

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

April 8, 2021

David Soule, PE
Rio Grande Engineering
1606 Central SE Suite 201
Albuquerque, NM 87106

**Re: Lot 1 Block 2 SAD 228
Volcano Cliffs Subdivision Unit 27
5508 Valiente NW
Grading and Drainage Plan
Engineers Stamp Date 4/24/2020 (C11D005)
Pad Certification Date 7/13/2020
CO Certification Dated: 4/3/2021**

PO Box 1293

Dear Mr. Soule,

Albuquerque

Based on the Certification received on 4/6/2021, the site is acceptable for release of Certificate of Occupancy by Hydrology.

NM 87103

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

www.cabq.gov

Sincerely,

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 5508 VALIENTE **Building Permit #:** _____ **Hydrology File #.** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 1 BLOCK 2 Volcano Cliffs unit 27
City Address: 5508 VALIENTE NW

Applicant: _____ **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. | | | | | | Weighted E (ac-ft) | Volume (ac-ft) | Flow cfs | 24 hour Volume (ac-ft) | | |
|------------|-----------|--------------|-----------------|---------------|---------------|---------------|---------------|---------------|--------------------|----------------|----------|------------------------|------|-------|
| | | | Treatment A % | Treatment B % | Treatment C % | Treatment D % | Treatment E % | Treatment F % | | | | | | |
| ALLOWED | 14164.00 | 0.325 | 0% | 0% | 20% | 0.065 | 46% | 0.1496 | 34% | 0.111 | 1.259 | 0.034 | 1.04 | 0.038 |
| PROPOSED | 14164.00 | 0.325 | 0% | 0% | 22% | 0.072 | 28% | 0.091 | 50% | 0.163 | 1.410 | 0.038 | 1.12 | 0.044 |
| COMPARISON | | | | | | | | | | | 0.004 | | | 0.006 |

Equations:

Weighted E = $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$ / (Total Area)

Volume = Weighted D * Total Area

Flow = $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

Where for 100-year, 6-hour storm-zone 1
 $E_a = 0.44$ $Q_a = 1.29$
 $E_b = 0.67$ $Q_b = 2.03$
 $E_c = 0.99$ $Q_c = 2.87$
 $E_d = 1.97$ $Q_d = 4.37$

| ONSITE Conditions | FIRST FLUSH WATER QUALITY VOLUME REQUIRED (CF) | PROVIDED (CF) |
|-----------------------------|--|---------------|
| WATER QUALITY FLOOD CONTROL | 0 | 275 |

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the north per the master drainage plan. The site does exceed the SAD 228 developed conditions assumptions, therefore ponding is required. Nor upland flow enters the site. We are ponding the water harvest volume generated by the site there is not measurable upland flow due to grading plan on adjacent lot. This plan is in conformance to the master drainage plan.

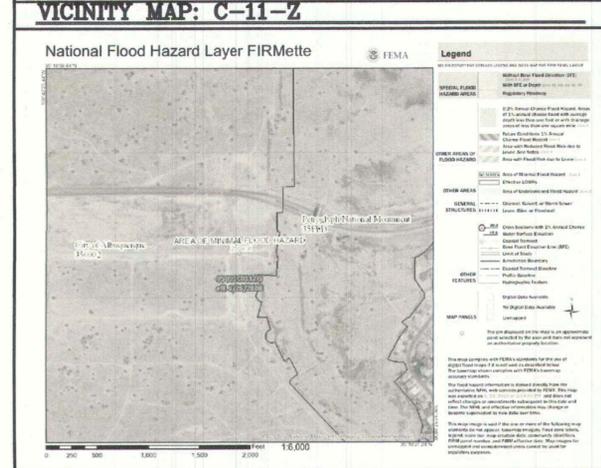
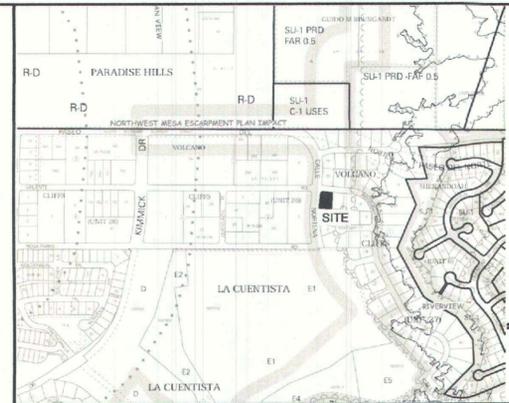
I, DAVID SOULE HAVE PERSONALLY INSPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 4/24/20



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.

I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 4/24/20. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided by ANTHONY HARRIS NMPLS 11468. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.



