

# CITY OF ALBUQUERQUE

*Planning Department*  
Brennon Williams, Director



*Mayor Timothy M. Keller*

October 26, 2020

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

**RE: 9800 Del Ray Rd. SW**  
**Grading and Drainage Plan**  
**Engineer's Certification Date: 10/23/20**  
**Engineer's Stamp Date: 09/04/20**  
**Hydrology File: M09D019D**

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your Certification received on 10/26/20 and site photos sent on 10/26/20, the above referenced Certification is acceptable for Building Pad Certification for 9800 Del Ray Rd. SW.

Albuquerque

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

NM 87103

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

[www.cabq.gov](http://www.cabq.gov)

Sincerely,

Renée C. Brissette, P.E. CFM  
Senior Engineer, Hydrology  
Planning Department



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** 9800 DEL RAY **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** TRACT A-1-A ELEGANTE AT EL RANCHO GRANDE  
**City Address:** 9800 DEL RAY

**Applicant:** Rodrigo and Ana Guadian **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: \_\_\_\_\_

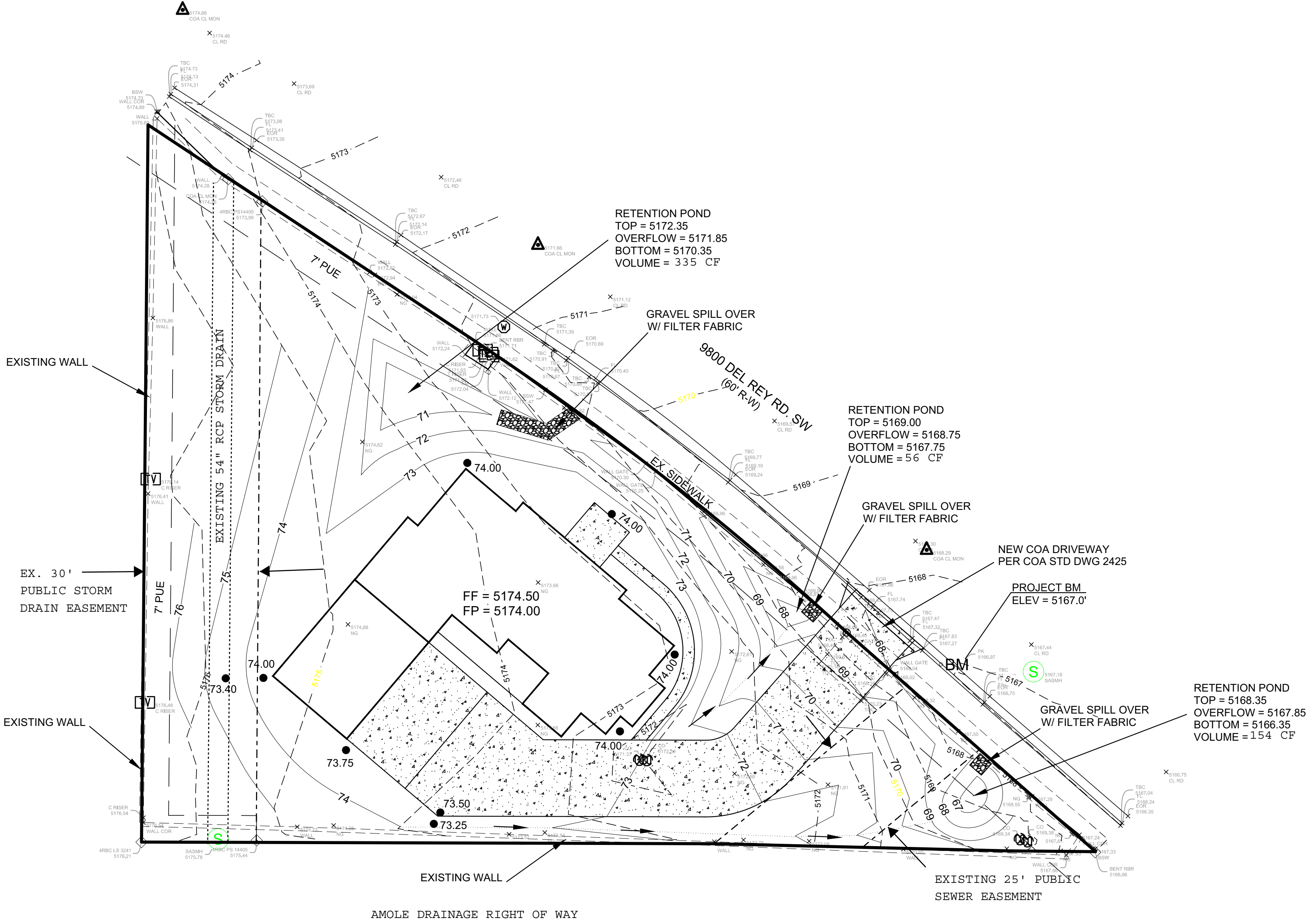
FEE PAID: \_\_\_\_\_



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-ft)	
Existing	23181.00	0.532	60% 0.3193	28% 0.149	10% 0.053	2% 0.011	0.590	0.026	0.91	0.027	
PROP TO REAR	23181.00	0.532	0%	0 31%	0.165 38%	0.202 31%	0.165	1.195	0.053	1.63	0.063
Increase				-0.319	0.0159649	0.149	0.15433		0.027	0.72	0.036
Equations:											
Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)											
Volume = Weighted D * Total Area											
First flush requirement    203.6065 cubic feet											
Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad											
Where for 100-year, 6-hour storm(zone1)											
			Ea= 0.44		Qa= 1.29						
			Eb= 0.67		Qb= 2.03						
			Ec= 0.99		Qc= 2.84						
			Ed= 1.97		Qd= 4.37						
Developed Conditions											
				PEAK FLOW		TOTAL FLOW		VOLUME PROVIDED			
				0.91 CFS		1168 CFS					
EXISTING				1.63 CFS		2751 CFS		545 CF			
PROPOSED											
INCREASE				0.72		1582					

