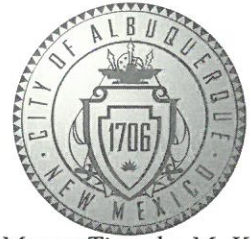


CITY OF ALBUQUERQUE

Planning Department

David Campbell, Director



Mayor Timothy M. Keller

September 13, 2018

David Soule, P.E.
Rio Grande Engineering
PO Box 93924
Albuquerque, New Mexico 87199

RE: **Lot 11 Block 13 Unser Cliffs SAD 227**
8001 Fuji Ct NW
Grading and Drainage Plan
Engineers Stamp Date 1/15/18 (E10D029)
Pad Certification Date 9/5/18

Dear Mr. Soule,

Based upon the information provided in your submittal received 9/6/18, this plan is approved for Building Permit.

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.

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan dated 1/15/18.

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 924-3986 or Rudy Rael at 924-3977.

Sincerely,

James D. Hughes, P.E.
Principal Engineer, Hydrology
Planning Department

RR/JDH
C: File E10D029

Weighted E Method														
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year, 6-hr.			24-hour
			% (acres)	% (acres)	% (acres)	% (acres)	% (acres)	% (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)		
NATIVE	15031.00	0.345	80%	0.2761	10%	0.035	10%	0.03451	0%	0.000	0.518	0.015	0.53	0.015
ALLOWED	15031.00	0.345	0%	0	10%	0.035	40%	0.13803	50%	0.173	1.448	0.042	1.22	0.053
PROPOSED	15031.00	0.345	0%	0	28%	0.097	23%	0.07936	49%	0.169	1.381	0.040	1.16	0.051
INCREASE												0.025		
total														

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 Qa= 1.29
Eb= 0.67 Qb= 2.03
Ec= 0.99 Qc= 2.87
Ed= 1.97 Qd= 4.37

ONSITE Conditions		
FIRST FLUSH WATER QUALITY VOLUME		
REQUIRED (CF)	PROVIDED (CF)	
WATER QUALITY	209	633
50% of the 100year-10day	1107	1120

Narrative
This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing drainage patterns. Since the lot can not drain to the adjacent street we are to retain 50% of the 100-year, 24-hour storm volume generated. We are ponding the water harvest volume generated by the site. Since the downstream walls have been constructed the weep holes on the bottom course will serve as overflow. The first flush volume is retained on site. This plan is in conformance to the masterplan

