Planning Department Brennon Williams, Director



Mayor Timothy M. Keller

June 9, 2021

Ron Hensley, P.E. THE Group 300 Branding Iron Rd. SE Rio Rancho, NM 87124

RE: SAMS Academy 6441 Ventana Rd. N.W. Grading & Drainage Plan Engineer's Stamp Date: 05/22/21 Hydrology File: A10D010

Dear Mr. Hensley:

PO Box 1293
Based upon the information provided in your submittal received 05/25/2021, the Grading & Drainage Plan is not approved for Building Permit, Grading Permit, and for action by the DRB on Site Plan for Building Permit. The following comments need to be addressed for approval of the above referenced project:

NM 87103

www.cabq.gov

1. Sheet C1. Please just show the building outline. I do not need to see the rooms inside the building on the Grading & Drainage Plan. (See image on Comment #2 below)

2. Sheet C1. Please show the curb along the proposed sidewalk next to the building. This needs to look like all the other curbs that you have. With only a single line, it appears that the sidewalk is at the same elevation of the asphalt.



Planning Department Brennon Williams, Director



3. Sheet C1. What is this area at the northwest corner of the proposed building? If part of the building, than see comment #2. If concrete, than please provide a few grade points and label it.



4. Sheet C1. Please show and label the existing asphalt trail along Irving Blvd. Also please note that there will be no grading within the R.O.W. so please terminate the grades at the property line at the same existing grade line.



5. Sheet C1. Going off the proposed grades, there are six drainage areas with their own discharge points. (See photo below). Also please check with the architect to where the building's downspouts will be so that you can better determine what impervious area needs to be included. I have labeled them A - F. I will start off with the easiest drainage area E (the drive pad on Irving Blvd). This area is mainly from the waterblock to the property line and is mostly impervious which can freely discharge to Irving. Drainage area A (this is mostly type C but may have some of the building impervious runoff) has a point discharge into the City's Open Space property. This will need to detain the difference between the existing runoff and the proposed runoff onto this property. Drainage area B appears to be a portion of a courtyard within the building which does go to what appears to be a stormwater quality pond but this appears to then discharge down the south side of the property to Ventana Rd. This area will need to meet the allowable discharge rate of 3.93 cfs/ac. Since most of this area is type C I think it may be able to

- PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Planning Department Brennon Williams, Director



Mayor Timothy M. Keller

achieve this. Drainage area D appears to sheet drain to Ventana Rd. This area will need to meet the allowable discharge rate of 3.93 cfs/ac. Since most of this area is type C I think it may be able to achieve this. Drainage area C is the biggest area but also is mostly impervious. Since this area needs to meet the discharge rate of 3.93 cfs/ac, I believe that the detention pond may not be big enough. And lastly drainage area F is entirely impervious and there is no stormwater quality for this drainage area and if this entire site is to freely discharge into Ventana Rd., than the discharge rate that drainage area C can add to this will have to be calculated by adding the drainage area C and F together to determine the allowable discharge and then subtract the free discharge of drainage area F. Please correct all calculations showing these six drainage area and show the proposed drainage map with the drainage areas as well, since this also looks to have at least two area on it, on draining onto the City's Open Space and the other onto Ventana Rd.



- 6. Sheet C1. Please add the grade point at the east waterblock of the drive on Irving Blvd.
- Sheet C1. Please provide the drainage calculations for the detention pond for drainage area C as outlined in Development Process Manual (DPM) (signed 06/08/20) Article 6-2(a).
- 8. Sheet C1. Please provide the weir calculations, per DPM Chapter Article 6-16(A), for the curb cuts and sidewalk culverts. A coefficient of 2.7 is typically used for the weir equation $Q = CLH^{2/3}$.

Planning Department Brennon Williams, Director



Mayor Timothy M. Keller

- 9. Sheet C2. Sections 1, 2, 3, & 4 provide no additional information to the contractor. Please remove. In this space, you may need to add both the existing drainage areas and proposed drainage areas here.
- 10. Sheet C2. Detail #1 Outfall Structure. Please label the elevations at the corners of the walls. Please show the flowline (as a dash line) with the flowline elevation at both ends. Please call out see wall section this sheet. Please show the swale from the detention pond and label it. The section for this does not give any additional information if the above info is shown.
- 11. Sheet C2. Detail #6 Outfall Wall Section. Please change this to Detail #2 and change the reference to it on Sheet C1.
- 12. As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, <u>jhughes@cabq.gov</u>, 924-3420) 14 days prior to any earth disturbance.

PO Box 1293

13. Standard review fee of \$300 (for DRB Site) will be required at the time of resubmittal.

Albuquerque If you have any questions, please contact me at 924-3995 or <u>rbrissette@cabq.gov</u>.

