

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

November 14, 2024

Debi Plaisance
Barrios Engineering
7575 Dr. Phillips Blvd., Suite 260
Orlando, FL 32819

**RE: UPS Temporary HUB
2401 Comanche Road NE
Grading and Drainage Plan
Engineer's Stamp Date: 04/22/24
Hydrology File: G16D044**

Dear Ms. Plaisance:

PO Box 1293

Based upon the information provided in your submittal received 11/12/2024, the Grading & Drainage Plan is approved for Building Permit, and Grading 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

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.
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 # _____

Legal Description: _____

City Address, UPC, OR Parcel: _____

Applicant/Agent: _____ Contact: _____

Address: _____ Phone: _____

Email: _____

Applicant/Owner: _____ Contact: _____

Address: _____ Phone: _____

Email: _____

(Please note that a DFT SITE is one that needs 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: TRANSPORTATION HYDROLOGY/DRAINAGE

Check all that apply under Both the Type of Submittal and the Type of Approval Sought:

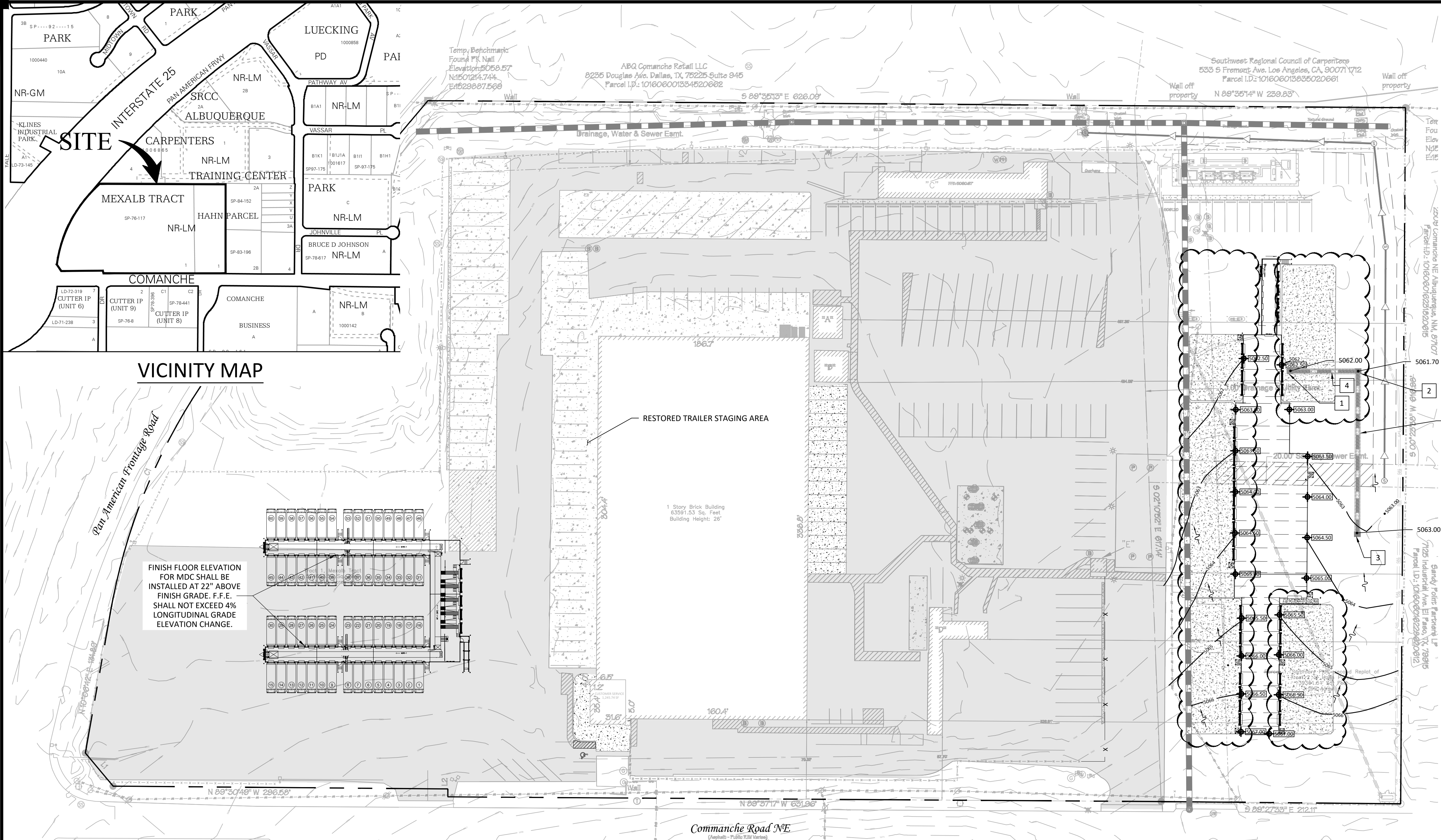
TYPE OF SUBMITTAL:

ENGINEER/ARCHITECT CERTIFICATION
PAD CERTIFICATION
CONCEPTUAL G&D PLAN
GRADING & DRAINAGE PLAN
DRAINAGE REPORT
DRAINAGE MASTER PLAN
CLOMR/LOMR
TRAFFIC CIRCULATION LAYOUT (TCL)
ADMINISTRATIVE
TRAFFIC CIRCULATION LAYOUT FOR DFT
APPROVAL
TRAFFIC IMPACT STUDY (TIS)
STREET LIGHT LAYOUT
OTHER (SPECIFY) _____

TYPE OF APPROVAL SOUGHT:

BUILDING PERMIT APPROVAL (BP-2024-12350
and
BP-2024-11520)
CERTIFICATE OF OCCUPANCY
CONCEPTUAL TCL DFT APPROVAL
PRELIMINARY PLAT APPROVAL
FINAL PLAT APPROVAL
SITE PLAN FOR BLDG PERMIT DFT
APPROVAL
SIA/RELEASE OF FINANCIAL GUARANTEE
FOUNDATION PERMIT APPROVAL
GRADING PERMIT APPROVAL
SO-19 APPROVAL
PAVING PERMIT APPROVAL
GRADING PAD CERTIFICATION
WORK ORDER APPROVAL
CLOMR/LOMR
OTHER (SPECIFY) _____

DATE SUBMITTED: _____



Stormwater Quality Volume Required by DPM Article 6-12:

18000	Proposed Impervious Area, sf
0.42	Runoff, in. (New Development)
630	SWQV, cf

Required SQV = 0.014 ac-ft = 630 cf

Excess Precipitation and Runoff Volume Calculations:

Land Treatment (E)	C
Area (Ac)	0.413
Zone (Figure 6.2.3)	2
100Yr-6Hr Excess Precipitation (Table 6.2.13)	1.06

Weighted E = 1.06

Existing Condition V₃₆₀ = 0.44 ac-ft

Proposed Condition (Impervious Area)

Land Treatment (E)	D
Area (Ac)	0.413
Zone (Figure 6.2.3)	2
100Yr-6Hr Excess Precipitation (Table 6.2.13)	1.2

