

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

September 10, 2018

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

RE: **6212 Tesuque Dr NW**
Grading and Drainage Plan
Engineer's Stamp Date: 9/5/18
Drainage File: E10D049

Dear Mr. Soule:

Based on the submittal received on 9/6/18, the grading and drainage plan is approved for Grading Permit.

PO Box 1293

Prior to Building Permit (For Information):

Albuquerque

1. Engineer's Certification of the compacted pad and grading, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.

Prior to Certificate of Occupancy (For Information):

NM 87103

2. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required to ensure the site and the grades against the neighboring walls were not disturbed during home construction.

www.cabq.gov

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6210 TESUQUE DR **Building Permit #:** _____ **Hydrology File #:** E10D049

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: lot 4 block 8A volcano cliffs unit 3

City Address: 6210 TESUQUE

Applicant: CHRIS AND NICOLE ROMERO **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: RIO GRANDE ENGINEERING **Contact:** DAVID SOULE

Address: PO BOX 93924 ALB NM 87199

Phone#: 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

TYPE OF DEVELOPMENT: ☐ PLAT ☐ RESIDENCE ☐ DRB SITE ☐ ADMIN SITE

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

☐ ENGINEER/ARCHITECT CERTIFICATION
☒ PAD CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE REPORT
☐ DRAINAGE MASTER PLAN
☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
☐ ELEVATION CERTIFICATE
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ STREET LIGHT LAYOUT
☐ OTHER (SPECIFY) _____
☐ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☒ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
☐ FLOODPLAIN DEVELOPMENT PERMIT
☐ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

August 31, 2018

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

RE: **6212 Tesuque Dr NW**
Grading and Drainage Plan
Engineer's Stamp Date: 8/24/18
Drainage File: E10D049

Dear Mr. Soule:

Based on the submittal received on 8/24/18, the grading and drainage plan cannot be approved until the following are corrected:

PO Box 1293

Prior to Grading Permit:

Albuquerque

NM 87103

www.cabq.gov

1. The narrative refers to SAD 221, but the site is not located in this SAD. The narrative and drainage assumptions need to be updated accordingly. The backyard ponding needs to be sized for the 100-yr volume for the area draining to it, but subbasins are not provided. Is it feasible to drain the entire roof area to the street? It seems as though some of it will need to be ponded in the backyard. **We have sized pond and shown basin that will drain to street, this site was in SAD 224**
2. Provide wall sections through all perimeter walls showing footers, property lines, existing and proposed grades, horizontal and vertical dimensions. Demonstrate that grading and wall construction near the property line will not endanger adjacent property or constrain its use (DPM Ch.22, section 5 part B). Any private encroachment into neighboring private property will require written and signed permission from both property owners.
Added detail and note

Prior to Building Permit (For Information):

3. Engineer's Certification of the compacted pad and grading, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.

Prior to Certificate of Occupancy (For Information):

4. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required to ensure the site and the grades against the neighboring walls were not disturbed during home construction.

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

A handwritten signature in dark ink, appearing to read 'D. Peterson', is written over a light gray rectangular background.

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Weighted E Method													
										100-Year, 6-hr.			
Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted % (acres)	Volume (ac-ft)	Flow cfs				
UPLAND ALLOWED	8886.00	0.204	0%	0%	10%	0.020	40%	0.0816	50%	0.102	1.448	0.025	0.72
PROPOSED	7725.00	0.177	0%	0%	10%	0.018	40%	0.0709	50%	0.089	1.448	0.021	0.63
FRONT BASIN	5944.00	0.136	0%	0%	10%	0.014	14%	0.0191	74%	0.101	1.663	0.019	0.52
REAR BASIN total	1781.00	0.041	0%	0%	36%	0.015	46%	0.0188	24%	0.010	1.169	0.004	0.13

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	138	210
FLOOD CONTROL(total)	82	210
REAR BASIN	174	198
FRONT BASIN	82	95

5171.10

Narrative

This site is within the SAD 224 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 potential, upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulations. Due to existing walls, the rear yard can't drain, therefore the roof will have gutter system to drain to front and the rear yard will retain 100-year volume

TURNED BLOCKS

Weir Equation:

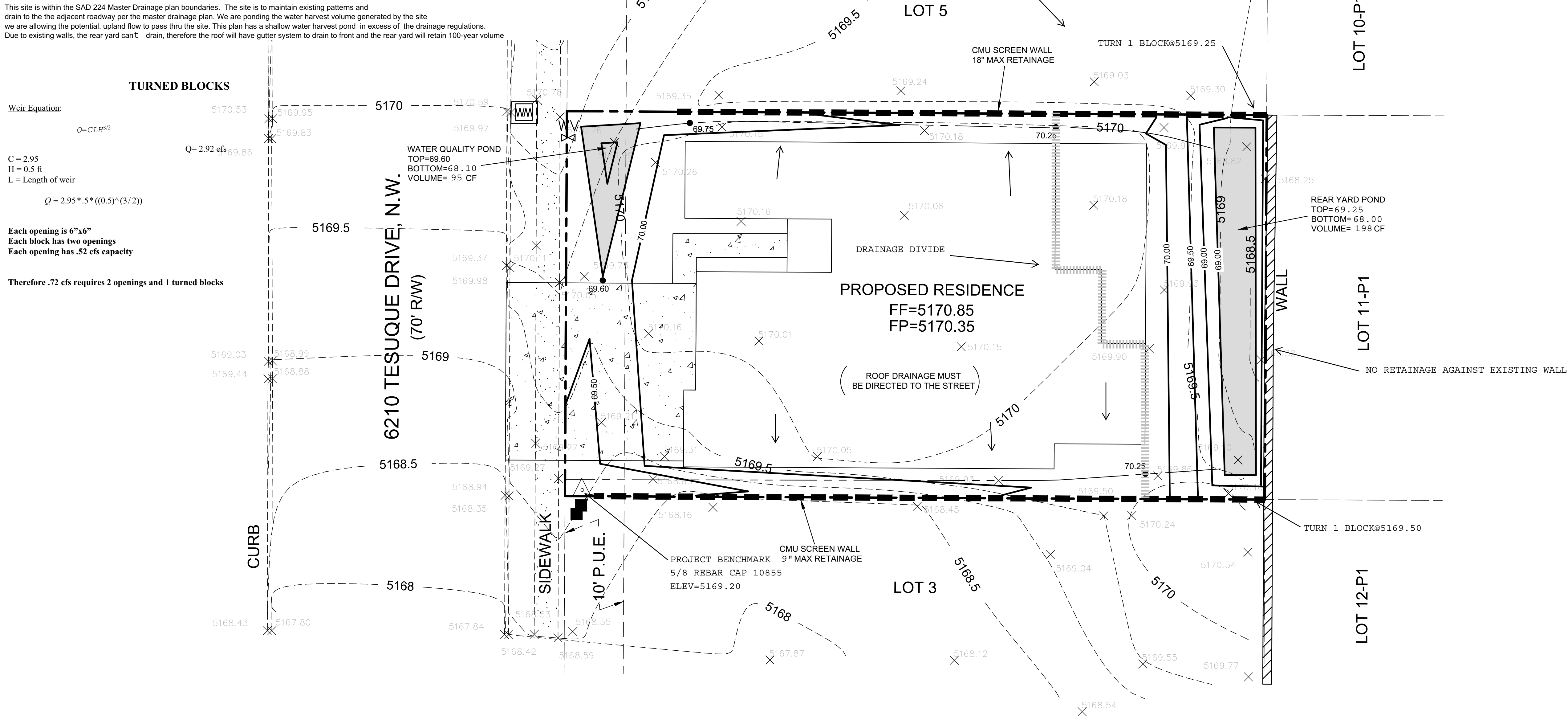
$$Q = CLH^{3/2}$$

C = 2.95
H = 0.5 ft
L = Length of weir

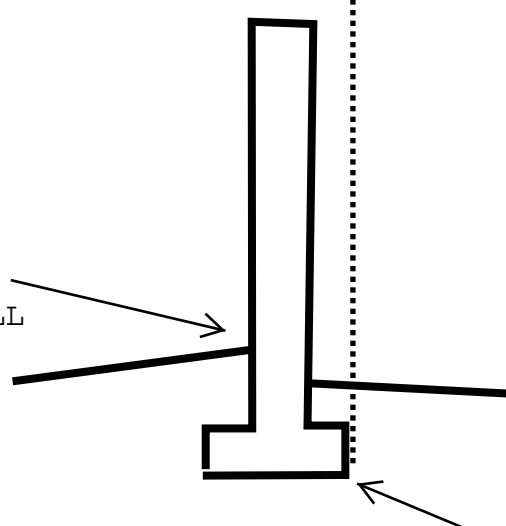
$$Q = 2.95 * .5 * ((0.5)^{3/2})$$

Each opening is 6"x6"
Each block has two openings
Each opening has .52 cfs capacity

Therefore .72 cfs requires 2 openings and 1 turned blocks



MAXIMUM RETAINAGE AGAINST SCREEN WALL SHALL BE 9"



