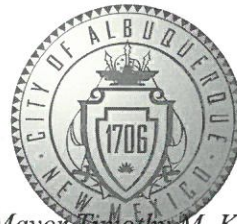


# CITY OF ALBUQUERQUE

Planning Department  
David Campbell, Director



Mayor Timothy M. Keller

February 1, 2019

Richard Dourte, P.E.  
RHD Engineering LLC  
4305 Purple Sage Ave. NW  
Albuquerque, New Mexico 87120

**RE: Lot 17 Block 4 Unit 19 SAD 227  
6815 Rim Rock NW  
Volcano Cliffs Subdivision  
Grading and Drainage Plan  
Engineers Stamp Date; 12/11/18 (D10D015)  
Pad Certification Date; 1/29/19**

Dear Mr. Dourte,

Based upon the information provided in your submittal received 1/31/19, this plan is approved for Building Permit.

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

James D. Hughes, P.E.  
Principal Engineer, Hydrology  
Planning Department

RR/JDH  
C: File D10D015



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** 6815 Rim Rock rd NW **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** E10D015  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** Lot 17, Block 4, Unit 19, Volcano Cliffs Sub'd (SAD 227)  
**City Address:** 6815 Rim Rock rd NW

**Applicant:** RHD Engineering, LLC **Contact:** Richard Dourte  
**Address:** 4305 Purple Sage Ave. NW  
**Phone#:** 505.288.1621 **Fax#:** \_\_\_\_\_ **E-mail:** rhdenengineering@outlook.com

**Other Contact:** Candelaria Homes **Contact:** Diego Candelaria  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** diego.candelariahomes@gmail.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:**

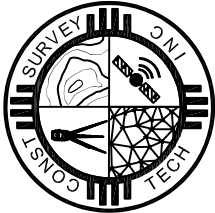
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ SITE PLAN FOR SUB'D APPROVAL
- ☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL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

