

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

February 21, 2024

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

**Re: Tract A SAD 227
Volcano Cliffs Subdivision Unit 5
8001 Shiprock Ct. NW
Grading and Drainage Plan
Engineers Stamp Date: 6/13/2022 (E10D118)
Pad Certification Date: 12/30/2022
CO Certification Dated: 2/18/2024**

Mr. Soule

PO Box 1293

Based on the Certification received on 2/20/2024, the site is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

Sincerely,

NM 87103

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

www.cabq.gov

RR/TC
C: File E10D118

Weighted E Method

| Basin | Area (sf) | Area (acres) | Treatment | | | | 100-Year, 6-hr. | | Flow cfs | 24 hour Volume (ac-ft) | | | | |
|---------------|-----------|--------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|----------------|----------|------------------------|-------|-------|------|-------|
| | | | Treatment A % (acres) | Treatment B % (acres) | Treatment C % (acres) | Treatment D % (acres) | Weighted E (ac-ft) | Volume (ac-ft) | | | | | | |
| ALLOWED FRONT | 3550.00 | 0.081 | 0% | 0 | 20% | 0.016 | 48% | 0.0375 | 34% | 0.028 | 1.259 | 0.009 | 0.26 | 0.010 |
| | 3550.00 | 0.081 | 0% | 0 | 20% | 0.016 | 33% | 0.0269 | 47% | 0.038 | 1.387 | 0.009 | 0.28 | 0.011 |

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- zone 1

Qa= 1.29
Eb= 0.67
Ec= 0.99
Ed= 1.97

ONSITE Conditions DRAINAGE SUMMARY

| | REQUIRED (CF) | PROVIDED (CF) |
|---------------|---------------|---------------|
| FLOOD CONTROL | 55 | 152 |

Narrative

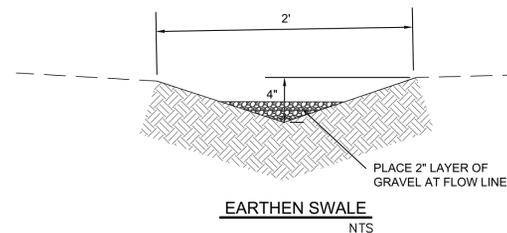
This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent open space property to the east per the master drainage plan. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding is required. Due to the site being within the height restriction area, ponds and drainage pipes are proposed to minimize elevation of the building drain to the street and the rear yard fills and overflows to the open space. Upland flow does not impact the property. This plan is in conformance to the master drain ASO-19 permit is required

Private Drainage Facilities within City Right-of-Way Notice to Contractor (Special Order 19 ~ "SO-19")

- Build sidewalk culvert per COA STD DWG 2236. Work is permitted and inspected by DMD Construction Services Division.
- An excavation permit will be required before beginning any work within City Right-Of-Way.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- Prior to any excavation, the contractor must contact **New Mexico One Call**, dial "811" [or (505) 260-1990] for the location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be 95%.
- Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets may be required on a 24-hour basis.
- For excavation and barricading inspections, contact DMD Construction Services Division.

REV. 01/22/21

CONSTRUCT ALL SWALES AND EROSION PROTECTION (SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.



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.