Weighted E = 1.20

Existing Condition V₃₆₀ = 0.50 ac-ft

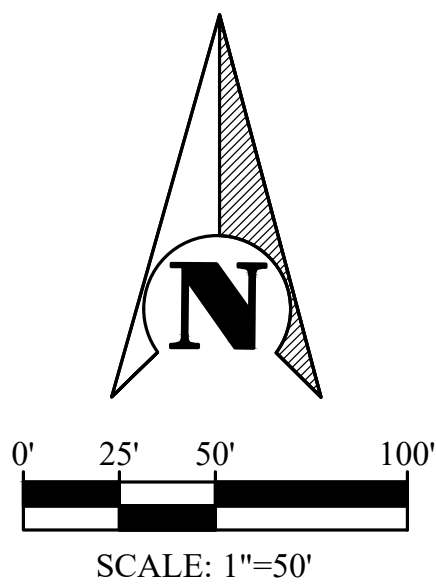
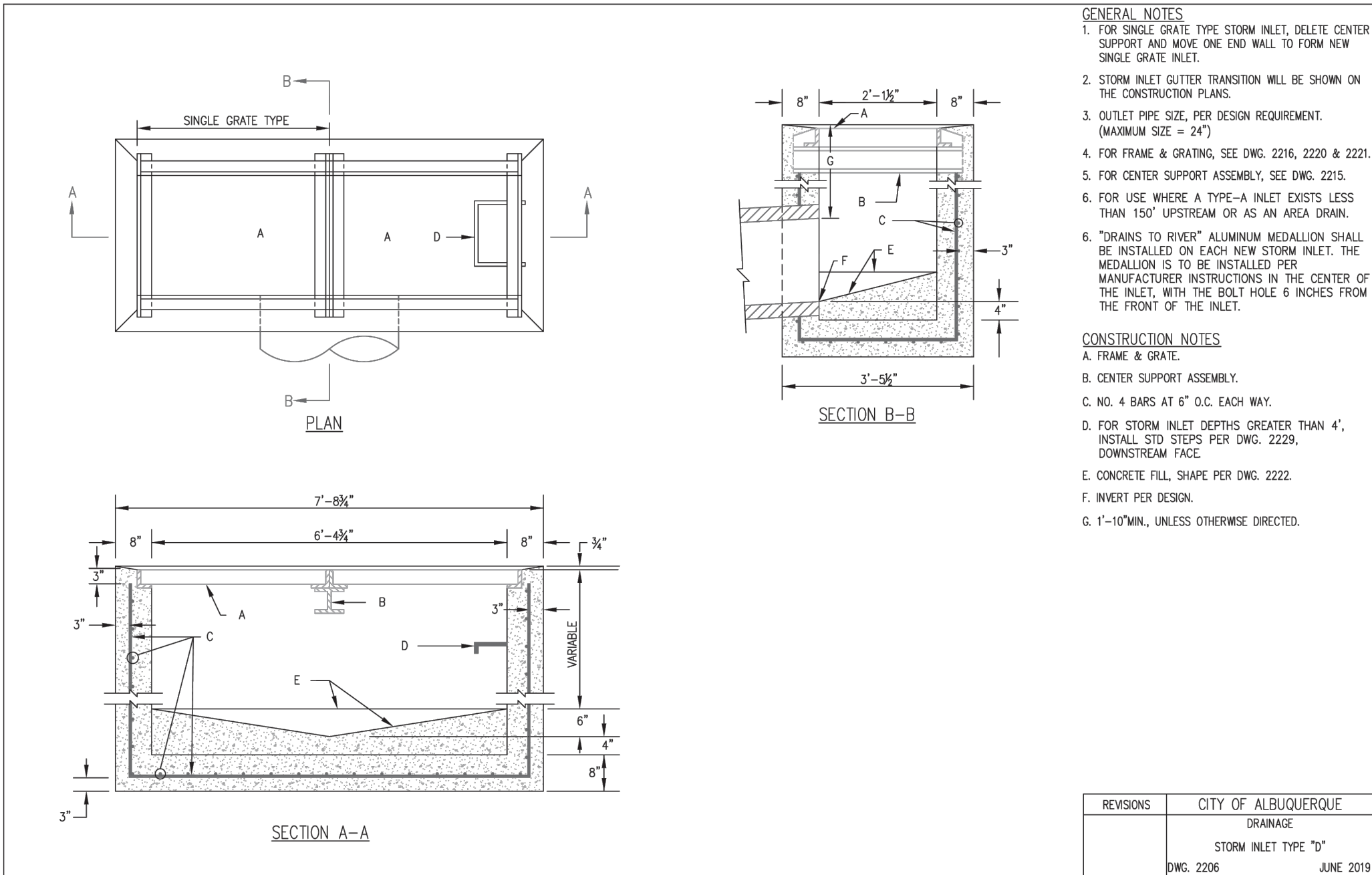
V₃₆₀ Difference = 0.50 Ac-ft - 0.44 Ac-ft = 0.06 Ac-ft (2,614 CF)

INFILTRATION TRENCH IS PROPOSED TO RETAIN THE EXCESS VOLUME FROM ADDED IMPERVIOUS AREA:
TRENCH CALCULATIONS:
CROSS SECTIONAL AREA USING 36" DIA. PIPE WITHIN 5' x 5.5' GRAVEL (30% VOIDS) ENCASEMENT = 13.20 SQFT
REQUIRED TRENCH LENGHT = 2,614 CF / 13.20 SQFT = 198.0 FT
TRENCH LENGHT PROVIDED = 200 LF

EQUATION 6.1 Weighted E = $E = \frac{E_1 A_1 + E_2 A_2 + E_3 A_3 + E_4 A_4}{A_1 + A_2 + A_3 + A_4}$

EQUATION 6.2 V₃₆₀ (as volume) = weighted E * (A₁ + A₂ + A₃ + A₄)

