

CITY OF ALBUQUERQUE

Planning Department

Alan Varela, Interim Director



Mayor Timothy M. Keller

February 4, 2022

David Soule, PE
Rio Grande Engineering
1606 Central SE Suite 201
Albuquerque, NM 87106

**Re: Lot 14 Block 11 SAD 227
Volcano Cliffs Subdivision Unit 24
8004 Emerald Dr. NW
Grading and Drainage Plan
Engineers Stamp Date 1/27/2020 (E10D095)
Pad Certification Date 3/7/2021
CO Certification Dated: 2/3/2022**

PO Box 1293

Mr. Soule

Albuquerque

Based on the Certification received on 2/4/2022, the site is acceptable for release of
Certificate of Occupancy by Hydrology.

NM 87103

Sincerely,

www.cabq.gov

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services

Weighted E Method														
										100-Year, 6-hr.		24 hour		
Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-hr)				
ALLOWED	14256.00	0.327	0%	0	20%	0.065	46%	0.1505	34%	0.111	1.259	0.034	1.05	0.039
PROPOSED	14256.00	0.327	0%	0	20%	0.065	32%	0.1047	48%	0.157	1.396	0.038	1.12	0.044
COMPARISON												0.004		0.005

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm- zone 1
Ea= 0.44
Eb= 0.67
Ec= 0.99
Ed= 1.97
Qa= 1.29
Qb= 2.03
Qc= 2.87
Qd= 4.37

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME

REQUIRED (CF)

PROVIDED (CF)

WATER QUALITY

FLOOD CONTROL

Narrative

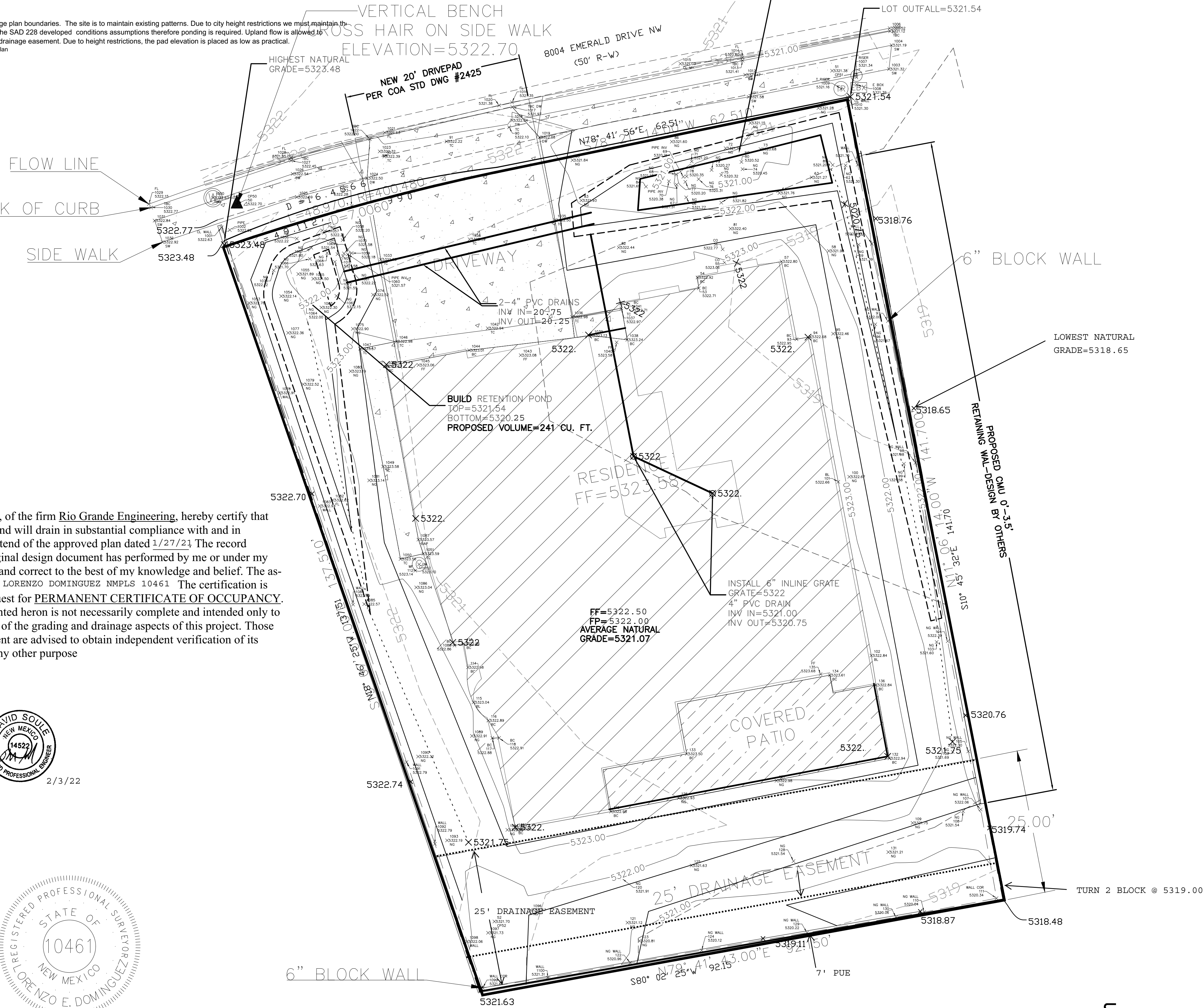
This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns. Due to city height restrictions we must maintain the average natural grade. The site does exceed the SAD 228 developed conditions assumptions therefore ponding is required. Upland flow is allowed to enter and pass through sight within existing drainage easement. Due to height restrictions, the pad elevation is placed as low as practical. This plan is in conformance to the master drainage plan

