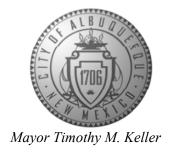
CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



April 29, 2021

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

Re: Lot 3 Block 9 Unser Cliffs Unit 5 SAD 227

8009 Shiprock Ct. NW

Engineer's Stamp dated: 8-10-2020 (E10D082)

Pad Certification dated: 10-23-2020

CO dated: 4-29-2021

Dear Mr. Soule,

PO Box 1293

Based on the Certification received 8/6/2020, 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.

Sincerely,

NM 87103

Ernest Armijo, P.E.

www.cabq.gov Principal Engineer, Planning Dept.

Development Review Services

Weighted E Method

-0.001		-0.001			A CHARLES OF THE PARTY OF THE P		C		The state of the s	COMPARISON
0.049	1.32	0.043	1.246	34% 0.141	0 24% 0.100 42% 0.1746 34% 0.14	24% 0.100		0.416	18104.00 0.416 0%	PROPOSED
0.050	1.33	0.044	1.266	36% 0.150	0 24% 0.100 40% 0.1662 36% 0.150	24% 0.100	-	0.416	18104.00 0.416 0%	ALLOWED
(ac-ft)	cfs	(ac-ft)	(ac-ft)	% (acres)	% (acres) % (acres) % (acres) % (acres)	% (acres)	% (acres)	(acres)	(sf)	
Volume	Flow	Volume	Weighted E	Treatment D	Treatment A Treatment B Treatment C Treatment D	Treatment B	Treatment A	Area	Area	Basin
24 hour		100-Year, 6-hr.								

Equations:

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

Volume = Weighted D * Total Area

Where for 100-year, = Qa * Aa + Qb * Ab + Qc * Ac + Qd * torm- zone Ea= 0.44 Eb= 0.67 Ec= 0.99 Ed= 1.97

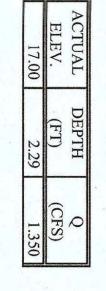
Qa= 1.29 Qb= 2.03 Qc= 2.87 Qd= 4.37

ONSITE Conditons FIRST FLUSH WATER QUALITY VOLUME REQUIRED (CF) PROVIDED (CF)

WATER QUALITY FLOOD CONTROL

is site is within the SAD 227Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the allows to the east per the master drainage plan. The site does not exceed the SAD 227 developed conditions assumptions, ere ponding is not required. Due to height restrictions we have incorporated ponding to minimize the pad height as much as possible, and added drain to inlet to allow for pad to remain low. We are ponding the water harvest volume generated by the site there is no measurable upland flow. This plan is in the master drainage plan.

ORIFICE CALCULATIONS



outlet

 $\frac{\text{wier equation}}{Q = CA SQRT(2gH)}$

Diameter (in) Area (ft^2)= g = H (Ft) = Q (CFS)=

0.19634954 32.2 Depth of wate Flow

of orifice

0.6

RELEASE OF BUILDING PERMIT



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 8/10/20
BASED UPON APPROVAL FROM DESIGN ENGINEER THE PAD HAS BEEN CONSTRUCTED
12" LOWER. THE DRAINAGE CONCEPT HAS NOT CHANGED. I CERTIFY THE PAD IS
AT A GRADE THAT CONFORMS TO THE APPROVED PLAN AND ACCEPTABLE FOR





10/23/20

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION. 1. CONTRACTOR IS RESPONSIBLE FOR PRIOR TO BEGINNING WORK. OBTAINING A TOPSOIL DISTURBANCE PERMIT

EROSION CONTROL

NOTES:

3. CONTRACTOR IS RESPONSIBLE FOR EXISTING RIGHT-OF-WAY. R CLEANING ALL SEDIMENT THAT GETS INTO

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 ^{8/10/20}. 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 asbuilt survey was provided by THOMAS PATRICK NMPS 12651. The certification is submitted in support of a request for <u>PERMANENT CERTIFICATE OF OCCUPANCY</u>. The record information presented heron is not necessarily complete and intended only to accuracy before using it for any other purpose 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

VICINITY

MAP

0

National Flood Hazard Layer FIRMette

FEMA

SOUTH TOOK



INSTALL 6" DRAIN INTO BACK OF INLET PER COA STD 2237 INV. IN = 17.00 INV. OUT = 16.00 PER SO-19

MAP:

LEGAL DESCRIPTION:

LOT 10-A BLOCK 7 UNIT 5 VOLCANO CLIFFS
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

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

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 DATUM 1988.

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

LEGEND

ULLSIXE XXXX	PROPOSE	PROPOSE	EXISTING	mmm mmm xxxxxxmmm mmm EXISTING CONTOUR
EXISTING SPOT ELEVATION	PROPOSED INDEX CONTOUR	- PROPOSED CONTOUR	EXISTING INDEX CONTOUR	ISTING CONTOUR

EXISTING CURB AND GUTTER PROPOSED GRAVEL DRIVEWAY ADJACENT BOUNDARY PROPOSED EARTHEN SWALE

BOUNDARY

PROPOSED CONCRETE DRIVEWAY

3. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.

4. 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.

5. Backfill compaction shall be according to traffic/street use.

6. Maintenance of the facility shall be the responsibility of the owner of the property being served.

7. Work on arterial streets may be required on a 24-hour basis.

8. Contractor must contact Augie Armijo at (505) 857-8607 and Construction Coordination at 924-3416 to schedule an inspection.

22:30

19.8

LF OF 2'
TAINING WALL
'= 20.50
'= 18.50

8009 SHIPROCK COURT, N.W. (46' R/W)

CURB

5320

TBM
FND CENTERLINE
MONUMENT
ELEVATION=5322.

±5322.12 **H**≡**L**D

An excavation permit will be required before beginning any work within City Right-Of-Way.

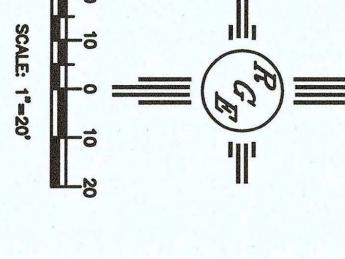
All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.

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

在21.2

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20.46 FF = 5349.76 FP = 5319.25



ENGINEER'S SEAL

LOT 10-A BLK 8009 SHIPROCK

COURT,

~

U 5

N.W.

DRAWN BY DEM

AND

LOT 10A BLK 7 UN5 VC.DWG

SHEET#

0

REV. 05/01/2019

DAVID SOULE P.E. #14522 8/10/20

GRADING A PLAN

Lingineering 1606 CENTRAL AVENUE SE SUITE 201 1LBUQUERQUE, NM 87106 (505) 872-0999 Grande

David Soule

From: Armijo, Augustine [augustinearmijo@cabq.gov]

Sent: Thursday, April 29, 2021 10:28 AM

To: Armijo, Ernest M.; Brissette, Renee C.; david@riograndeengineering.com

Cc: Harmon Rita T.

Subject: 8009 Kibo / dmd-so19 inspection

To Whom It May Concern,

The SO-19 inlet penetration at 8009 Kibo passed inspection. Hydrology # E10-D082.

Thank You



Augustine Armijo construction inspector augustinearmijo@cabq.gov

o 505.857.8607 c 505.235-8016 cabq.gov/dmd