# CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



January 27, 2020

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

RE: Lot 16 Block 2, Volcano Cliffs, Unit 19, SAD 228 6504 Camino Del Oeste NW Grading and Drainage Plan Engineers Stamp Date 1/23/20 (D10D003G16)

Dear Mr. Soule,

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 1/24/20, 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 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Ernest Armijo, P.E.

Principal Engineer, Hydrology

Planning Department

RR/SB

C: File D10D003G16



# City of Albuquerque

### Planning Department

#### Development & Building Services Division

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

| Project Title: 6504 CAMINO DE  | L OESTE<br>Building Perm        | nit #:  | Hydro       | ology File #.                 |  |  |  |  |
|--|---------------------------------|---|-------------|-------------------------------|--|--|--|--|
| DRB#:  | EPC#:                           |   | Work        | Order#:                       |  |  |  |  |
| Legal Description: LOT 16 BLO City Address: 6504 CAMINO DE   | CK 2 Volcano C                  | Cliffs u  | nit 19      |                               |  |  |  |  |
|  |                                 |   |             |                               |  |  |  |  |
| Applicant:   |                                 |   |             |                               |  |  |  |  |
| Address:   |                                 |   |             |                               |  |  |  |  |
| Phone#:  | Fax#:                           |   | E-mail:     |                               |  |  |  |  |
| Other Contact: RIO GRANDE EN   | GINEERING                       |   | DAVID SOULE |                               |  |  |  |  |
| Address: PO BOX 93924 ALE  |                                 |   |             |                               |  |  |  |  |
| Phone#: 505.321.9099   | Fax#: <sup>505.87</sup>         | 2.0999  | E-mail:     | david@riograndeengineering.co |  |  |  |  |
| TYPE OF DEVELOPMENT:   |                                 |   |             |                               |  |  |  |  |
| Check all that Apply:  |                                 |   |             |                               |  |  |  |  |
| DEPARTMENT:  X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION  TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFIC PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN-revised to DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PER ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT TRAFFIC LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?  IS THIS A RESUBMITTAL?: X Yes | o raise pad  RMIT APPLIC  (TCL) | TYPE OF APPROVAL/ACCEPTANCE SOUGHT:  X 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:  | •                               |   |             |                               |  |  |  |  |
| COA STAFF:   |                                 |   | EIVED:      | _                             |  |  |  |  |

FEE PAID:\_\_\_\_

#### Weighted E Method

|            |          |         |       |         |       |         |       | 100-Year, 6-hr. |       |         |            |         |      |      |
|------------|----------|---------|-------|---------|-------|---------|-------|-----------------|-------|---------|------------|---------|------|------|
| Basin      | Area     | Area    | Treat | ment A  | Treat | ment B  | Treat | ment C          | Treat | ment D  | Weighted E | Volume  | Flow |      |
|            | (sf)     | (acres) | %     | (acres) | %     | (acres) | %     | (acres)         | %     | (acres) | (ac-ft)    | (ac-ft) | cfs  |      |
| ALLOWED    | 12442.00 | 0.286   | 0%    | 0       | 20%   | 0.057   | 46%   | 0.1314          | 34%   | 0.097   | 1.259      | 0.030   |      | 0.92 |
| PROPOSED   | 12442.00 | 0.286   | 0%    | 0       | 20%   | 0.057   | 24%   | 0.0686          | 56%   | 0.160   | 1.475      | 0.035   |      | 1.01 |
| COMPARISON |          |         |       |         |       |         |       |                 |       |         |            | 0.005   |      |      |

