CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



April 24, 2025

Robert Fierro, P.E. Fierro & Company 3201 4th Street NW, Suite C Albuquerque, NM 87107

RE: Event Center

1611 Airtech Ct. SE

Grading & Drainage Plans

Engineer's Stamp Date: 4/24/2025

Hydrology File: N15D017

Dear Mr. Fierro:

PO Box 1293

Based upon the information provided in your submittal received 4/24/2025, the Grading & 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.

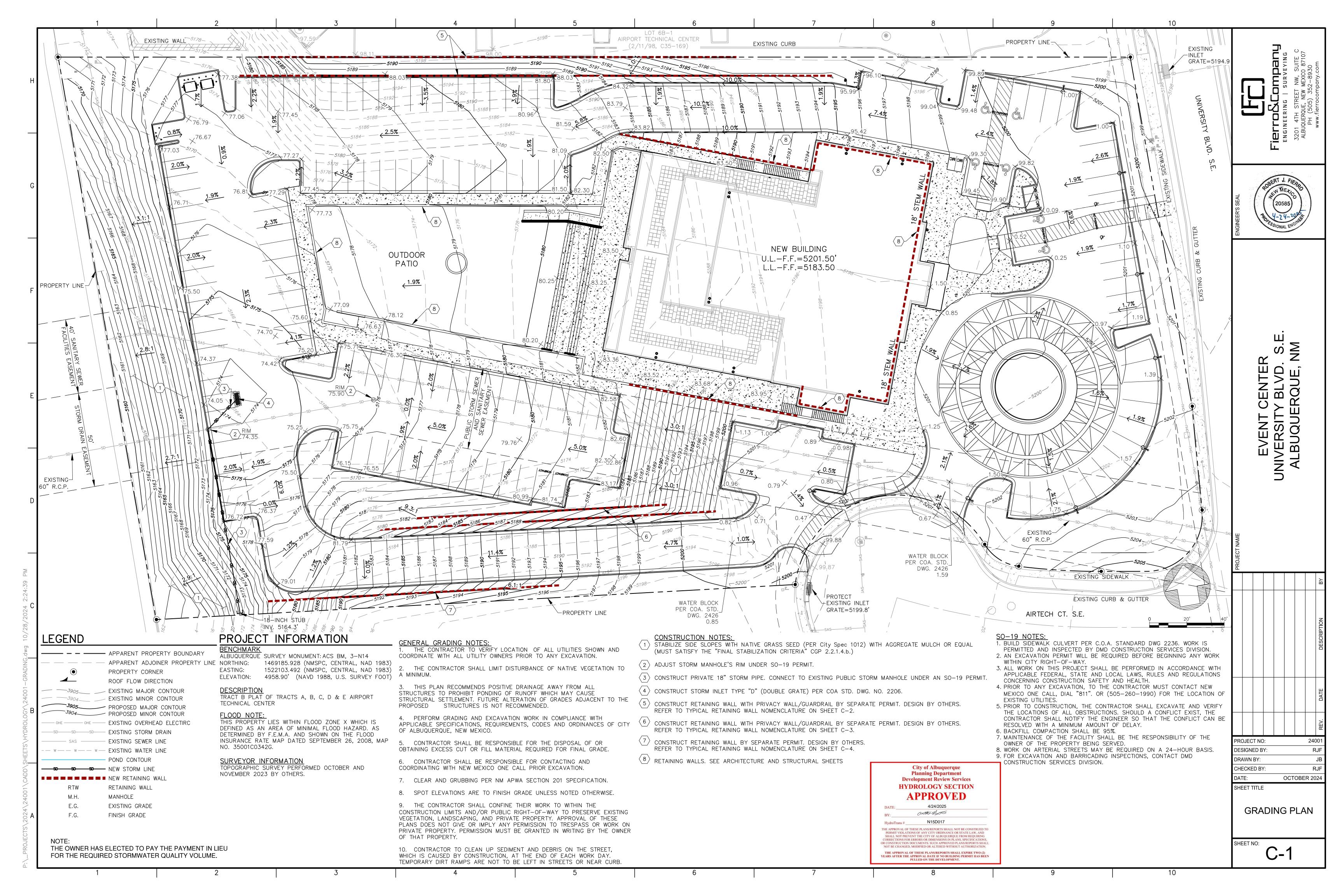
Sincerely,

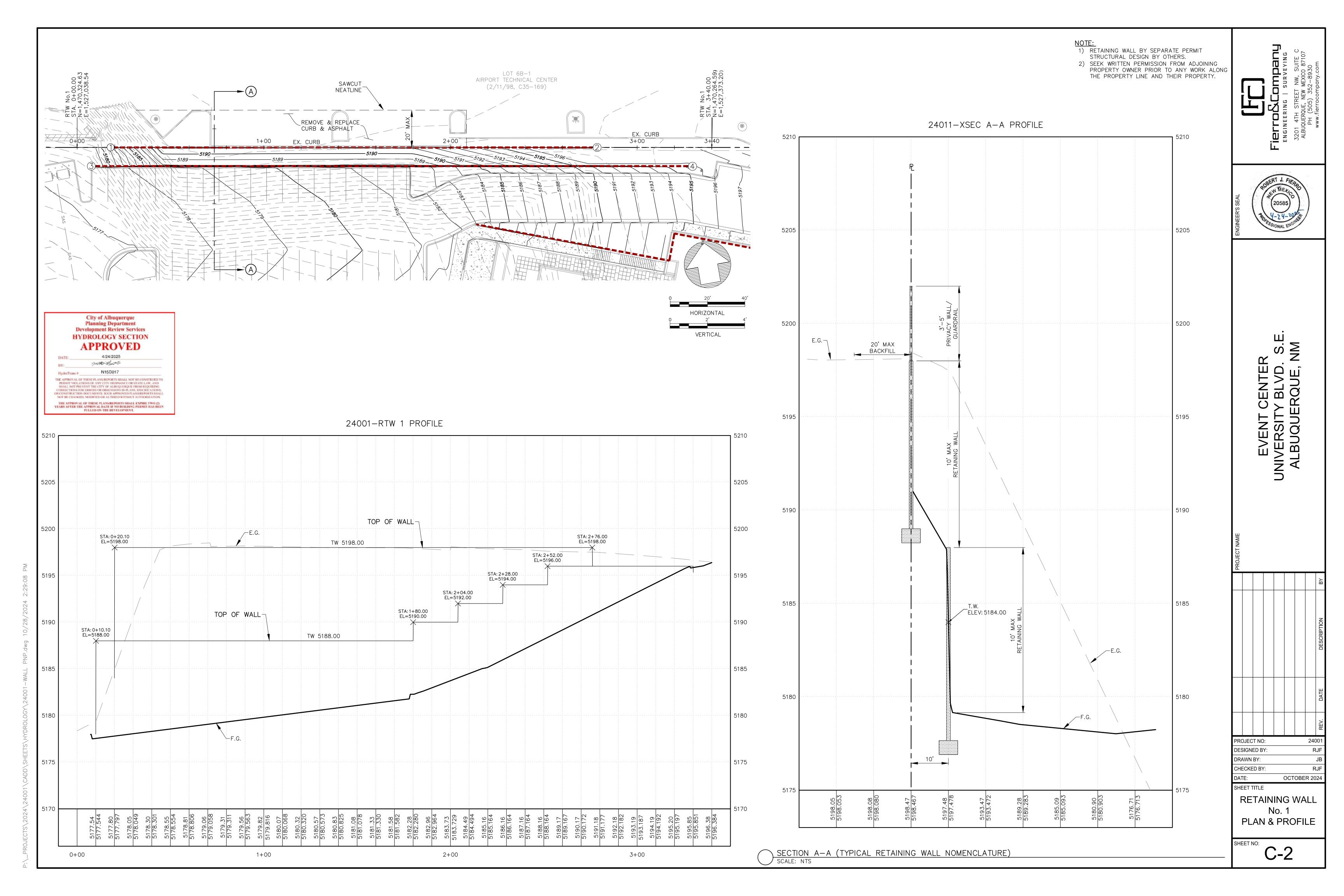
Anthony Montoya, Jr., P.E., CFM

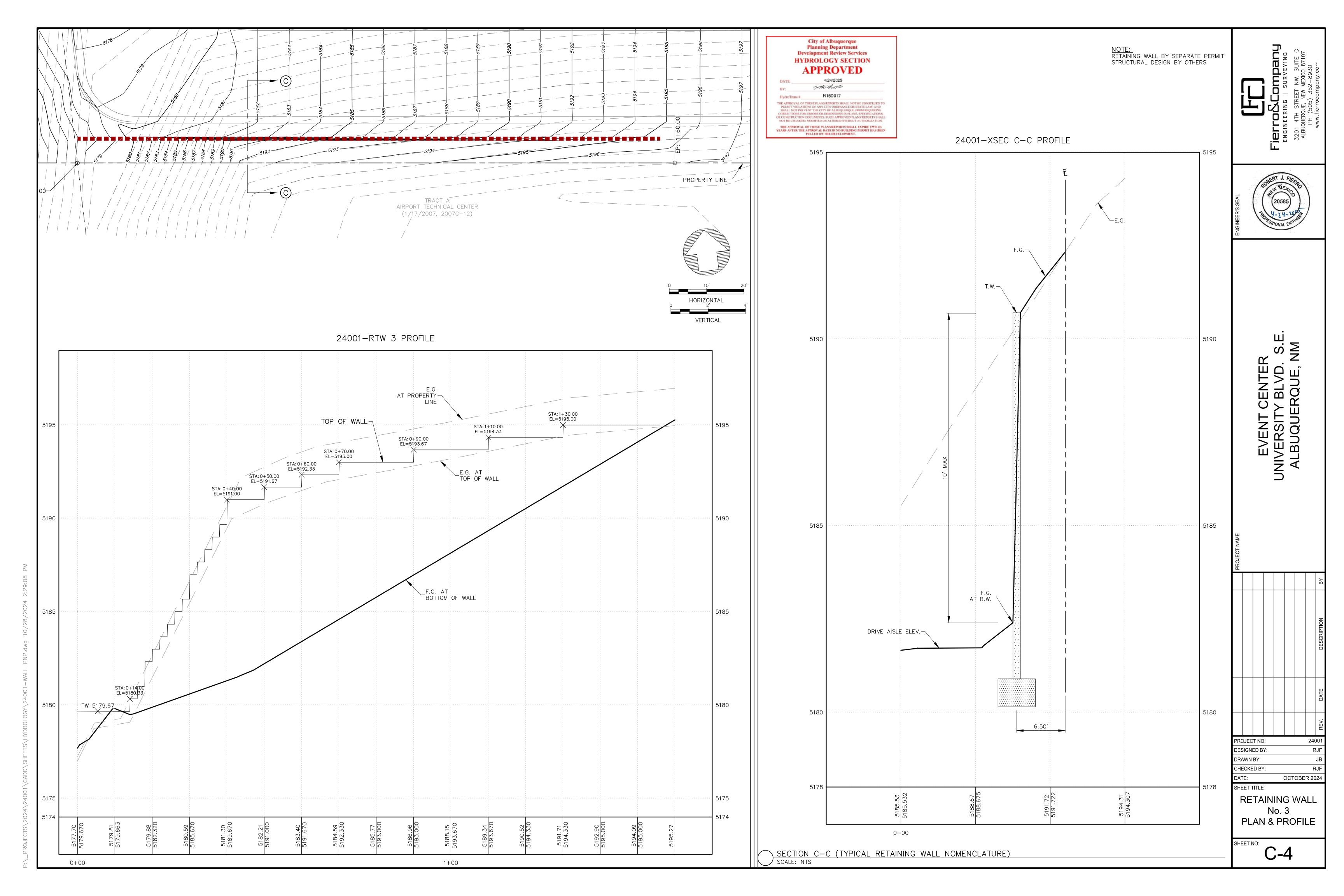
Senior Engineer, Hydrology

anth Mars

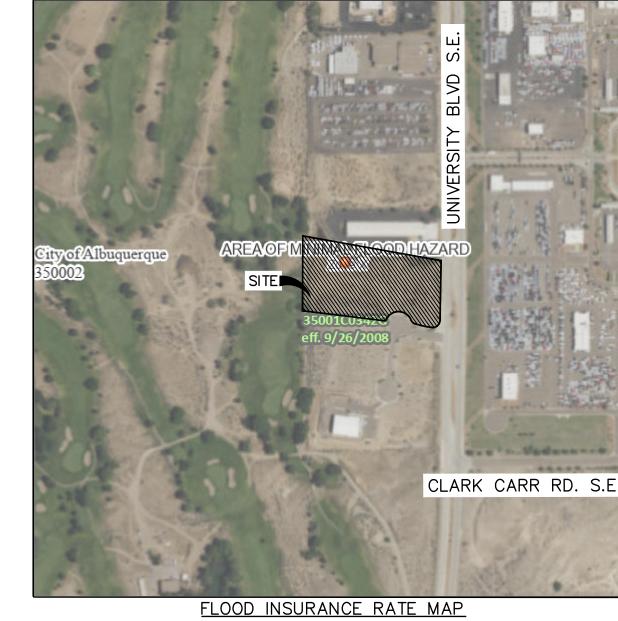
Planning Department, Development Review Services











MAP NO. 35001C0342G EFFECTIVE DATE: 09/26/2008

Introduction

The site is located at the northwest intersection of University Blvd./Airtech Court, and is 3.7 acres. This property is part of a Master Drainage Plan for Airport Technical Center, being Tract B of said Center. Allowable discharge rates have been established. The purpose of this Grading & Drainage Plan is to 1) provide hydrologic and hydraulic analysis of the allowable and proposed condition, 2) satisfy allowable stormwater quality requirements, and 3) seek approval for building permit.

