# CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



March 14, 2022

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

RE: 5120 Northern Trail NW

Permanent C.O. - Approved

**Engineer's Certification Date: 3/9/22** 

Engineer's Stamp Date: 1/8/21 Hydrology File: F11D017A

Dear Mr. Soule:

Based on the certification received 3/9/22 and a site visit on 3/18/22, this certification is

approved for Permanent Certificate of Occupancy by Hydrology.

Albuquerque If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

Sincerely,

NM 87103

Ernest Armijo, P.E.

www.cabq.gov 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: 5120 NORTHERNTRAIL	Hydro	logy File #:				
DRB#: Logal Description: LOT 108 QUAKE	EPC#:	Work				
Legal Description: LOT 108 QUAKE	R HEIGHTS					
Legal Description:  5120 NORTHERNTRAI  City Address:	LS			-		
Applicant: GUS	STAVO MALDON	IADO	Contact:	·		
Address:						
Phone#:	Fax#:		E-mail:			
Other Contact: RIO GRANDE ENGIN	NEERING		Contact:	DAVID SOULE		
Address: PO BOX 93924 ALB NN						
Phone#: 505.321.9099		2.0999	E-mail:	david@riograndeengineering.com		
TYPE OF DEVELOPMENT: PLAT						
Check all that Apply:						
DEPARTMENT:  X HYDROLOGY/ DRAINAGE  TRAFFIC/ TRANSPORTATION  TYPE OF SUBMITTAL:  XX ENGINEER/ARCHITECT CERTIFICATION  PAD CERTIFICATION  CONCEPTUAL G & D PLAN  GRADING PLAN  DRAINAGE REPORT  DRAINAGE MASTER PLAN  FLOODPLAIN DEVELOPMENT PERMITI  ELEVATION CERTIFICATE  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT (TC  TRAFFIC IMPACT STUDY (TIS)  STREET LIGHT LAYOUT  OTHER (SPECIFY)  PRE-DESIGN MEETING?  IS THIS A RESUBMITTAL?: XX Yes	APPLIC L) No	BUILI  X CERTI  PRELI SITE I SITE I FINAL  SIA/ R FOUN GRAD GRAD GRAD CORR CLOM FLOOR OTHE	DING PERMIT APPERICATE OF OCCU MINARY PLAT APPEAN FOR SUB'D PLAN FOR BLDG. PLAT APPROVA ELEASE OF FINAL DATION PERMIT APPEAPROVAL IG PERMIT APPROVAL ING/PAD CERTIF I ORDER APPROVAL IR/LOMR DPLAIN DEVELOP IR (SPECIFY)	PANCY PPROVAL APPROVAL PERMIT APPROVAL L NCIAL GUARANTEE APPROVAL ROVAL DVAL DICATION L MENT PERMIT		
DATE SUBMITTED:	•					
COA STAFF:			IVED:			

FEE PAID:\_\_\_\_\_

#### Weighted E Method

										100-Year, 6-hr.						
1	Basin	Area	Area	Treatr	nent A	Treat	ment B	Treat	ment C	Treati	ment D	Weighted E	Volume	Flow	300	Volume
		(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs		(ac-ft)
	ALLOWED	33913.00	0.779	100%	0.779	0%	0.000	0%	0	0%	0.000	0.530	0.034	1	1.21	0.034
	PROPOSED	33913.00	0.779	10%	0.078	30%	0.234	31%	0.2413	29%	0.226	1.252	0.081	2	2.47	0.111
	COMPARISON						27						0.047			5.

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

Ec= 1.13 Qc= 3.14 Ed= 2.12

**ONSITE Conditions** FIRST FLUSH WATER QUALITY VOLUME

	100-YEAR 10DAY	101AL 100-YEAR, 6-HOUR	PROVID
WATER QUALITY	0	0	4283
FLOOD CONTROL	3352	3539	4283

This site is within a fully developed area of albuquerque. The area does not have curb and gutter. The site lies within flood zone X . The site currently drains 1.21 cfs to the adjacent right of way. The proposed drainage solution retains the increase in developed storm water generated during the 100 year 10-day event. The site retains all the flow generated during the 6 hour event. The ponds are shallow and will overflow to the street in an emergency

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 1/8/21



## **EROSION CONTROL NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT

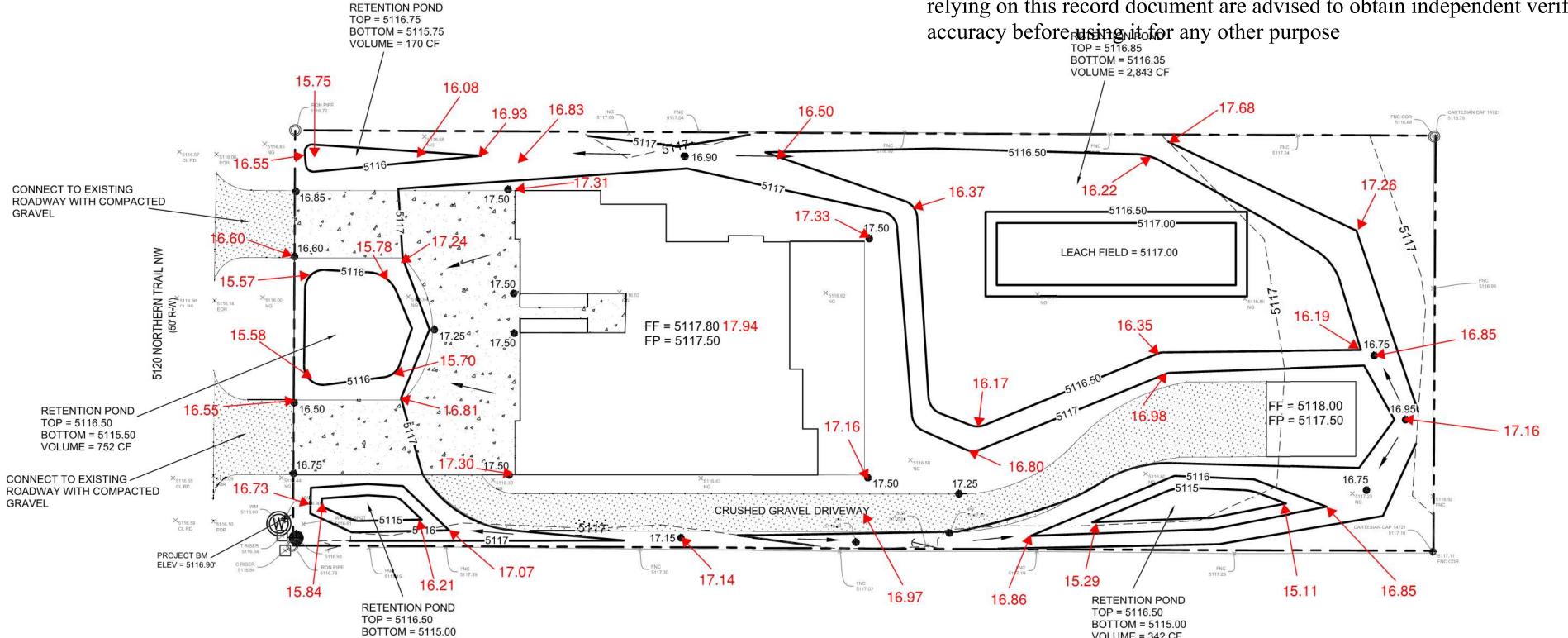
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING

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

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  $\frac{1/8/21}{}$ . 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 asbuilt survey was provided by LORENZO DOMINQUEZ NMPLS #10461. 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 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



VOLUME = 176 CF



## FIRM MAP:

## LEGAL DESCRIPTION:

LOT 108 QUAKER HEIGHTS ADDN. CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

3/9/22

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

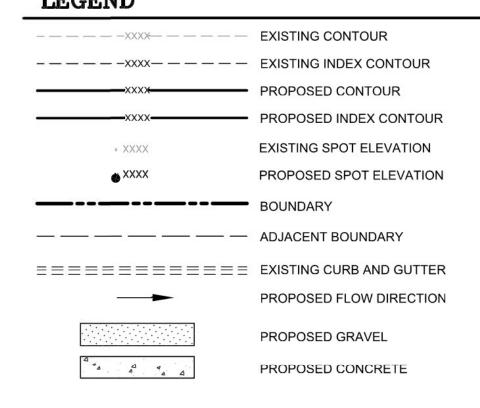
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

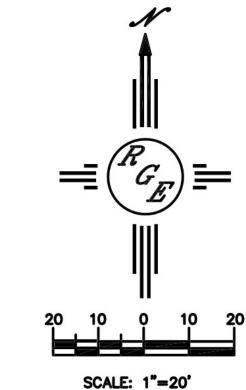
3. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD

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

# LEGEND

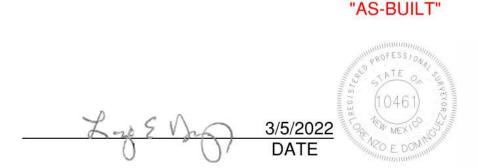




	ENGINEER'S SEAL	LOT 108 QUAKER HEIGHTS ADDN. 5120 NORTHERN TRAIL NW	DRAWN BY DEM
200	THE MEXICOLOR BY THE PROPERTY OF THE PROPERTY	GRADING AND	DATE 1-7-21
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AFOFESSIONAL BE	DRAINAGE PLAN      Rio Grande	SHEET #
	1/8/21	Engineering PO BOX 93924	C1
	DAVID SOULE P.E. #14522	ALBUQUERQUE, NM 87199 (505) 321-9099	JOB #

**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.



VOLUME = 342 CF