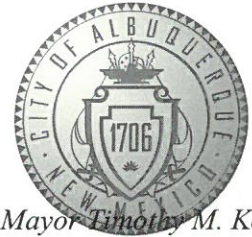


CITY OF ALBUQUERQUE

Planning Department

Brennan Williams, Interim Director



Mayor Timothy M. Keller

August 2, 2019

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

RE: **Lot 34 Block 6 Volcano Cliffs Unit 18 SAD 228**
6605 Sujeto NW
Grading and Drainage Plan
Engineers Stamp Date 7/19/19 (D10D003M34)
Pad Certification Date 7/30/19

Dear Mr. Soule,

Based upon the information provided in your submittal received 7/31/19, 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 7/19/19 and Pad Certification Date 7/31/19.

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 D10D003M34

Weighted E Method													
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year, 6-hr.		
			% (acres)	% (acres)	% (acres)	% (acres)	% (acres)	% (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs		
ALLOWED PROPOSED COMPARISON	23935.00	0.549	0%	0	20%	0.110	46%	0.2528	34%	0.187	1.259	0.058	1.76
	23935.00	0.549	0%	0	20%	0.110	51%	0.2802	29%	0.159	1.210	0.055	1.72
												-0.002	

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	PROVIDED
(CF)		(CF)
0		114
0		114

WATER QUALITY FLOOD CONTROL

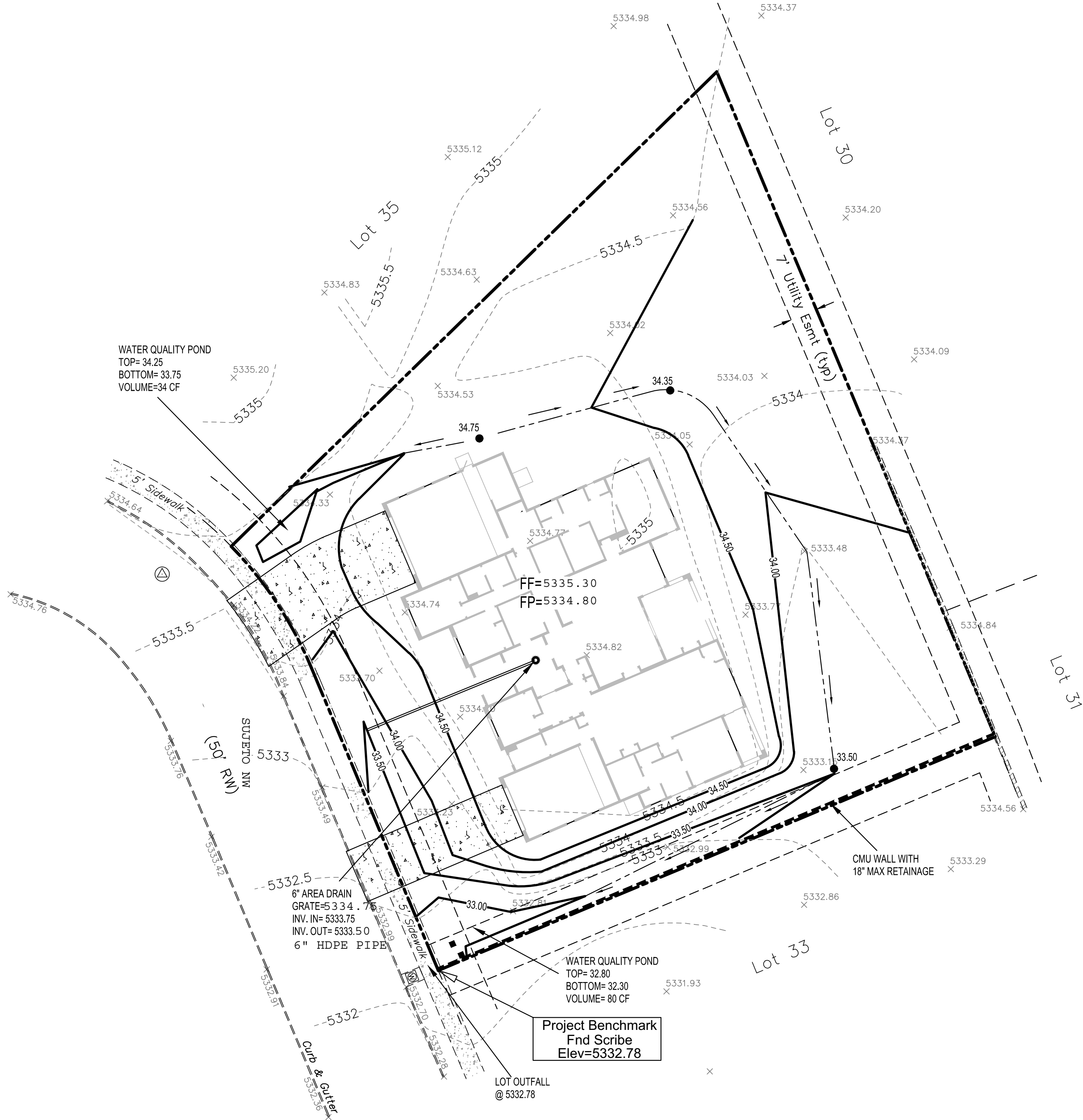
Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the south per the master drainage plan. We are ponding 114 CF of the water harvest volume generated by the sie. there is not measurable upland flow. This plan does not exceed the allowed impervious area therefore we are not required to retain. 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 7/19/19