I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 1/27/21



3/7/21

BUILD RETENTION POND
TOP=5321.54
BOTTOM=5320.00
PROPOSED VOLUME= 603 CU. FT.



I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 1/27/21. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided by LORENZO DOMINGUEZ NMPLS 10461. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron 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



2/3/22

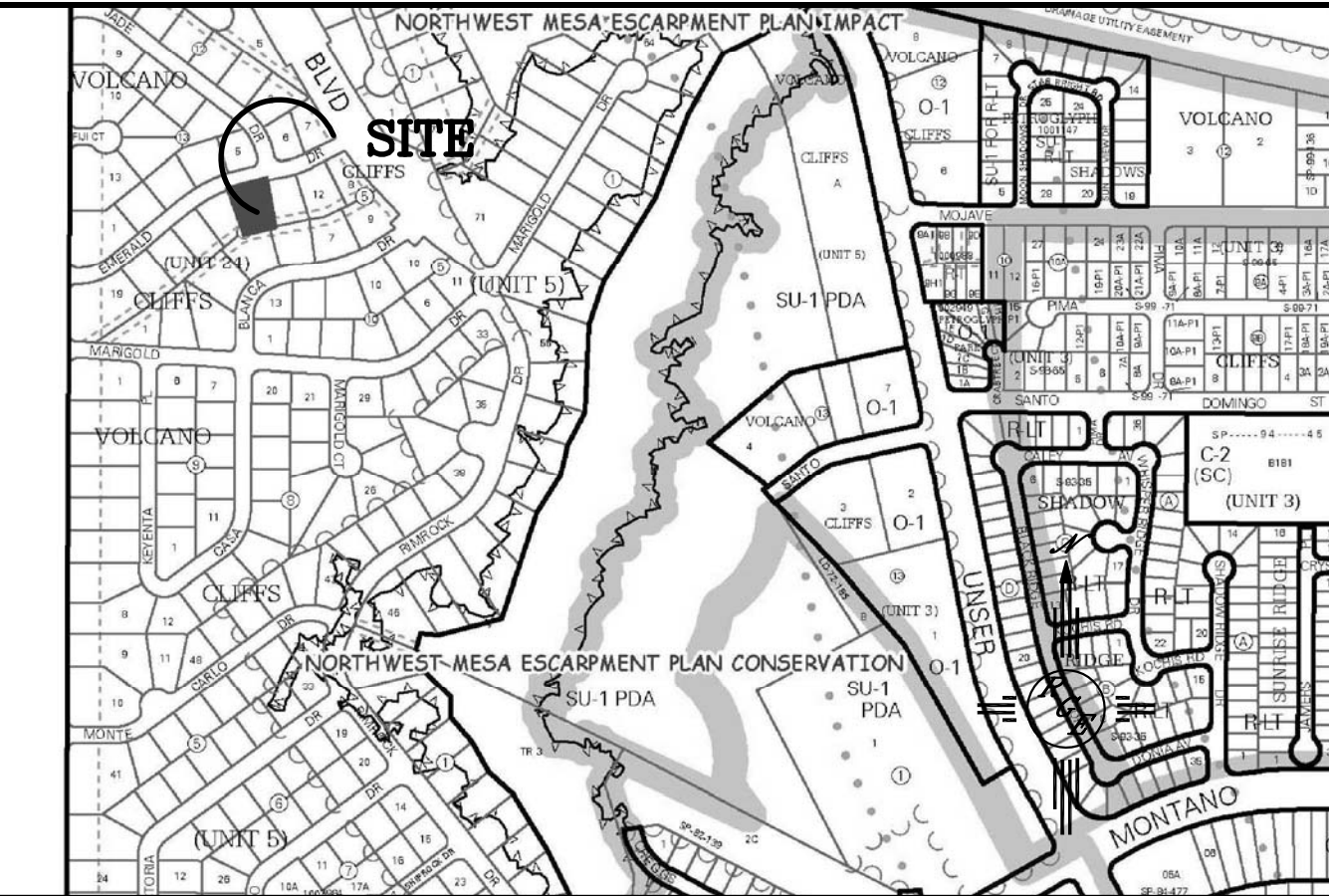


CAUTION:

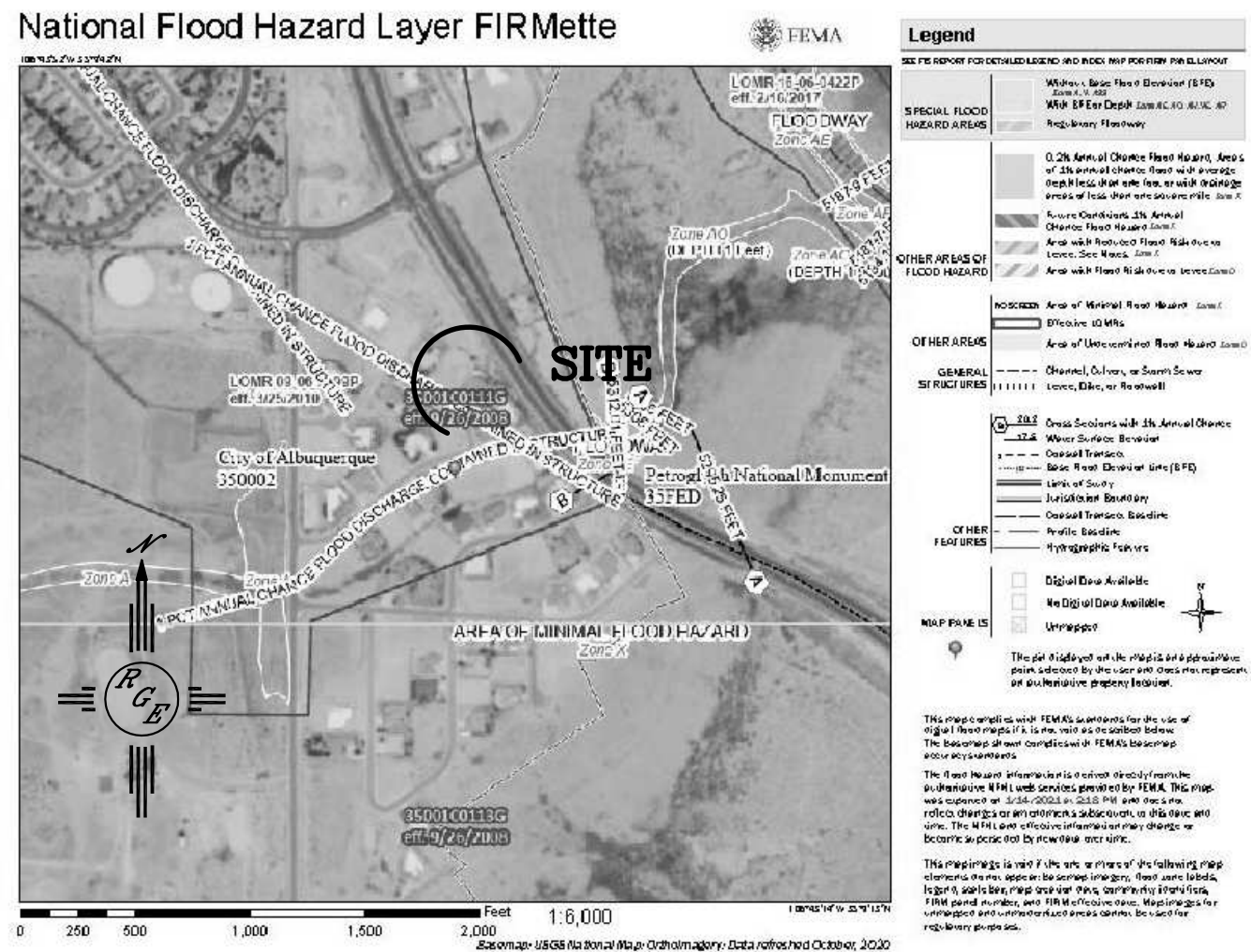
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS 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.



