PILE OF DIRT AND ROCK WILL BE REMOVED IN THE NEXT FEW DAYS AND DOES NOT IMPACT THE DRAINAGE OF THIS LOT.

TURN 2 - BLOCKS 3" ABOVE EXISTING FINISHED GRADE TO ALLOW FOR CROSS LOT DRAINAGE

Total (acres)	
Volume	
Volume (acre-feet)	
Volume (cubic feet)	
POND VOLUME REQUIRED (PER PR	
Total Q(p), cfs:	
Treatment A	
Treatment B	
Treatment C	
Treatment D	
Total Q (cfs	
(10 day) = V (360) + A (D) * (P10da	

SMALL POND:	
POND VOL. PR	
ELEV	ARE
5333	4
5332	2
TOT. V	

LOT 8 ~ BLOCK 10
VOLCANO CLIFFS
UNIT 18

PICARDIA PLACE (50' R/W)

PETIRROJO (50' R/W)

N 67°16'31" E 110.04'

S 22°43'13" E 140.02'

N 22°43'07" W 115.01'

S 67°00'36" W 85.04'

RISER

SIDEWALK DRAIN

33.77 FL OUT 2" WIDE

33.93 FL IN

CONCRETE DRIVE

RIDGE

DRIVE

RESIDENCE

33.46 FS GARAGE FLOOR

RAISED CONCRETE

34.07 FIN FLOOR

CLEAN OUTS

WATER METER

SIDEWALK

32.58 FL OUTLET

32.45 FL

18" CURB CUT

SMALL POND:
VOL = 356 CF

LARGE POND:
VOL = 1069 CF

MAXIMUM SIDE SLOPE 3:1 (TY

NORTH

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

5332.37
SEWER MANHOLE

PROJECT BENCHMARK

Michael T. Hook

MICHAEL T. HOOK
NMLS No. 13240

9-7-16

6511

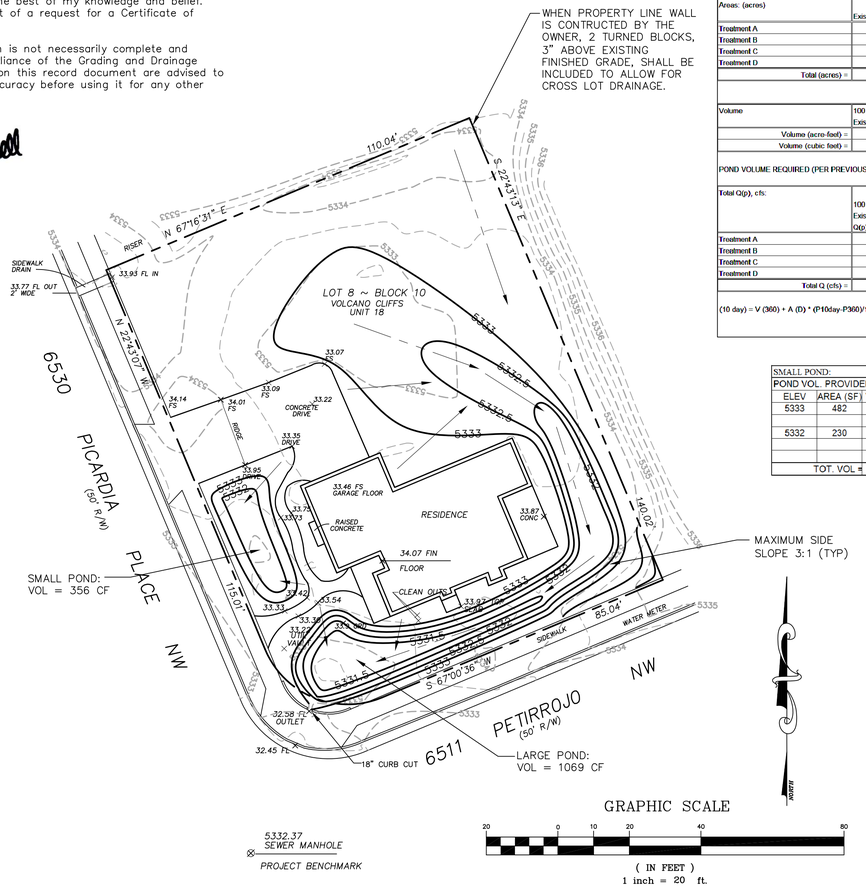
DRAINAGE CERTIFICATION

I, Jackie S. McDowell, NMPE 10903, of 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 6–10–16 by David Soule, PE, and updated/clarified on 8–17–16 by Jackie McDowell. The attached as–built survey document shows the compliance elevations and was prepared by Mike Shook, NMPS #13240. I further certify that I have personally visited the project site on September 7, 2016 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 a 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 this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

JACKIE S. McDOWELL NEW MEXICO 10903 REGISTERED PROFESS IONAL ENGINEER

9-7-16



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