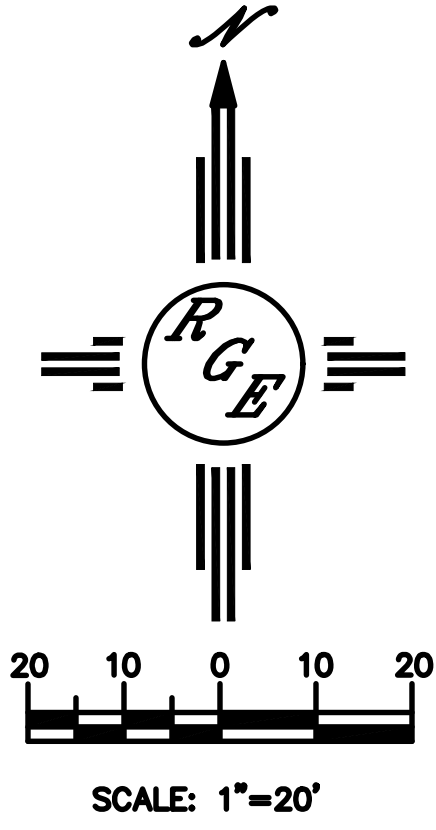
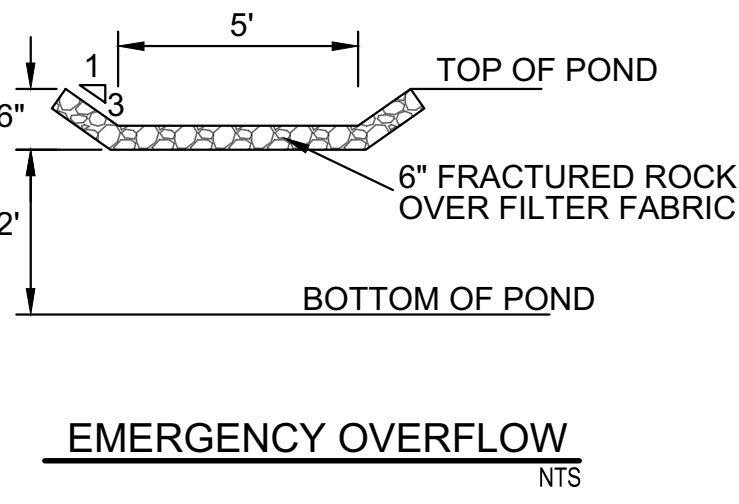
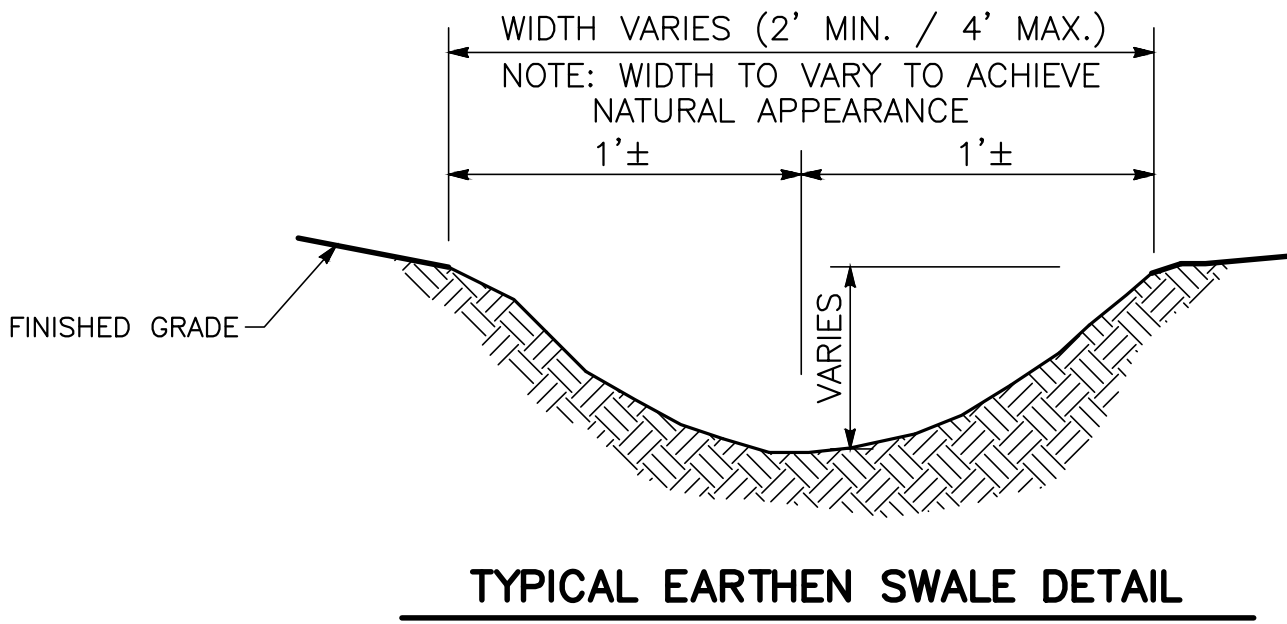
DRAINAGE NARRATIVE

THIS SITE IS A DEVELOPMENT OF A SITE THAT WAS PREVIOUSLY MINIMALLY DEVELOPED. THE PROPOSED DRAINAGE SOLUTION SHALL MAINTAIN EXISTING DRAINAGE PATTI AND DISCHARGE TO THE STREET. THE SITE IS DIRECTLY ADJACENT TO A BRANCH OF THE AMOLE CHANNEL. THIS CHANNEL WAS DESIGNED FOR FULLY DEVELOPED CONDITIONS. OUR SITE IS NEAR THE BOTTOM OF THE CONTRIBUTING BASIN, THEREFORE THE INCREASE IN FLOW OF .73 CFS WILL NOT IMPACT SYSTEM. WE PROPOSE WATER QUALITY PONDS AT EACH DISCHARGE POINT. THE FLOW CAPTURED IS 545 CF.



