

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

December 16, 2022

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

**Re: Lot 2 Block 9 SAD 228
Volcano Cliffs Subdivision Unit 18
6605 Petirrojo Rd. NW
Grading and Drainage Plan
Engineers Stamp Date 11/2/2021 (D10D003I2)
Pad Certification Date 11/16/2021
CO Certification Date 12/13/2022**

PO Box 1293

Ms. McDowell,

Albuquerque

Based on the Certification received 12/15/2022, the site cannot be accepted for release of Certificate of Occupancy by Hydrology until the following comments are addressed.

NM 87103

- Remove the port a potty.
- The back yard needs to have erosion protection.
- Replace the cracked side walk at the hand-I cap ramp.
- Replace the missing sidewalk in front of the drive pad,

www.cabq.gov

If you have any questions, you can 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/SB
C: FileD10D003I2



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: CANDELARIA - PETIRROJO **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 2, BLOCK 9, UNIT 18, VOLCANO CLIFFS SUB'D
City Address: 6605 PETIRROJO RD NW ALBUQUERQUE NM 87120

Applicant: MCDOWELL ENGINEERING, INC. **Contact:** JACKIE MCDOWELL
Address: 7820 BEVERLY HILLS AVE. NE, ALBUQUERQUE, NM 87122
Phone#: 505-828-2430 **Fax#:** 505-821-4857 **E-mail:** jackmcdowell@comcast.net

Other Contact: DILLON CANDELARIA **Contact:** DILLON CANDELARIA
Address: 1330 Crestview Dr. Los Lunas, NM 87035
Phone#: 505-917-2099 **Fax#:** _____ **E-mail:** dillon@candelariahomes.com

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes ☒ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☒ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ DRAINAGE REPORT
____ DRAINAGE MASTER PLAN
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ STREET LIGHT LAYOUT
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ____ BUILDING PERMIT APPROVAL
☒ CERTIFICATE OF OCCUPANCY
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL
____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) PAD CERTIFICATION

DATE SUBMITTED: 12-13-22 **By:** JACKIE MCDOWELL

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Weighted E Method

											100-Year, 6-hr.				24 hour
Basin	Area	Area	Treatment A		Treatment B		Treatment C		Treatment D	Weighted E	Volume	Flow	Volume		
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)		(cfs)	(ac-ft)			
ALLOWED	27355.00	0.628	0%	0	20%	0.126	46%	0.2889	34%	0.214	1.259	0.066	2.02	0.074	
PROPOSED	27355.00	0.628	0%	0	20%	0.126	34%	0.2135	46%	0.289	1.377	0.072	2.13	0.083	
COMPARISON												0.006		0.009	

