

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

June 30, 2022

David Soule, PE  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, NM 87199

**RE: Lot 10 Block 2 Unit 19 SAD 228  
7801 Agila Rd. NW  
Volcano Cliffs Subdivision  
Grading and Drainage Plan  
Engineers Stamp Date 8/3/2021 (D10D003G10)  
CO Certification Date: 6/28/2022**

Mr. Soule,

PO Box 1293

Based on the Certification received on 6/29/2022, the site is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

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

NM 87103

Sincerely,

www.cabq.gov

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

RR/EA  
C: File D10D003G10



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

**Project Title:** 8005 marigold DR NW **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** LOT 2 , BLOCK 10 VOLCANO CLIFFS UNIT 5  
**City Address:** 8005 marigold 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

**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)	Treatment				Weighted E	100-Year, 6-hr.		24 hour				
			Treatment A	Treatment B	Treatment C	Treatment D		Volume (ac-ft)	Flow cfs					
ALLOWED	11264.00	0.259	0%	0	20%	0.052	46%	0.1189	34%	0.088	1.259	0.027	0.83	0.031
PROPOSED	11264.00	0.259	0%	0	23%	0.059	36%	0.0931	39%	0.101	1.279	0.028	0.83	0.031
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= 0.44  
Eb= 0.67  
Ec= 0.99  
Ed= 1.97

Qa= 1.29  
Qb= 2.03  
Qc= 2.87  
Qd= 4.37

ONSITE Conditions DRAINAGE SUMMARY

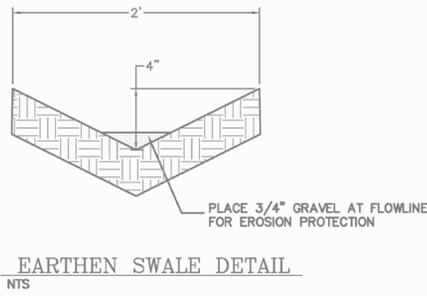
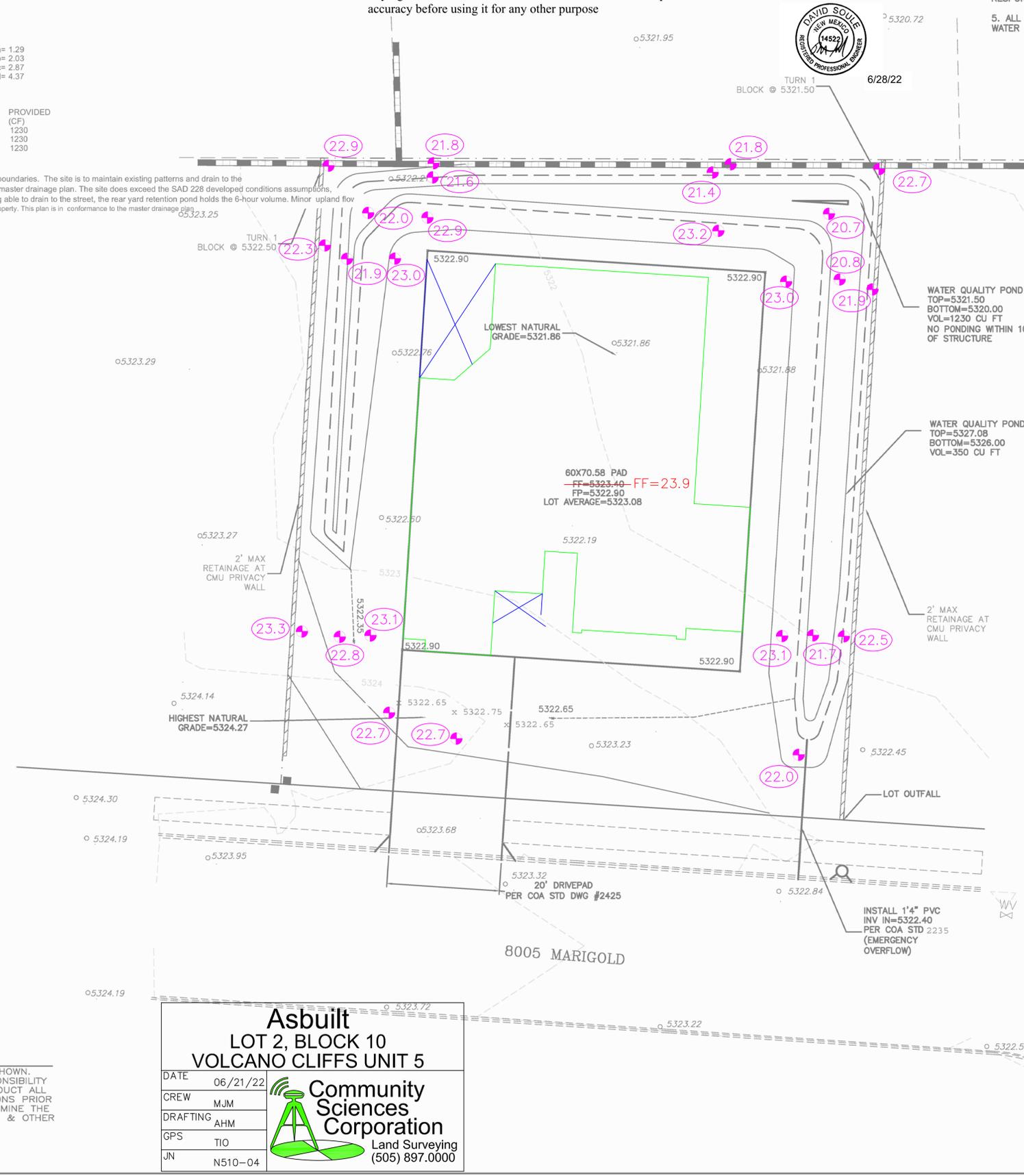
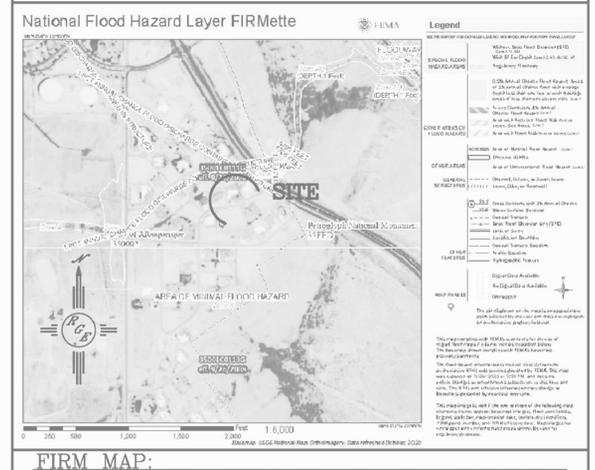
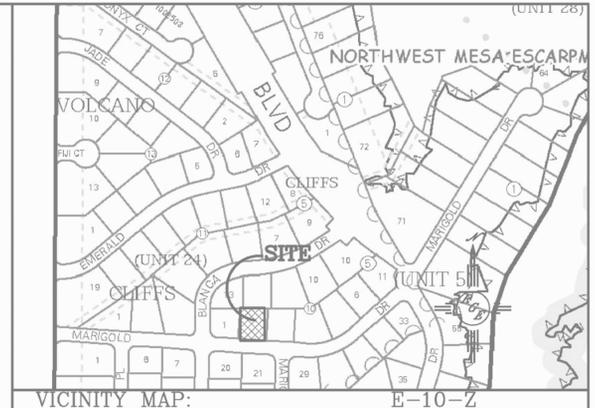
	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	0	1230
FLOOD CONTROL	40	1230
TOTAL GENERATION Narrative	1200	1230