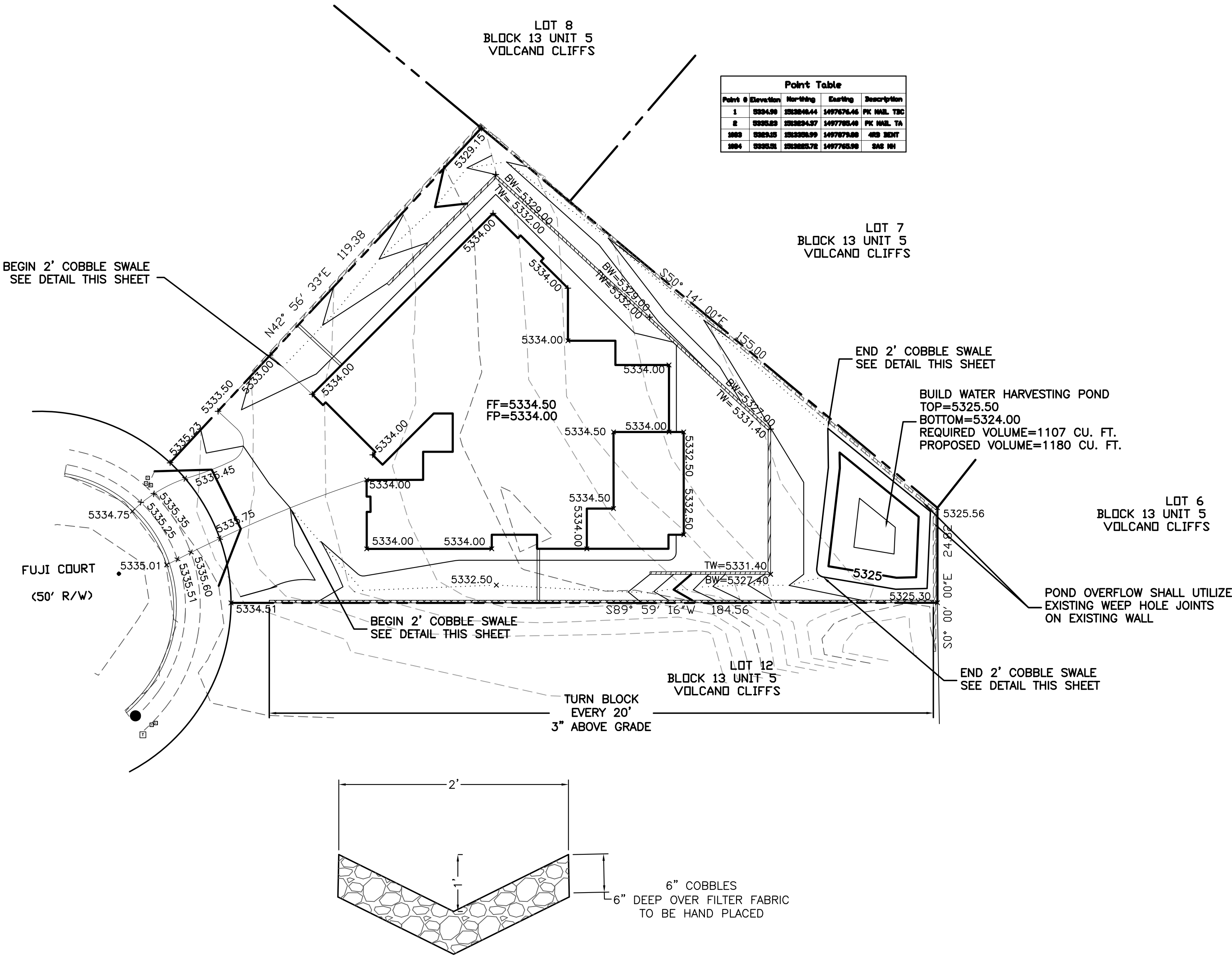
EROSION CONTROL NOTES:

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.

