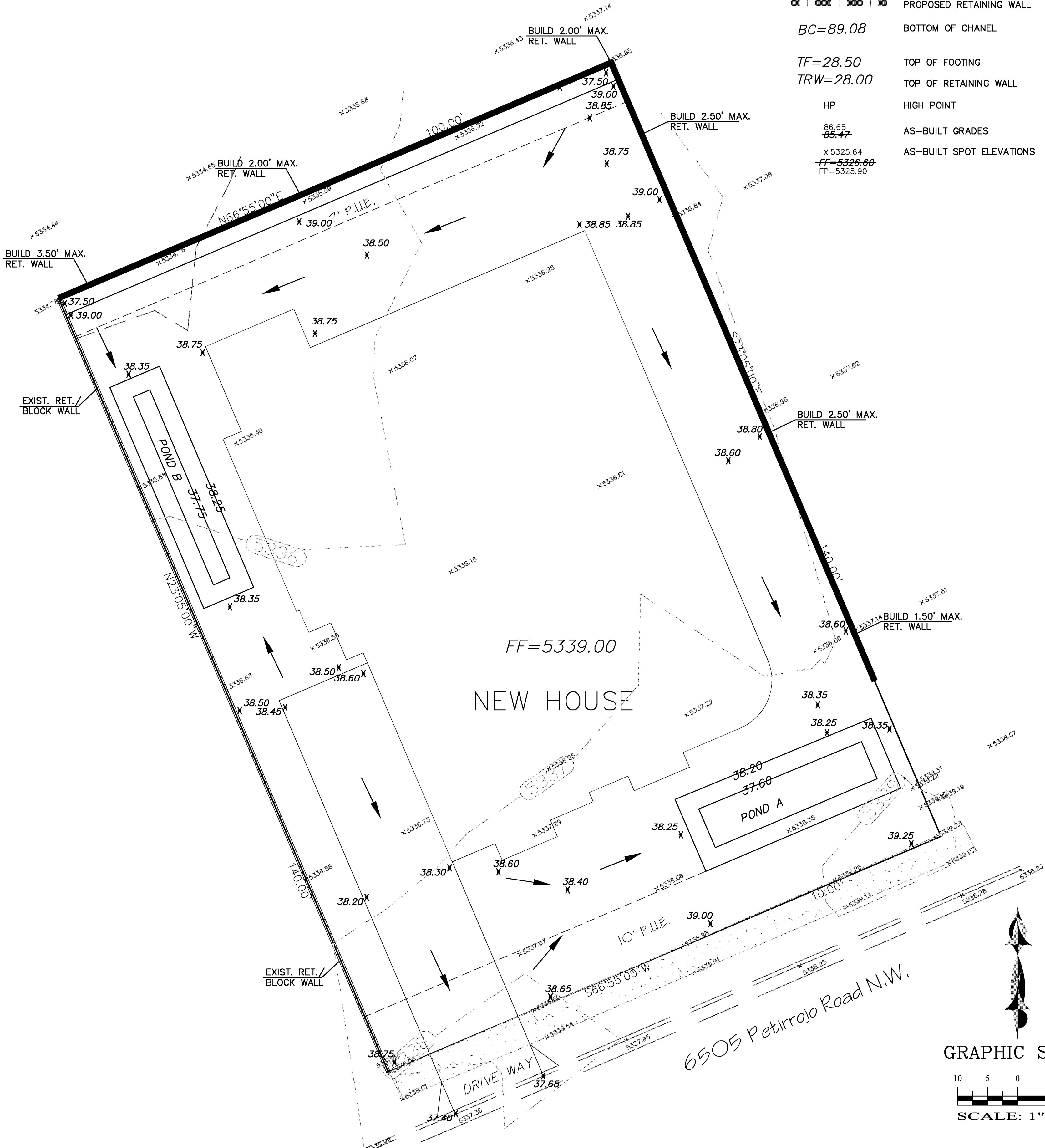
IMPERVIOUS AREA = 6,841.00 SF  
FIRST FLUSH VOL. REQL. = 0.42" x 6,841.00 / 12 = 239.61 CF

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



**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.

EROSION CONTROL PLAN AND POLLUTION PREVENTION NOTES

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

- GENERAL NOTES:**
- CONTOUR INTERVAL IS HALF (1.00) FOOT.
  - ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 10\_D10, HAVING AN ELEVATION OF 5322.212 FEET ABOVE SEA LEVEL.
  - 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.
  - THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
  - SLOPES ARE AT 3:1 MAXIMUM.
  - ADD 5300 TO ALL PROPOSED SPOT ELEVATIONS.



**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: 202402-GD.DWG

DRAWN BY: SH-B

DATE: 1-23-22

SHEET #

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