Hydrologic procedures presented in the Hydrology Section of the DMP, Article 6-2(a), approved June 8, 2020 were followed. Precipitation Zone 2 data was used in the hydrologic computations.

Existing Condition

The site is undeveloped. There is a 40-foot elevation difference from the East to West property line. Prior to becoming Tract B, this land used to convey runoff via an arroyo which crossed the property with its runoff being intercepted by a 60-inch RCP at the west property line common to the East property line of UNM Golf Course. This 60-inch R.C.P. pipe has been extended through said Tract B to University Blvd. The terrain still represents features of an arroyo; however, all offsite flow is now conveyed via the 60-inch R.C.P. On-site flow discharges to UNM Golf Course with concentrated flow near the 60-inch RCP. The subject site is within the Master Drainage Plan for Lots 6B-2 and 8B, Airport Technical Center with an allowable discharge rate of 16.4 cfs.

Proposed Condition

An event center is proposed at this site. To help make this tract developable the following design elements were incorporated: 1) several retaining walls, steep drive aisle from East to West, steep slopes along the western boundary, and a two tier building. The site will discharge to a double grate inlet which will connect to an existing storm manhole. The western 40-feet of the site has steep slopes of 2.5H:1V which discharge directly to UNM Golf Course. UNM Golf Course benefits from this development, since the entire site will not surface discharge to UNM Golf Course as under the existing condition. Also, the proposed surface discharge to UNM Golf Course is not concentrated as in the existing condition.

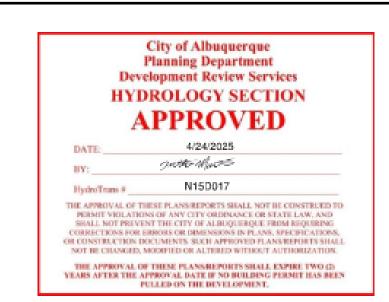
The proposed site cannot accommodate storing the storm water quality requirement due to the following reasons: 1) site is encumbered by public easements

Steep grades

3) Platting of Tract B and Master Drainage Plan allowed free discharge of the site; therefore, anticipated the Tract not being able to detain/retain runoff due to the two items above.

A waiver application from stormwater quality volume management on-site is being submitted to seek payment-in-lieu.

DRAINAGE NARRATIVE



THE OWNER HAS ELECTED TO PAY THE PAYMENT IN LIEU FOR THE REQUIRED STORMWATER QUALITY VOLUME.

STORMWATER QUALITY VOLUME (WAIVER):

S.W.Q.V. CALCULATIONS

 $Area_D=114,478$ sq.ft.

SOLUTION:

60" storm drain within Tract B.

 $SWQV = \frac{1}{12}(R_D * Area_D) = \frac{1}{12}[0.420"*114,478 \text{ sq.ft}] = 4,007 \text{ cu.ft.}$

<u>CONCLUSION:</u> A waiver application is being submitted to allow runoff generated from 114,478 sq.ft of impervious area to discharge directly to the

HYDROLOGY SUMMARY Allowable runoff based on Master Drainage Plan Lots 6B-2 and 8B, Airport Technical Center									
	(sq.ft.)	(acres)	Α	В	С	D	(cfs)	(ac-ft)	(cu.ft.)
100 _{ALLOWABLE}	163540	3.754	0.0	0.0	20.0	80.0	15.3	0.723	31481
100 _{PROPOSED}	163540	3.754	0.0	15.0	15.0	70.0	14.5	0.662	28831

\HYDROLOGY SUMMARY

LEGEND — — — PROPERTY BOUNDARY • • • —> FLOW PATH ROOF FLOW SURFACE DRAINAGE ---- EASEMENT LINE ----- SAS ----- EXISTING SEWER LINE ----SD----SD-----NEW STORM DRAIN 73910 PROPOSED MAJOR CONTOUR -3908 PROPOSED MINOR CONTOUR

PROJECT NO: DESIGNED BY: DRAWN BY: CHECKED BY: OCTOBER 2024 SHEET TITLE DRAINAGE PLAN

EVENT CENTER IVERSITY BLVD.

SHEET NO:

