

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

March 11, 2025

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

**RE: 6624 mojave St NW  
Grading and Drainage Plan  
Engineer's Stamp Date: 3/5/25  
Hydrology File: E11D033  
Case # HYDR-2025-00074**

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 06/06/2025, the Grading & Drainage Plan is approved for Building Permit and Grading Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

**PRIOR TO CERTIFICATE OF OCCUPANCY:**

NM 87103

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

www.cabq.gov

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3314 or [amontoya@cabq.gov](mailto:amontoya@cabq.gov).

Sincerely,

Anthony Montoya, Jr., P.E., CFM  
Senior Engineer, Hydrology  
Planning Department, Development Review Services

Weighted E Method

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	100-yr 6-hr Volume (ac-ft)	100 yr 10-day Volume (ac-ft)			
EXISTING	14534.00	0.334	75%	0.2502	25%	0.083	0%	0.000	0%	0.000	0.595	0.017	0.57	0.017
FRONT BASIN	4277.00	0.098	0%	0	10%	0.010	16%	0.016	74%	0.073	1.883	0.015	0.37	0.028
REAR BASIN	10257.00	0.236	0%	0	36%	0.085	47%	0.111	17%	0.040	1.090	0.021	0.67	0.029

Equations:

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted E \* Total Area

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm(zone1)

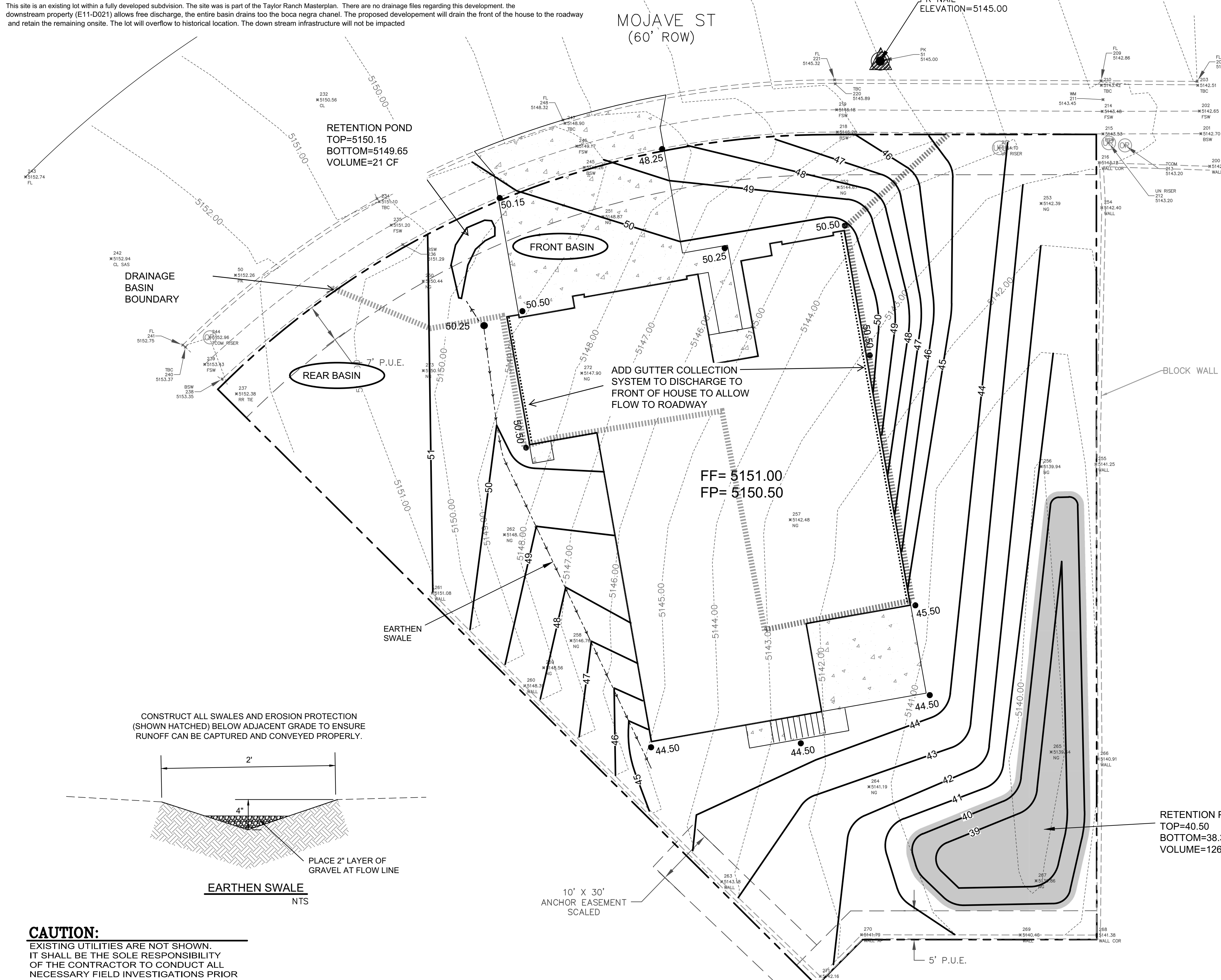
Qa= 1.54  
Eb= 0.73  
Ec= 0.95  
Ed= 2.24