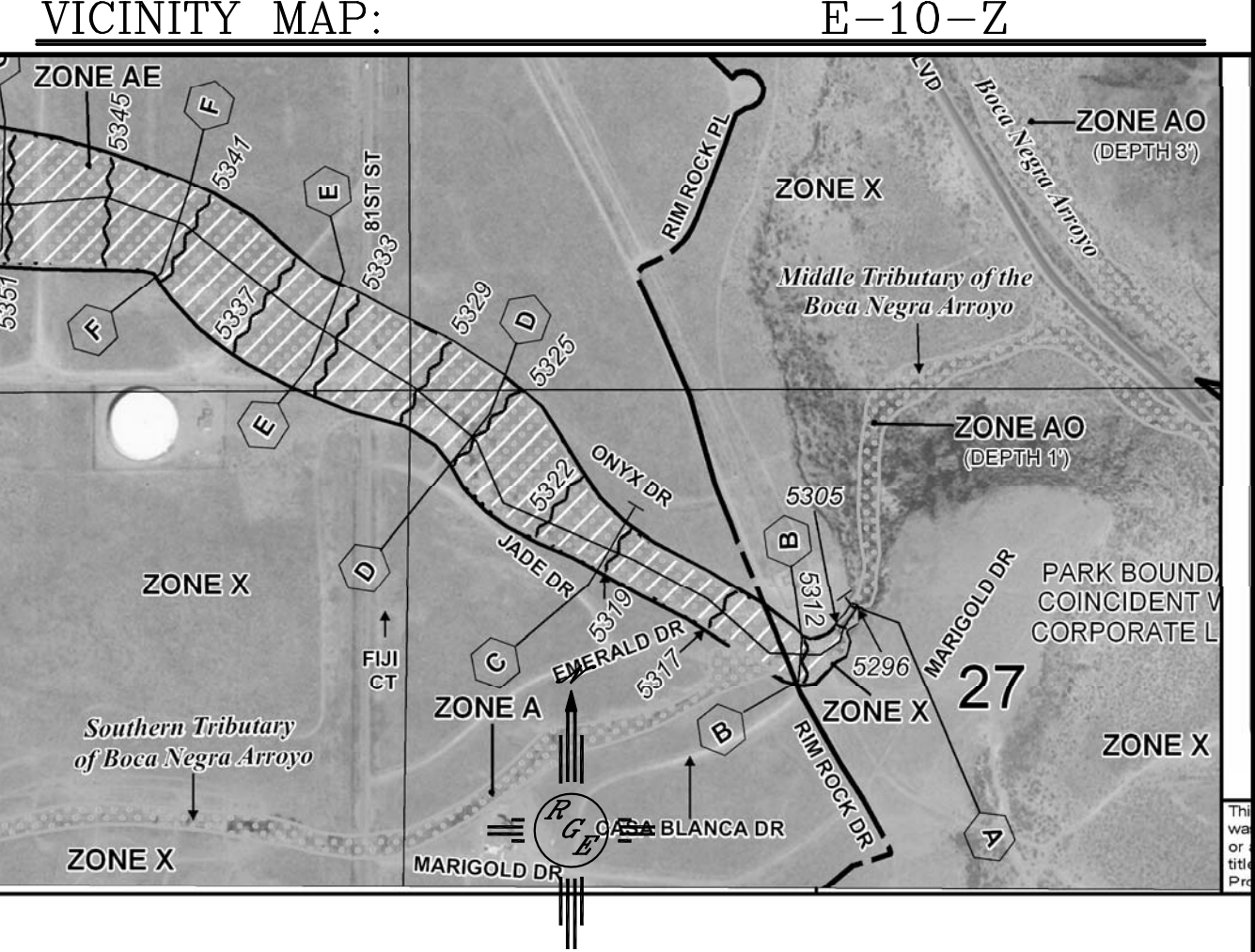
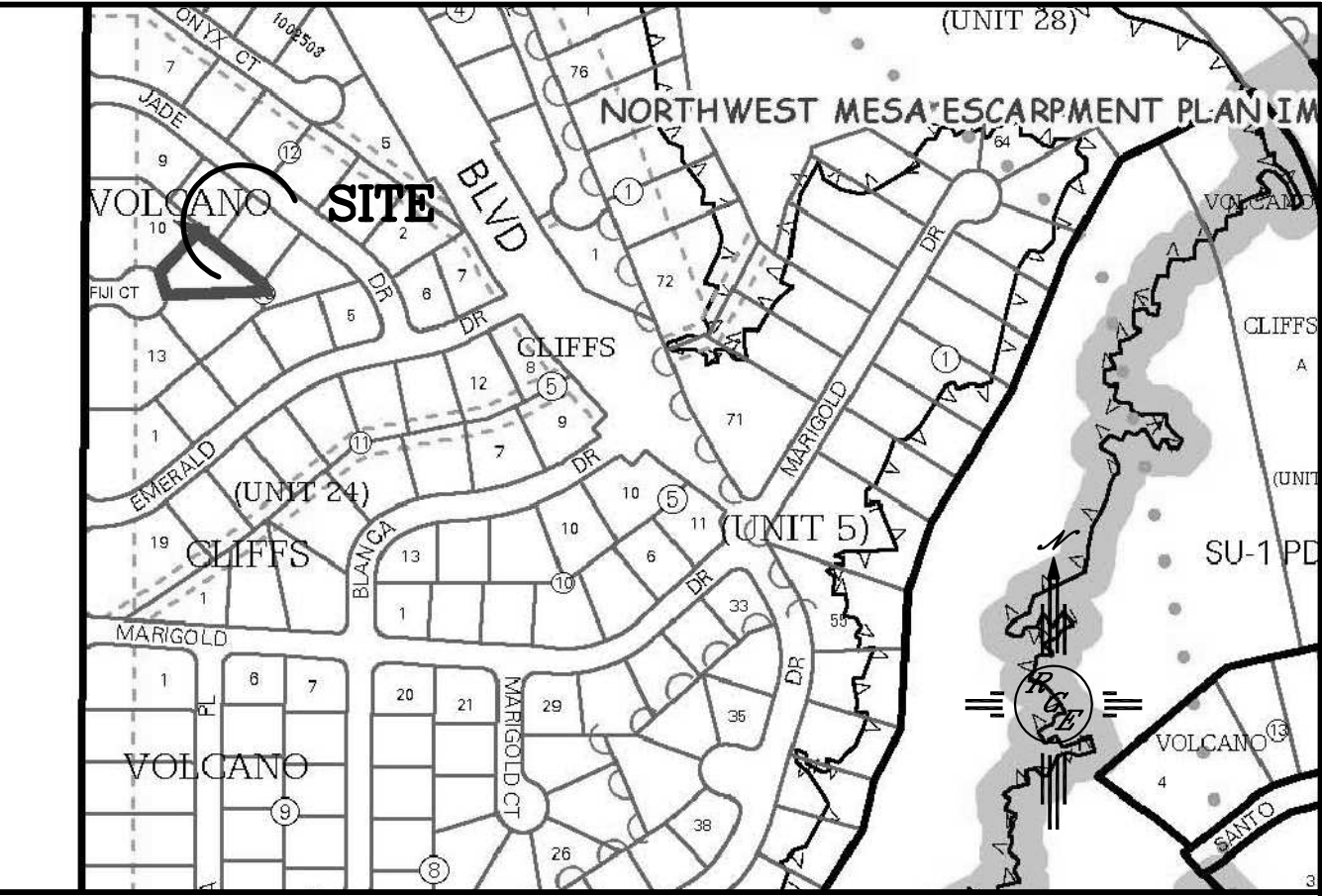
I, DAVID SOULE HAVE PERSONALLY INFECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 1/15/18