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent property to the south and to the east per the master drainage plan. The site does exceed the SAD 228 developed conditions assumptions, therefore ponding is required. Due to the site not being able to drain to the street, the rear yard retention pond holds the 6-hour volume. Minor upland flow enters the site from the west and is allowed to pass thru the property. This plan is in conformance to the master drainage plan.

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 7/30/21. 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 THOMAS PATRICK NMPS 12651. 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

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.



**LEGAL DESCRIPTION:**  
Lot 2, Block 10, Volcano Cliffs Subdivision Unit 5

**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.
- NO PONDING WITHIN 10' OF STRUCTURE.
- PAD WAS LOWERED 6.5" AT THE REQUEST OF DR HORTON

**LEGEND**

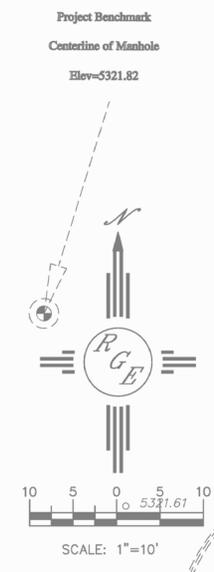
-----XXXXX-----	EXISTING CONTOUR
-----XXXXX-----	EXISTING INDEX CONTOUR
-----XXXXX-----	PROPOSED CONTOUR
-----XXXXX-----	PROPOSED INDEX CONTOUR
-----XXXXX-----	SLOPE TIE
• XXXXX	EXISTING SPOT ELEVATION
• XXXXX	PROPOSED SPOT ELEVATION
-----	LOT LINE
-----	CENTERLINE
-----	RIGHT-OF-WAY
-----	PROPOSED 4" PVC SD
-----	GRAVEL LINED SWALE
=====	EXISTING CURB AND GUTTER
-----	PROPOSED CMU SCREEN WALL--DESIGN BY OTHERS

**Asbuilt**  
LOT 2, BLOCK 10  
VOLCANO CLIFFS UNIT 5

DATE 06/21/22  
CREW MJM  
DRAFTING AHM  
GPS TIO  
JN N510-04

**Community Sciences Corporation**  
Land Surveying  
(505) 897.0000

**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, PROFESSIONAL ENGINEER, 7/30/21

8005 MARIGOLD  
GRADING AND DRAINAGE PLAN

**Rio Grande Engineering**  
1608 CENTRAL AVENUE SE  
SUITE 201  
ALBUQUERQUE, NM 87108  
(505) 872-0999

DRAWN BY WCUJ  
DATE 3-24-21  
210210032-LAYOUT-3-24-21  
SHEET #  
JOB # 21021032