Qb= 2.16  
Qc= 2.87  
Qd= 4.12

Developed Conditions	Peak rate	VOLUME
EXISTING DISCHARGE	0.57 cfs	
DEVELOPED DISCHARGE(FRONT)	0.37 cfs	
DEVELOP DISCHARGE (REAR)	0 cf	1253 CF GENERATED
PROPOSED PONDING		1266 CF RETAINED

This site is an existing lot within a fully developed subdivision. The site was part of the Taylor Ranch Masterplan. There are no drainage files regarding this development. The downstream property (E11-D021) allows free discharge, the entire basin drains too the boca negra channel. The proposed development will drain the front of the house to the roadway and retain the remaining onsite. The lot will overflow to historical location. The down stream infrastructure will not be impacted

WATER QUALITY=173 CF



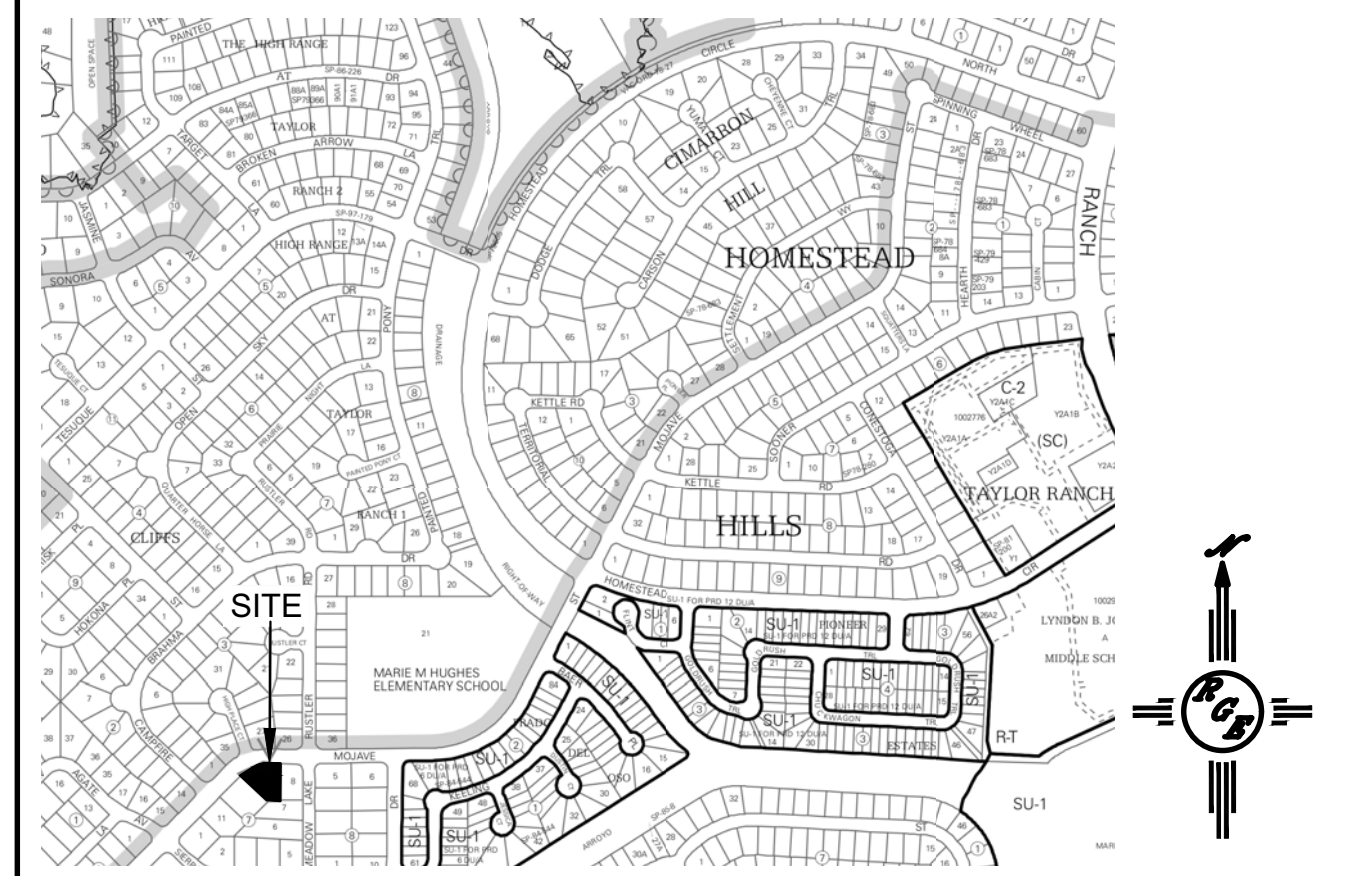
**EROSION CONTROL NOTES:**

- 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.

**City of Albuquerque  
Planning Department  
Development Review Services  
HYDROLOGY SECTION  
APPROVED**

DATE: 3/11/2025  
BY: *David Soule*  
HydroTeam # E11D033

THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSIDERED TO PREVENT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OR ALBUQUERQUE FROM REQUESTING CORRECTIONS FOR ERRORS OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS. SUCH APPROVED PLANS/REPORTS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION. THE APPROVAL OF THESE PLANS/REPORTS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



