











Weighted E Method												
Basin	Area (sf)	Area (acres)	Treatment A (%)	Treatment B (%)	Treatment C (%)	Treatment D (%)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)	Flow cfs	Volume (ac-ft)
ALLOWED	20932.00	0.481	0%	0	20%	0.096	48%	0.221	34%	0.163	1.259	0.050
PROPOSED	20932.00	0.481	0%	0	18%	0.086	42%	0.2018	40%	0.192	1.324	0.053
COMPARISON												0.004

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= 1.29
Eb= 0.44
Ec= 0.67
Ed= 0.99
Qd= 4.37

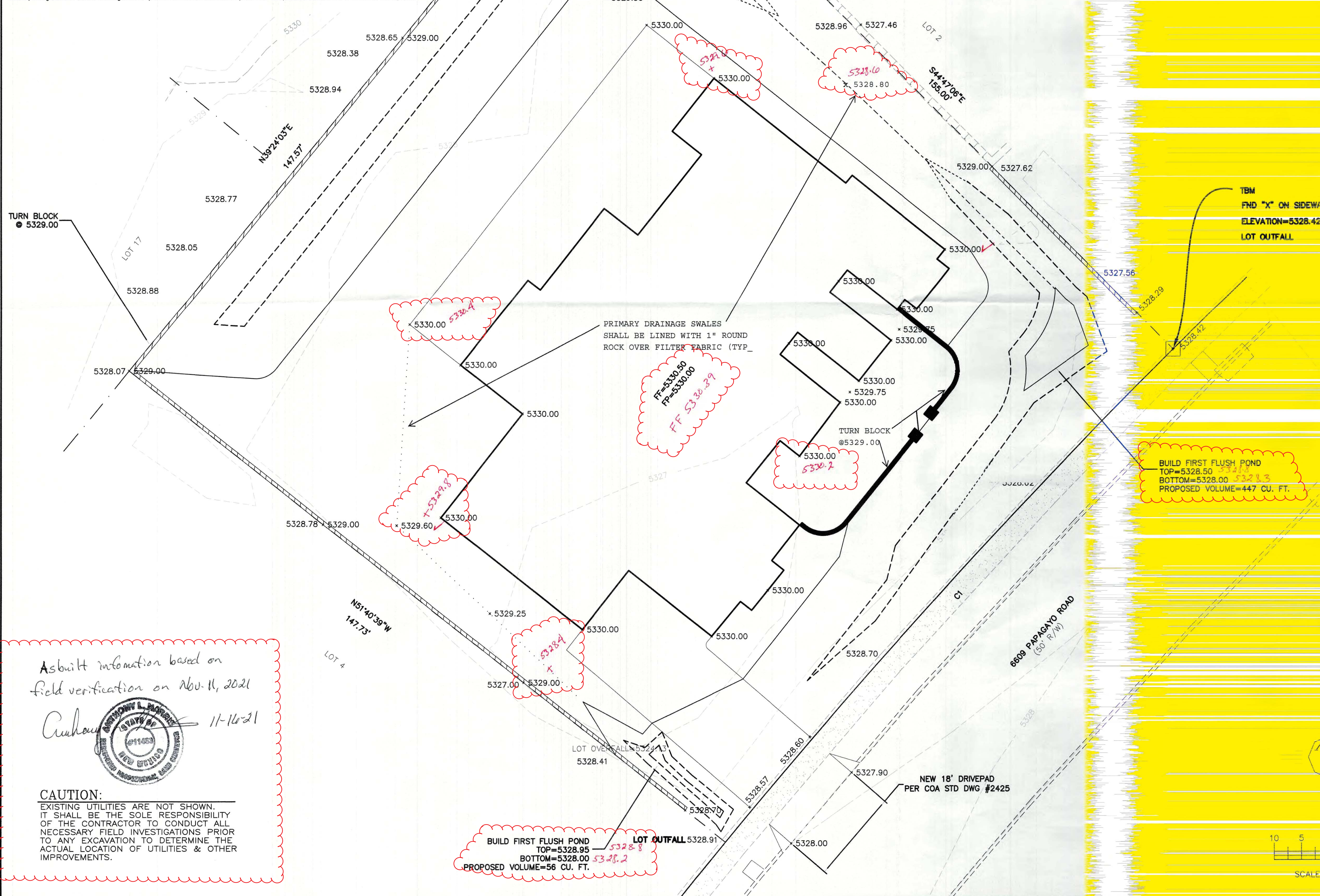
ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME

WATER QUALITY FLOOD CONTROL

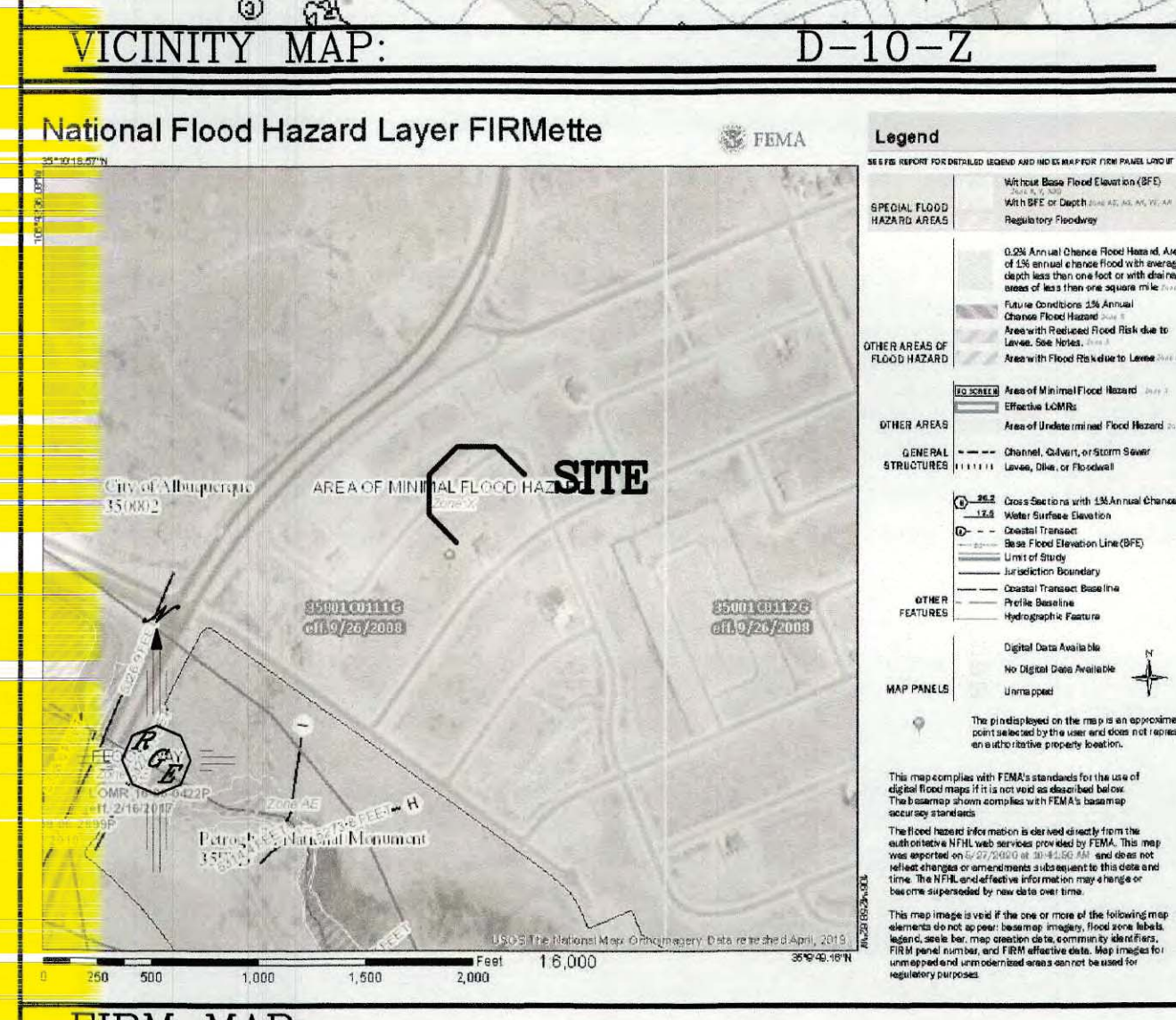
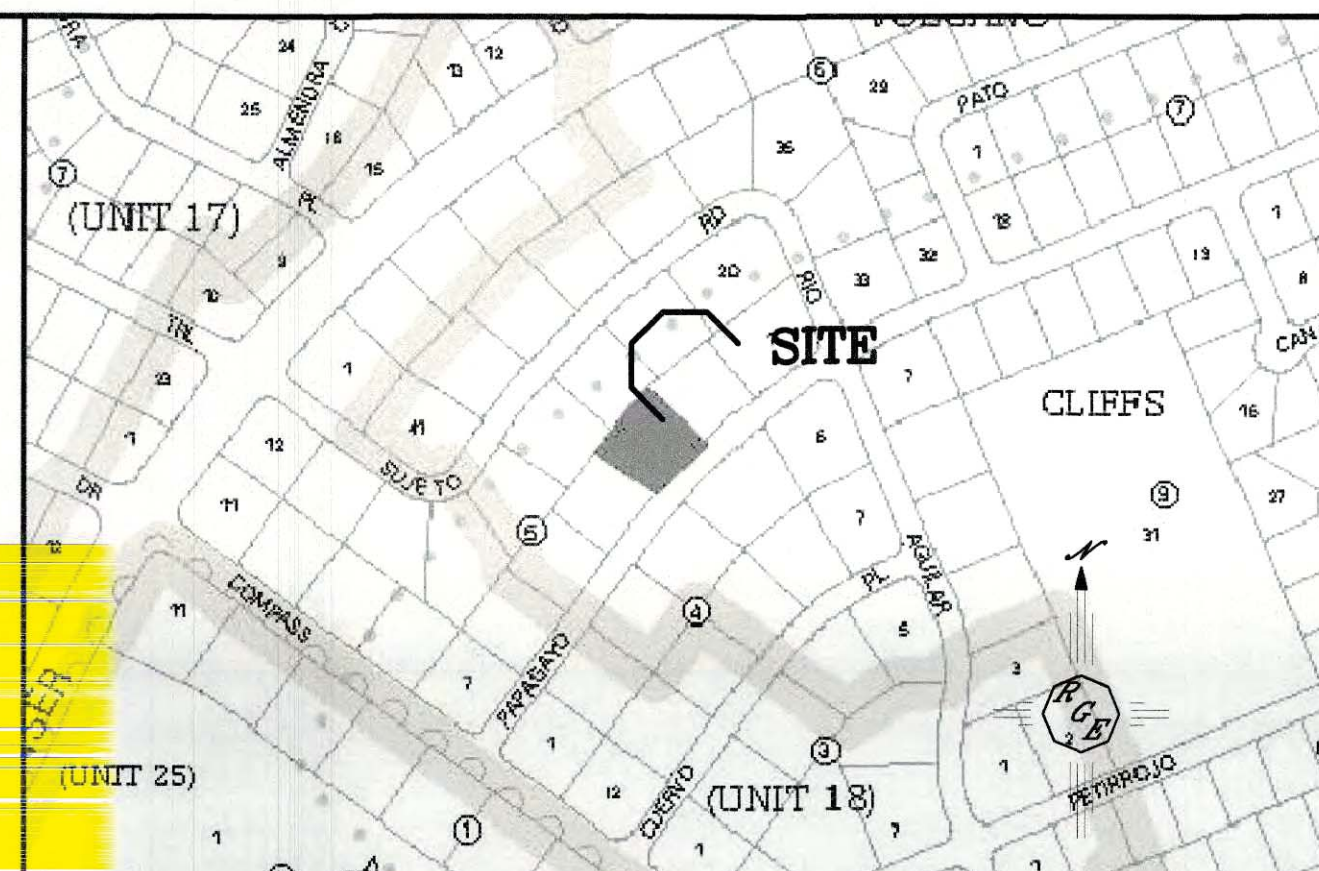
Narrative

This site is within the SAD 228 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 228 developed conditions assumptions, therefore ponding is required. Minor upland flow enters the site from the rear yard of the lot to the north and east. This flow passes thru We are ponding the water harvest volume generated by the site there is not measurable upland flow. This plan is in conformance to the master drainage plan



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.



CERTIFICATE OF OCCUPANCY

I, JACKIE S. MCDOWELL, NMPE # 10903, OF THE FIRM MCDOWELL ENGINEERING, INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 6-2-20, PREPARED BY DAVID SOULE. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON NOVEMBER 15, 2021 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT FOR A REQUEST FOR CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT AND TO CONFIRM THAT THE BUILDING PAD IS AT THE GRADE PROVIDED. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

JACKIE S. McDowell
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
10903

AS-BUILT CERTIFICATION FOR CO, 11-16-21
REV. 11-22-21- PROJECT TAKEN OVER ON
NOVEMBER 12, 2021

- PROPOSED 4" PVC SD
- POOL DECK TRENCH DRAIN
- EXISTING CURB AND GUTTER
- PROPOSED CMU RETAINING WAL-DESIGN BY OTHERS

ENGINEER'S SEAL DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522 6/2/20	6609 PAPGAYO	DRAWN BY WCWJ
	GRADING AND DRAINAGE PLAN	DATE 6-02-20
	Rio Grande Engineering 1608 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87108 (505) 872-0999	2102041-LAYOUT-6-01-20
		SHEET # —
		JOB # 2102041

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

November 23, 2021

Jackie McDowell, PE
McDowell Engineering, Inc.
7820 Beverly Hills Ave NE
Albuquerque, NM 87121

**Re: Lot 36 Block 6 Unit 18 Volcano Cliffs, S.A.D. 228
6609 Papagayo Rd. NW
Request Permanent C.O. by McDowell Engineering – Accepted
Engineer's Stamp dated: 7-15-2020 (D10D003K3)
CO Certification by McDowell Engineering dated: 11/22/2021**

This project was taken over by McDowell engineering on 11/12/2021, with the permission of David Soule owner of Rio Grande Engineering.

PO Box 1293

Ms. McDowell,

Albuquerque

Based on the Certification received 11/22/2021, the site is acceptable for release of Certificate of Occupancy by Hydrology.

NM 87103

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

www.cabq.gov

Sincerely,

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

November 19, 2021

Mr. Rudy E. Rael BS, CE, CFM
Assistant Engineer, CRS Coordinator, Hydrology
Planning Department
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

**RE: Candelaria - 6609 PAPAGAYO RD NW ALBUQUERQUE NM
87120**

Dear Mr. Rael:

Rudy, Diego, and Jackie, please find this letter as proof of me granting permission for Jackie McDowell to take over as the Engineer of record on this project (Candelaria - 6609 PAPAGAYO RD NW ALBUQUERQUE NM 87120) . I have no issues with Jackie taking over this project and verifying if what was built meets city ordinance.

If you have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "David Soule".

David Soule
Rio Grande Engineering

McDowell Engineering, Inc.

Jackie Sedillo McDowell, P.E.
Civil Engineering Consultant

November 19, 2021

Mr. Rudy E. Rael BS, CE, CFM
Assistant Engineer, CRS Coordinator, Hydrology
Planning Department
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

RE: Candelaria - 6609 PAPAGAYO RD NW ALBUQUERQUE NM 87120

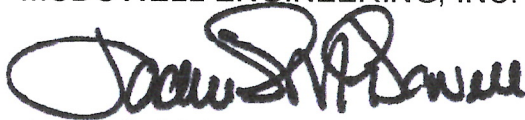
Dear Mr. Rael:

Per your request, I was asked to provide the as-built certification for the subject property by the contractor on November 12, 2021.

If you have any questions, please do not hesitate to contact me.

Sincerely,

MCDOWELL ENGINEERING, INC.



Jackie S. McDowell, P.E.

Copy: Diego Candelaria

Rudy,

As requested, the reason I am having Jackie complete these as built's, is that David is too busy with other work and has been working with me to complete the jobs he has started. There will be a few more just like this one.

Thank you

Diego Candelaria