CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



March 26, 2024

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

RE: Lot 2 Block 1 Unit 5 SAD 227 6605 Rim Rock Cir. NW Volcano Cliffs Subdivision Grading and Drainage Plan Engineers Stamp Date 3/22/2024 (D10D026)

Mr. Soule,

Based upon the information provided in your submittal received 3/25/2024, this plan is approved for Grading Permit.

PO Box 1293

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

Albuquerque

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

NM 87103

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 after this approval a new grading and drainage plan will need to be resubmitted showing the changes for the land treatments.

www.cabq.gov

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

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

Sincerely,

Tiequan Chen, P.E.

Principal Engineer, Hydrology

Planning Department, Development Review Services

RR/TC

C: File D10D026



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title:		Hydrology File #						
Legal Description:								
City Address, UPC, OR Parcel	:							
Applicant/Agent:		Contact:						
		Phone:						
Email:								
Applicant/Owner:		Contact:						
Address:		Phone:						
Email:								
(Please note that a DFT SITE is or	ne that needs Site Plan A	pproval & ADMIN SITE is one that does not need it.)						
TYPE OF DEVELOPMENT:	PLAT (#of lots)	RESIDENCE						
	DFT SITE	ADMIN SITE						
RE-SUBMITTAL: YES	NO							
DEPARTMENT: TRANS	SPORTATION	HYDROLOGY/DRAINAGE						
Cheek all that apply under Dath	the Type of Submittel	and the Type of Approval Sought:						
TYPE OF SUBMITTAL:	the Type of Submittal	TYPE OF APPROVAL SOUGHT:						
ENGINEER/ARCHITECT CF	RTIFICATION	BUILDING PERMIT APPROVAL						
PAD CERTIFICATION		CERTIFICATE OF OCCUPANCY						
CONCEPTUAL G&D PLAN		CONCEPTUAL TCL DFT APPROVAL						
GRADING & DRAINAGE PI	LAN	PRELIMINARY PLAT APPROVAL						
DRAINAGE REPORT		FINAL PLAT APPROVAL						
DRAINAGE MASTER PLAN		SITE PLAN FOR BLDG PERMIT DFT						
CLOMR/LOMR		APPROVAL						
TRAFFIC CIRCULATION LA	AYOUT (TCL)	SIA/RELEASE OF FINANCIAL GUARANTEE						
ADMINISTRATIVE		FOUNDATION PERMIT APPROVAL						
TRAFFIC CIRCULATION LA APPROVAL	AYOUT FOR DFT	GRADING PERMIT APPROVAL						
TRAFFIC IMPACT STUDY (TIS)	SO-19 APPROVAL						
STREET LIGHT LAYOUT		PAVING PERMIT APPROVAL						
OTHER (SPECIFY)		GRADING PAD CERTIFICATION						
· - /		WORK ORDER APPROVAL						
		CLOMR/LOMR						
		OTHER (SPECIFY)						
DATE SUBMITTED:								

Weighted E Method

								100-Year, 6-hr.			24 hour			
Basin	Area	Area	Treat	ment A	Treat	ment B	Treati	ment C	Treatr	nent D	Weighted E	Volume	Flow	Volume
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
ALLOWED	16354.00	0.375	0%	0	24%	0.090	40%	0.1502	36%	0.135	1.362	0.043	1.18	0.052
PROPOSED	16354.00	0.375	0%	0	21%	0.079	27%	0.1014	52%	0.195	1.575	0.049	1.27	0.062
COMPARISON												0.007		0.011

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= 1.54 Qb= 2.16 Eb= 0.73 Qc= 2.87 Ec= 0.95 Ed= 2.24 Qd= 4.12

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME REQUIRED

PROVIDED (CF) 883 883 WATER QUALITY FLOOD CONTROL

Narrative

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the south per the master drainage plan. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding OF 883 CF is required. Due to hight restrictions we have incorporated ponding to minimize the pad height as much as possible. We are ponding the water harvest volume generated by the site. All building generated water drains to street. This plan is in conformance to the master drainage plan

