

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

March 31, 2026

Alvin S. Medina, P.E.
AECOM
6501 Americas Parkway NE
Albuquerque, NM 87110

**RE: SJCWTP – Warehouse Complex
Grading & Drainage Plan and Drainage Report
Engineer's Stamp Date: 10/6/2025
Hydrology File: F16D014
Case # HYDR-2026-00115**

Dear Mr. Medina:

PO Box 1293

Based upon the information provided in your submittal received 3/26/2026, the Grading and Drainage Plans are approved for Grading Permit and Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

NM 87103

1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

www.cabq.gov

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, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

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

Sincerely,

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

Warehouse Complex Drainage Report

Prepared for: ABCWUA

AECOM Project Number:

January 2025

**City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED**

DATE: 3/31/2026
BY: *Justin M. [Signature]*
HydroTrans # F16D014

THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS FOR ERRORS OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS. SUCH APPROVED PLANS/REPORTS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

THE APPROVAL OF THESE PLANS/REPORTS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



Imagine it.
Delivered.





This report, entitled Warehouse Complex Drainage Report, was prepared by me or directly under my supervision.

Scott Medina



Scott Medina, PE

New Mexico PE Number 16454



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Attachments

Attachment 1: Supporting Documents

Attachment 2: Hydrologic Calculations



Purpose

The purpose of this report is to analyze the existing and proposed hydrologic conditions and drainage patterns for the proposed Water Authority Warehouse Complex. As a result of the analysis, the report will provide needed drainage improvements to meet the stormwater and drainage requirements for the City of Albuquerque.

Introduction

Project Location

The project area is located in the City of Albuquerque, at northwest corner of Chappell Dr. and Mission Ave., next to the Chama Water Treatment plant, see below (Figure 1):

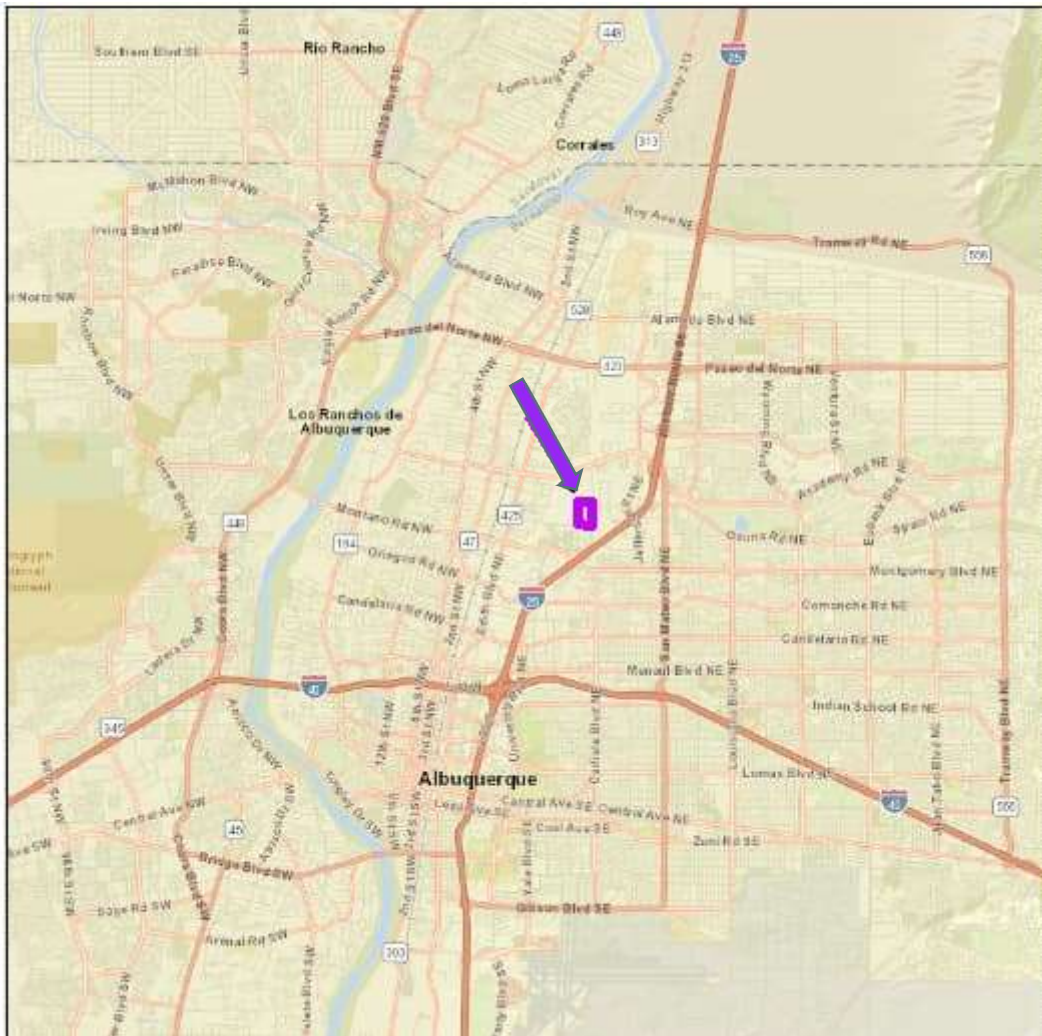


Figure 1: Project Location



The Warehouse Complex is located in Bernalillo County at the north of Interstate 25 and Montgomery Blvd. The adjacent property to the west is Chama Water Treatment Plant, and the adjacent property to the north is Vulcan Asphalt Plant, both do not contribute any flow to the project site.

Floodplain

This project is not located in a Special Flood Hazard Area per FEMA FIRM Panel 35001C0138H, effective on 8/16/2012 (**Figure 2**). This project is designed to result in no adverse impact to downstream floodplains.

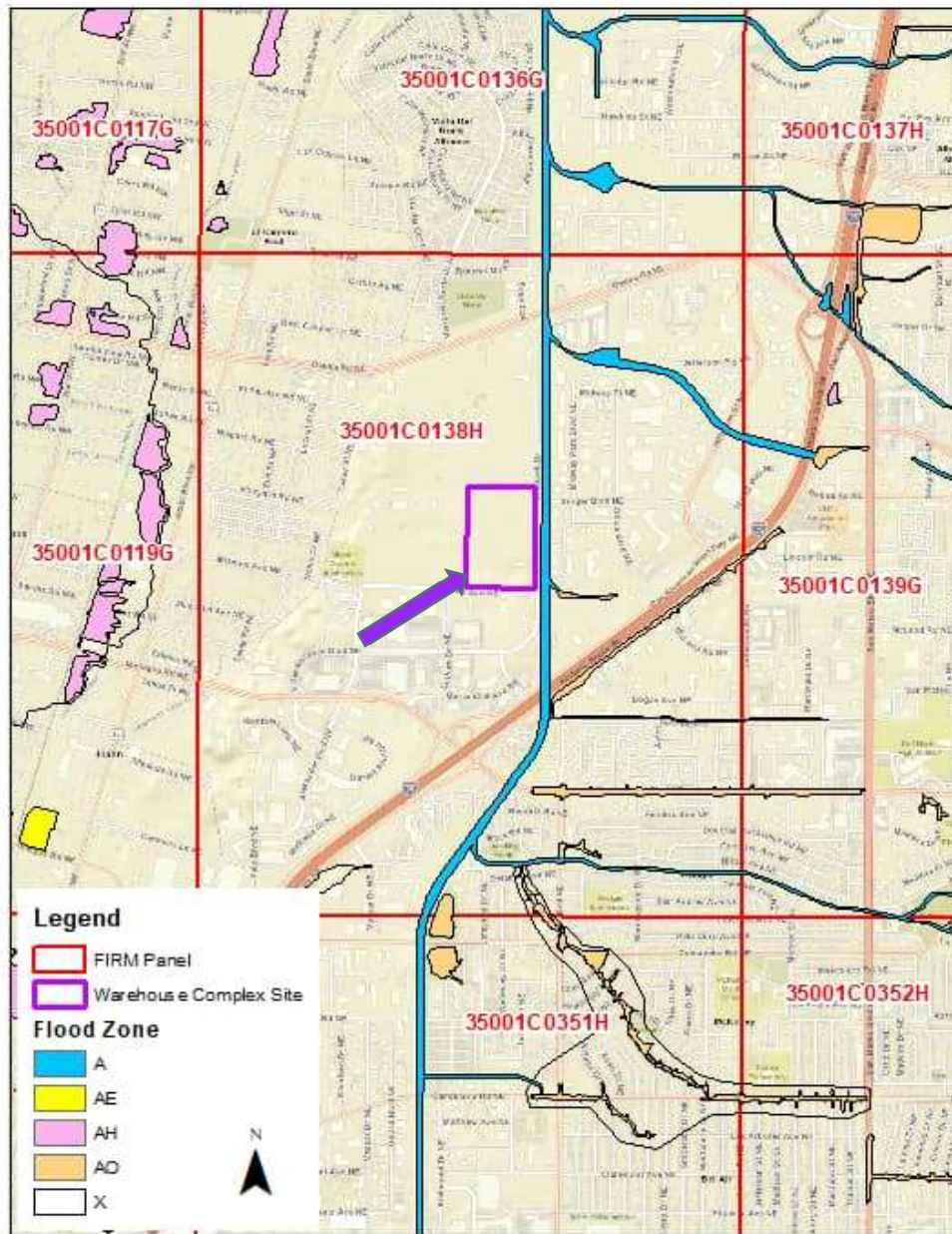


Figure 2: FIRM Panel Map for Project Location



Existing Hydrology

The existing Warehouse Complex site resides on a 44.2 acres lot. The north diversion channel is located immediately east of the Warehouse Complex, which diverts all stormwater from the east. In addition, the adjacent roadways (Mission Avenue and Chappel Blvd) contain the stormwater for their respective drainage areas. As a result, there is no off-site stormwater runoff draining through the Water Authority property boundary from surrounding properties. All storm water collected inside the area is contained in a retention pond sized for the 10-day, 100-year storm event. The grading plan for the proposed Warehouse Complex reduces storm water runoff below undeveloped conditions.

AECOM conducted multiple site inspection of the Warehouse Complex property throughout the grading of the property during 2024. The existing site matches the approved grading plan including proper retention pond volumes and drainage swale capacities.

The existing drainage basins are illustrated in Figure 3 and in greater detail as Attachment 2-1. Hydrologic inputs are provided in Attachment 2-2.

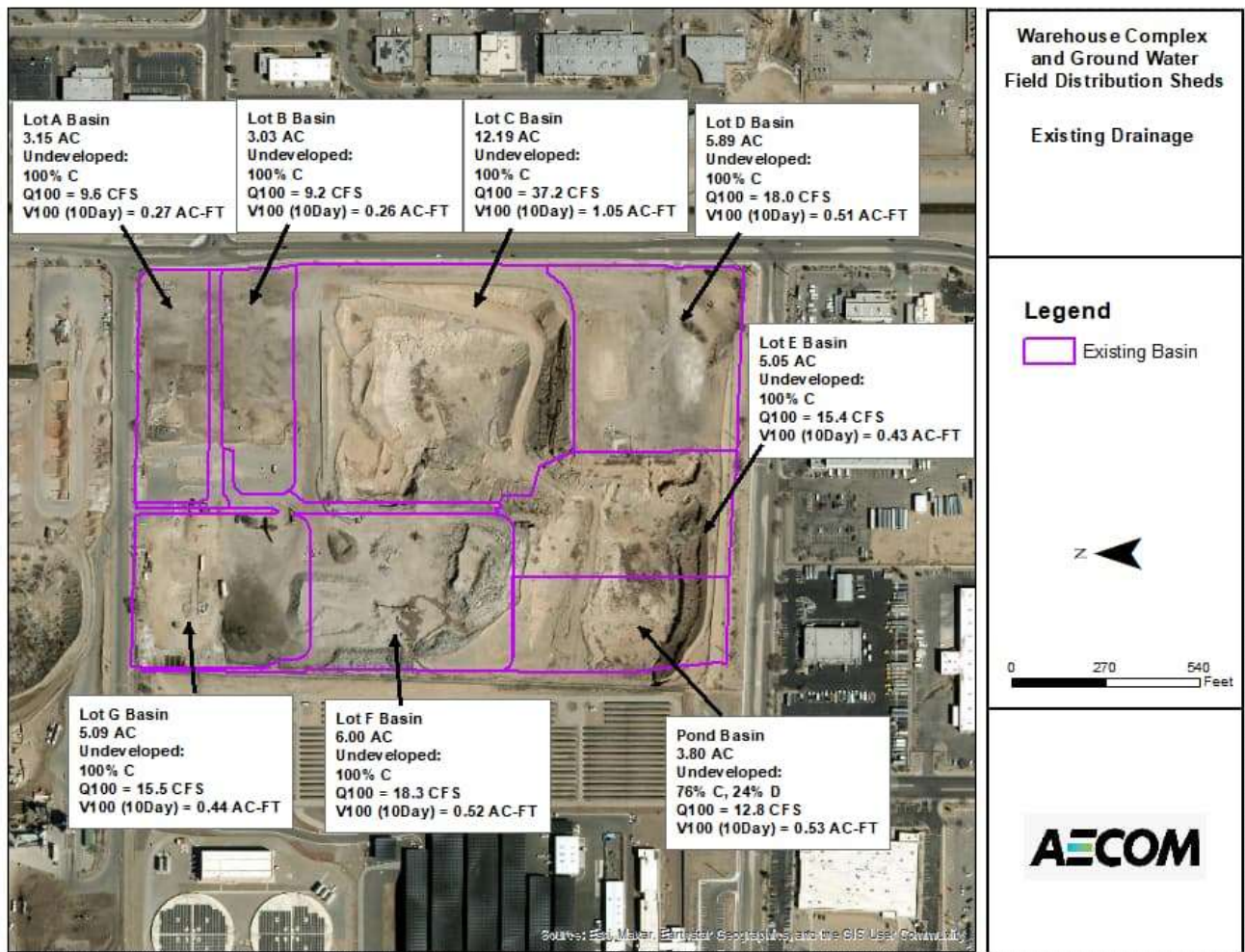


Figure 3: Existing drainage conditions



The existing hydrology shown in **Figure 3** is described below:

- Majority of the basins are land treatment C and undeveloped. The existing drainage are moderate slope with little to no desert scrub. Runoff was self-contained within the basins.

Proposed Project

This project will consist of one alternative that include a combination of grading, berm construction, ponding, embankment, and/or drainage improvements for the existing Warehouse Complex. Drainage patterns will be modified to discharge into ponds and/or swales.

Hydrology

The purpose of the existing and proposed hydrology is to demonstrate that the proposed development will increase on-site capacity and reduce runoff at discharge locations in a way that positively impacts adjacent properties.

Hydrology Design Data

Elevation data with 1-2ft vertical accuracy was used for the offsite contributing drainage areas. All elevation data herein is presented in NAVD 88; horizontal data is in NAD83/New Mexico State Plan Coordinate System Central FIPS (US Feet). The following hydrologic inputs and assumptions were used:

- Runoff Method: SCS Curve Numbers w/ CABQ Land Treatments (A, B, C, & D)
- Storm: 100-year, 24-hour storm with peak at hour 12
- Precipitation Data: NOAA Atlas 14, at centroid of study area, see **Attachment 1-1**

Proposed Improvements

Proposed grading and drainage provides improvements are illustrated in **Figure 4** and in greater detail as **Attachment 1** and **Attachment 2**.

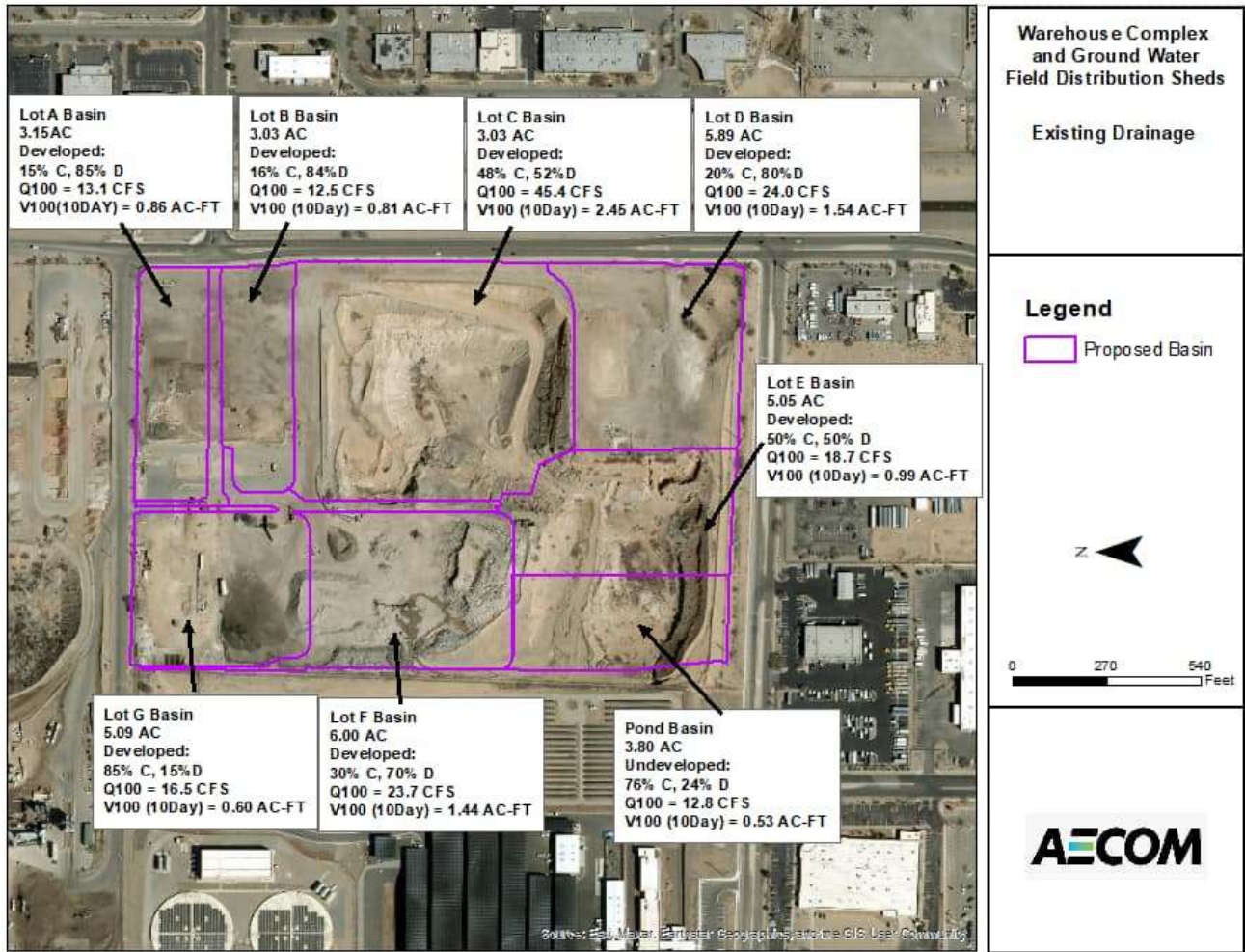


Figure 4: Proposed drainage patterns (Alternative 1)

Storm Water Quality

The existing and proposed hydrology of the property required total retention of all stormwater. Therefore, the site will discharge any storm water of site required water quality measures or discharge restrictions.



References and Data Sources

City of Albuquerque, 2020. "Albuquerque Development Process Manual: Chapter 6, Drainage, Flood Control, and Erosion Control". 2020.

United States Department of Commerce, National Oceanic and Atmospheric Administration, 2011. "NOAA Atlas 14, Volume 1, Version 5". Retrieved April 2021.



Attachment 1

Supporting Documents

1-1 NOAA 14 Precipitation



Attachment 2

Hydrologic Calculations

2-1 Existing and Proposed Drainage Calculations

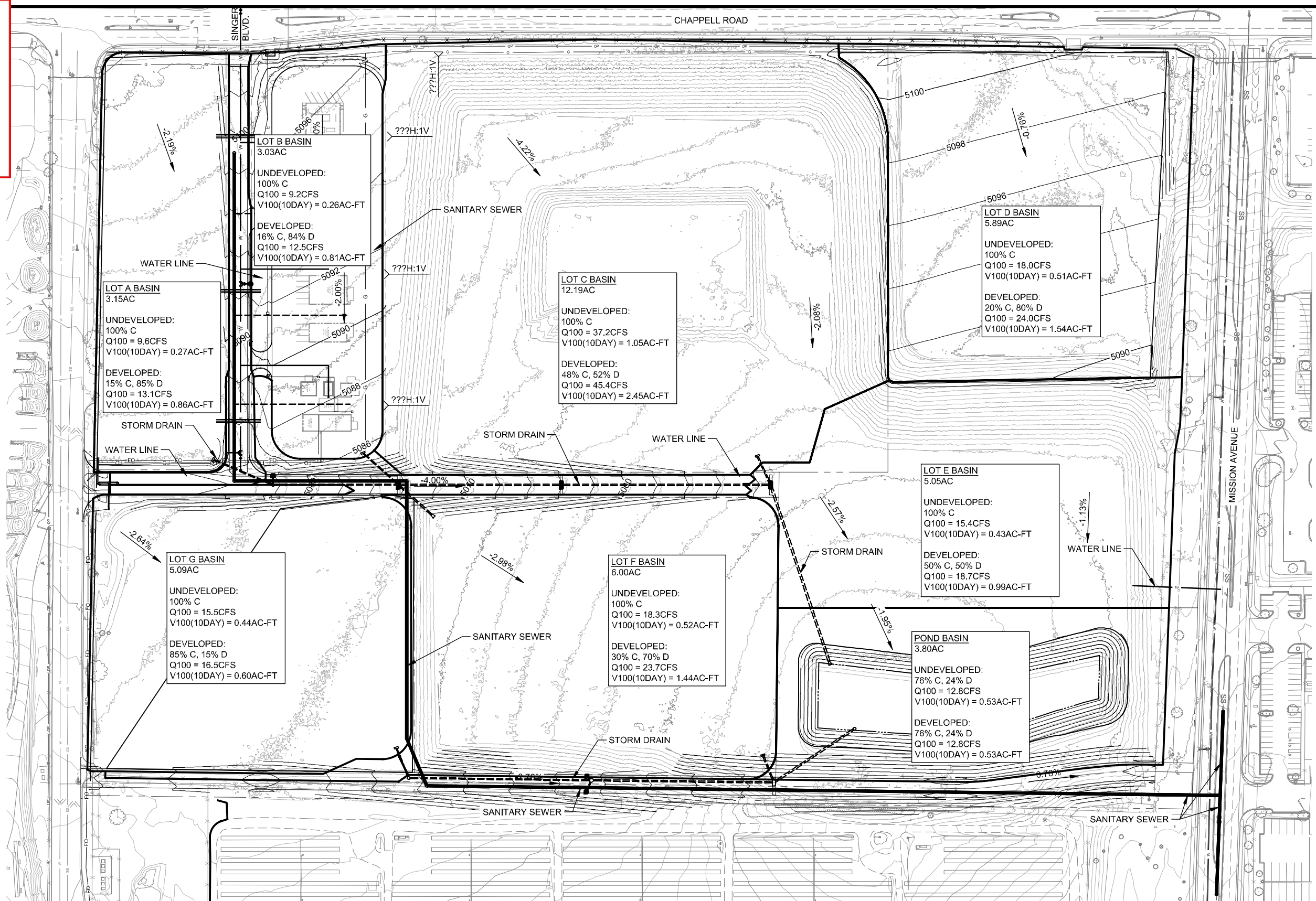
2-2 Site Utilities Master Plan

Basin Name	Basin Area (Acres)	Undeveloped						Developed					
		Land Treatment Percent By Type						Land Treatment Percent By Type					
		A	B	C	D	Q100 (cfs)	V100 (10Day) ac-ft	A	B	C	D	Q100 (cfs)	V100 (10Day) ac-ft
Lot A	3.15	0%	0%	100%	0%	9.6	0.27	0%	0%	15%	85%	13.1	0.86
Lot B	3.03	0%	0%	100%	0%	9.2	0.26	0%	0%	16%	84%	12.5	0.81
Lot C	12.19	0%	0%	100%	0%	37.2	1.05	0%	0%	48%	52%	45.4	2.45
Lot D	5.89	0%	0%	100%	0%	18.0	0.51	0%	0%	20%	80%	24.0	1.54
Lot E	5.05	0%	0%	100%	0%	15.4	0.43	0%	0%	50%	50%	18.7	0.99
Lot F	6.00	0%	0%	100%	0%	18.3	0.52	0%	0%	30%	70%	23.7	1.44
