

Mayor Timothy M. Keller

March 28, 2022

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

RE: Lot 24-A Block 2 Unit 19 SAD 228

7716 Compass Dr. NW Volcano Cliffs Subdivision Grading and Drainage Plan

Engineers Stamp Date 2/15/2021 (D10D003G24-A)

Pad Cert. Date: 2/17/2022

PO Box 1293 CO Certification Date: 3/21/2022

Mr. Soule,

Albuquerque Based on the Certification received on 3/25/2022, the site is acceptable for release of

Certificate of Occupancy by Hydrology.

NM 87103

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

www.cabq.gov

Ernest Armijo, P.E.

Sincerely,

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: COMPASS-WILSON	Building Permit #	F	Hydrology File #:
DRR#·	TDC#.	7	Vanle Ondantti
Legal Description: LOT 24A, Block	2 VOLCANO	CLIFFS UNIT 1	9
City Address: 7716 COMPASS NW			-
Applicant:			ntact:
Address:			
Phone#:	Fax#:	E-1	mail:
Other Contact: RIO GRANDE ENGINE Address: PO BOX 93924 ALB NM	ERING 87100	Co	ntact:DAVID SOULE
Phone#: 505.321.9099	505.872.0	999 E -	david@riograndeengineering.com
TYPE OF DEVELOPMENT: PLAT	A RESIDENC	CE DRB SIT	E ADMIN SITE
Check all that Apply:			
DEPARTMENT:  X HYDROLOGY/ DRAINAGE  TRAFFIC/ TRANSPORTATION	T	YPE OF APPROVAL/A BUILDING PERMIT CERTIFICATE OF (	
TYPE OF SUBMITTAL:  X ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?  IS THIS A RESUBMITTAL?: X Yes No	PPLIC	FINAL PLAT APPR  SIA/ RELEASE OF FOUNDATION PER GRADING PERMIT SO-19 APPROVAL PAVING PERMIT A GRADING/ PAD CI WORK ORDER APPI CLOMR/LOMR FLOODPLAIN DEV OTHER (SPECIFY)	JB'D APPROVAL  JDG. PERMIT APPROVAL  OVAL  FINANCIAL GUARANTEE  MIT APPROVAL  APPROVAL  ERTIFICATION  ROVAL  ELOPMENT PERMIT
DATE SUBMITTED:	By:		
COA STAFF:	ELECTRONIC SUBMI	ITAL RECEIVED:	

### Weighted E Method

									100-Year	r, 6-hr.	24 hour			
Basin	Area	Area	Treati	ment A	Treat	ment B	Treati	ment C	Treatr	ment D	Weighted E	Volume	Flow	Volume
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
ALLOWED	14470.00	0.332	0%	0	24%	0.080	40%	0.1329	36%	0.120	1.362	0.038	1.05	0.046
PROPOSED	14470.00	0.332	0%	0	24%	0.080	42%	0.1395	34%	0.113	1.336	0.037	1.04	0.045
COMPARISON										•		-0.001		-0.001

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= 0.55 Eb= 0.73 Qb= 2.16 Ec= 0.95 Qc= 2.87 Ed= 2.24 Qd= 4.12

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME REQUIRED PROVIDED (CF) 265 265

Narrative

WATER QUALITY

FLOOD CONTROL

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway per the master drainage plan. The site does not exceed the SAD 228 developed conditions assumptions, therefore ponding is not. Due to height restricitions onsite ponding has been utilized to minimize the pad elevation, as well as discharging to flow line via through curb utilizing an so1 process. Upland flows from the north area allowed to enter and pass through the site. The plan as proposed is in conformance to the master drainage plan