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

Ea= 0.44	Qa= 1.29
Eb= 0.67	Qb= 2.03
Ec= 0.99	Qc= 2.87
Ed= 1.97	Qd= 4.37

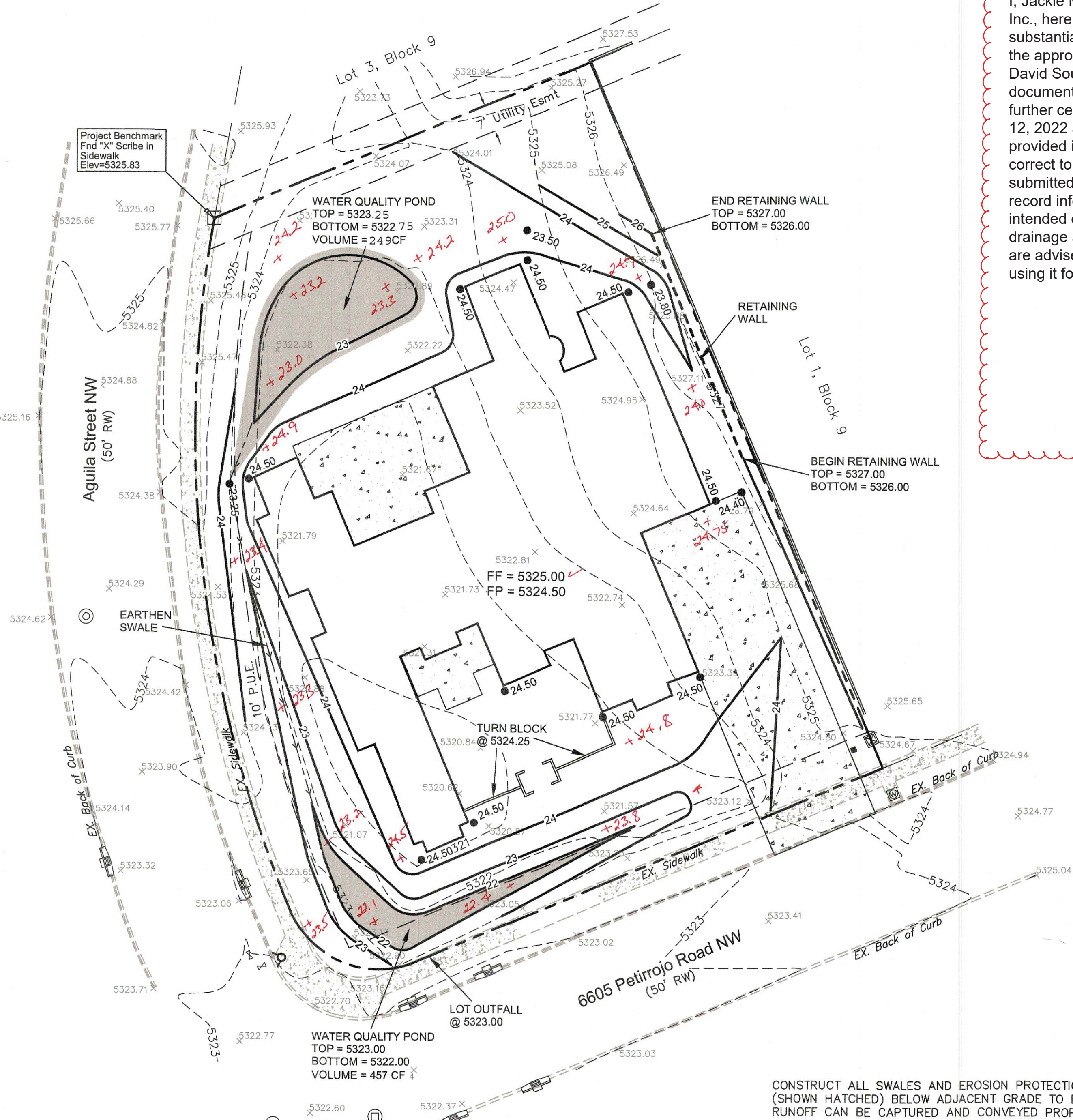
ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME

	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	0	706
FLOOD CONTROL	394	706

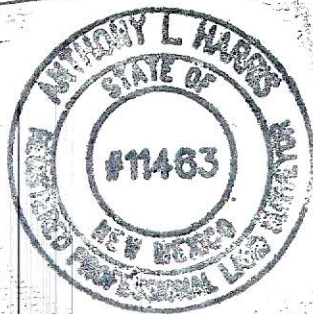
Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway. The site does exceed the SAD 228 developed conditions assumptions therefore ponding is required. Upland flow has the ability to enter the site from the rear yard of the lot to the north and west, this flow is allowed to pass. This plan is in conformance to the master drainage plan.



Elevations shown are based on field information taken on 12-5-22

Anthony L. Harris
12-12-22



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.