### **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

Qa= 1.29 Ea= 0.44 Eb= 0.67 Qb= 2.03 Ec= 0.99Qc= 2.87 Ed= 1.97 Qd= 4.37

**ONSITE Conditions** 

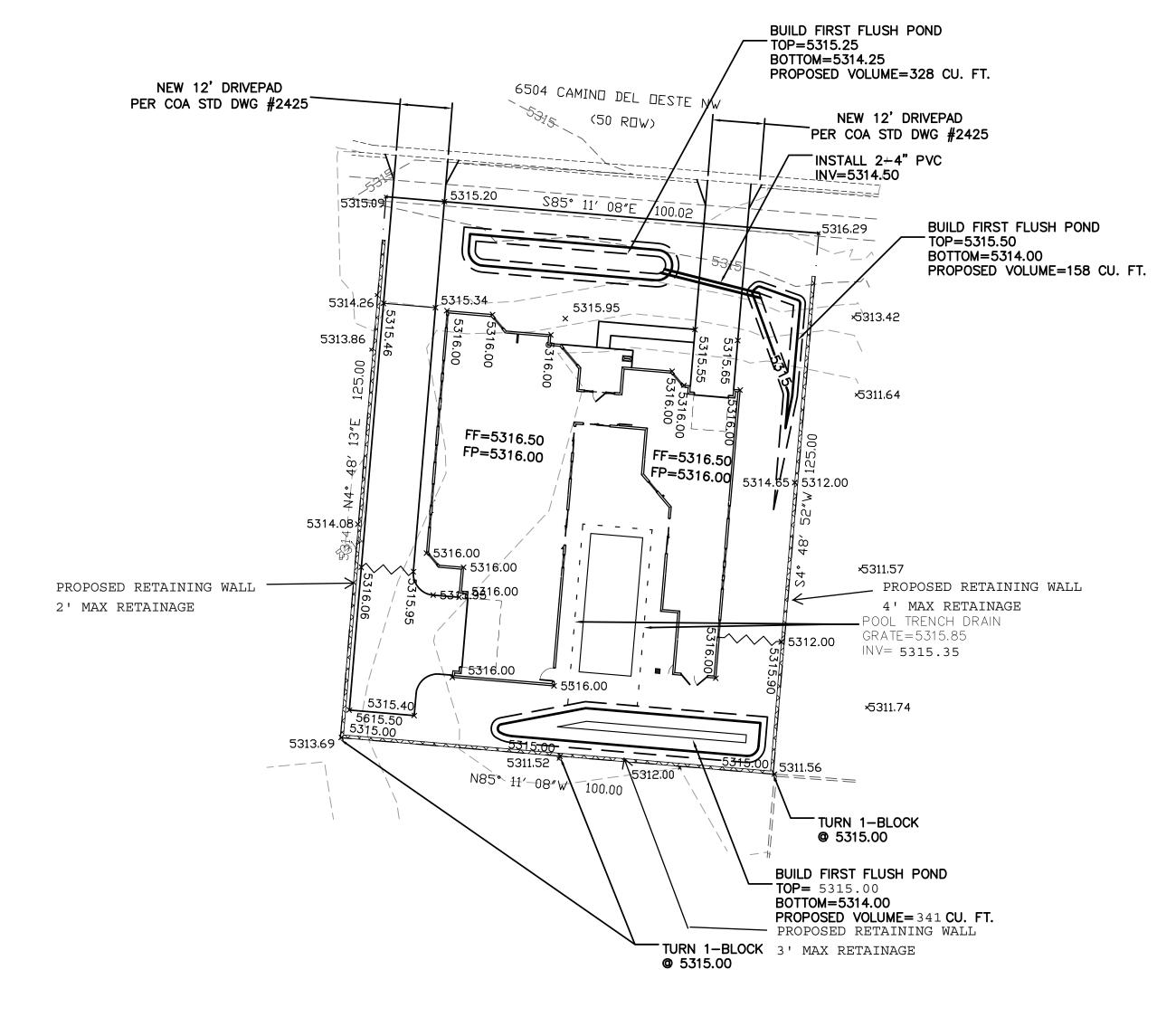
FIRST FLUSH WATER QUALITY VOLUME

REQUIRED PROVIDED (CF) 827

WATER QUALITY 827 FLOOD CONTROL 224

#### Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain the front to the street and the remainder will drain to the south per the master drainage plan. We are ponding 827 CF to minimize cross lot drain and reduce import, there is no measurable upland flow. This plan does exceed the allowed impervious area therefore we are requried to . retain 224 cubic feet. This plan is in conformance to the master drainage plan



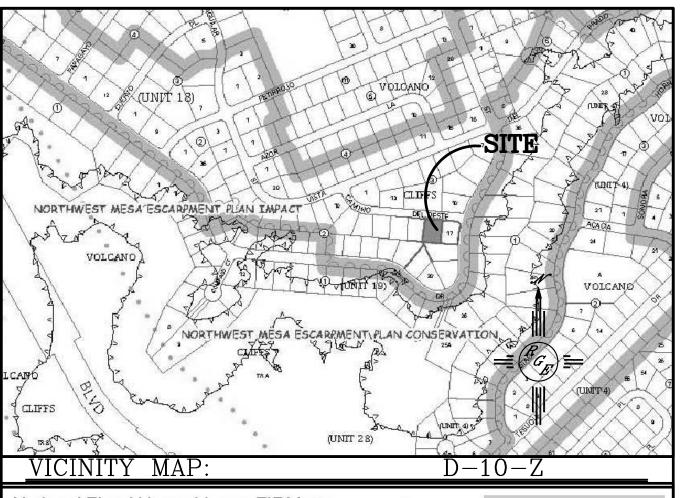
## CAUTION:

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:

INTO EXISTING RIGHT-OF-WAY.

- 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
- 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.



National Flood Hazard Layer FIRMette FEMA Legend The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This may was exported on 11/21/2019 at 1:33:21 PM and does not

Future Conditions 13% Annual Chance Flood Hazard 2004 2
Area with Reduced Flood Risk due to Leves 30e Notes. 2014
HAZARD Area with Flood Risk due to Leves 2004 NO SCREEN Area of Minimal Flood Hazard Jose Effective LOMRs O- - Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study
Jurisdiction Boundary OTHER Coastal Transect Base line
Profile Baseline
FEATURES Hydrographic Feature No Digital Data Available Unma pped The pin displayed on the map is an approximat point selected by the user and does not repres-an authoritative property location.

Without Base Flood Elevation (BFE) Joke A, Y, ASS With BFE or Depth Joke AS, AG, AV, VE, AS

FIRM MAP:

LEGAL DESCRIPTION: LOT 16, BLOCK 2, UNIT 18, VOLCANO CLIFFS SUBD

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

## LEGEND

---- EXISTING CONTOUR ---- EXISTING INDEX CONTOUR PROPOSED CONTOUR PROPOSED INDEX CONTOUR SLOPE TIE EXISTING SPOT ELEVATION × XXXX × XXXX PROPOSED SPOT ELEVATION ———————————————BOUNDARY CENTERLINE - RIGHT-OF-WAY 

PROPOSED CMU SCREEN WALL