**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.



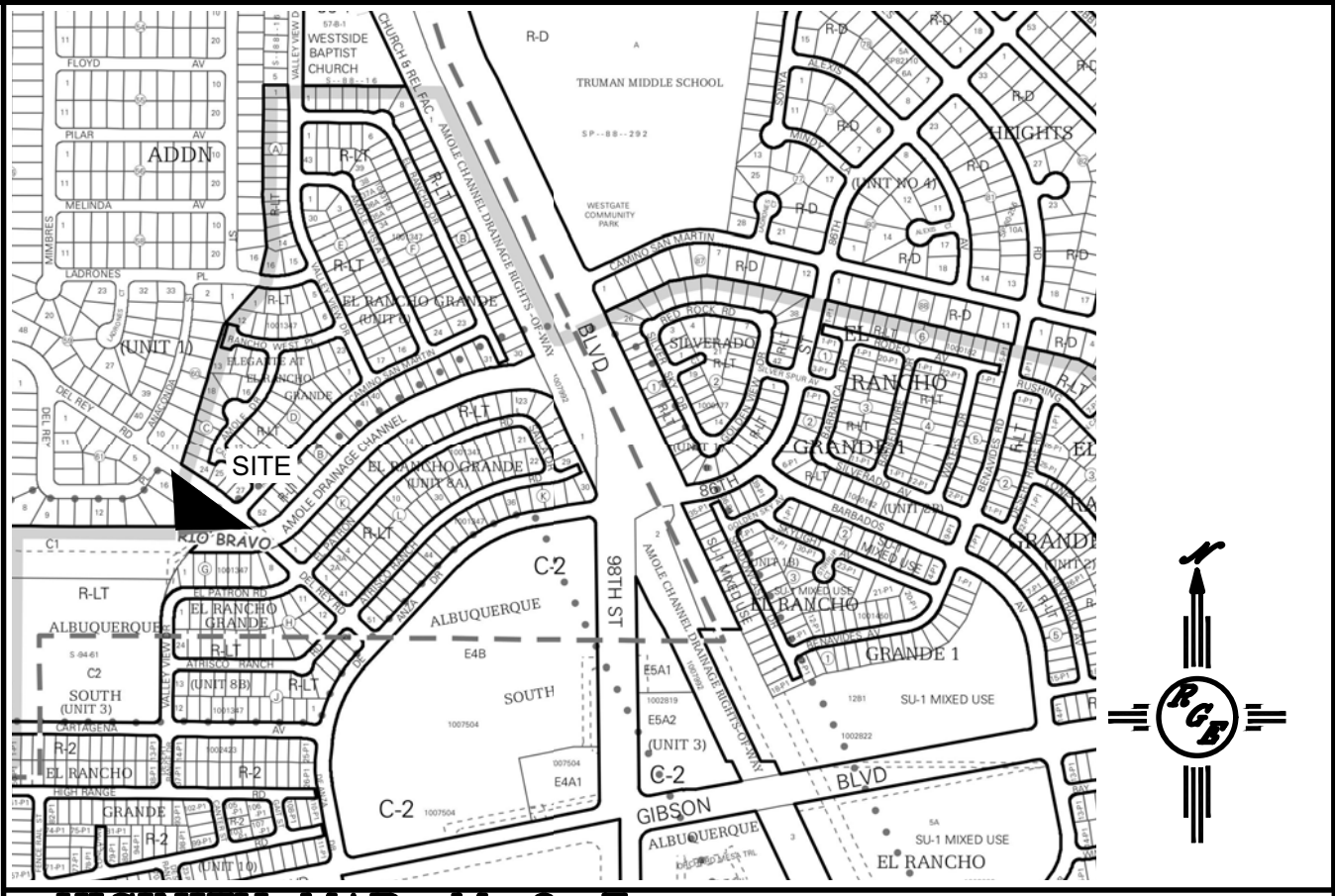
<div>ENGINEER'S SEAL</div> <div>DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER (14522)</div> <div>9/4/20</div> <div>DAVID SOULE P.E. #14522</div>	TRACT A-1-A 9800 DEL REY RD. SW	DRAWN By DEM
	GRADING AND DRAINAGE PLAN	DATE DEM
	<div>Rio Grande Engineering</div> <div>1006 CENTRAL AVENUE SE SUITE 201</div> <div>ALBUQUERQUE, NM 87106</div> <div>(505) 672-0886</div>	9800 DEL REY RD SW/100
		SHEET # C1
		JOB #

