# CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

December 3, 2024

David Aube Studio SW Architects 2101 Mountain Rd NW Albuquerque, NM 87104

#### RE: Albuquerque Collegiate Charter School Conceptual Grading and Drainage Plan Engineer's Stamp Date: 11/17/2024 Hydrology File: L09D032

Dear Mr. Aube:

Based upon the information provided in your submittal received 11/18/2024, the Conceptual Grading & Drainage Plan **is** approved for action by the Development Facilitation Team (DFT) on Site Plan for Building Permit.

## PO Box 1293 PRIOR TO BUILDING PERMIT:

- Albuquerque
- 1. Please submit a more detailed Grading & Drainage Plan to Hydrology for review and approval. This digital (.pdf) is emailed to <u>PLNDRS@cabq.gov</u> along with the Drainage Transportation Information Sheet.
- NM 87103As a reminder, if the project total area of disturbance (including the staging area and any work<br/>within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control<br/>(ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the<br/>Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days<br/>prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely, anthe Mart

Anthony Montoya, Jr., P.E. Senior Engineer, Hydrology Planning Department, Development Review Services



## **City of Albuquerque**

Planning Department Development & Building Services Division

### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title:	Hydrology File #
City Address, UPC, OR Parcel:	
Applicant/Agent:	Contact:
	Phone:
Email:	
Applicant/Owner:	Contact:
Address:	Phone:
Email:	
(Please note that a DFT SITE is one that need	ds Site Plan Approval & ADMIN SITE is one that does not need it.)
TYPE OF DEVELOPMENT: PLAT	(#of lots) RESIDENCE
DFT	SITE ADMIN SITE
RE-SUBMITTAL: YES NO	
DEPARTMENT: TRANSPORTA	TION HYDROLOGY/DRAINAGE
Check all that apply under Both the Type	of Submittal and the Type of Approval Sought:
TYPE OF SUBMITTAL:	<b>TYPE OF APPROVAL SOUGHT:</b>
ENGINEER/ARCHITECT CERTIFICA	TION BUILDING PERMIT APPROVAL
PAD CERTIFICATION	CERTIFICATE OF OCCUPANCY
CONCEPTUAL G&D PLAN	CONCEPTUAL TCL DFT APPROVAL
GRADING & DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
DRAINAGE REPORT	FINAL PLAT APPROVAL
DRAINAGE MASTER PLAN	SITE PLAN FOR BLDG PERMIT DFT
CLOMR/LOMR	APPROVAL
TRAFFIC CIRCULATION LAYOUT (7	SIA/RELEASE OF FINANCIAL GUARANTEE
ADMINISTRATIVE	FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT F APPROVAL	OR DFT GRADING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS)	SO-19 APPROVAL
STREET LIGHT LAYOUT	PAVING PERMIT APPROVAL
OTHER (SPECIFY)	GRADING PAD CERTIFICATION
omer(billen i)	WORK ORDER APPROVAL
	CLOMR/LOMR
	OTHER (SPECIFY)

DATE SUBMITTED: \_\_\_\_



#### I. PURPOSE AND SCOPE

THE PURPOSE OF THIS DRAINAGE PLAN IS TO PRESENT THE EXISTING AND PROPOSED DRAINAGE CONDITIONS FOR THE PROPOSED ALBUQUERQUE COLLEGIATE CHARTER SCHOOL. THE SITE IS LOCATED AT THE NORTH WEST CORNER OF SUNSET GARDENS SW, AND 90TH STREET, SW, IN SOUTHWEST ALBUQUERQUE. THE ZONE ATLAS PAGE FOR THE SITE IS L-09-Z.

#### **II. SITE DESCRIPTION AND HISTORY**

THE PROJECT SITE IS LOCATED ON THE NORTHWEST FORNER OF SUNSET GARDENS AND 90TH STREET SW.

THE SITE IS CURRENTLY UNDEVELOPED WITH PARTIALLY DEVELOPED STREETS TO THE EAST AND SOUTH. PARCELS TO THE NORTH AND WEST ARE DEVELOPED.

#### **III. COMPUTATIONAL PROCEDURES**

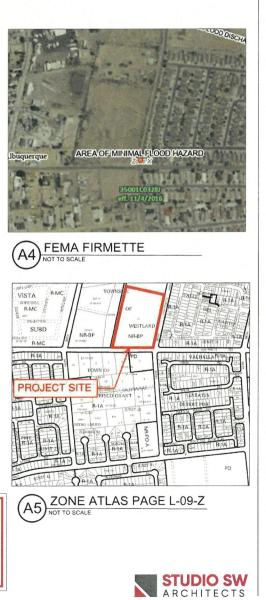
HYDROLOGIC ANALYSIS WAS PERFORMED UTILIZING THE DESIGN CRITERIA BASED ON CHAPTER 6, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL RELEASED 2020. TABLES WITHIN CHAPTER 6, WERE USED TO AID IN THE STUDY OF THE SITE HYDROLOGY.

#### **IV. PRECIPITATION**

THE STORM EVENT USED FOR THE FOLLOWING CALCULATIONS IS THE 100YR-24HR STORM. THE PROJECT SITE IS LOCATED IN ZONE 1 (WEST OF RIO GRANDE).

#### **V. EXISTING DRAINAGE CONDITIONS**

THE SITE IS CURRENTLY UNDEVELOPED GENERALLY DRAINS FROM THE WEST TO THE EAST. THE PARCELS TO THE NORTH AND WEST ARE FULLY DEVELOPED. NO OFF-SITE FLOW WERE IDENTIFIED DURING THE SITE VISIT.





SITE PLAN - DFT	
REVISION	DATE
DATE	11-17-24
PROJECT NO	
CONCEPTUA EXISTING	L
CONDITION	
DRAINAGE	
PLAN	
SHEET NO.	
CD-1	



#### **VI. PROPOSED DRAINAGE CONDITIONS**

THE PURPOSE OF THIS CONCEPTUAL GRADING AND DRAINAGE PLAN IS TO SHOW THE FULLY DEVELOPED SITE WILL HAVE SUFFICIENT PONDING TO RESTRICT FLOW TO BELOW HISTORIC RATES AS WELL AS TO PROVIDE THE NECESSARY WATER QUALITY VOLUME.

THE SITE GENERALLY DRAINS FROM WEST TO EAST. AS SERIES OF DRAINAGE PONDS WILL BE CONSTRUCTED ALONG THEE SOUTHERN AND EASTER BOUNDARIES. EACH POND WILL HAVE A MAXIMUM DEPTH OR 18" DEEP.

OVERALL VOLUME AVAILABLE IN PONDS A-E IS 24,207 CUBIC FEET

WITH THIS PONDING VOLUME THE PEAK FLOW RATE WILL BE REDUCED FROM THE INCOMING RATE OF 27.65CFS DOWN TO 11.00CFS.

#### **VII. CONCLUSIONS**

THIS PLAN IS SHOWING THE FULL BUILDOUT FOR THE CAMPUS. PONDS HAVE BEEN GREATED TO CONTAIN THE FULL WATER DUALITY VOLUME OF 6,4580F. PEAK FLOW RATE WILL BE REDUCED FROM 17.650FS TO 110FS AFTER THE WATER IS ROUTED THROUGH THE STORM WATER MANAGEMENT PONDS.

#### MATERIAL LEGEND ASPHALT PAVEMENT

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HEAVY DUTY CONCRETE

CONCRETE SIDEWALK

RIPRAP EROSION PROTECTION,

5056666

EARTHEN POND, SEE GRADING AND DRAINAGE PLANS (SHEET C-201 AND C-202)

LANDSCAPING AREA.

Albuqueruge Collegiste Cherter Schoo

1 Per COA DPM Chapter 6

#### **Drainage Summary**

24xx ACCS 08/15/24

Existing summary

Basin Name	Ex Basin 1	
Area (sf)	350684.85	
Area (acres)	8.05	
%A Land treatment	0	
%B Land treatment	100	
%C Land treatment	0	
%D Land treatment	0	
Soil Treatment (acres)		
Area "A"	0.00	
Area "B"	8.05	
Area "C"	0.00	
Area "D"	0.00	
Excess Runoff (acre-feet)		
100yr. 6hr.	0.4897	acre-ft.
10yr. Bhr.	0.1744	acre-ft.
2yr. 6hr.	0.0067	acre-ft.
100yr. 24hr.	0.4897	acre-ft.
Peak Discharge (cfs)		
100 yr.	17.39	cfs
10yr.	6.52	cfs
2yr.	0.16	cfs
Proposed summary		
Basin Name	Overall Site	
Area (sf)	350684.85	
Area (acres)	8.051	
%A Land treatment		
%B Land treatment	35	
%C Land treatment		
%D Land treatment	65	
Soil Treatment (acres)		
Area "A"	0.00	
Area "B"	2.82	
Area "C"	0.00	
Area "D"	5.23	
Excess Runoff (acre-feet)		
100yr. 6hr.	1.1482	acre-ft.
10yr. 6hr.	0.6846	acre-ft.
2yr. 6hr.	0.4035	acre-ft.
100yr. 24hr.	1.3575	acre-ft.
100yr, 10day	1.9026	acre-ft.

27.65 15.73 8.22

ch

Peak Disc 100 yr. 10yr.







ARCHITECT/ ENGINEER



# COLLEGIATE SCHOOL ALBUQUERQUE CHARTER SUNSET GARDENS AND 90TH ALBUQUERQUE, NM

NN NN

#### SITE PLAN - DFT

REVISION	DATE
DATE	11-17-24
PROJECT NO	11-17-24
CONCEPTUAL	
DEVELOPED	
CONDITIONS	
DRAINAGE	
PLAN	
SHEET NO.	
CD-2	