Lot G	5.09	0%	0%	100%	0%	15.5	0.44	0%	0%	85%	15%	16.5	0.60
Pond Basin	3.80	0%	0%	76%	24%	12.8	0.53	0%	0%	76%	24%	12.8	0.53

2-1 Existing and Proposed Drainage Tabulation

DATE: 3/31/2026
 BY: *[Signature]*
 HydroTrans # F16D014

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SITE UTILITIES MASTER PLAN
 Scale 1"=80'



2309.023

NO.	DATE	REVISION NO. & DESCRIPTION	BY	SCALE:	DESIGN TRACKING
				ATTENTION 0 1/2" 1" GRAPHIC SCALE THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)	DESIGNED BY: SM DATE: DRAWN BY: JSH DATE: CHECKED BY: REH DATE: CROSS CHK'D BY: DATE: APPROVED BY: DATE: MAPS/RECORDS INFO.

AECOM Delivering a better world
 One Park Square, 6501 Americas Pkwy NE,
 Suite 900 Albuquerque, New Mexico 87110
 (505)-855-7500

AS BUILT INFORMATION	
CONTRACTOR	---
WORK STAKED BY	---
INSPECTOR'S ACCEPTANCE BY	---
INSPECTOR'S NAME	---
FIELD VERIFICATION BY	---
DRAWINGS CORRECTED BY	---

ENGINEER'S SEAL

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY
 TITLE: WAREHOUSE COMPLEX AND GROUND WATER & FIELD DISTRIBUTION SHEDS
SITE UTILITIES MASTERPLAN
 WATER AUTHORITY CONSTRUCTION PROJECT NO. 2323.031YY ZONE MAP NO. DRAWING C-05