I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 2/15/22

LOT 12

FF = 5316.80

FP = 5316.30

GRADE = 5314.30

RETENTION POND TOP = 13.75

/5315.45 5315.50 5315.57 ( 5315.53 5315.45 5315.65 EX CURB

COMPASS DRIVE NW

BOTTOM = 13.25 INV. IN = 5315.35/

VOLUME = 68 CF INV. OUT = 5315.25

18 LF OF 4" PVC DŖÁIN

AVERAGE NATURAL

END RETAINING WAL

BEGIN RETAIING WALL

0-2.5' RETAINING WALL

HIGHEST NATURAL / GRADE = 5316.15

**RETENTION POND** TOP = 13.75

BOTTOM = 13.25 VOLUME = 52 CF

27 LF OF 4" PVC DRAIN

INV. IN = 5315.40

INV. OUT = 5315.25



LOT 13

TURN BLOCK 

62 LF OF 4' RETAINING WALL

FND SCRIBE "X" IN SIDEWALK

ELEVATION=5315.77

RETENTION POND TOP = 13.75

BOTTOM = 13.25VOLUME = 145 CE

@ 5315.77

18 LF OF 4" PVC DRAIN THROUGH CURB

PER COA STD DWG 2235

INV. IN = 5315.15 INV. OUT = 5315.00 SO19 PERMIT REQUIRED

5312.48

LOWEST NATURAL

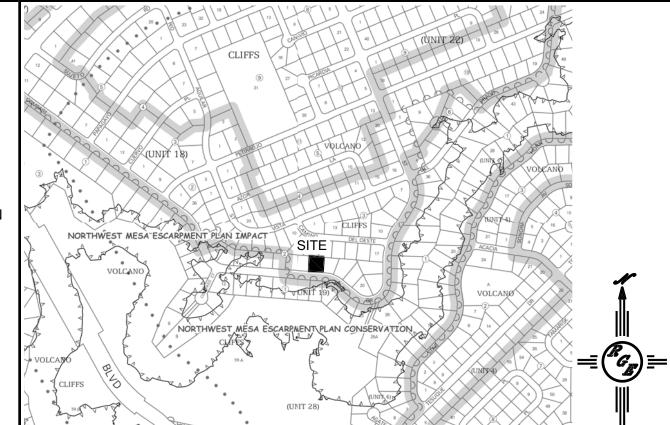
**GRADE** = 5312.44

### **EROSION CONTROL NOTES:**

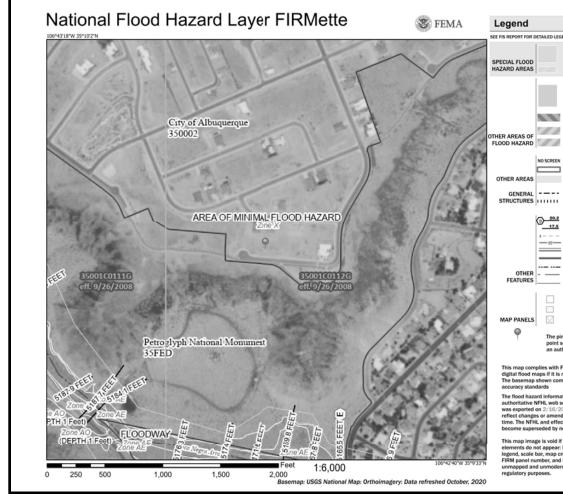
- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING
- 3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- 4. REPAIR OF DAMAGED FACILITIES AND 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.

I <u>David Soule</u>, NMPE 14522, of the firm <u>Rio Grande Engineering</u>, 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 2/15/22. 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 asbuilt 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





### VICINITY MAP: D-10-Z



FIRM MAP:

### **LEGAL DESCRIPTION:**

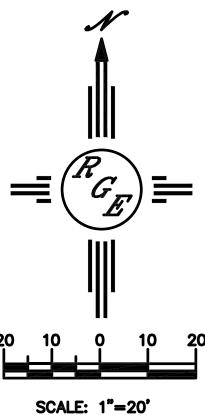
LOT 24-A BLOCK 2 UNIT 19 VOLCANO CLIFFS SUBDIVISION CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

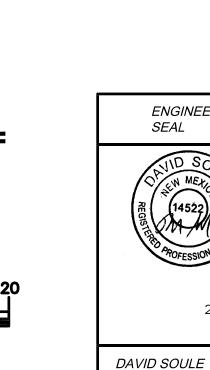
### NOTES:

- 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.
- 4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD
- 5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING

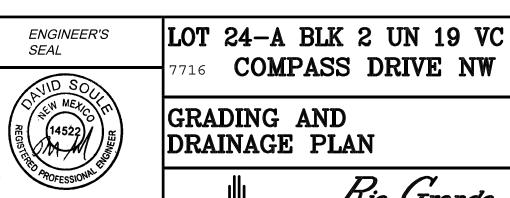
### **LEGEND**

	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
XXXX	PROPOSED CONTOUR
—XXXX	PROPOSED INDEX CONTOUR
× XXXX	EXISTING SPOT ELEVATION
• XXXX	PROPOSED SPOT ELEVATION
	BOUNDARY
	ADJACENT BOUNDARY
==========	EXISTING CURB AND GUTTER
	PROPOSED RETAINING WALL
	PROPOSED CONCRETE





P.E. #14522



Rio Grande

Lingineering PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-9099

DRAWN

 $^{BY}$   $_{DEM}$ 

DATE 2-18-21

OT 24-A BLK 2 UN 19 VC.DWG

SHEET#

JOB#

### 2/15/22 2/21/21

### **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.

### REVISED EXTENT OF RETAINING WALL DUE TO CITY COMMENT

→ BEGIN RETAINING WALL

## Weighted E Method

			17/2	-	
COMPARISON	PROPOSED	ALLOWED		Basin	
	14470.00	14470.00	E	Area	
	0.332	0.332	(acres)	Area	
	0%	0%	% (acres	Treatment A	
	0 24% 0.08	0 24% 0.08	2-6	-	
	0 42%	0 40%	%	B Treatment C	
	0.1395	0.1329	acres)	ant C	
	34%	36%		Treatme	
	0.113	0.120	(acres)	ent D M	
	1,336	1.362	(ac-ft)	nt D Weighted E	
-0.001	0,037	0.038	(ac-ft)	Valume	100-Year, 6-hr.
	1.04	1.05	cts	Flow	6-hr.
-0.001	0.045	0.046	(ac-ft)	Volume	24 hour

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac Volume = Weighted D \* Total Area + Ed\*Ad / (Total

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \*

storm- zone 1 Ea= 0.55 Eb= 0.73 Ec= 0.95 Ed= 2.24 Qa= 1,54 Qb= 2,16 Qc= 2.87 Qd= 4,12

ONSITE Conditons
FIRST FLUSH WATER QUALITY VOLUME
REQUIRED
(CF)

WATER QUALITY FLOOD CONTROL

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway per the master drainage plan. The site does not exceed the SAD 228 developed conditions assumptions, therefore ponding is not. Due to height restrictions onsite ponding has been utilized to minimize the pad elevation, as well as dischart through curb utilizing an soft process. Upland flows from the north area allowed to enter and pass through the site. The plan as proposed for the master drainage plan

LOT 12

LOT 13

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

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 Build sidewalk culvert per COA STD DWG 2236.
 Contact Storm Drain Maintenance at (505) 857-8033 to schedule a meeting prior to forming.
 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.
 Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the locations 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 according to traffic/street use.
 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.
 Contractor must contact Storm Drain Maintenance at (505) 857-8033 to schedule a construction inspection. For excavating and barricading inspections, contact Construction Coordination at (505) 924-3416. Ó

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9. 10.

REV. 01/27/21

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.

DRAFTING SLN

Community
Sciences
Corporation
Land Surveying
(505) 897.0000

E

02/07/22 RGR

Asbuilt
LOT 24-A, BLOCK 2
VOLCANO CLIFFS UNIT 19

GRADE = 5316.15 0-2.5' RETAINING WALL 8K SW.DW 5315.39 10N POND 3.75 GRD5315.5 A = 13.25 5315 E = 52 CF 5315.5 GRD GRD \$ 50 \$ 20 \$ 40 \$ 25 \$ 5 \$ 5 \$ 5 5318.35314 5315.8 5314 531 531 55 LOT 280-55 27 LF OF 4" PVC DR/ INV. IN = 5315.40 INV. OUT = 5315.25 COMPASS DRIVE NW 5315.275 RETENTION POND TOP = 13.75 BOTTOM = 13.25 VOLUME = 68 CF 15.00 5312.60 5312.69 18 LF OF 4" PVC DRAIN THROUGH CURB
PER COA STD DWG 2235
INV, IN = 5315.15
INV, OUT = 5315.00
SO19 PERMIT REQUIRED