### EROSION CONTROL NOTES:

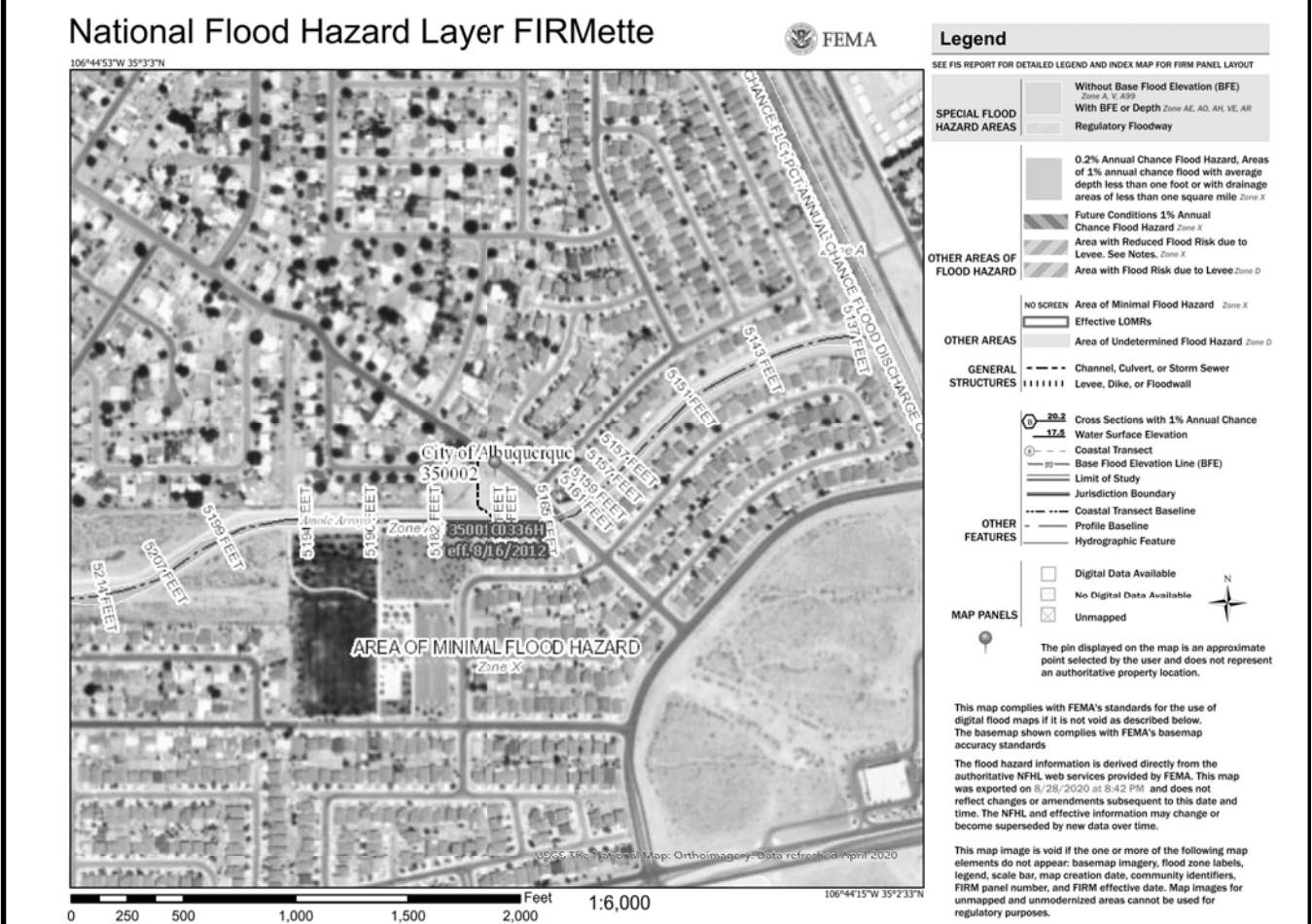
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES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



10/23/20



### VICINITY MAP: M-9-Z



### FIRM MAP:

### LEGAL DESCRIPTION:

TRACT A-1-A PLAT OF ELEGANTE AT EL RANCHO GRANDE  
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

### 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.
5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

### LEGEND

----	EXISTING CONTOUR
----	EXISTING INDEX CONTOUR
----	PROPOSED CONTOUR
----	PROPOSED INDEX CONTOUR
+	EXISTING SPOT ELEVATION
●	PROPOSED SPOT ELEVATION
----	BOUNDARY
----	PROPOSED EARTHEN SWALE
----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
=====	PROPOSED GRAVEL DRIVEWAY
=====	PROPOSED CONCRETE DRIVEWAY