Sincerely,

NM 87103

Renée C. Brissette

www.cabq.gov

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department



City of Albuquerque

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

DRB#:	
Legal Description: TRACT A-2 BULK LAND PLAT FOR TRACTS A-1 & A-2 (A REPLAT OFTRACT A, VENTANA RANCH) City Address: 6441 VENTANA RD. N.W.	
City Address: 6441 VENTANA RD. N.W.	
Applicant: The Group Contact: Ron Hensley	
Address: 300 Branding Iron Rd. SE, Rio Rancho, NM 87124	
Phone#: 505-410-1622 Fax#: E-mail: ron@thegroup.cc	
Owner: Rachel Mathew Development Contact: Steve Hernandez	
Address: 9320 Menaul Blvd. NE, ste. D	
Phone#: 505-228-1401 Fax#: E-mail: steve@dmcnm.com	
TYPE OF SUBMITTAL: PLAT (# OF LOTS) RESIDENCE DRB SITE 🔨 ADMIN SITE	
IS THIS A RESUBMITTAL?: Yes No	
DEPARTMENT: TRAFFIC/ TRANSPORTATION HYDROLOGY/ DRAINAGE	
Check all that Apply:	
TYPE OF APPROVAL/ACCEPTANCE SOUGH	ſ:
TYPE OF SUBMITTAL:	
ENGINEER/ARCHITECT CERTIFICATIONCERTIFICATE OF OCCUPANCY	
PAD CERTIFICATIONPRELIMINARY PLAT APPROVAL	
CONCEPTUAL G & D PLANSITE PLAN FOR SUB'D APPROVAL	
ORADING FLAN SITE PLAN FOR BLDG. PERMIT APPROV DPAINAGE MASTER PLAN	1 Γ
DRAINAGE MASTER LEANFINAL PLAT APPROVAL	-11-
ELOODPLAIN DEVELOPMENT PERMIT APPLIC	3E
ELEVATION CERTIFICATE	
CLOMR/LOMR SO 10 ADDOVAL	
TRAFFIC CIRCULATION LAYOUT (TCL)	
TRAFFIC IMPACT STUDY (TIS) GRADING/ PAD CERTIFICATION	
OTHER (SPECIFY) WORK ORDER APPROVAL	
PRE-DESIGN MEETING? CLOMR/LOMR	
FLOODPLAIN DEVELOPMENT PERMIT	
OTHER (SPECIFY)	

Ron Hensley

ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:

DRAINAGE INFORMATION

THE PROPOSED SITE IS AN UNDEVELOPED TRACT AT THE INTERSECTION OF IRVING BLVD. AND VENTANA RD. THAT HAS BEEN PREVIOUSLY GRADED ...

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0103H, DATED AUGUST 16, 2012 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN.

POND WILL BE CONTROLLED WITH A CHANNEL WER AND COMBINED WITH THE REMAINING RUNOFF FOR A PEAK FLOW OF 16.28 CFS.

WEIGHTED E =	∶Ea*Aa +	- Eb*Ab) + Ec*.	Ac + E	:d*Ad /	(Total	Area)	WHE	RE FOR 1	00-YEAR, 6-	-HOUR ST	ORM(Z(DNE 1)			
FLOW = Qa *	Aa + Qb	* Ab	+ Qc *	Ac +	Qd * Ad		·		Ea= 0. Eb= 0.	55 Qa= 1.54 73 Qb= 2.16		·				SITE DRAINAGE AS [
									EC = 0.1 Ed = 2.	24 Qd = 4.12						SITE DEPICTED HERE
	AREA	TREAT	MENT A	TREAT	MENT B	TREAT	MENT C	TREAT	ment d		VOLUME	FLOW	ALLOWED FLOW	CFS/AC	ALLOWED	WATER QUALITY RUN
BASIN	(sf)	%	sf	%	sf	%	sf	%	sf	WEIGHTED E	(cuft.)	(cfs)	(cfs)	(cfs)	(cfs/ac)	PRIOR TO DISCHARG
EXISTING	217800	100%	217800	0%	0	0%	0	0%	0	0.6200	11253	8.55	19.65	1.71	3.93	IMPERVIOUS AREA *
PROPOSED A	190179	26%	48954	17%	32636	0%	0	57%	108589	1.6273	25789	14.51	17.16	3.32	3.93	IMPERVIOUS AREA =
PROPOSED B	27621	0%	0	68%	18774	0%	0	32%	8847	1.2137	2794	1.77	2.49	2.79	3.93	REQUIRED VOLUME =





). N.W. N.W. N.W. N.W. N.W. N.W. N.M. N.M.	2. DUE TO POTENTIAL INCONSISTENCIES DURING PLAN REPRODUCTION, SCALING THE DRAWING TO VERIFY OR OBTAIN DIMENSIONS IS NOT RECOMMENDED.
-PROJECT ADDRESS- 6441 VENTANA RC ALBUQUERQUE,	-CLIENT'S NAME-
SITE DETAILS	-PROJECT NAME- SAMS ACADEMY

