CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



Mayor Timothy M. Keller

January 4, 2021

Don Briggs, P.E. Don Briggs Engineering LLC 5324 Oakledge Ct. NW Albuquerque, New Mexico 87120

RE: Lot 25 Block 6, Volcano Cliffs Unit 18, SAD 228 6519 Pato Rd. NW Grading and Drainage Plan Engineers Stamp Date 12/29/2020 (D10D003M25)

Dear Mr. Briggs,

PO Box 1293 Based upon the information provided in your submittal received 6/29/2020, this plan is approved for Pool Permit.

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

Sincerely,

NM 87103

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



City of Albuquerque

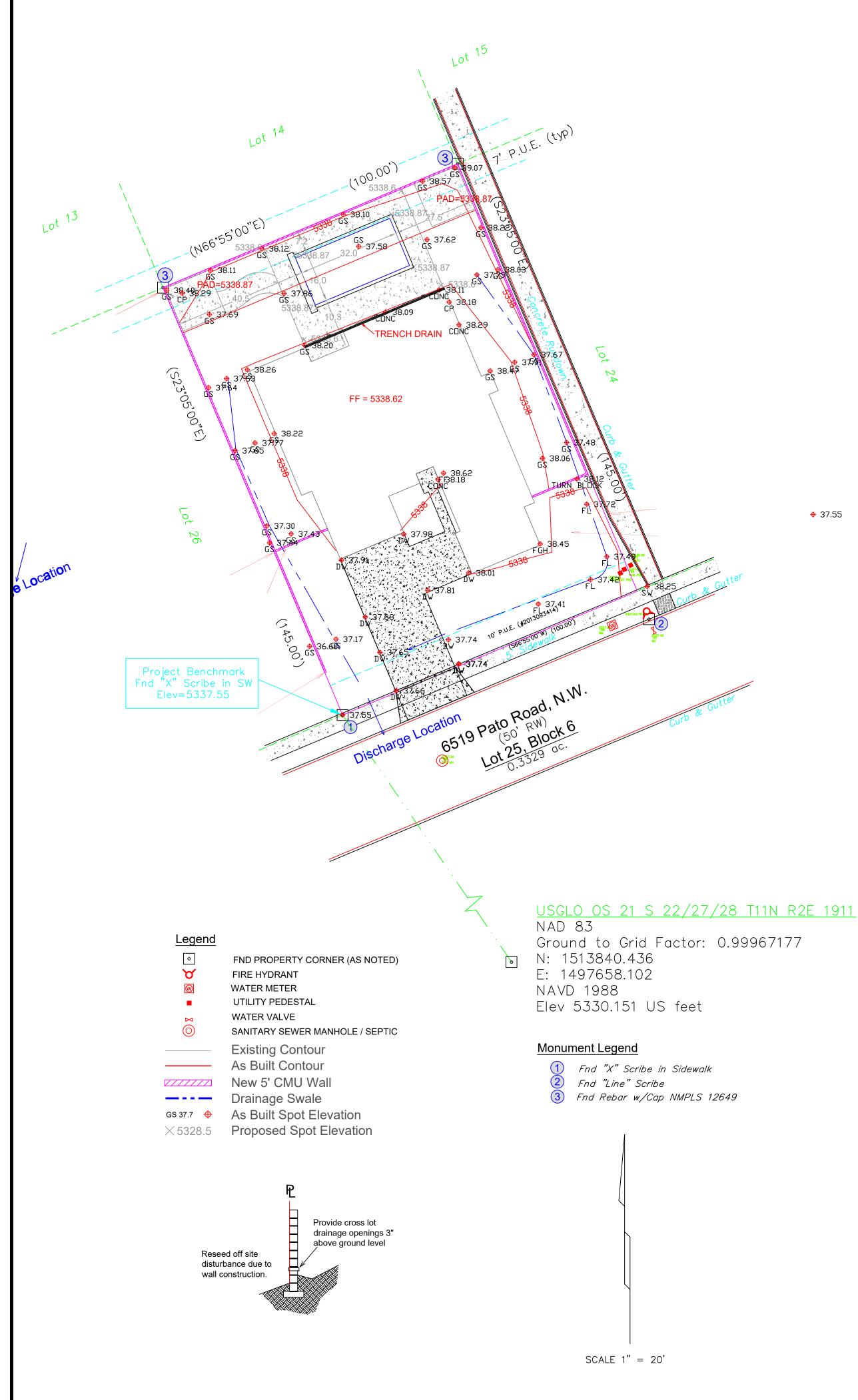
Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title:	Building	Permit #: Hydrology File #:
DRB#:	EPC#:	Work Order#:
Legal Description:		
City Address:		
Applicant:		Contact:
Address:		
		E-mail:
Owner:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
TYPE OF SUBMITTAL: PLAT	(# OF LOTS)	_ RESIDENCE DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL?:	Yes	No
DEPARTMENT: TRAFFIC/ TR	ANSPORTATION	HYDROLOGY/ DRAINAGE
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTI PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT I ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYO TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	PERMIT APPLIC UT (TCL)	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 APPROVAL AVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR FLOODPLAIN DEVELOPMENT PERMIT