**VICINITY MAP: D-11-Z**

**National Flood Hazard Layer FIRMette**

The FIRM map shows various flood hazard zones, including 1% Annual Chance Flood Hazard, 0.2% Annual Chance Flood Hazard, and 1% Annual Chance Flood Hazard. A legend and scale are included.

**FIRM MAP:**

**LEGAL DESCRIPTION:**  
LOT 9, BLOCK 7 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 DYNAMIC CONSTRUCTION AND TECHNOLOGY LLC USING NAVD DATUM 1988.
- LONG TERM MAINTAINANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED
- 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
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
-----<-----	PROPOSED EARTHEN SWALE
-----	PROPOSED RETAINING WALL
-----	PROPOSED GRAVEL
-----	PROPOSED CONCRETE
-----	PROPOSED 2' WIDE COBBLE SWALE

**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.

**RGE**

N

0 5 10

SCALE: 1"=10'

ENGINEER'S SEAL <b>DAVID SOULE</b> NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522	<b>LOT 9 BLK 7 VOLCANO CLIFFS SUB 6624 MOJAVE ST NE</b>	DRAWN BY <b>DEM</b>
	<b>GRADING AND DRAINAGE PLAN</b>	DATE 3-4-25
	<b>Rio Grande Engineering</b> P.O. BOX 53354 ALBUQUERQUE, NM 87199 (505) 321-8099	SHEET # <b>C1</b>
3/5/25		JOB #
DAVID SOULE P.E. #14522		