

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

August 14, 2024

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

RE: **Lot 8-A-2 Block 2 Volcano Cliffs Unit 19 SAD 228**
7805 Aguila St. NW
Grading and Drainage Plan
Engineers Stamp Date 7/15/2024 (D10D003G11A)
Pad Certification Date: 7/25/2024

Mr. Afaghpour,

Based upon the information provided in your submittal received 8/14/2024, this plan is approved for building permit.

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

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 924-3695 or Rudy Rael at 924-3977.

Sincerely,

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

RR/TC
File D10D003G11A

Location

This project is located at 7805 Aguila Street, NW and contains 0.3546 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 house on this lot. The grading plan for this site was already approved on March 5, 2024. However, the owner decided to construct smaller house on this lot. This house is +/- 570.00 sf smaller than originally approved plan.

Existing Drainage Conditions

This project falls within SAD 228 master drainage plan. This site specifically falls within drainage Basin 201. This lot drains from south to north. No offsite runoff enters this site. There are existing block wall along east property line.

Proposed Conditions and On-Site Drainage Management Plan

The drainage patterns will remain the same. The water will drain into Aguila Street, NW. The allowable discharge volume based on the 100-year/10 Day volume is 3,138.15 cf and 100-year/10 Day volume under the proposed condition is 2,759.97 cf. Therefore, the there are no ponding required since allowable is greater than proposed. The first flush volume ponding requirement is 225.96 cf. The actual ponding volume provided is 468.35 cf.

VOLUME CALCULATIONS

BASIN	AREA (SF)	AREA (AC)	AREA (MI ²)
ON-SITE	15,446.17	0.3546	0.000554

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

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

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

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 = 39.00%
AD = 50.00%	AD = 41.00%

E = 1.5730 IN
V-360 = 0.0465 AC-FT
V-360 = 2,024.74 CF
AD = 0.1773 AC
V-10 Day = 0.0720 AC-FT
V-10 Day = 3,138.15 CF

E = 1.4349 IN
V-360 = 0.0424 AC-FT
V-360 = 1,846.98 CF
AD = 0.1454 AC
V-10 Day = 0.0634 AC-FT
V-10 Day = 2,759.97 CF

FIRST FLIUSH PONDING REQUIREMENT

IMPERVIOUS AREA = 6,456.00 SF
FIRST FLUSH VOL. REQI. = 0.42" x 6,456.00 / 12 = 225.96 CF

PONDING VOLUME CALCULATION

TOTAL POND AREA PROVIDED =
PONDING CALCULATIONS:

POND A:
AREA @ ELEV. 16.75 = 427.72 SF
AREA @ ELEV. 16.00 = 175.00 SF
POND VOLUME=(427.72+175.00)/2*0.75=223.02 CF

POND B:
AREA @ ELEV. 16.80 = 655.03 SF
AREA @ ELEV. 16.30 = 326.30 SF
POND VOLUME=(655.03+326.30)/2*0.50=245.33 CF

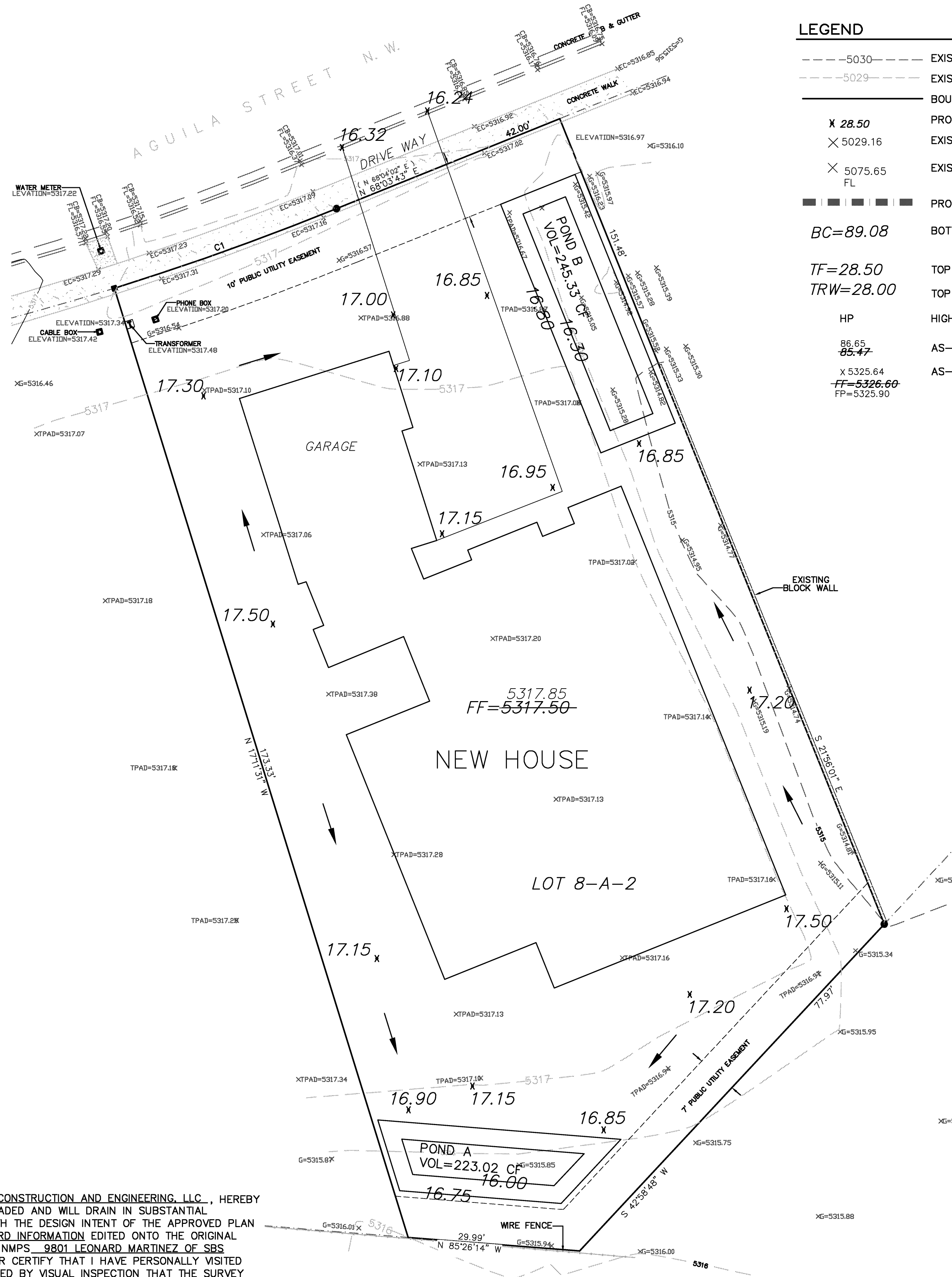
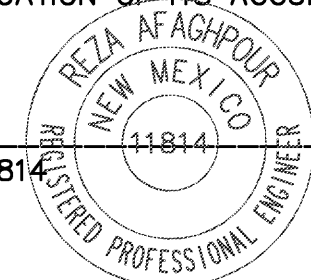
TOTAL PONDING VOLUME PROVIDED = 223.02+245.33=468.35 CF

DRAINAGE CERTIFICATION

I, REZA AFAGHPOUR, NMPE11814 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 07-13-2024. 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 PAD CERTIFICATION.