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:



DRAINAGE NARRATIVE

This grading & drainage plan was prepared to support a building permit application for a new residence located at 6519 Pato Rd. NW. A review of the City Hydrology records indicate development of this property is governed by the Drainage Report for SAD 228 (D10-D003). This report indicates allowable land treatment values of 0% A, 10% B, 40% C, and 50% D. If developed discharge rates exceed what is allowable using these land treatment values, mitigation measures will be required. This plan was prepared using the hydrology methodology presented in Chapter 22.2 of the City of Albuquerque's Development Process Manual (abbreviated method).

The site is a 0.33 acre parcel located in Precipitation Zone 1 and Floodzone X (Unshaded). It slopes from the east to the west at about 5%. The site accepts runoff from the property to the west.

The hydrology analysis indicates the developed conditions will slightly increase discharge rates over what is allowed so mitigation measures are provided in the form of a water quality retention pond. All onsite flows are directed through the pond and front yard landscaping then to the street.

As water quality retention ponding was not provided with the construction of the subdivision, water quality ponding is required for this development. Water quality ponding is provided in the front yard landscaping.

NOTE:

1. Pad Certification is required prior to issuance of Building Permit. 2. A final inspection by Hydrology is required before a Certificate of Occupancy

is released.

3. Provide openings in CMU wall 3" above ground to allow cross lot drainage.

GENERAL NOTES Contractor is responsible for utility spots and controlling sediment deposition and erosion during construction.

A concrete washout bin must be provided as per City of Albuquerque MS4 Permit requirements.

All disturbed area due to construction must be reseeded or landscaped following construction.

					logy Calculations 9 Pato Rd. NW		
Precipitation 100 yr 6 hr St Basin Area =	orm	0.33		14501.124	sq ft		Determined by DB
Allowable - S Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	Comments
А	0.00%	0.00	0.44	1.29	0.00	0.00	Natural Ground
В	10.00%	0.03	0.67	2.03	0.00	0.07	Landscaped Areas
С	40.00%	0.13	0.99	2.87	0.01	0.38	Compacted earth
D	50.00%	0.17	1.97	4.37	0.03	0.73	Impervious Areas
TOTAL	100.00%	0.33	1.45		0.04	1.18	
				1.00	1749.80	cu ft	
Proposed	0.33 ac.			14501.124 sq ft			Determined by DB
Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	Comments
		-	. /				

				()	(0.0/0.0.)		()		
	А	0.00%	0.00	0.44	1.29	0.00	0.00	Natural Ground/Pond	
	В	8.28%	0.03	0.67	2.03	0.00	0.06	Landscaped Areas	
	С	38.08%	0.13	0.99	2.87	0.01	0.36	Compacted earth	
	D	53.64%	0.18	1.97	4.37	0.03	0.78	Impervious Areas	
TC	DTAL	100.00%	0.33	1.49		0.04	1.20		
						1799.63	cu ft		

1799.63 -1749.80 49.83 cu ft. PONDING REQUIRED

Water Quality Retention Volume = 0.34" x 7779.00 sq ft = 220.41 cu ft. 162.35 cu ft Water Quality Retention Volume Provided =

PONDING REQUIREMENT =

ELEVATION	AREA	AVE AREA	DEPTH	VOLUME	CUMULATIVE VOLUME	COMMENTS
(ft)	(sq ft)	(sq ft)	(ft)	(cu ft)	(cu ft)	
5336.50	0.00					
		347.05	0.50	173.53	173.53	
5337.00	694.11					
MAX VOLUM	E				173.53	

37.55

