

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

May 2, 2025

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

RE: **Lot 23 Block 6 Unit 18 SAD 228**  
**6511 Pato Rd. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 4/19/2025 (D10D003M23)**

Mr. Soule,

Based upon the information provided in your submittal received 4/30/2025, this plan is approved for Grading Permit.

**Prior to Building permit approval, a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.**

**Advise the owner contractor not to use dirt as a ramp to climb the curb, use lumber or crusher fines for this purpose.**

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. Also, if a swimming pool is to be placed the grading and drainage plan will change and will need to be resubmitted.

**Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is required.**

If you have any questions, please contact me at (505)924-3695 or Rudy Rael at (505)924-3977.

Sincerely,

Tiequan Chen, P.E.  
Principal Engineer, Hydrology  
Planning Department, Development Review Services

RR/TC  
C: File D10D003M23



Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A (acres)	Treatment B (acres)	Treatment C (acres)	Treatment D (acres)	Weighted E (ac-ft)	100-Year, 6-hr. Volume (ac-ft)	Flow cfs	24 hour Volume (ac-ft)
ALLOWED	14540.00	0.334	0%	0%	0.067	46%	0.1535	34%	0.113	1.345
PROPOSED	14540.00	0.334	0%	0%	0.067	29%	0.0968	51%	0.170	1.564
COMPARISON										

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= 0.05  
Eb= 0.73  
Ec= 0.95  
Ed= 2.24

Qa= 1.54  
Qb= 2.16  
Qc= 2.87  
Qd= 4.12

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	260	366
FLOOD CONTROL	360	366

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns. The site does exceed the SAD 228 developed conditions assumptions therefore ponding is required. No upland flow enter the site. This plan is in conformance to the master drainage plan

City of Albuquerque  
Planning Department  
Development Review Services  
HYDROLOGY SECTION

APPROVED

DATE: 5/2/2025  
BY: *Hege Cha*  
HydroTrans # D10D003M23

THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS FOR ERRORS OR OMISSIONS 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 FILED ON THE DEVELOPMENT.