5325.72

5325.1

5325.42

5324.52 × 5325.17 ×

5324.27

5325.55

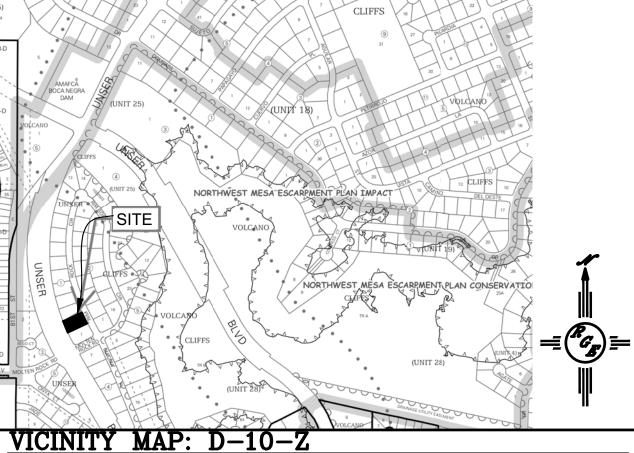
5324.73

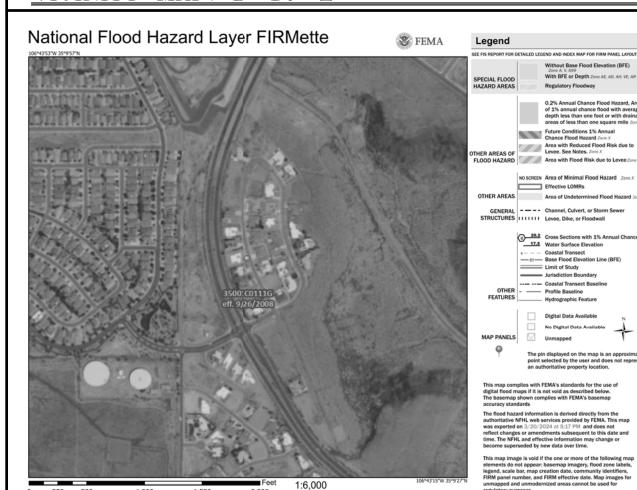
5324.93

5325.11^X

EROSION CONTROL NOTES:

- 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 INTO EXISTING RIGHT-OF-WAY.
- 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.





FIRM MAP: **LEGAL DESCRIPTION:**

LOT 2, BLOCK 1 UNSER CLIFFS SUBDIVISION CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

- 2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- 3. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- DATUM 1988.

4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD

5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING

LEGEND

EXISTING CONTOUR
EXISTING INDEX CONTOUR
PROPOSED CONTOUR
PROPOSED INDEX CONTOUR
EXISTING SPOT ELEVATION
PROPOSED SPOT ELEVATION
BOUNDARY
ADJACENT BOUNDARY
EXISTING CURB AND GUTTER
PROPOSED EARTHEN SWALE
PROPOSED CONCRETE

CONSTRUCT ALL SWALES AND EROSION PROTECTION (SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY. -----PLACE 2" LAYER OF GRAVEL AT FLOW LINE **EARTHEN SWALE**

5324.43

LOWEST NATURAL GRADE= 5224.23

168 CF

5324.51

5324.31 5324.76

\$324.01

√ 5324.50 5323.92

> \ 5323.84 × 5323.74

LOT OUTFALL= 5324.25

⟨ \ 5323.88

FND REBAR W/CAP " PS 14733"

ELEVATION=5324.23

5324.38

RETENTION POND \

VOLUME= 168 CF

TOP= 24.50 BOTTOM= 23.75

FF=5326.15

FP=5325.65 **AVG NATURAL**

GRADE=5235.09

5324.48

HIGHEST NATURAL

5325.56 👏

5324.47

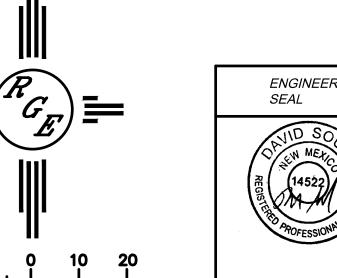
5324.84

5324.05

RETENTION POND

TOP= 25.00 BOTTOM= 24.50 VOLUME= 715 CF

GRADE= 5225.95



SCALE: 1"=20'

LOT 2 BLK 1 UNSER CLIFFS SUB. **ENGINEER'S** 14522) 3/22/24

DAVID SOULE P.E. #14522

6605 RIM ROCK CIRCLE NW GRADING AND DRAINAGE PLAN Rio Grande Lingineering

6605 Rim Rock Circle NW .DWG SHEET# C1 PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-9099 JOB#

DRAWN

 BY DEM

DATE 3-21-24

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.