VICINITY MAP: E-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

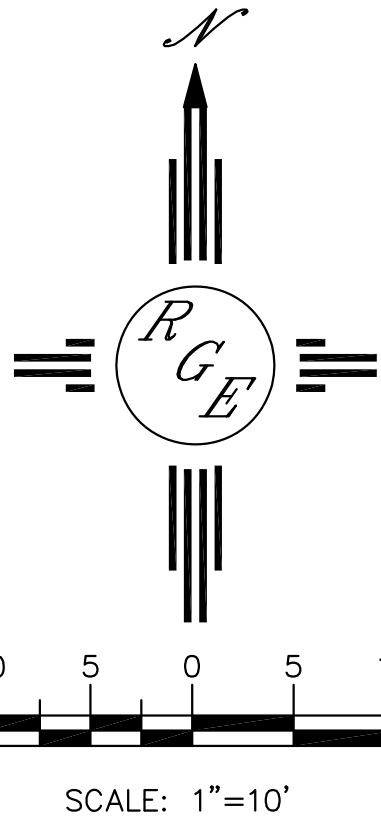
LOT 14, BLK 11, UNIT 24, VOLCANO CLIFFS

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

LEGEND

---	XXXX	---	EXISTING CONTOUR
---	XXXX	---	EXISTING INDEX CONTOUR
---	XXXX	---	PROPOSED CONTOUR
---	XXXX	---	PROPOSED INDEX CONTOUR
---	XXXX	---	SLOPE TIE
+	XXXX	+	EXISTING SPOT ELEVATION
+	XXXX	+	PROPOSED SPOT ELEVATION
---		---	BOUNDARY
---		---	CENTERLINE
---		---	RIGHT-OF-WAY
---		---	PROPOSED 4" PVC SD
---		---	EARTHEN SWALE W/GRAVEL @ INVERT
=====		=====	EXISTING CURB AND GUTTER
=====		=====	PROPOSED CMU RETAINING WAL-DESIGN BY OTHERS



ENGINEER'S SEAL 1/27/21	8004 EMERALD	DRAWN BY: WCVJ
	GRADING AND DRAINAGE PLAN	DATE: 1-18-21
 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-5999		21021003-LAYOUT-1-18-21
		SHEET #
DAVID SOULE P.E. #14522		JOB # 21021003