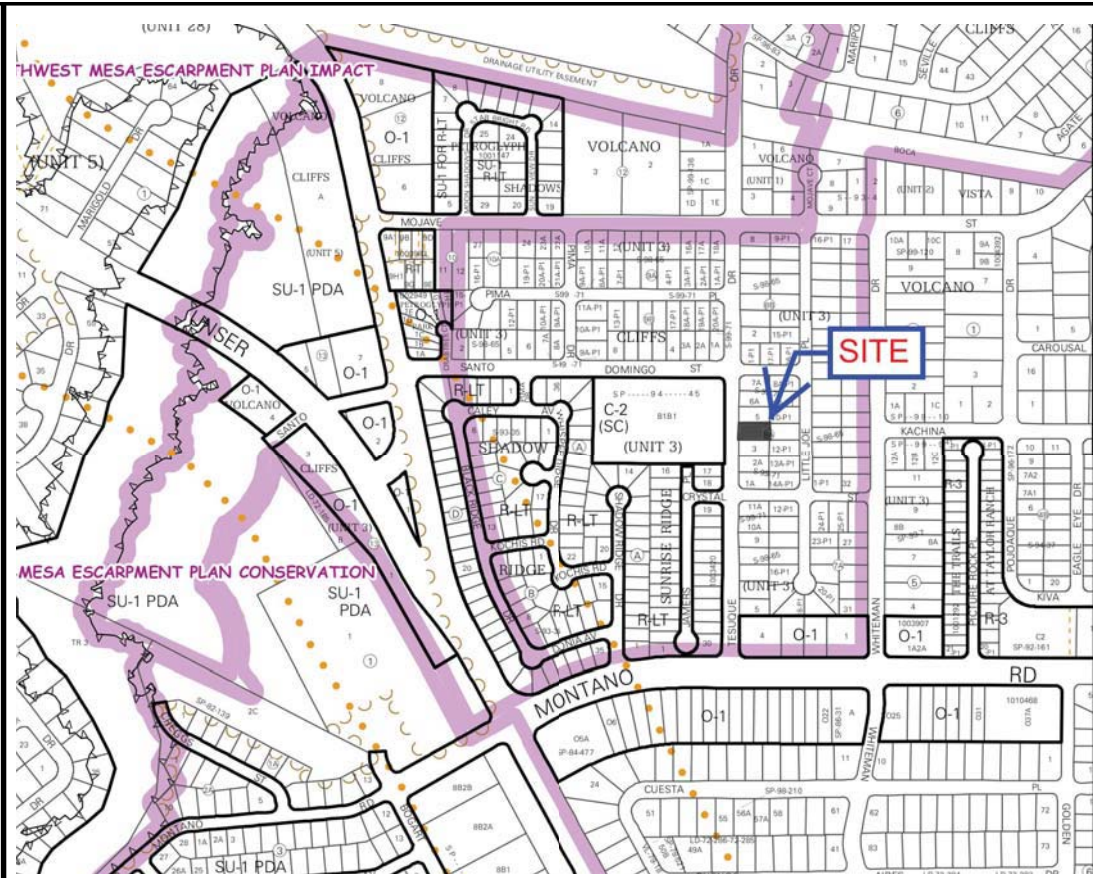
WALL AND FOOTING SHALL NOT ENCR OACH ONTO ADJACENT PROPERTY WITHOUT WRITTEN PERMISSION FROM ADJACENT LOT OWNER

CAUTION:

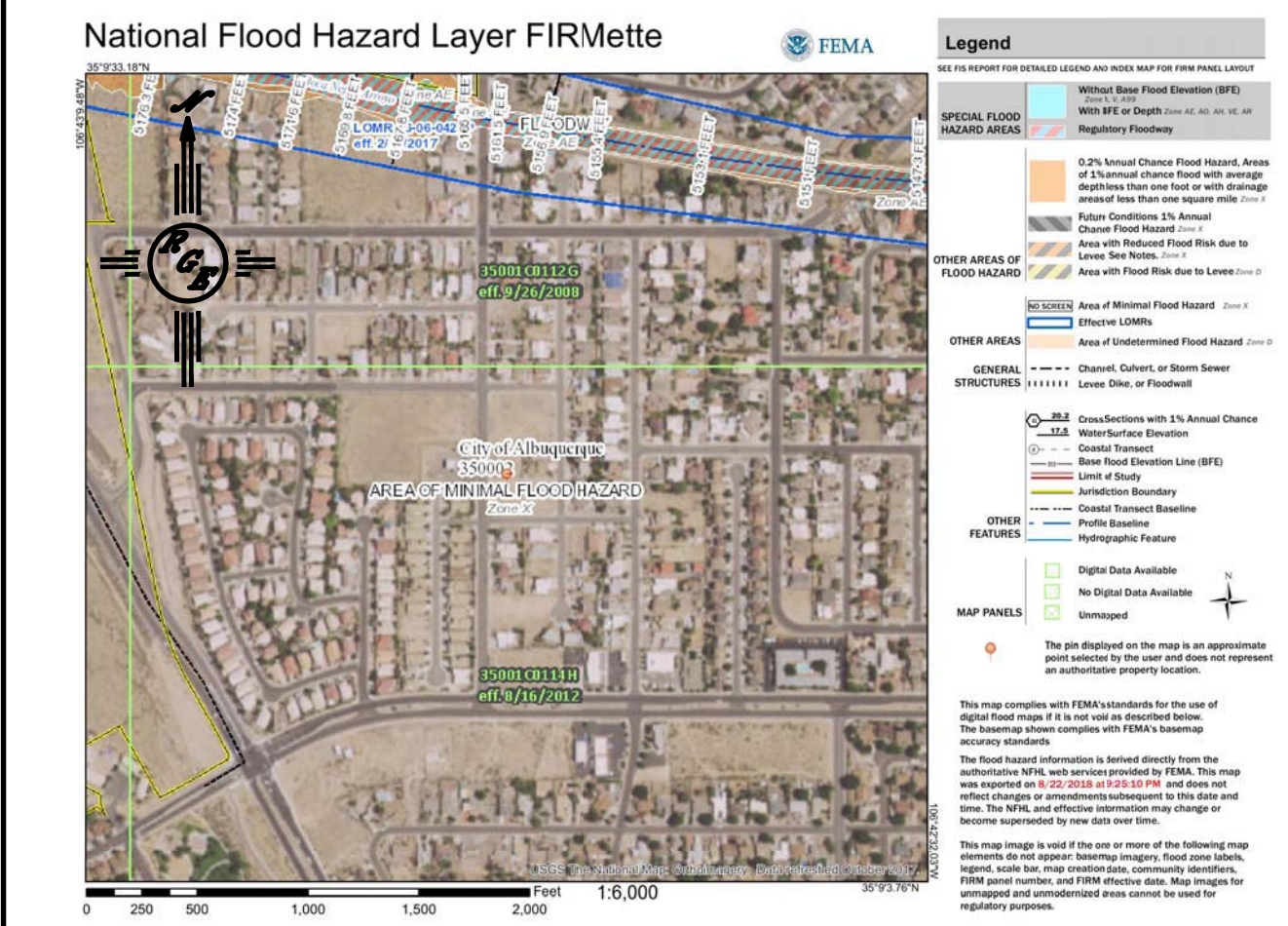
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

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:

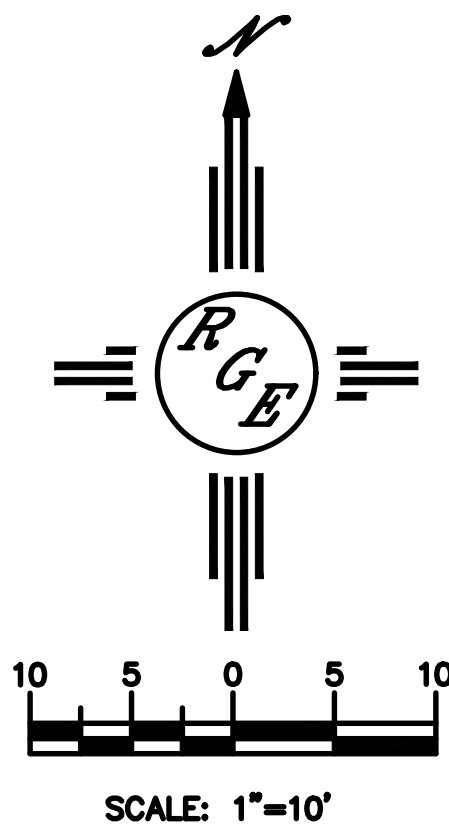
LOT 4, BLOCK 8-A UNIT 3 VOLCANO CLIFFS

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.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.

LEGEND

---	XXXX	---	EXISTING CONTOUR
---	XXXX	---	EXISTING INDEX CONTOUR
---	XXXX	---	PROPOSED CONTOUR
---	XXXX	---	PROPOSED INDEX CONTOUR
+	XXXX		EXISTING SPOT ELEVATION
●	XXXX		PROPOSED SPOT ELEVATION
---		---	BOUNDARY
---		---	PROPOSED EARTHEN SWALE
---		---	ADJACENT BOUNDARY
==		==	EXISTING CURB AND GUTTER
---		---	PROPOSED SCREEN WALL 18" MAX RETAINAGE
---		---	PROPOSED CONCRETE DRIVEWAY



ENGINEER'S SEAL	LOT 4, BLK 8-A U 3 VOLCANO CLIFFS 6210 TESUQUE DRIVE	DRAWN BY DEM
DAVID SOULE REGISTERED PROFESSIONAL ENGINEER 14522	GRADING AND DRAINAGE PLAN	DATE 8-7-18
9/5/18	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0889	LOT 4 BLOCK 8A (RM) DWG
DAVID SOULE P.E. #14522		SHEET # C1
		JOB #