

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

August 25, 2022

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

RE: **Lot 4 Block 3 Volcano Cliffs Unit 18 SAD 228
6604 Cuervo Pl. NW.
Grading and Drainage Plan
Engineers Stamp Date 8/18/2022 (D10D003S4)**

Mr. Afaghpour,

Based upon the information provided in your submittal received 8/24/2022, 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 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

RR/SB
File D10D003S4



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6604 CUERVO PLACE, NW **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 3, BLOCK 4, VOLCANO CLIFFS UNIT 18
City Address: 6604 CUERVO PLACE, NW

Applicant: SBS CONSTRUCTION AND ENGINEERING, LLC **Contact:** SHAWN BIAZAR
Address: 10209 SNOWFLAKE CT., NW, 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: 8-22-2022 **By:** SHAWN BIAZAR

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Location

This project is located at 6604 Cuervro Pl. NW and contains 0.57 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 residential building on this lot.

Existing Drainage Conditions

This project falls within SAD 228 master drainge plan. This site specifically falls within drainage Basin 201. This lot drains from north to south. No offsite runoff enters this site.

Proposed Conditions and On-Site Drainage Management Plan

The drainage patterns will remain the same. The entire runoff from the site will be retain on site along the south property line. The allowable discharge volume based on the 100-year/24-hour volume is 3,203.89 cf and 100-year/24-hour volume under the proposed conditins is 3,375.73 cfs. Therefore, the required ponding volume is 171.84 cf. But the first flush volume ponding requirement is 399.82 cf of which exceeds the 171.84 cf. The actual ponding provided is 795.58 cf.

VOLUME CALCULATIONS FOR 10 DAY STORM

| AREA (MI²) | | | |
|------------|-----------|-----------|----------|
| BASIN | AREA (SF) | AREA (AC) | |
| ON-SITE | 24,833.71 | 0.57010 | 0.000891 |

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

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

V-24 HOUR = V-360 + AD (P-10 Day - 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 |
|---|---|
| From SAD 228, Basin 201 M Q = 10.17 CFS / 5.17 AC = 1.97 CFS/AC Q = 1.97 * 0.5701 = 1.12 cfs | AA = 0.00% AB =27.00% AC = 27.00% AD = 46.00% |
| V-24 HOUR = 0.667/5.17 = 0.129 AC-FT/AC V-24 HOUR = 0.129 * .5701 = 0.07355 AC-FT V-24 HOUR = 3,203.89 CF | E = 1.48 IN V-360 = 3,07.10 CF AD = 0.28043 AC V-24 HOUR = 3,375.73 CF |

V-24 HOUR (REQUIRED) = 3,375.73 - 3,208.89 CF = 171.74 CF

FIRST FLIUSH PONDING REQUIREMENT

IMPERVIOUS AREA =11,423.51 SF

FIRST FLUSH VOL. REQI. = 0.42" x 11,423.51 / 12 = 399.82 CF

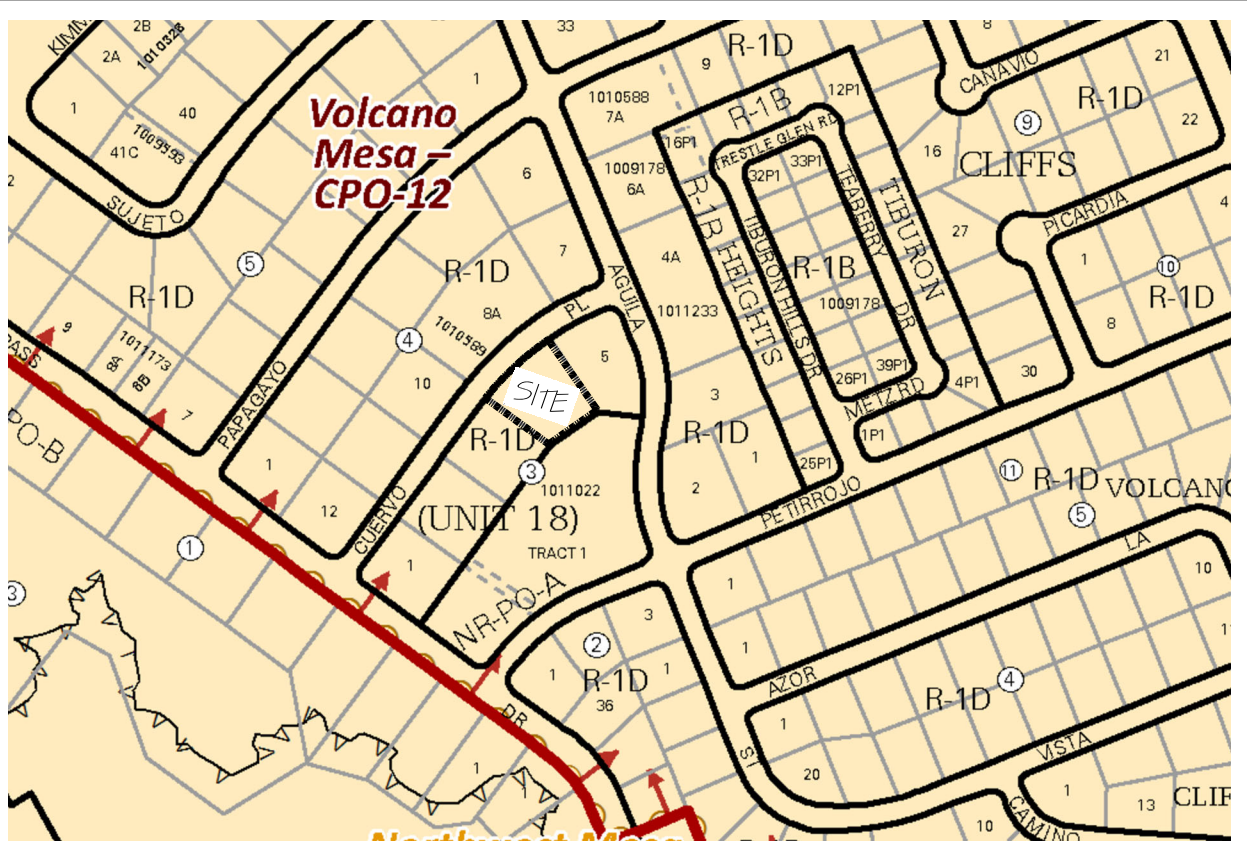
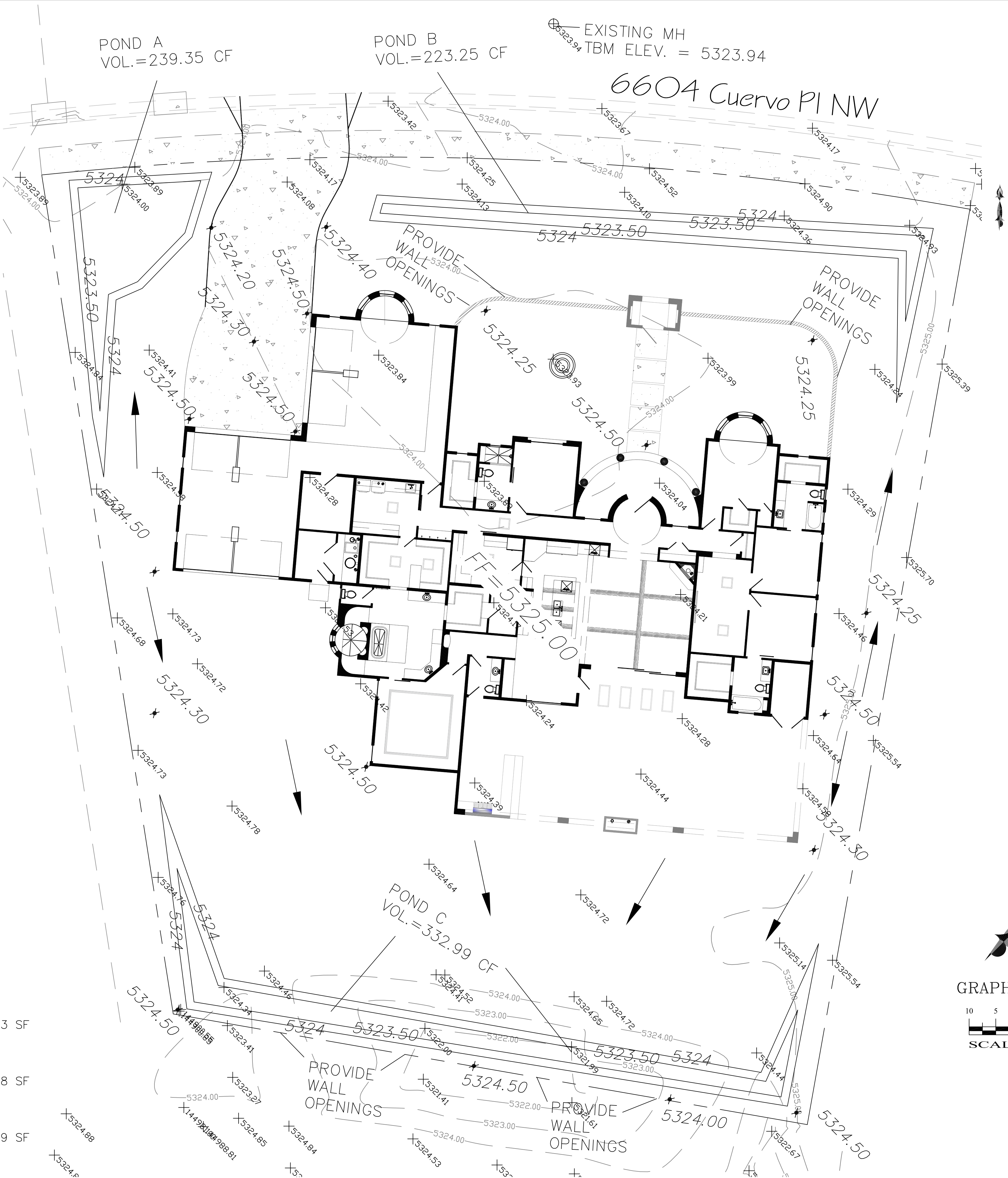
PONDING VOLUME CALCULATION

POND A:
BOTTOM AREA(@ 5324)=577.75 SF, TOP AREA(@ 5323.50)=379.63 SF
POND VOLUME=(577.75+379.63)/2*0.50 = 239.35 CF

POND B:
BOTTOM AREA(@ 5324)=634.49 SF, TOP AREA(@ 5323.50)=258.48 SF
POND VOLUME=(634.49+258.48)/2*0.50 = 223.24 CF

POND C:
BOTTOM AREA(@ 5324)=908.26 SF, TOP AREA(@ 5323.50)=423.69 SF
POND VOLUME=(908.26+423.69)/2*0.50 = 332.99 CF

TOTAL PONDING PROVIDED = 239.35+223.24+332.99 795.58 CF



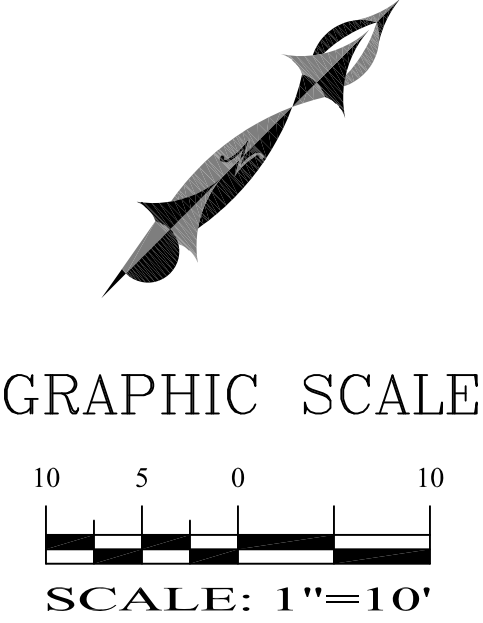
VICINITY MAP: D-10-Z

FIRM MAP: 35001C0111G

LEGAL DESCRIPTION:
LOT 4, BLOCK 3, VOLCANO CLIFFS UNIT 18

BENCHMARK
CITY BNCHMARK 17_D10, ELEVATION OF 5325.068 FEET ABOVE SEA LEVEL.

| LEGEND | |
|--------------|-----------------------------|
| — 5030 — | EXISTING CONTOUR (MAJOR) |
| — 5029 — | EXISTING CONTOUR (MINOR) |
| — | BOUNDARY LINE |
| X 42.70 | PROPOSED SPOT ELEVATION |
| X 5029.16 | EXISTING GRADE |
| X 5075.65 FL | EXISTING FLOWLINE ELEVATION |
| — — — | PROPOSED RETAINING WALL |
| BC=41.30 | BOTTOM OF CHANEL |
| TF=42.00 | TOP OF FOOTING |
| TRW=45.12 | TOP OF RETAINING WALL |
| HP | HIGH POINT |
| 42.40 | AS-BUILT GRADES |
| 42.45 | AS-BUILT SPOT ELEVATIONS |
| 69.77 | |



REZA AFAGHPOUR
P.E. #1814

**SBS CONSTRUCTION
AND ENGINEERING, LLC**

10209 SNOWFLAKE CT, NW
ALBUQUERQUE, NEW MEXICO 87114
(505)899-5570

6604 CUERVO PL NW
GRADING PLAN

| | | | |
|-----------------------------|-------------------|--------------------|--------------|
| DRAWING: 6604 Cuervo.DWG | DRAWN BY: SH-B | DATE: 8-18-2022 | SHEET # 1 |
|-----------------------------|-------------------|--------------------|--------------|