16-Aug-16 — GARCIA - VOLCANO CLIFFS LOT 8

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, latest edition - basins < 40 acres".

P(360) = 2.20 inches
P(10 day) = 3.67 inches

Precipitation Zone = 1
Depth at 100-year, 6-hour storm: (Table A-2)

Land Treatments:
From Table 5 - Percent Treatment D

Areas: (acres)	Existing	Proposed
Treatment A	0.35	0.00
Treatment B	0.00	0.09
Treatment C	0.00	0.17
Treatment D	0.00	0.09
Total (acres) =	0.35	0.35

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.013	0.034	0.002	0.017	0.000	0.007
Volume (cubic feet) =	559	1,473	102	749	0	313

POND VOLUME REQUIRED (PER PREVIOUSLY APPROVED PLAN) = 1026 CF

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	0.45	0.00	0.08	0.00	0.00	0.00
Treatment B	0.00	0.18	0.00	0.07	0.00	0.00
Treatment C	0.00	0.49	0.00	0.25	0.00	0.08
Treatment D	0.00	0.39	0.00	0.26	0.00	0.15
Total Q (cfs) =	0.45	1.06	0.08	0.58	0.00	0.23

(10 day) = V (360) + A (D) * (P10day-P360)/12 in/ft = 0.0449 ac-ft
= 1954 cu-ft

SMALL POND: POND VOL. PROVIDED:		
ELEV	AREA (SF)	VOL (CF)
5333	482	
		356
5332	230	
TOT. VOL =		356

LARGE POND: POND VOL. PROVIDED:		
ELEV	AREA (SF)	VOL (CF)
5332.5	1849	
		721.5
5332	1037	
		348.25
5331.5	356	
TOT. VOL =		1069.75

I hereby certify that this modified grading & drainage layout is in substantial compliance with the approved grading & drainage plan by Rio Grande Engineering, David Soule, dated 6–10–16 and approved by the City of Albuquerque. An as–built plan will be submitted to the City once the constsruction is completed.

JACKIE S. McDOWELL NEW MEXICO 10903 REGISTERED PROFESS IONAL ENGINEER

8-17-16

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

D10D003P8

Project Title: JOSEPH GARCIA Building Permit #: _____ City Drainage #: D10D003I

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: LOT 8, BLOCK 10, VOLCANO CLIFFS, UNIT 18

