

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Timothy M. Keller

December 12, 2017

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

**RE: Lot 13P1 Block 9B Unit 3
6340 Pima NW
Grading and Drainage Plan
Engineers Stamp Date 12/1/17 (E10D041)**

Dear Mr. Soule,

Based upon the information provided in your submittal received 10/19/17, this plan is approved for Grading Permit.

PO Box 1293

Please inform the builder/owner to attach a copy of this approved plan and 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.

NM 87103

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.

www.cabq.gov

Sincerely,

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

RR/JDH
C: File

Weighted E Method												
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year, 6-hr.	
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted Volume (ac-ft)	Flow cfs
UPLAND	8976.00	0.206	0%	0	10%	0.021	40%	0.0824	50%	0.103	1.448	0.025
ALLOWED	7575.00	0.174	0%	0	10%	0.017	40%	0.0696	50%	0.087	1.448	0.021
PROPOSED	7575.00	0.174	0%	0	21%	0.037	21%	0.0365	58%	0.101	1.491	0.022
total												0.62

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)
WATER QUALITY	124	
FLOOD CONTROL	27	

Narrative

This site is within the SAD 221 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent roadway per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the neglibable upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulati This plan is in conformance to the master drainage plan

TURNED BLOCKS

Weir Equation:

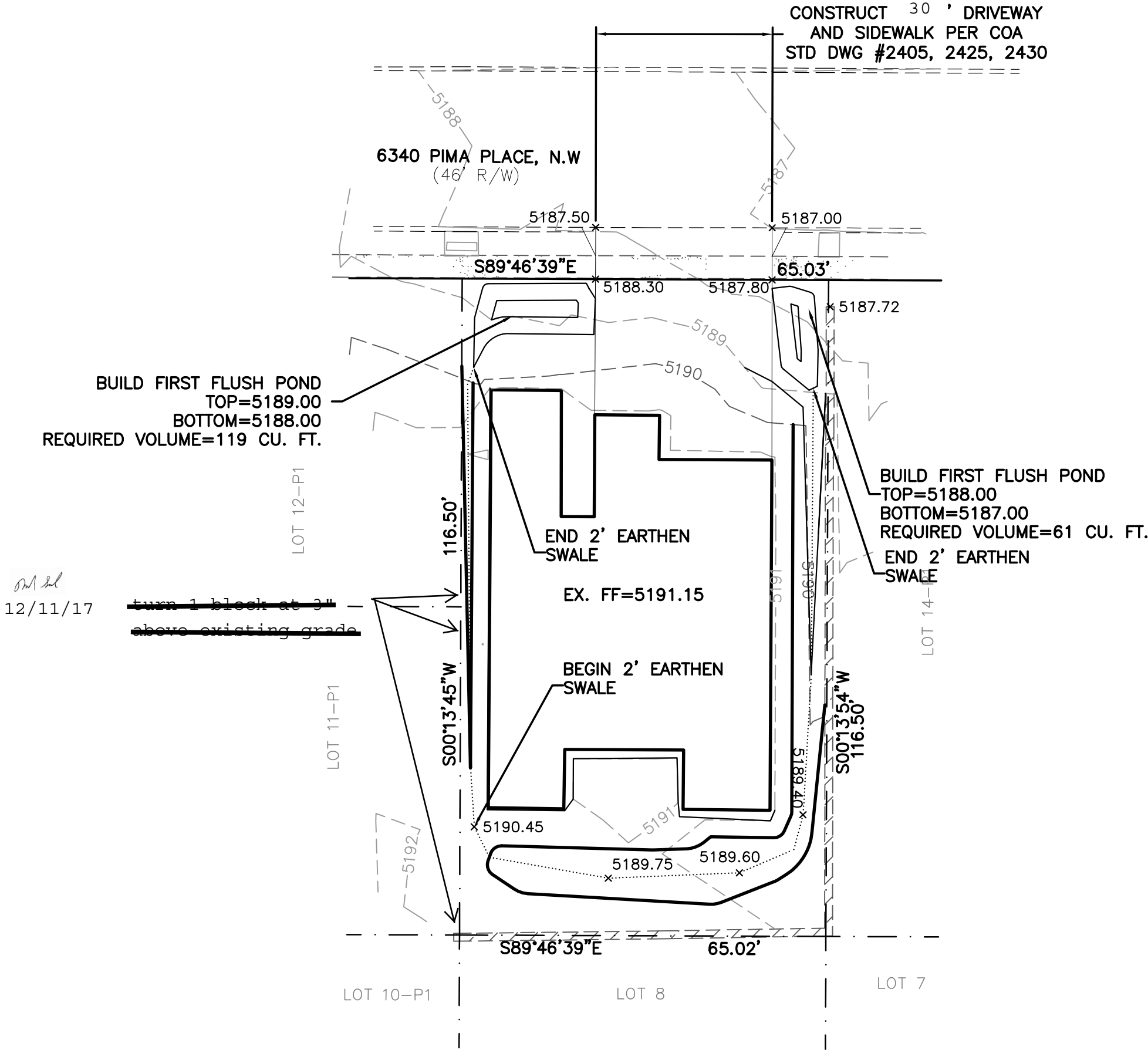
$Q=CLH^{3/2}$

wale thru walls

Q= 2.92 cfs
C = 2.95
H = 0.5 ft
L = Length of weir

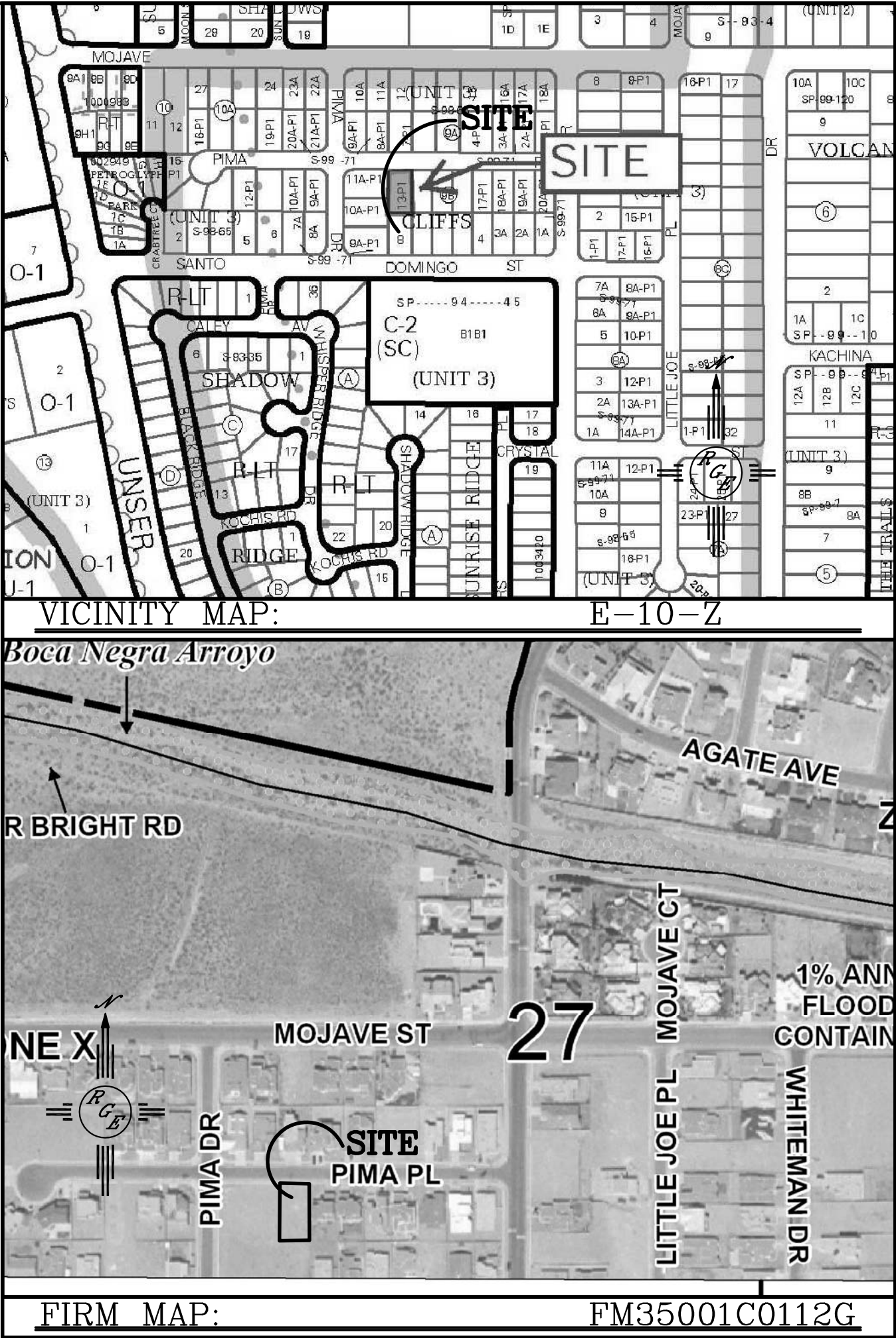
$Q = 2.95 * .5 * ((0.5)^{(3/2)})$

Each opening is 6"x6"
Each block has two openings
Each opening has .52 cfs capacity,
Therefore each turned block has 1.04 cfs capacity



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.



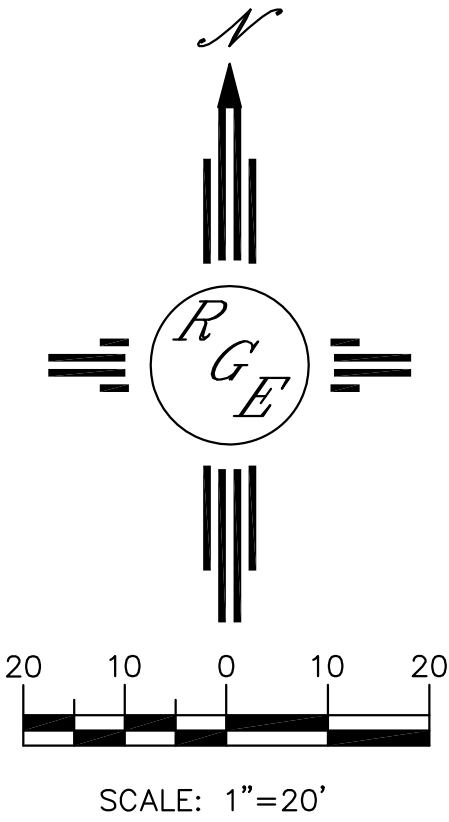
LEGAL DESCRIPTION:
LOT 13-P1, BLOCK 9B, VOLCANO CLIFFS UNIT 3

- 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

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.



<div>ENGINEER'S SEAL</div> <div></div> <div>12/1/17</div> <div>DAVID SOULE P.E. #14522</div>	6340 PIMA PLACE NW	DRAWN BY WCUJ
	GRADING AND DRAINAGE PLAN	DATE 12-01-17
	<div>Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-5999</div>	21828-LAYOUT-12-01-17
		SHEET # —
		JOB # 21828