\$315.45
\$315.75
EX CURB #6 AT WALL TURN BLOCK ± LOT 23-

0-4" RETAINING WALL

RETENTION POND TOP = 13.75 BOTTOM = 13.25 VOLUME = 145CF

TBM FND SCRIBE "X" IN SIDEWALK ELEVATION=5315.77

@ 5315.77



EROSION CONTROL NOTES:

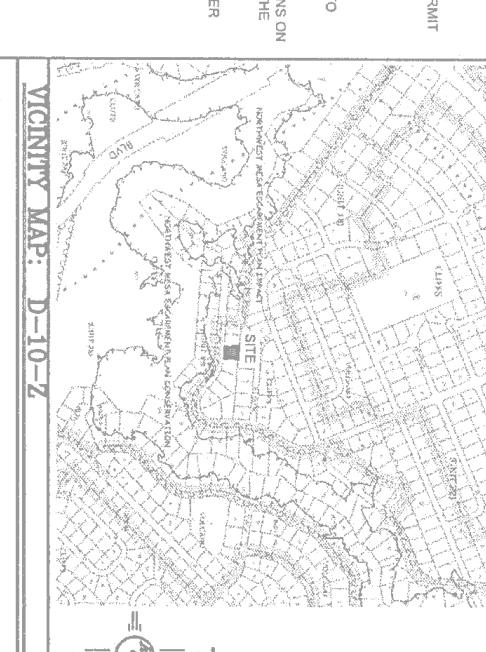
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REPAIR OF DAMAGED FACILITIES AND ODJACENT PROPERTIES AND IN PUBLIC FONTRACTOR. CLEANUP OF SEDIMENT ACCUMULATIONS ON FACILITIES IS THE RESPONSIBILITY OF THE

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



|--|

# DESCRIPTION:

LEGAL COT 24-A BLOO COTY OF ALBU Z UNIT 19 VOLCANO CLIFFS SUBDIVISION JERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

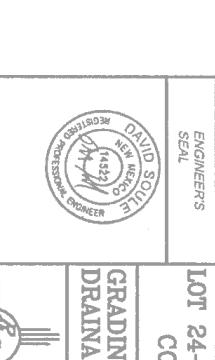
ALL SLOPES SHALL BE 3:1 MAX, AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

4. SURVEY INFORMATION PROD 3. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

OF BUILDING

LEGEND 5. A PAD ELEVATION CERTIFICATION SHALL BE PERMIT.

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D.		and the same that the transfer when the transfer the transfer transfer the transfer	washington the state of the sta		• XXXX	A KKK	XXXX.	XXXX		where the contract contract $\sum_{i=1}^{N} \frac{1}{i!} \sum_{j=1}^{N} \frac{1}{i!} $	
	PROPOSED RETAINING WALL	EXISTING CURB AND GUTTER	ADJACENT BOUNDARY	BOUNDARY	PROPOSED SPOT ELEVATION	EXISTING SPOT ELEVATION	PROPOSED INDEX CONTOUR	PROPOSED CONTOUR	EXISTING INDEX CONTOUR	EXISTING CONTOUR	



/ID 50/ II E	2/21/21		POFESSON	None EN	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NOS OIL	ENGINEER'S SEAL
ALBUQUEROUE, NM 87199	Surrecting Tingineering	Two Crawco	P. Condo	IN	CPADING AND	MAT TATABLE CONTINUES IN M	LOT 24-A BLK 2 UN 19 VC
10r			SHE	LOT 24-A BLK	1-3	DA.	DRAN BY D

DAVID SOULE P.E. #14522	2/21/21	ACCUESSION !	POMEEN	O New TEST	र्थाठ डा
ALBUQUEROUE, NM 87199 (505) 121-9099	RG Engineering	Pin Grando	DRAINAGE PLAN	CPADING AND	COMPADE DRIVE NW
# 80L	C	SHEET	LOT 24-A BLK 2 UN	7-01-3	DATE