TABLE 6.2.13 6-hour Excess Precipitation, 'E'				
Zone	Land Treatment			
	A	B	C	D
100-YEAR EXCESS PARTICIPATION, E (IN)				
1	0.55	0.73	0.95	2.24
2	0.62	0.80	1.03	2.33
3	0.67	0.86	1.09	2.58
4	0.76	0.95	1.20	3.34
2-YEAR EXCESS PARTICIPATION, E (IN)				
1	0.00	0.01	0.13	0.92
2	0.00	0.02	0.16	0.98
3	0.00	0.05	0.19	1.05
4	0.00	0.28	0.87	1.39
10-YEAR EXCESS PARTICIPATION, E (IN)				
1	0.11	0.26	0.43	1.43
2	0.19	0.30	0.48	1.51
3	0.28	0.34	0.52	1.64
4	0.25	0.41	0.59	2.15

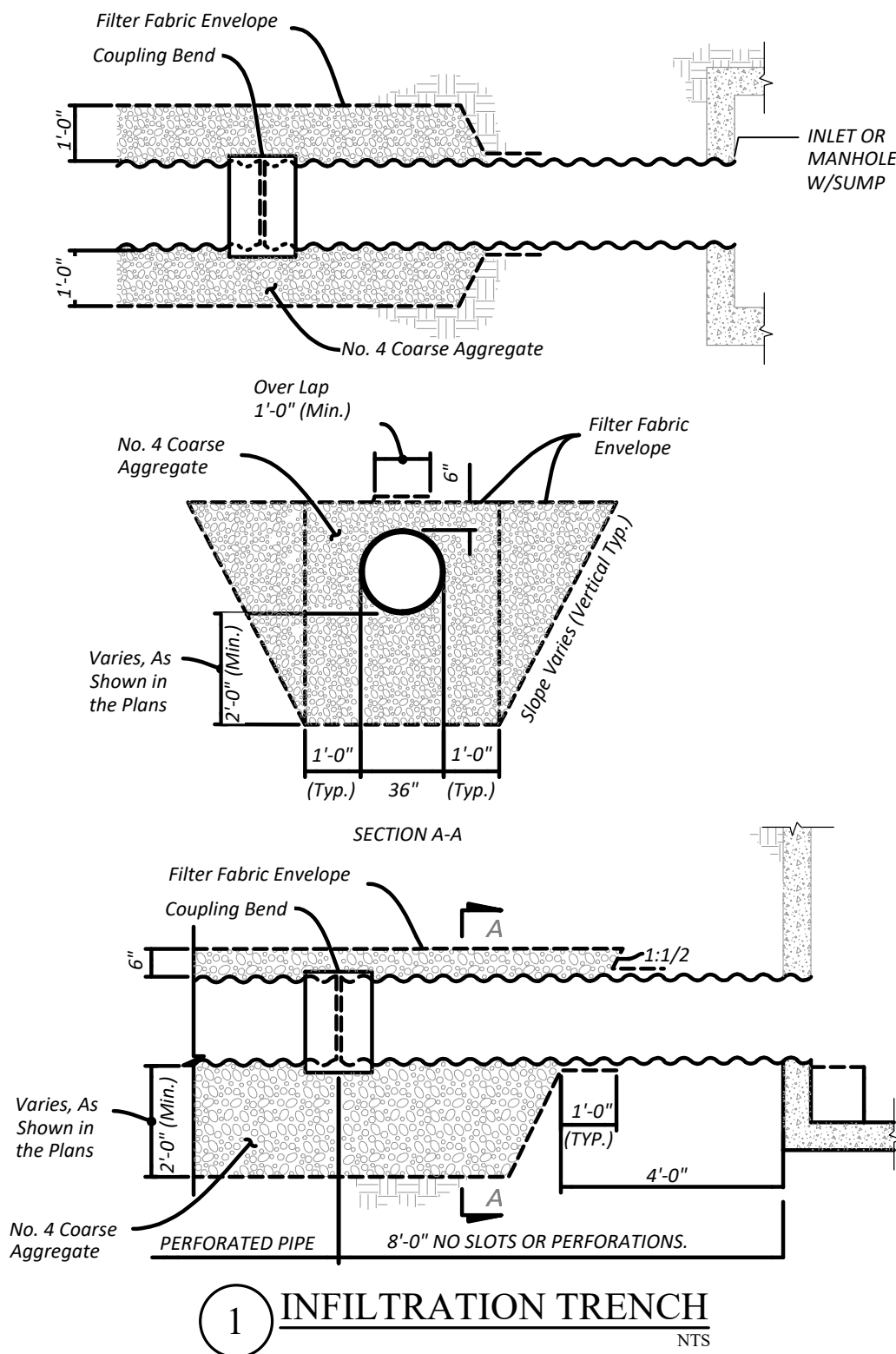


DRAINAGE DATA

- SD-1 TYPE "D"
TOP = 5062.00
INV. = 5056.90
- SD-2 TYPE "D"
TOP = 5061.70
INV. = 5056.70
- SD-3 TYPE "D"
TOP = 5063.00
INV. = 5058.00
- 60 LF OF EXFILTRATION TRENCH W/36" HDPE PERFORATED PIPE @ S=0.33%
- 140 LF OF EXFILTRATION TRENCH W/36" HDPE PERFORATED PIPE @ S=0.65%

NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION, INVERT ELEVATION, MATERIALS, AND PIPE SIZE BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR TO VERIFY SLOPES ON ALL SIDEWALKS, HANDICAP ZONES, RAMPS AND DRIVEWAY CONNECTIONS FOR COMPLIANCE WITH ADA REQUIREMENTS AND/OR OPERATIONAL FUNCTIONABILITY.



LEGAL DESCRIPTION

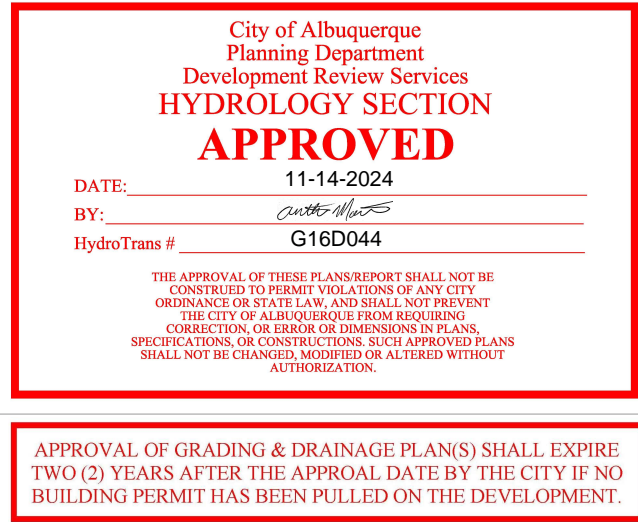
PARCEL 1 OF SUMMARY PLAT SECOND REPLAT OF TR 2 OF THE HAHN PARCEL CONT 3.1 999 AC

FLOOD HAZARD STATEMENT

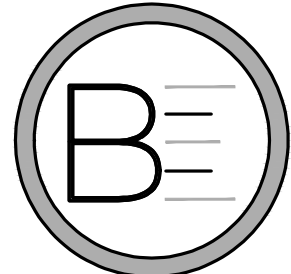
PER FEMA FIRM MAP PANEL 35001C0351H AND 35001C0138H (EFFECTIVE DATE 08/16/2012), THE SITE IS IN FLOOD ZONE X WHICH IS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANGE FLOODPLAIN.

REFER TO SHEET C0.00 FOR GENERAL NOTES, SPECIFICATIONS, AND LEGENDS, IN ADDITION TO SITE-SPECIFIC NOTES AND REQUIREMENTS.

ALL EXISTING MEASUREMENTS ELEVATIONS SHOWN ALL PLAN WHERE OBTAINED WITH THE USE OF AERIAL ORTHOMOSAIC PICTURES PRODUCT OF IMAGE COLLECTIONS BY DRONE PHOTOGRAPHY USING A DJI MAVIC 2 PRO. ALL ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.



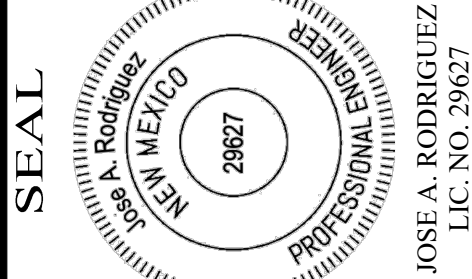
APPROVAL OF GRADING & DRAINAGE PLANS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT



REV	DATE	DESCRIPTION	BY
1	06/19/24	CITY OF ALBUQUERQUE BUILDING SAFETY DIVISION	ABC
2	08/16/24	CLIENT REVISION	ET
3	09/09/24	CLIENT REVISION	ABC

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JOSE A. RODRIGUEZ ON THE DATE ADJACENT TO THE SEAL USING A SHA AUTHENTICATION CODE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



UNITED PARCEL SERVICE

2401 COMANCHE RD
ALBUQUERQUE, NM 87107

GRADING
AND
DRAINAGE
PLAN

PROJ MANAGER: CB	DATE: 03/11/2024
DRAWN BY: MA	SHEET NO.:
SCALE: AS NOTED	C3.00
PROJECT NO.:	24-011