

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.

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 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

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?

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) _____

IS THIS A RESUBMITTAL?: Yes No

DATE SUBMITTED: _____ By: _____

COA STAFF: _____

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Weighted E Method

Basin	Area (sf)	Area (acres)	100-Year, 6-hr.				24-Hour							
			Treatment A	Treatment B	Treatment C	Treatment D	Weighted E	Volume	Flow	Volume				
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**A*a + Eb**A*b + Ec**A*c + Ed**A*d / (Total Area)

Volume = Weighted D * Total Area

First flush requirement 203.6065 cubic feet

Flow = Qa * *A*a + Qb * *A*b + Qc * *A*c + Qd * *A*d

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
EXISTING	0.91 CFS	1168 CF	
PROPOSED	1.63 CFS	2751 CF	545 CF
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 PATT 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.

I, DAVID SOULE HAVE PERSONALLY INSPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 9/4/20 BASED UPON APPROVAL FROM DESIGN ENGINEER THE PAD HAS BEEN CONSTRUCTED



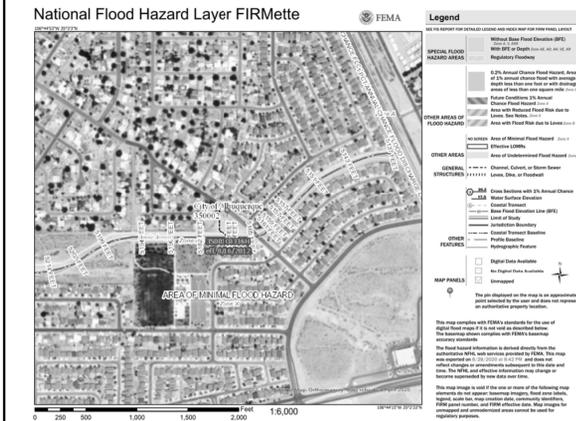
10/23/20

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: M-9-Z



FIRM MAP:

LEGAL DESCRIPTION:

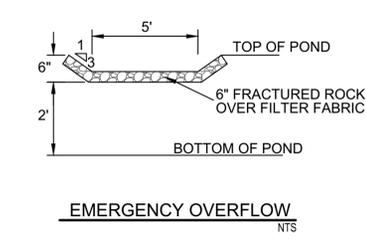
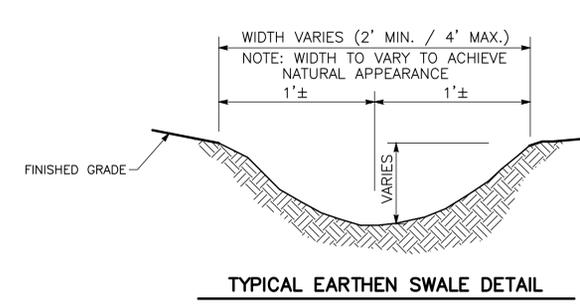
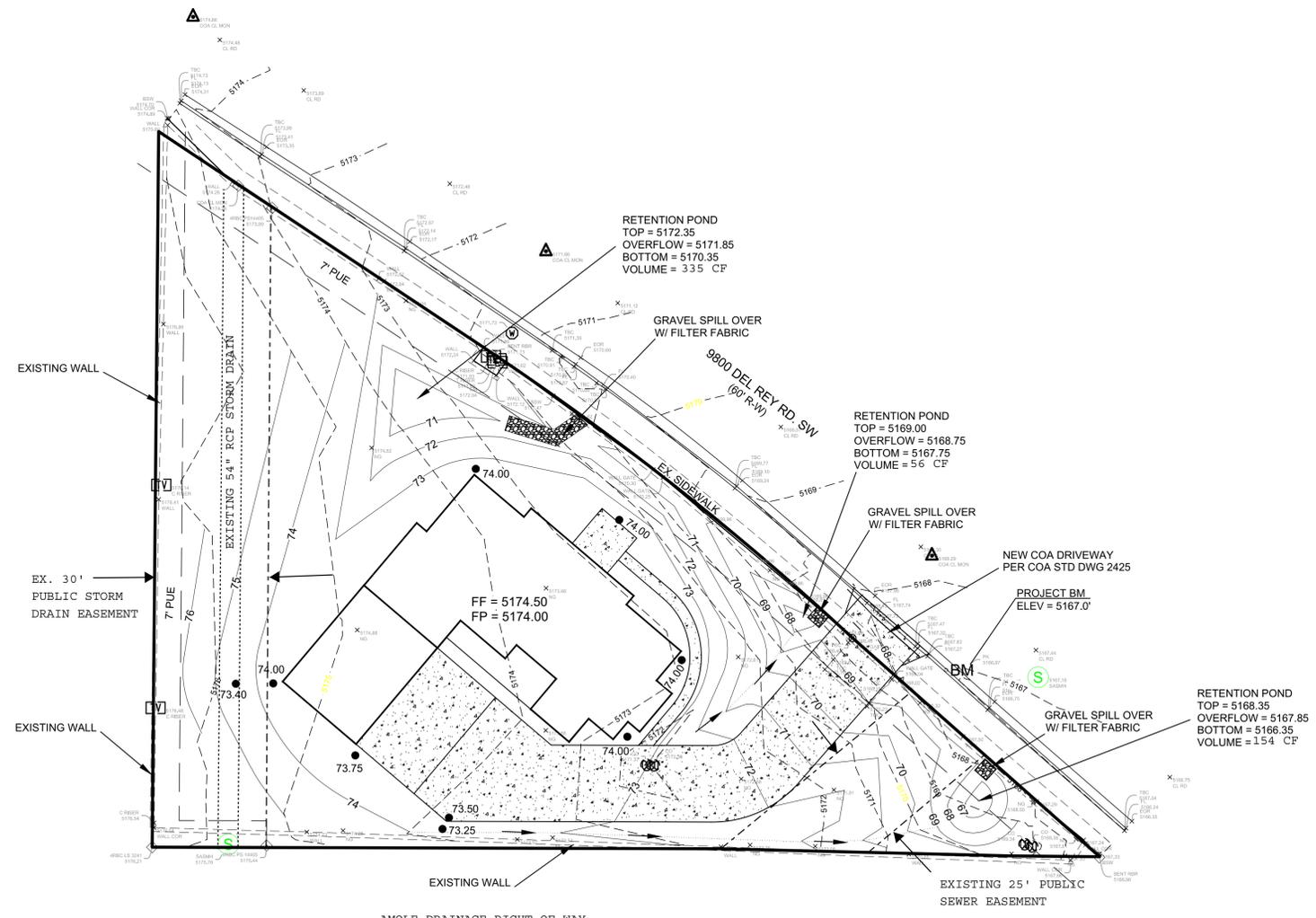
TRACT A-1-A PLAT OF ELEGANTE AT EL RANCHO GRANDE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

- 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 PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

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 GRAVEL DRIVEWAY
-----	PROPOSED CONCRETE DRIVEWAY



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.

 DAVID SOULE P.E. #14522	TRACT A-1-A 9800 DEL REY RD. SW	DRAWN BY DEM
	GRADING AND DRAINAGE PLAN	DATE DEM
9/4/20	 Rio Grande Engineering 1808 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87108 (505) 872-0888	SHEET # C1
		JOB #