**DATE SUBMITTED:** Jan. 30, 2019 **By:** Richard Dourte

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

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

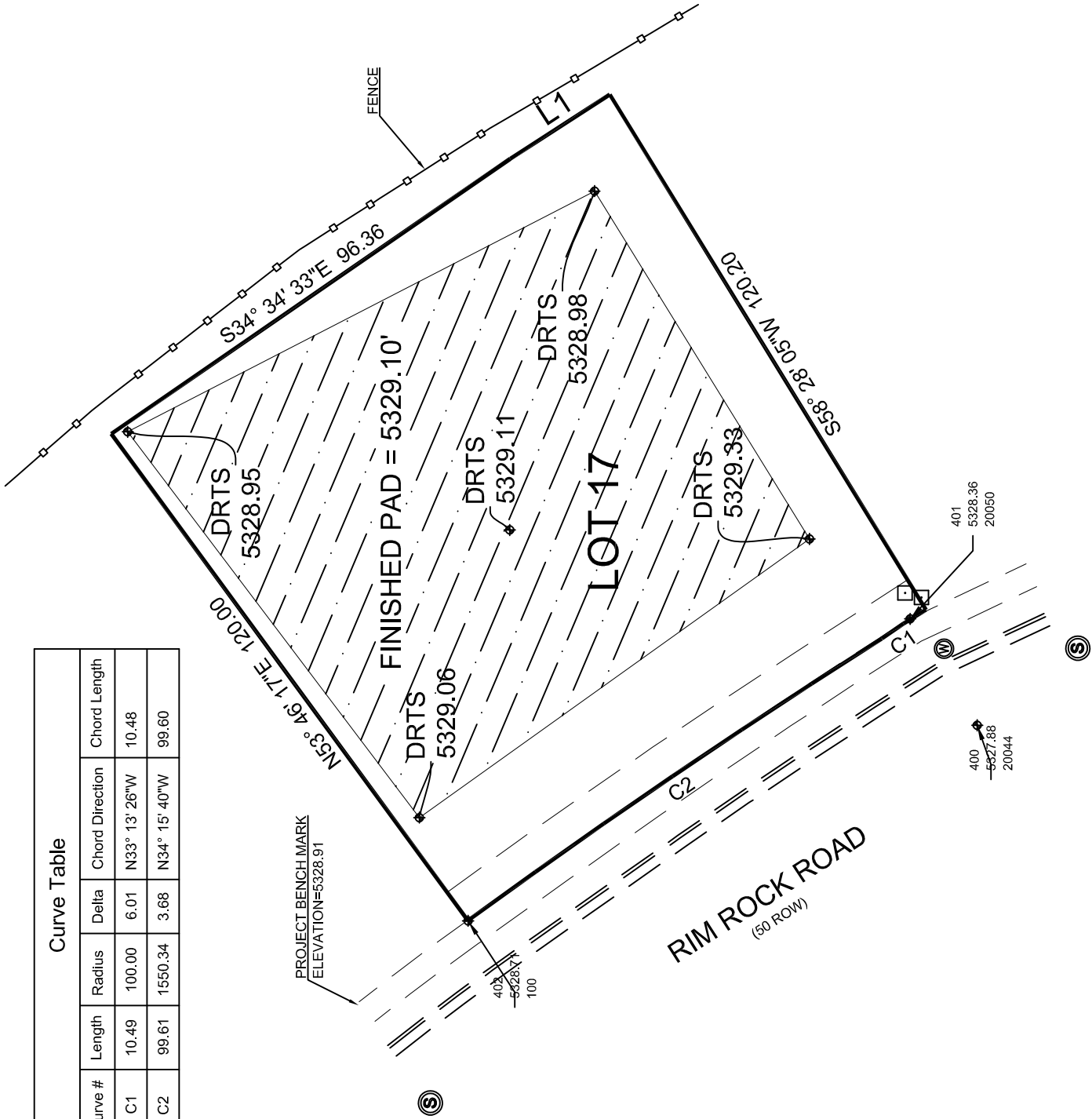


CONSTRUCTION SURVEY TECHNOLOGIES, INC  
MAILING: PO BOX 65395, ALBUQUERQUE, NM 87193 505-917-8921  
OFFICE: 1606 CENTRAL AVE SE, SUITE 101, ALBUQUERQUE, NM 87106  
NMSURVEY@GMAIL.COM

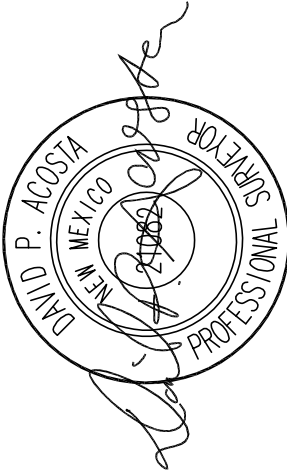
FINISHED PAD CERTIFICATION  
LOT 17, BLOCK 4, UNIT 19  
VOLCANO CLIFFS SUBD.  
6815 RIM ROCK ROAD  
ALBUQUERQUE, NM  
JANUARY 2019

Parcel Line Table		
Line #	Length	Direction
L1	23.56	N32° 50' 40.00"W

Curve Table				
Curve #	Length	Radius	Delta	Chord Length
C1	10.49	100.00	6.01	N33° 13' 26"W 10.48
C2	99.61	1550.34	3.68	N34° 15' 40"W 99.60



Scale 1"=30'



01/29/2019

1. THIS SITE IS LOCATED WITHIN THE SAD 227 DRAINAGE MASTER PLAN AREA.
2. THIS SITE IS TO DRAIN INTO A POND THEN OVERFLOW INTO THE STREET.
3. THE VOLUME OF THE POND IS 325CF; THIS IS GREATER THAN THE REQUIRED PONDING VOLUME OF 173CF.
4. WEIR EQUATION FOR EACH CELL OF A 8" CMU BLOCK:  
 $Q = CL(H)^{1.5}$   
 $C = 3.21$   
 $L = 5'$   
 $H = 5'$   
THUS  $Q = 0.36CFS$ , OR .72CFS PER BLOCK.

[illegible]

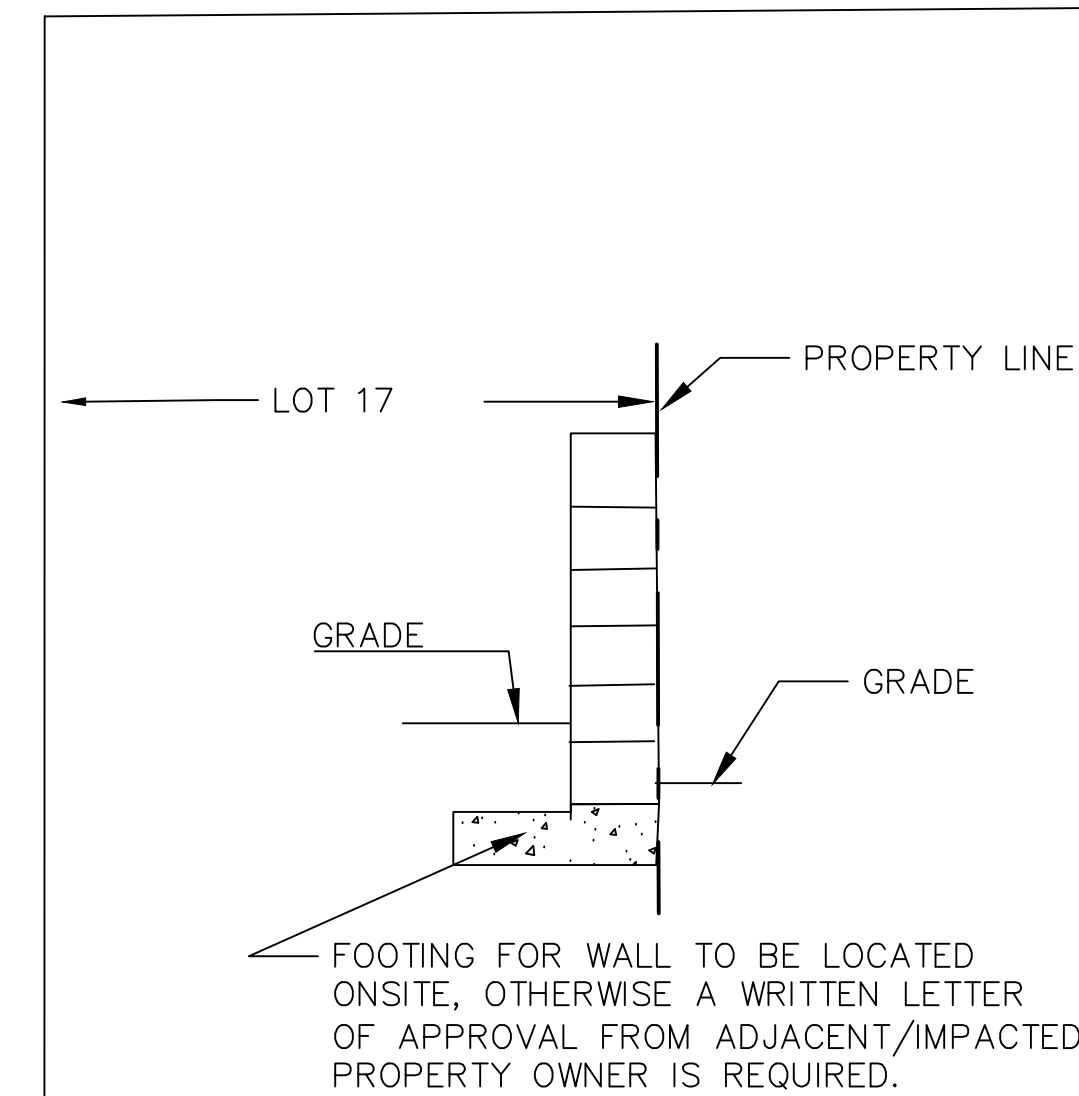
	V <sub>960</sub>	V <sub>1440</sub>	V <sub>days</sub>	V <sub>10days</sub>
Cubic feet	1413.7	1544.0	1674.4	1830.2
Acre-ft	0.03	0.04	0.04	0.04

\*\*\*\*\*PROPOSED CONDITIONS\*\*\*\*\*

Area				Design Flows (CFS)			
Area	SQ. FT	Acres	% Total	Area	SQ. FT	Acres	Peak Discharge (100 YR)
A=	0	0.000	0%	A=	0	0.000	0.00
B=	1300	0.030	9%	B=	1300	0.030	0.06
C=	6566	0.148	46%	C=	6566	0.148	0.42
D=	6104	0.140	44%	D=	6104	0.140	0.61
Total	13770	0.316	100%	Total (CFS)	1.09		
Weighted E=		1.394					

	V <sub>90</sub>	V <sub>1440</sub>	V <sub>days</sub>	V <sub>10days</sub>
Cubic feet	1599.9	1833.8	2067.8	2347.6
Acre-ft	0.04	0.04	0.05	0.05

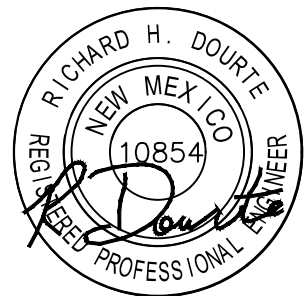
The 100 year peak flows for this developed site is 1.1 CFS and the design flows are 1 CFS for an increase of 0.1 CFS. The 100 year 24 hr volume increase is  $1834 - 1544 = 290\text{CF}$ .