City Address: 6530 PICARDIA PL. NW aka 6511 PETIRROJO RD. NW

Engineering Firm: MCDOWELL ENGINEERING, INC. Contact: JACKIE MCDOWELL

Address: 7820 BEVERLY HILLS AVE. NE

Phone#: 505-828-2430 Fax#: 505-821-4857 E-mail: jackmcdowell@comcast.net

Owner: BUILDER: JOSEPH GARCIA, RIO GRANDE CONSTRUCTIOI Contact: JOSEPH GARCIA

Address: 2504 VILLA DORA WAY NW

Phone#: 505-259-5912 Fax#: _____ E-mail: josephegarcia@yahoo.com

Architect: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: 7 E-mail: _____

Surveyor: MIKE SHOOK Contact: MIKE SHOOK

Address: 612 CERRO DE ORTEGA DR. SE

Phone#: 505-249-4231 Fax#: _____ E-mail: AShook7121@aol.com

Contractor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- ____ GRADING PLAN
- ____ EROSION & SEDIMENT CONTROL PLAN (ESC)
- X ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERT (TCL)
- ____ ENGINEER'S CERT (DRB SITE PLAN)
- ____ ENGINEER'S CERT (ESC)
- ____ SO-19
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ____ SIA/FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- X CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ GRADING CERTIFICATION
- ____ SO-19 APPROVAL
- ____ ESC PERMIT APPROVAL
- ____ ESC CERT. ACCEPTANCE
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED: X Yes ____ No ____ Copy Provided

DATE SUBMITTED: 9-7-16 By: JACKIE MCDOWELL

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

16-Aug-16

GARCIA - VOLCANO CLIFFS LOT 8

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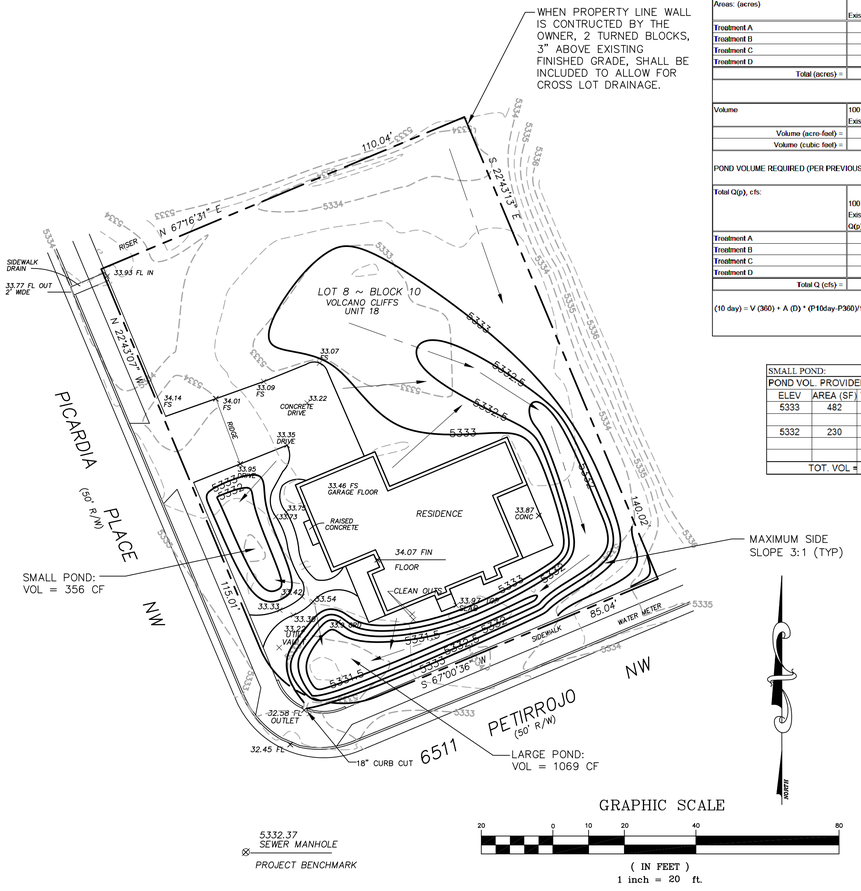

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JACKIE S. McDONNELL
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

8-17-16


S160
Bobcat


Bobcat


51
Bobcat


Bobcat


Bobcat
Bobcat
E42


450-7012


S160
E42


450-7012


NOTICE