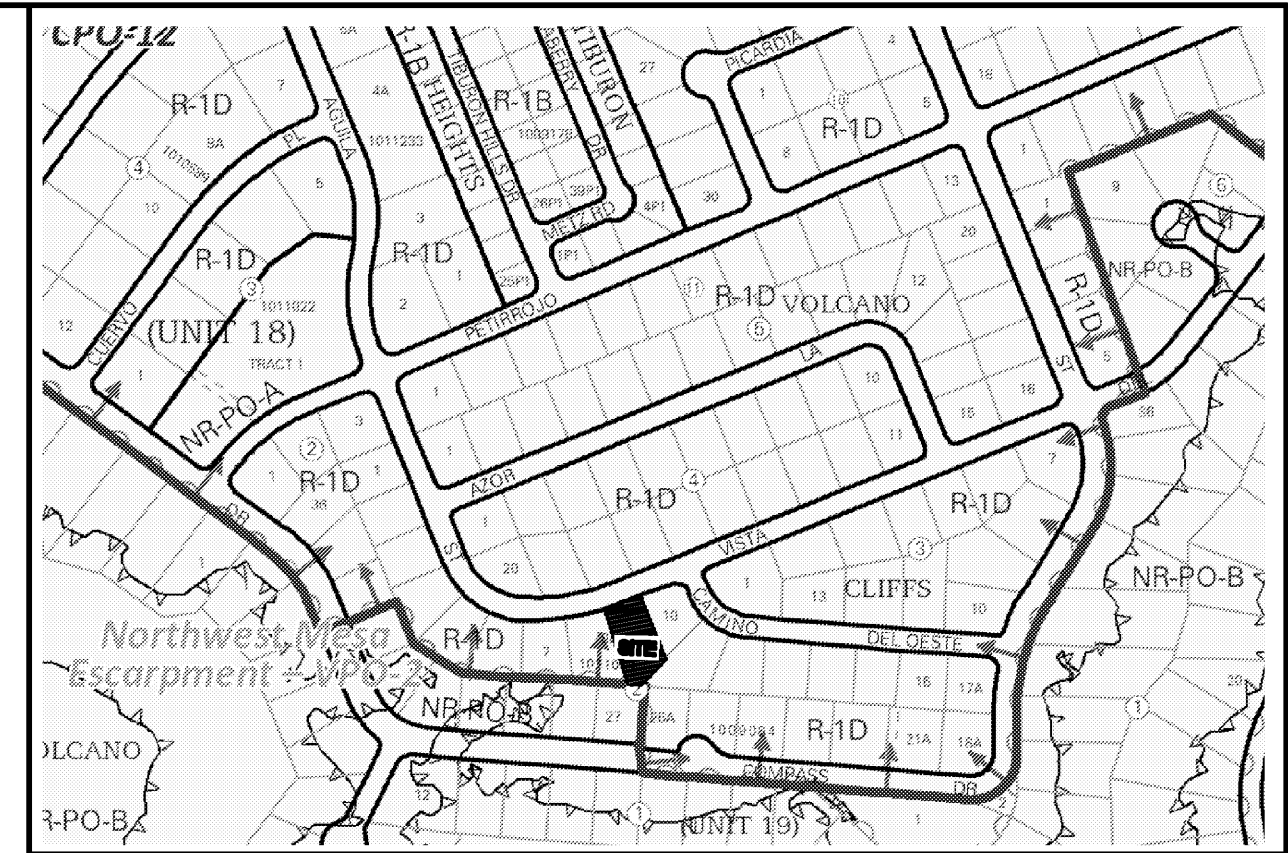
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER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

REZA AFAGHPOUR, NMPE 11814
7/25/2024
DATE



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 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
- 88.65 AS-BUILT GRADES
- 85.47 AS-BUILT SPOT ELEVATIONS
- X 5325.64
- FF=5326.60
- FP=5325.90



VICINITY MAP: D-10-Z



FIRM MAP: 35001C0111G

LEGAL DESCRIPTION:
Lot 8-A-2, BLOCK 2, VOLCANO CLIFFS SUBDIVISION, UNIT 19
ADDRESS: 7805 AGUILA STREET, N.W.

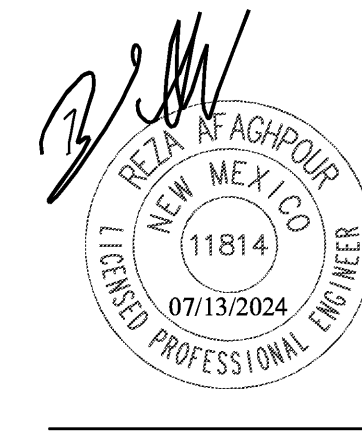
BENCHMARK
CITY BNCHMARK 10_D10, ELEVATION OF 5322.212 FEET ABOVE SEA LEVEL.

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.

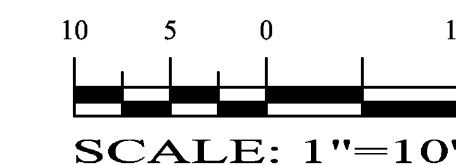


REZA AFAGHPOUR
P.E. #11814

SBS CONSTRUCTION
AND ENGINEERING, LLC

7632 WILLIAM MOYERS AVE., NE
ALBUQUERQUE, NEW MEXICO 87122
(505)804-5013

GRAPHIC SCALE



7805 AGUILA STREET, N.W.
GRADING PLAN

DRAWING: 202402-GD.DWG	DRAWN BY: SH-B	DATE: 2-28-2024	SHEET # 1
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