First Flush Ponding Requirement =  $A_p \cdot 0.34 \text{ in/12in/ft} = 173 \text{ CF}$ 

### GARDEN WALL/RETAINING WALL DETAIL

1. ANY GARDEN WALL/RETAINING WALL IS TO BE BUILT ON-SITE (DESIGN OF THE GARDEN WALL/RETAINING WALL IS BY OTHERS).
2. A PERMIT IS REQUIRED FOR THE CONSTRUCTION OF THE RETAINING WALL AND ANY FUTURE GARDEN WALL. THIS IS THE PLAN TO FOLLOW WHEN APPLYING FOR A PERIMETER BLOCK WALL.

I, Richard Dourte have personally inspect this site. I hereby certify that the pad has been constructed in sustantial compliance with the approved grading and drainage plan stamp dated 12-11-18 (per survey information from David Acosta, Construction Survey Technologies, Inc, NMPS 21082).

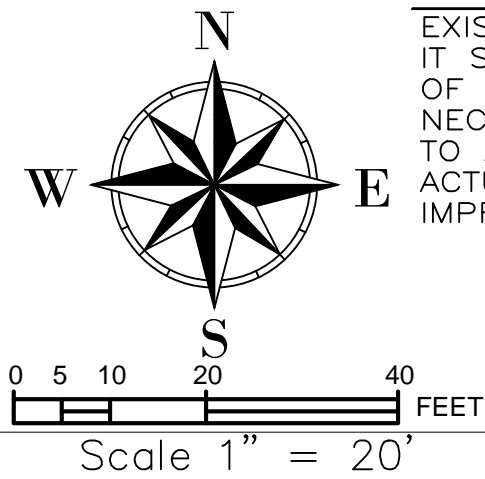


1-29-19

1. THIS SITE IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE ( REFER TO THE FIRM MAP 35001C0111G, EXCERPT ATTACHED).
2. RHD ENGINEERING, LLC RECOMMENDS THAT THE OWNER OBTAIN A GEOTECHNICAL REPORT PRIOR TO DESIGN OF BUILDING FOOTING/FOUNDATION.
3. SLOPE STABILIZATION SHALL BE USED ON SLOPES GREATER THAN A 3:1 SLOPE, PER MANUFACTURER RECOMMENDATIONS.
4. MODIFICATIONS OR ADJUSTMENTS TO EXISTING DRAINAGE STRUCTURES/EROSION MITIGATION IMPROVEMENTS SHALL BE DONE IN THE SAME MANNER AS THE ORIGINAL IMPROVEMENT.
5. ALL SWPPP REQUIREMENTS SHALL BE ADHERED TO.
6. ALL WORK ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO WORK COMMENCING.
7. ALL WORK IN THE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS.
8. THIS GRADING PLAN IS TO BE UTILIZED AND A COPY PROVIDED TO THE CITY WHEN APPLYING FOR THE CONSTRUCTION OF ANY GARDEN OR RETAINING WALLS, WITH RESPECT TO THIS SITE.
9. THE SURVEY INFORMATION WAS PROVIDED BY CONSTRUCTION SURVEYS TECHNOLOGIES, INC.
10. FOR SITE DIMENSIONS, BUILDING AND INFRASTRUCTURE LOCATION REFER TO THE SITE PLAN.