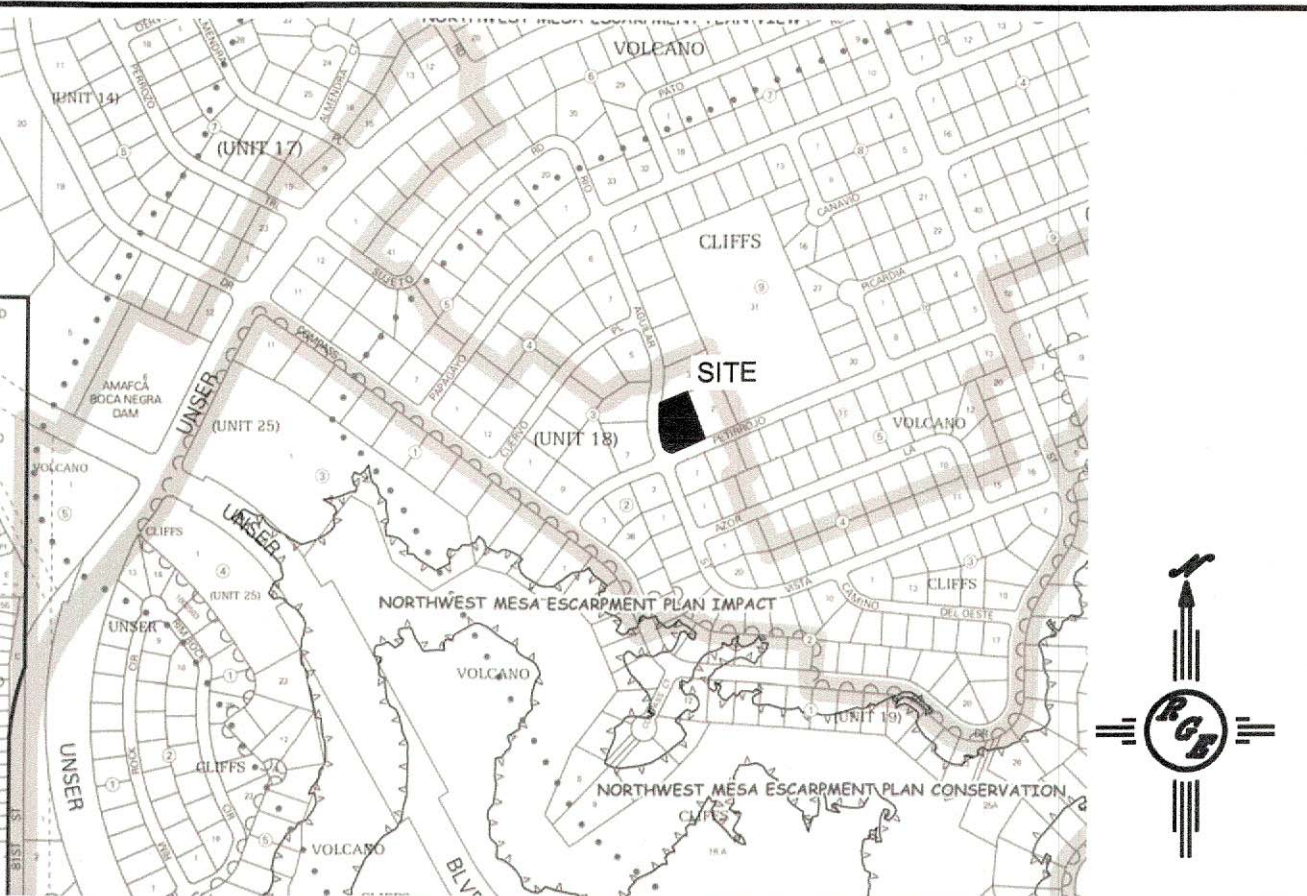
EROSION CONTROL NOTES:

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.

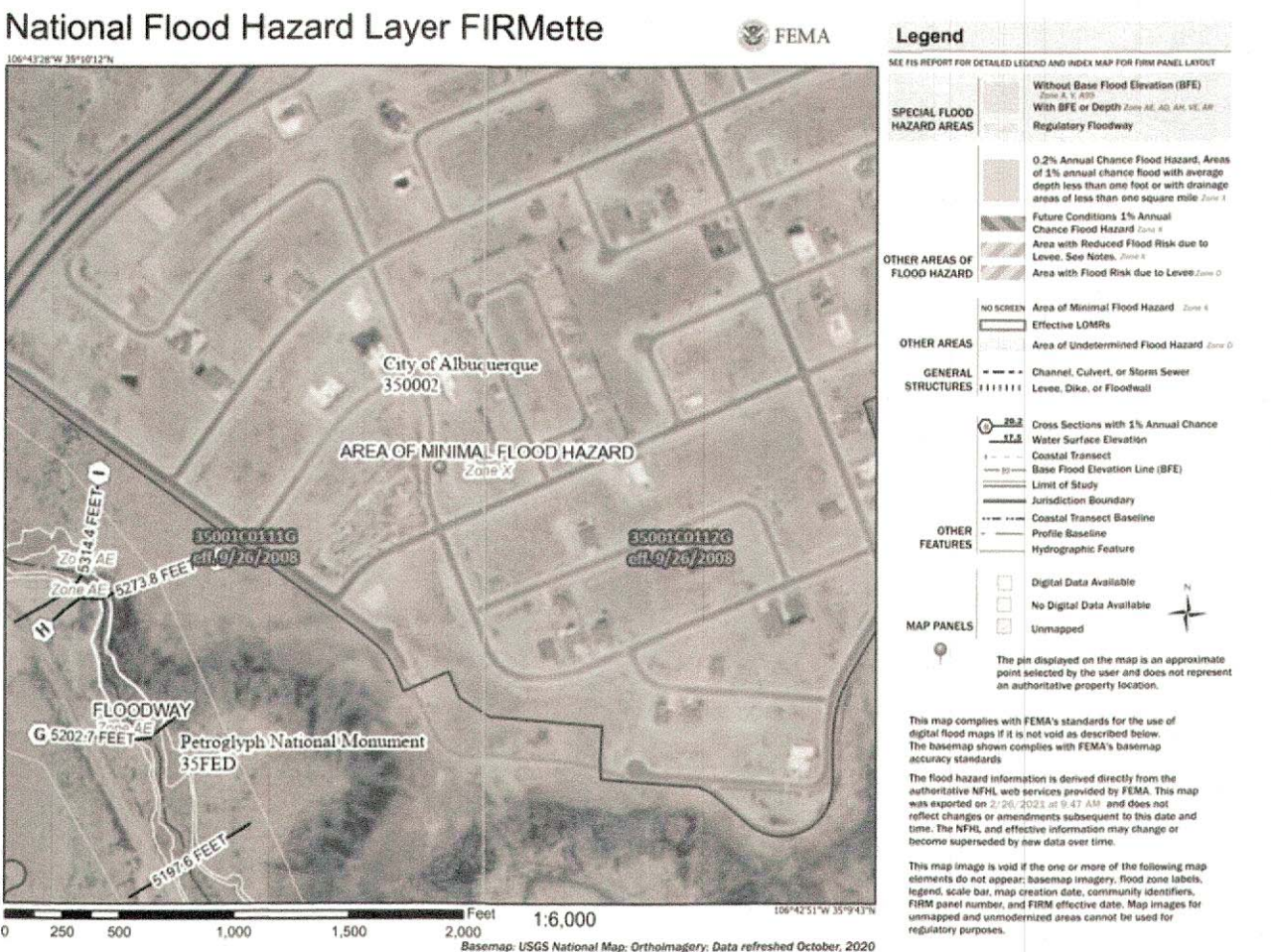
DRAINAGE CERTIFICATION FOR CERTIFICATE OF OCCUPANCY (CO) WITH SURVEY WORK BY PROFESSIONAL SURVEYOR I, Jackie McDowell, NMPE #10903, of the firm McDowell Engineering, Inc., hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 3-1-21, and pad certification dated 4-8-22 by David Soule. The record information edited onto the original design document has been obtained by Anthony Harris, NMPS #11463. I further certify that I have personally visited the project site on December 12, 2022 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 of 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. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.