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 6/13/22

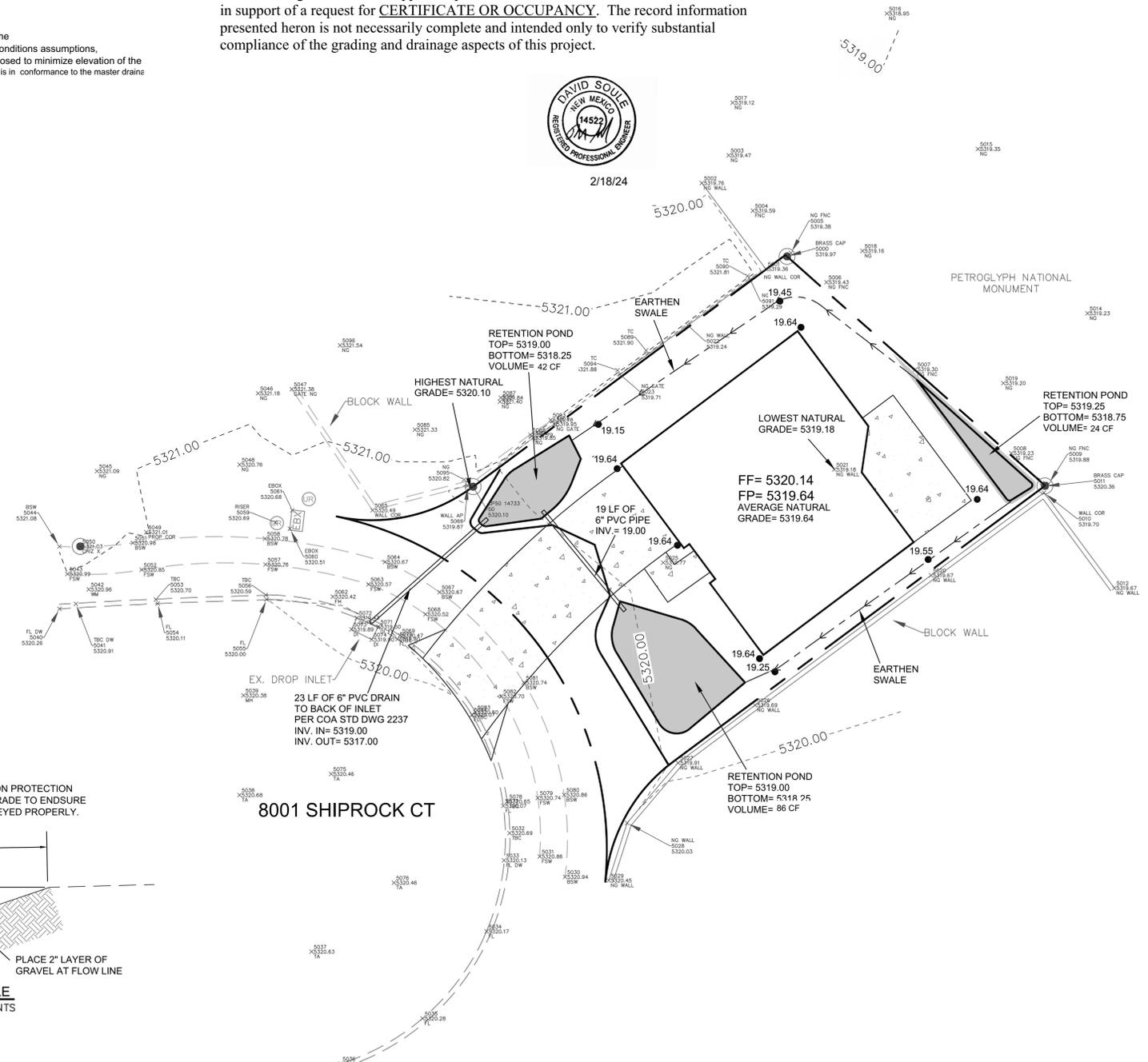


12/30/22

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 6/13/22. The certification is submitted in support of a request for **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.



2/18/24

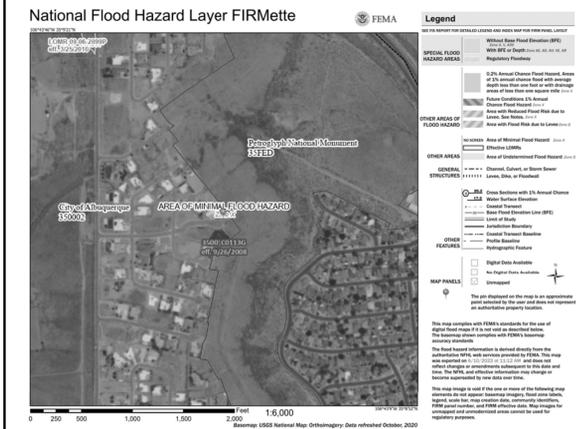


EROSION CONTROL NOTES:

- 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: E-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

TRACT A VOLCANO CLIFFS SUBDIVISION UNIT 5 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 |
| - - - - - | ADJACENT BOUNDARY |
| ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ | EXISTING CURB AND GUTTER |
| ← | PROPOSED EARTHEN SWALE |
| ▭ | PROPOSED PONDING |
| ▭ | PROPOSED CONCRETE |



| | | |
|--|---|---------------------------|
| ENGINEER'S SEAL | TRACT A VOLCANO CLIFFS SUB. U 5 8001 SHIPROCK CT | DRAWN BY DEM |
| DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 6/13/22 | | DATE 6-11-22 |
| | DAVID SOULE P.E. #14522 | GRADING AND DRAINAGE PLAN |
| | Rio Grande Engineering ALBUQUERQUE, NM 87199 (505) 321-8099 | SHEET # C1 |
| | | JOB # |



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 8001 shiprock DR NW **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: TRACT A VOLCANO CLIFFS UNIT 5

City Address: 8001 shiprock DR 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
- ___ 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) _____

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?

IS THIS A RESUBMITTAL?: ___ Yes No

DATE SUBMITTED: _____ **By:** _____

COA STAFF: _____

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____