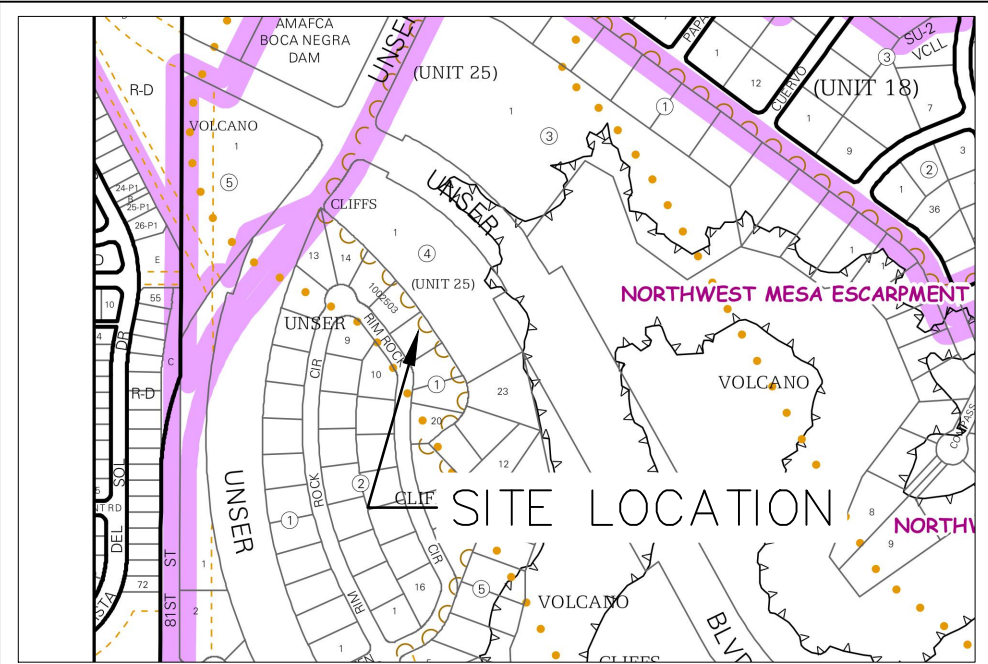
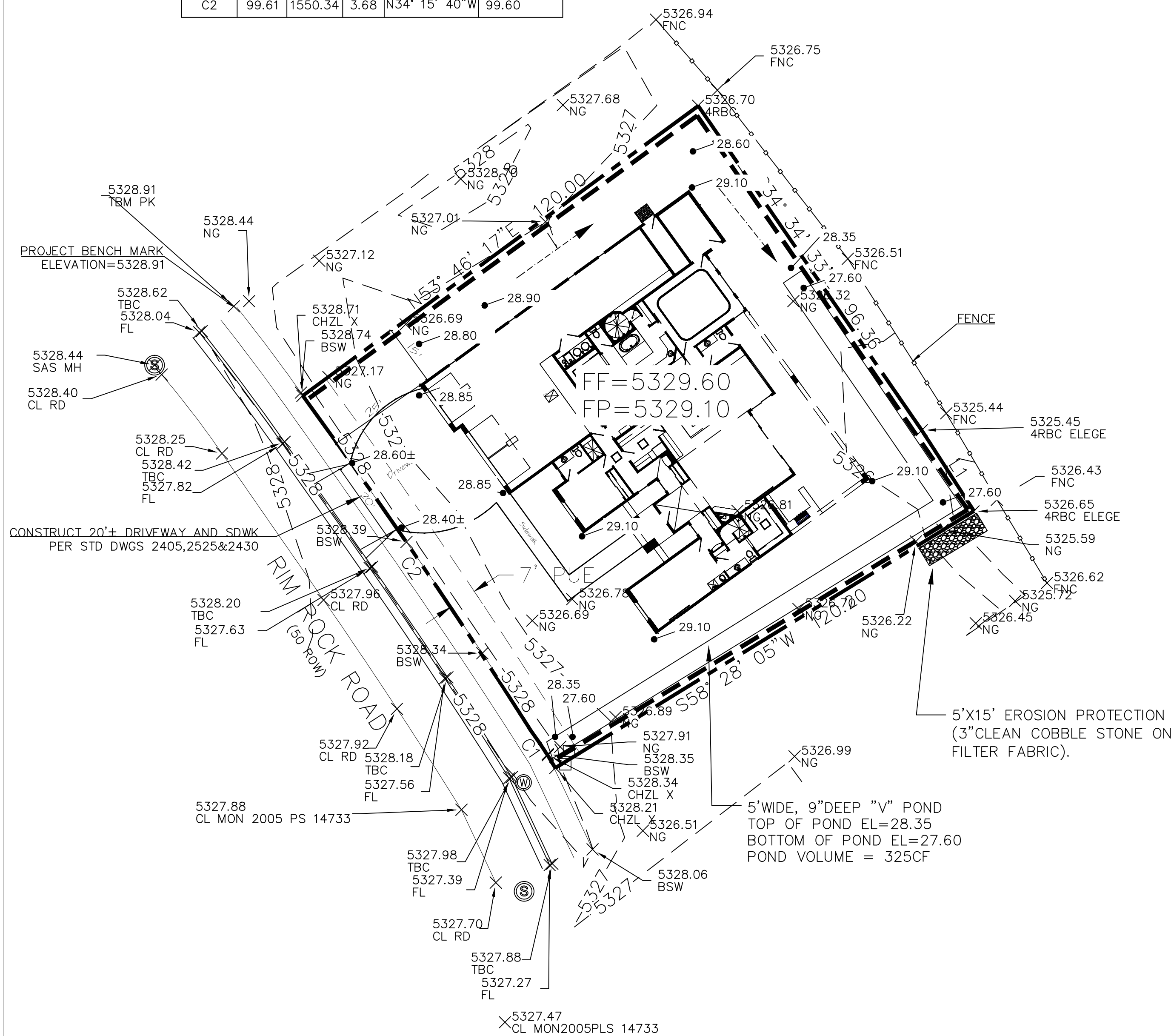
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES 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.