AS-BUILT CERTIF. FOR CO, 12-13-22



VICINITY MAP: D-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOT 02 BLOCK 09 UNIT 18 VOLCANO CLIFFS SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

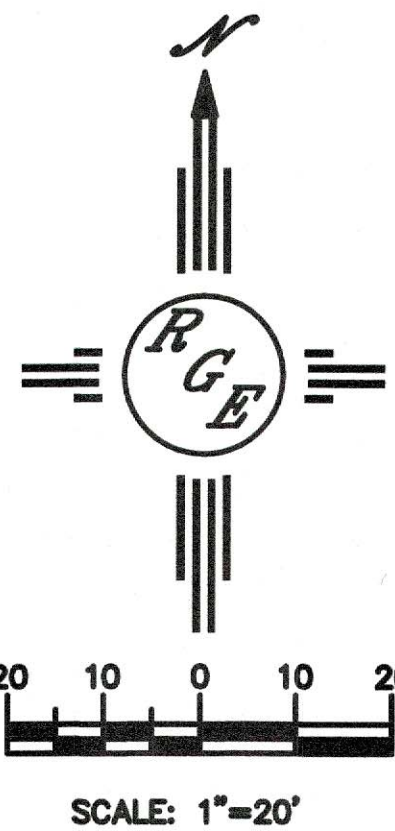
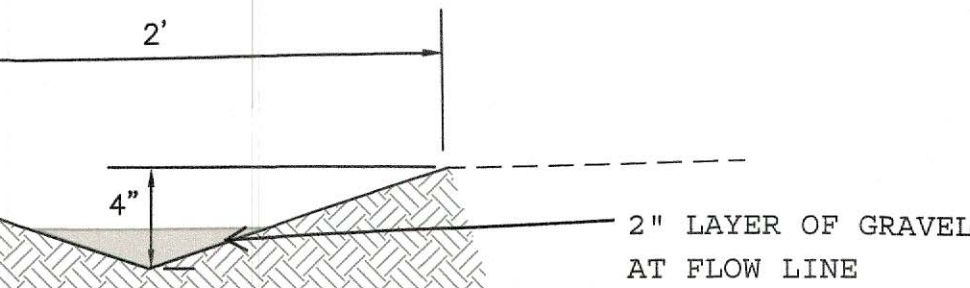
NOTES:

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 PERMITTED 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

---	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 RETAINING WALL
---	PROPOSED CONCRETE

CONSTRUCT ALL SWALES AND EROSION PROTECTION (SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.



ENGINEER'S SEAL 3/1/21 DAVID SOULE P.E. #14522	LOT 02 BLK 09 UN 18 VC 6605 PETIRROJO ROAD NW	DRAWN BY DEM DATE 2-27-21 Lot 02 Blk 09 Un 18 VC.DWG
	GRADING AND DRAINAGE PLAN PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-9098	SHEET # C1 JOB #