CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Interim Director



August 19, 2019

Donald Briggs, 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 (E10D015)

Pad Certification Date; 1/29/19 C.O. Certification Date; 8/14/19

Dear Mr. Briggs,

PO Box 1293 Based upon the information provided in your submittal received 8/14/19, this plan is

approved for Certificate of Occupancy release.

If you have any questions, please contact me at 924-3999 or Rudy Rael at 924-3977.

Albuquerque

Sincerely,

NM 87103

www.cabq.gov

Shahab Biazar, P.E.

City Engineer, Division Manager

Planning Department

RR/JDH

C: File E10D015



City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title:	Building P	Permit #:	Hydrology File #:
DRB#:	EPC#:		Work Order#:
Legal Description:			
City Address:			
Applicant:			Contact:
Address:			
			E-mail:
Owner:			Contact:
Address:			
			E-mail:
TYPE OF SUBMITTAL:PLA	Γ (# OF LOTS)	RESIDENCE	_ DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL?:	Yes	No	
DEPARTMENT: TRAFFIC/ T	RANSPORTATION _	HYDROLOG	Y/ DRAINAGE
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTON CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENTON ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAY TRAFFIC IMPACT STUDY (TIEST) OTHER (SPECIFY) PRE-DESIGN MEETING?	PERMIT APPLIC OUT (TCL)	BUILI CERT PRELI SITE I SITE I FINAI SIA/ F FOUN GRAD SO-19 PAVII GRAD WORK CLOM FLOO	APPROVAL/ACCEPTANCE SOUGHT: DING PERMIT APPROVAL IFICATE OF OCCUPANCY IMINARY PLAT APPROVAL PLAN FOR SUB'D APPROVAL PLAN FOR BLDG. PERMIT APPROVAL RELEASE OF FINANCIAL GUARANTEE IDATION PERMIT APPROVAL DING PERMIT APPROVAL APPROVAL APPROVAL OF PERMIT APPROVAL
DATE SUBMITTED:	By:		

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:____

FEE PAID:

DRAINAGE NARRATIVE

THIS SITE IS LOCATED WITHIN THE SAD 227 DRAINAGE MASTER PLAN AREA.

THIS SITE IS TO DRAIN INTO A POND THEN OVERFLOW INTO THE STREET.

THE VOLUME OF THE POND IS 325CF, THIS IS GREATER THAN THE REQUIRED PONDING OF 290CF OR FIRST FLUSH REQUIREMENT OF 173CF.

WEIR EQUATION FOR EACH CELL OF A 8" CMU BLOCK:

Q=CL(H)1.5

C=3.21

L= 5" 4.2.6

4.

THUS Q=0.36CFS, OR .72CFS PER BLOCK.

			D	inage Calc	Drainage Calculations - Zone 1	Zone 1					
-40 -											
	Dept	Depth (inches) at 100yr Storm	t 100yr Stor	E			Exces	s Preci	Excess Precipiation, E(inches) - 6 HR Treatment	on, E(inches)	- 6 HR
Zone	P60	P360	P1440	P4days	P10days		Zone	A	8	U	٥
Н	1.87	2.20	5.66	3.12	3.67		1	0.44	0.67	66.0	1.97
2	2.01	2.35	2.75	3.30	3.95		2	0.53	0.78	1.13	2.12
m	2.14	2.60	3.10	3.95	4.90		3	99'0	0.92	1.29	2.36
4	2.23	2.90	3.65	4.70	5.95		4	0.80	1.08	1.46	2.64
ighted E	= ((Ea*Aa)+(Weighted E= ((Ea*Aa)+(Ea*AB)+(EC*AC)+(ED*AD])/(Aa+AB+AC+AD)	((Ep-Ap))	(AA+AB+Ac	:+Ab)		Peak	Discha	Peak Discharge (CFS/ACRE) 100 YR	ACRE) 1	00 YR
0=(Weig	V350=(Weighted E *P360)/12 in/ft	1)/12 in/ft							Trea	Treatment	
40= V360-	+AD*(P1440-F	V1440= V360+AD*(P1440-P360)/12in/ft	.0.00				Zone	A	B	U	Q
ays=V360-	+AD*(P4day-P	Vadays=V360+AD*(P4day-P360)/12in/ft	100				7	1.29	2.03	2.87	4.37
days=V360	+AD*(Ploday	V10days=V360+AD*(P10days-P360)/12in/ft	/ft				2	1.56	2.28	3,14	4.70
							8 4	1.87	2.92	3,45	5.02
*	*****	**************************************	****ALLOW	ABLE SAD	227 DESIG	IN FLOW	****	***	*****	***	
Area	SQ	SQ, FT	Acres	% Total				Jesign	Design Flows (CFS)	(S:	
A=		0	0.000	%0		Area	SQ. FT	Acres	Peak Di	Peak Discharge (100 YR)	(100 YR)
B=		0	0.000	%0		A=	0	0 0.000		0.00	
J	100	10370	0.238	75%		B=	0	00000		0.00	
=0	34	3400	0.078	75%		5	10370 0.238	0.238		0.68	
Total	13.	13770	0.316	100%		=Q	3400 0.078	0.078		0.34	
Weigh	Weighted E=	1.2	1.232		_	To	Total (CFS)			1.02	
	>	V360	V1440	140		V4days	1		V10days		
Cubic feet	14.	1413.7	1544.0	4.0		1674,4			1830.2		
Acre-ft	0,	0.03	0.04	34		0.04			0.04		
	***	**************************************	D*******	ROPOSED	CONDITION	****Sh	****	****	*****	*	П
Area	SOS	SO. FT	Acres	% Total			340	Jesign (Design Flows (CFS)	(5:	
A=		0	0.00	%0		Area	SO. FT	Acres	Peak Die	Peak Discharge (100 VR)	(100 YR)
===	13	1300	0.030		_		. 0	00000		0.00	(
J	63	6366	0.146			B=	1300	1300 0.030		90.0	
=	61	6104	0.140			J	6366	0.146		0.42	
Total	13	13770	0.316			ä	6104	6104 0.140		0.61	
Weigh	Weighted E=	П	1.394	ш	_	10	Total (CFS)			1.09	
	1		1								
	>	V360	V1440	140	,	V4days	T		V10days		
Cubic feet	155	1599.9	1833.8	3.8		2067.8			2347.6		
Arres #	c	200	Ġ	700		200			200		

I, Don Briggs, NMPE 14912, OF THE FIRMDon Briggs Engineering LLC, GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AN THE APPROVED PLAN DATED 12/11/2018. THE RECORD INFORMAT DOCUMENT HAS BEEN OBTAINED BYDavid Acosta, NMPS 21082, OF

I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROVISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPI TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELI OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECES VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAITHIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDE IT FOR ANY OTHER PURFOSE.

AND IN ACCORDANCE WITH THE DESIGN INTENT OF	
ATION EDITED ONTO THE ORIGINAL DESIGN OF THE FIRM CST Inc	SLOPE STABILAZATION SHALL BE USED ON SLOPES GREATER THAN A 3:1 SLOPE, PER MANUFACTURER RECOMMENDATIONS.
ROJECT SITE ON 8/14/2018 AND HAVE DETERMINED BY PRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS LIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT	4. MODIFICATIONS OR ADJUSTMENTS TO EXISTING DRAINAGE STRUCTURES/EROSION MITIGIATION IMPROVEMENTS SHALL BE DONE IN THE SAME MANNER AS THE ORIGINAL IMPROVEMENT.
ESSARILY COMPLETE AND IS INTENDED ONLY TO NINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON JENTY VERHICATION OF ITS ACCURACY REFORE USING	5. ALL SWPPP REQUIREMENTS SHALL BE ADHERED TO.
	6. ALL WORK ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUI STANDARDS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO WORK COMMENCIN
	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 RESPEC TO THIS SITE.
	9. THE SURVEY INFORMATION WAS PROVIDED BYCONSTRUCTION SURVEYS TECHNOLOGIE INC.
	10. FOR SITE DIMENSIONS, BUILDING AND INFRASTRUCTURE LOCATION REFER TO THE SITE PLAN.

1. THIS SITE IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE (REFER TO THE FIRM MAP 35001C0111G, EXCERPT ATTACHED). GENERAL NOTES:

2. RHD ENGINEERING, LLC RECOMMENDS THAT THE OWNER OBTAIN A GEOTECHNICAL REPORT PRIOR TO DESIGN OF BUILDING FOOTING/FOUNDATION.

SITE DURING

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON CONSTRUCTION.

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMIT PRIOR TO BEGINNING WORK.

CONTROL NOTES:

EROSION

THE.

4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS RESPONSIBILITY OF THE CONTRACTOR.

WIND AND

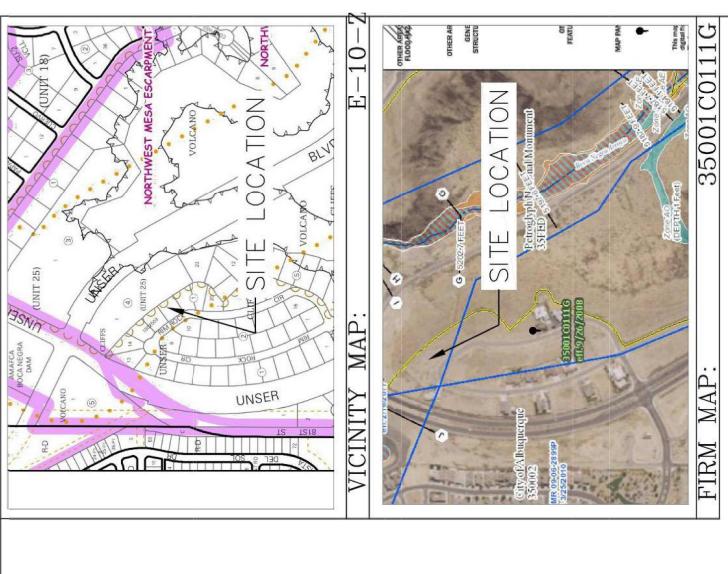
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

ATION WAS PROVIDED BYCONSTRUCTION SURVEYS TECHNOLOGIES, S TO BE UTILIZED AND A COPY PROVIDED TO THE CITY WHEN STRUCTION OF ANY GARDEN OR RETAINING WALLS, WITH RESPECT S, BUILDING AND INFRASTRUCTURE LOCATION REFER TO THE SITE

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. FEET Scale >



lock 4, Unit 19, Volcano Cliffs Sub's ALBUQUERQUE

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

5326.75 FNC

Curve # Length Radius | Delta Chord Direction Chord Length

Table

Curve

40.00"W

23.56 N32° 50'

 \Box

Line # Length Direction

Table

Parcel Line

 10.49
 100.00
 6.01
 N33° 13° 26"W
 10.48

 99.61
 1550.34
 3.68
 N34° 15° 40"W
 99.60

C2

 \Box

PROPOSED SPOT ELEVATION	TOP OF WALL ELEVATION 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	EXISITING WALL	PROPOSED BASIN BOUNDARY
29.10	29.10													

PROPERTY ON 12-04-18. NO PROPERTY ON 12-04-18. NO PROPERTY ON 12-04-18. I HAVE PERSONALLY INSPECTED THE EARTHWORK HAS BEEN PERFORMED TOPO SHOWN

V" POND =28.35) EL=27.60 325CF

-5'WIDE, 9"DEEP "V" TOP OF POND EL=2 BOTTOM OF POND E POND VOLUME = 32

5327.92/ CL RD 5328.18 TBC 5327.56

5328.06 BSW

AND gue Rin GRADING A DRAINAGE \mathcal{RHD} 4305 6815 Title

Richard Dourte ENGINEER'S SEAL

DATE

DRAWN BY

oad \mathcal{L} Rock PLAN

SHEET

of

JOB

LEGAL DESCRIPTION:

5'X15' EROSION PROTECTION (3"CLEAN COBBLE STONE ON FILTER FABRIC).

,5326.65 4RBC ELEGE

5325.59 NG

5326.43 FNC

5325.45 4RBC ELEGE

,5325.44 FNC

=5329.60 =5329.10

FENCE

06

35 X5326.51 YFNC 1.60

5327.94 NG

X5327.12

PROJECT BENCH MARK ELEVATION=5328.91

5328.91 TRM PK

5328.62 TBC 5328.04 FL

5328.44 SAS MH

5328.40 CL RD

12/11/18 Richard Dourte P.E. #10854

X5327.47 XCL MON2005PLS 14733 5327.88 TBC 5327.27 FL 5327.70/ CL_RD 5327.98_/ TBC 5327.39 FL 5327.88 CL MON 2005 PS 14733 I, DAVID P ACOSTA, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21082, DO HEREBY CERTIFY THAT THIS AS-BUILT SURVEY WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO 08-02-19

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

PROPERTY LINE

LOT

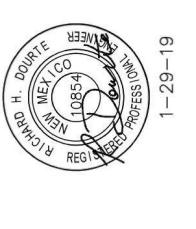
So con

5328.20 TBC 5327.63 FL

RIMI.

CONSTRUCT 20'+ DRIVEWAY AND SDWK PER STD DWGS 2405,2525&2430

5328.25 CL RD 5328.42 TBC 5327.82 FL



GRADE

GRADE

 ANY GARDEN WALL/RETAINING WALL IS TO BE BUILT ON-SITE (DESIGN OF THE GARDEN WALL/RETAINING WALL IS BY OTHERS).
 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. FOOTING FOR WALL TO BE LOCATED ONSITE, OTHERWISE A WRITTEN LETTER OF APPROVAL FROM ADJACENT/IMPACTED PROPERTY OWNER IS REQUIRED. GARDEN WALL/RETAINING WALL DETAIL