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.

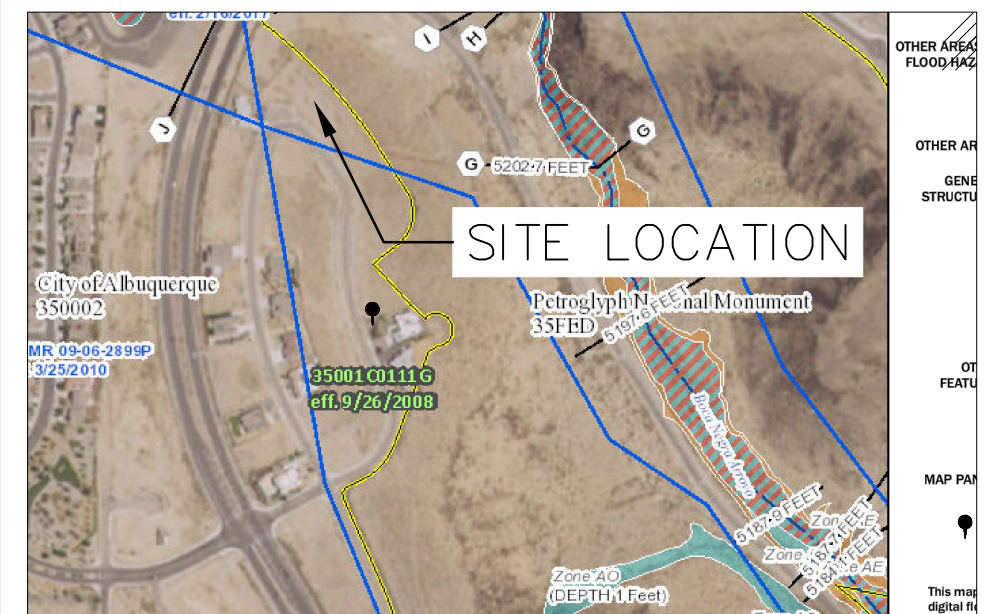


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VICINITY MAP: E-10-2


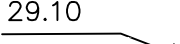
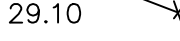















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FIRM MAP: 35001C0111G

Lot 17, Block 4, Unit 19, Volcano Cliffs Sub'd  
CITY OF ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO


1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. RETAIN THE FIRST .34" OF STORM RUNOFF FROM ENTIRE DEVELOPMENT TO CONFORM TO THE WATER QUALITY REQUIREMENTS

	29.10	PROPOSED SPOT ELEVATION
	29.10	TOP OF WALL ELEVATION
	29.10	BOTTOM OF WALL ELEVATION
		EXISTING CONTOUR
		EXISTING INDEX CONTOUR
		PROPOSED CONTOUR
		PROPOSED INDEX CONTOUR
		LOT LINE
		RIGHT-OF-WAY
		PROPOSED GARDEN/RETAINING WALL
		PROPOSED ROCK FACE WALL
		EXISTING CURB AND GUTTER
		PROPOSED EDGE OF CONCRETE
		PROPOSED FLOWLINE
		EXISTING WALL
		PROPOSED BASIN BOUNDARY

I HAVE PERSONALLY INSPECTED THE PROPERTY ON 12-04-18. NO EARTHWORK HAS BEEN PERFORMED AND THE SITE IS CONSISTENT WITH THE TOPO SHOWN. *D. J. D. L.*

TOPO SHOWN Richard Dorte

Richard Dourte P.E. #10854

ENGINEER'S SEAL	Title 6815 Rim Rock Road  GRADING AND DRAINAGE PLAN	DRAWN BY
 12/11/18  Richard Dourte P.E. #10854		DATE
		SHEET #  1 of 1  JOB #