7/30/19

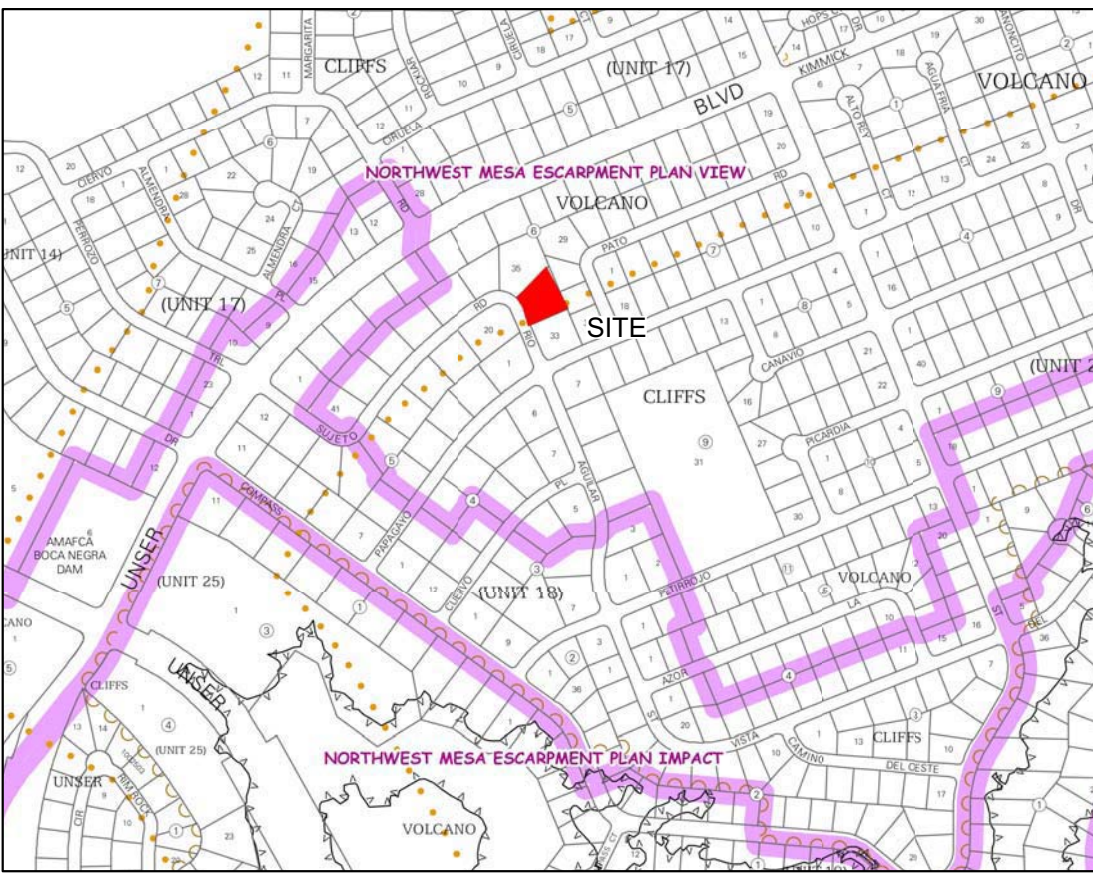


CAUTION:

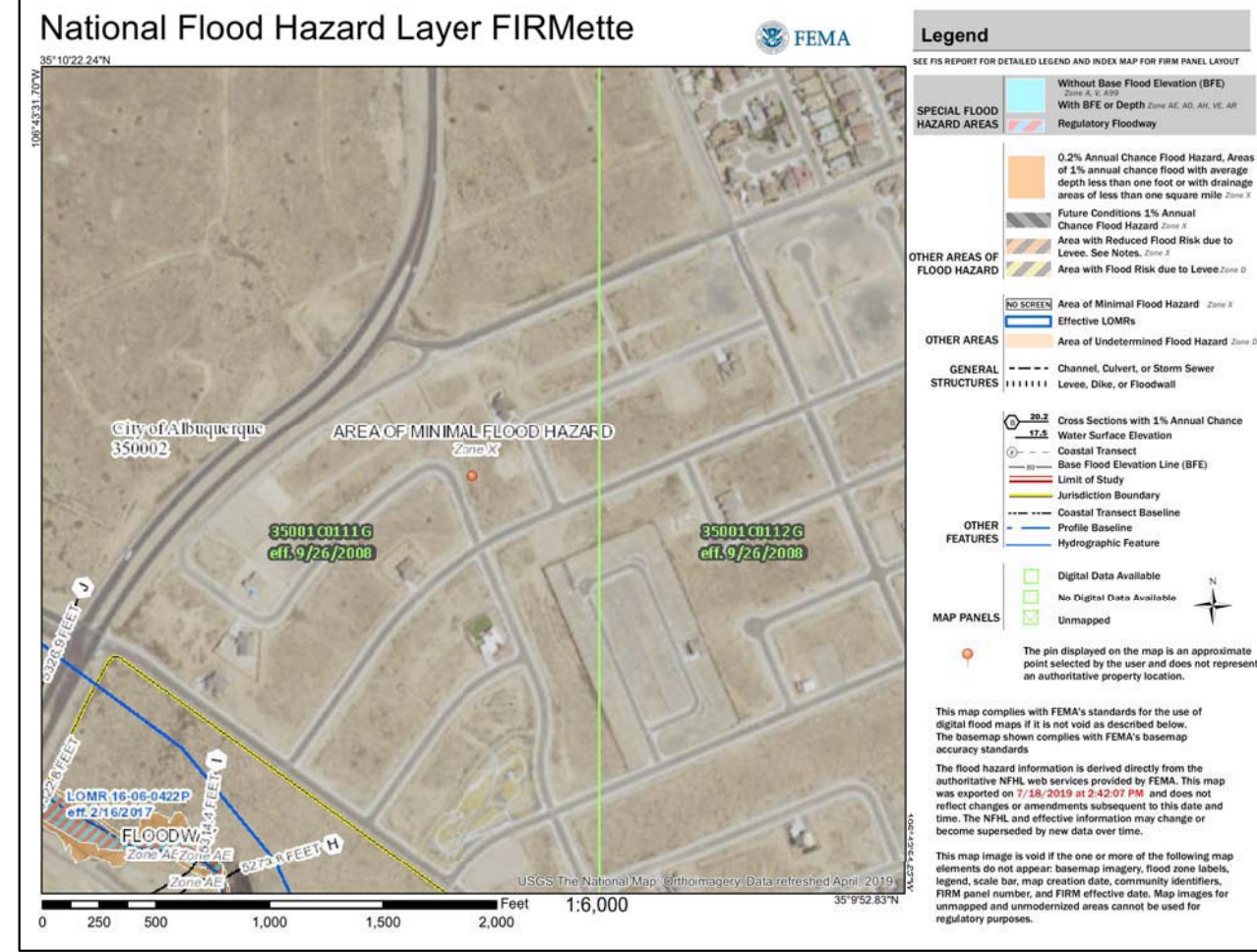
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

EROSION CONTROL NOTES:

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



VICINITY MAP: D-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

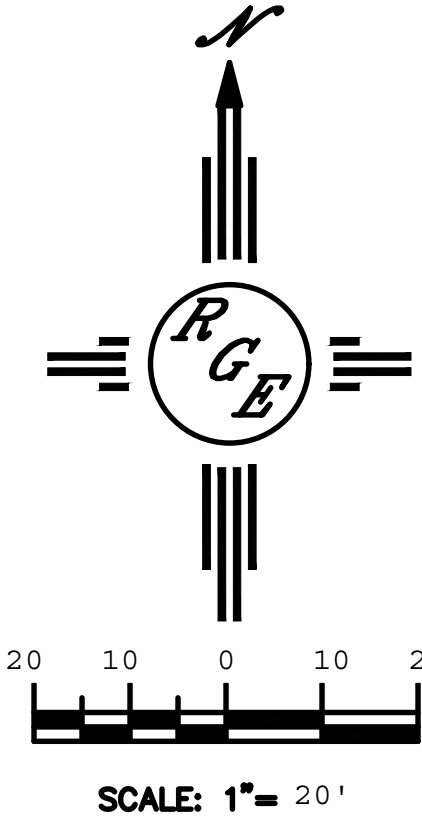
LOT 34 BLOCK 6 UNIT 18 VOLCANO CLIFFS SUBDIVISION CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- A CERTIFICATION OF PAD ELEVATION IS REQURIED PRIOR TO RELEASE OF BUILDING PERMIT

LEGEND

---	EXISTING CONTOUR
- - - -	EXISTING INDEX CONTOUR
---	PROPOSED CONTOUR
- - - -	PROPOSED INDEX CONTOUR
+ XXXXX	EXISTING SPOT ELEVATION
● XXXX	PROPOSED SPOT ELEVATION
---	BOUNDARY
- - - -	PROPOSED EARTHEN SWALE
- - - -	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
- - - -	PROPOSED RETAINING WALL
---	PROPOSED CONCRETE DRIVEWAY



ENGINEER'S SEAL 7/19/19 DAVID SOULE P.E. #14522	LOT 34 BK 6 U 18 VOLCANO CLIFFS SUB. 6605 SUJETO NW GRADING AND DRAINAGE PLAN 1608 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 972-0899	DRAWN BY DEM DATE 7-19-19 LOT 34 BLK 6 UNIT 18 VOLCANO CLIFFS, DOW
		SHEET # C1 JOB #