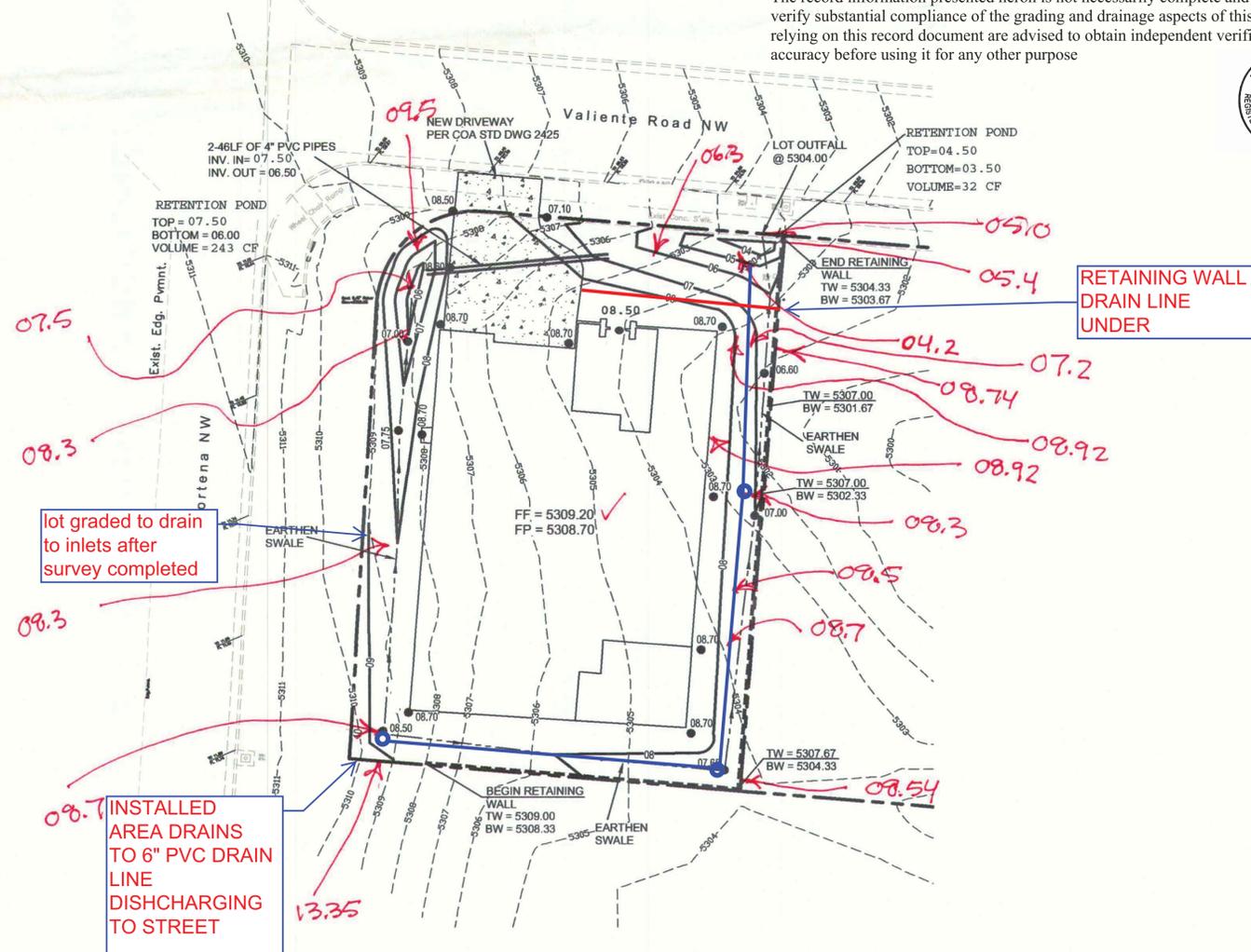
FIRM MAP:

LEGAL DESCRIPTION:
 LOT 2 BLOCK 2 VOLCANO CLIFFS UNIT 27
 CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

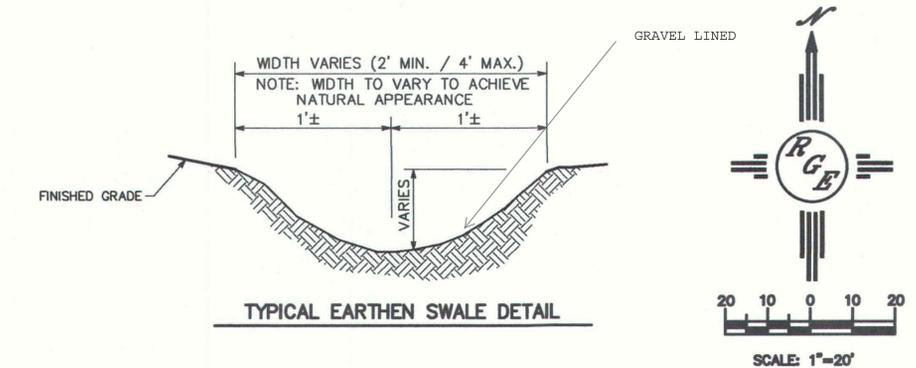
- NOTES:**
- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
 - ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
 - ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
 - SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
 - A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

| | |
|-------------|----------------------------|
| ---XXXX--- | EXISTING CONTOUR |
| ---XXXXX--- | EXISTING INDEX CONTOUR |
| ---XXXX--- | PROPOSED CONTOUR |
| ---XXXXX--- | PROPOSED INDEX CONTOUR |
| •XXXX | EXISTING SPOT ELEVATION |
| •XXXX | PROPOSED SPOT ELEVATION |
| --- | BOUNDARY |
| --- | PROPOSED EARTHEN SWALE |
| --- | ADJACENT BOUNDARY |
| ===== | EXISTING CURB AND GUTTER |
| ===== | PROPOSED CONCRETE DRIVEWAY |



As-builts verified on 3-23-21
 Anthony L. Harris



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.

| | | |
|---|--|--------------|
| ENGINEER'S SEAL DAVID SOULE NEW MEXICO 14522 | LOT 1 BLK 2 UN 27 VOLCANO CLIFFS 5508 VALIENTE ROAD NW | DRAWN BY DEM |
| 4/24/20 | GRADING AND DRAINAGE PLAN | DATE 4-20-20 |
| DAVID SOULE SUITE 201 P.E. #14522 | Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999 | SHEET # C1 |
| | | JOB # |