9/5/18



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.



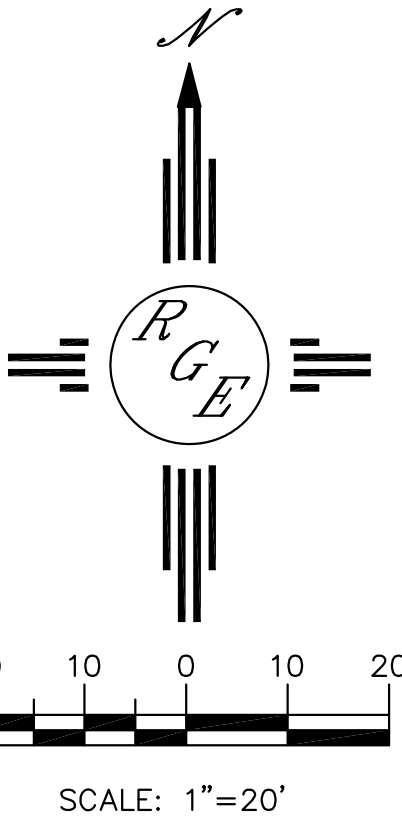
FIRM MAP: FM35001C0111G

LEGAL DESCRIPTION:
LOT 11, BLOCK 13, VOLCANO CLIFFS, UNIT - 5

- 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
- ===== EXISTING CURB AND GUTTER
- ===== PROPOSED CMU SCREEN WALL
- ===== PROPOSED CMU RETAINING WALL-DESIGN BY OTHERS



ENGINEER'S SEAL 1/15/18 DAVID SOULE P.E. #14522	8001 FIJI COURT BRUNO RESIDENCE	DRAWN BY WCVJ DATE 1-11-18 21701-LAYOUT-1-10-17
	GRADING AND DRAINAGE PLAN 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0998	SHEET # — JOB # 21701