

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

November 15, 2024

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

**RE: UPS Temporary HUB
2401 Comanche Road NE
Permanent Certificate of Occupancy – Accepted
Engineer’s Certification Date: 11/15/24
Engineer’s Stamp Date: 11/12/2024
Hydrology File: G16D044**

Dear Ms. Plaisance:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based on the Engineer’s Grading and Drainage Certification received 11/15/2024 and the site visit on 11/15/2024, this letter serves as a “green tag” from Hydrology Section for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division **for the UPS Temporary HUB located at 2401 Comanche Rd NE.**

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: _____



November 15, 2024

DRAINAGE CERTIFICATION

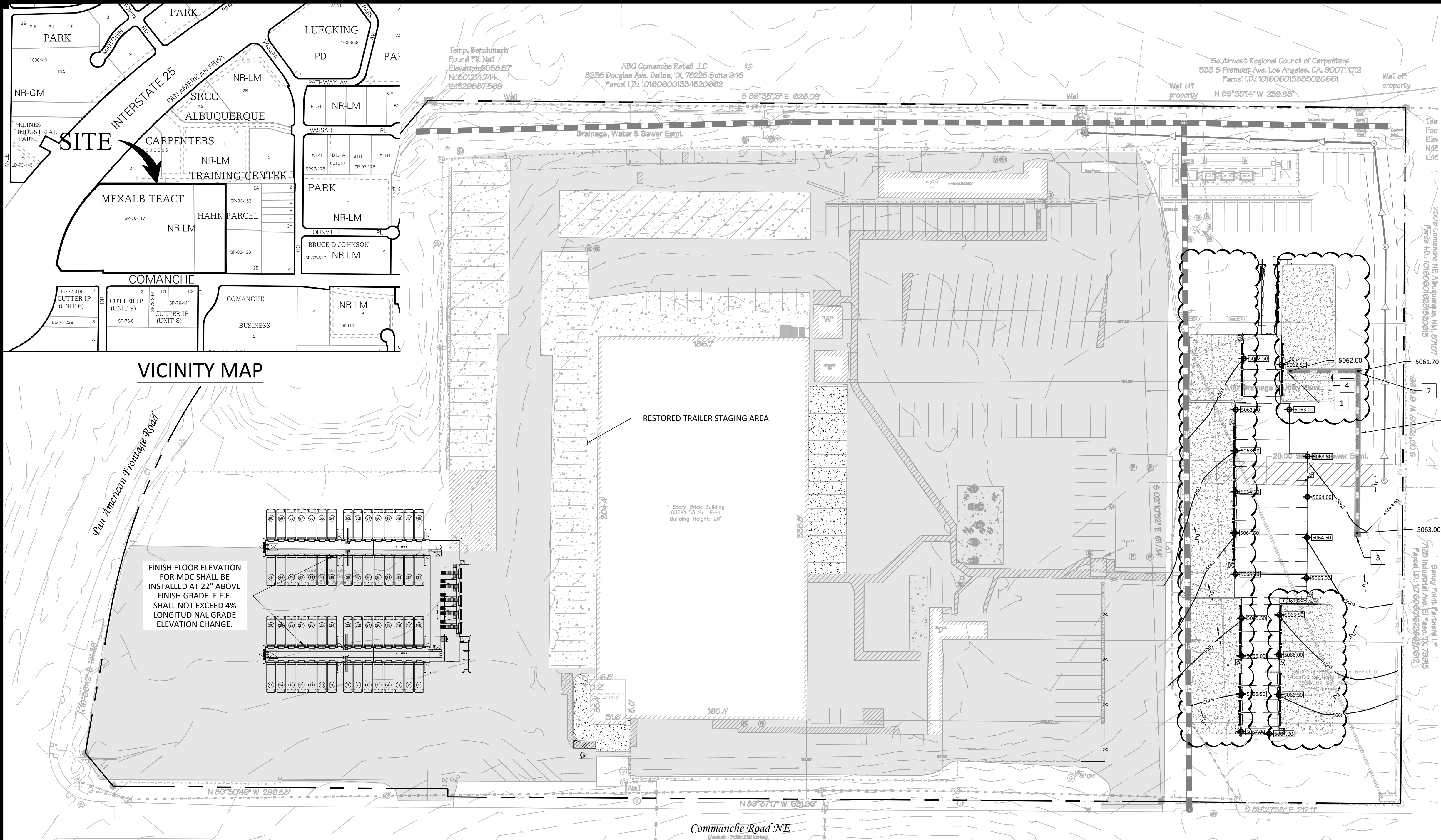
I, JOSE A. RODRIGUEZ, NMPE 29627, OF THE FIRM
BARRIOS ENGINEERING, LLC, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN
GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN
ACORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED
11/14/2024. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL
DESIGN DOCUMENT HAS BEEN OBTAINED BY SCOTT MARTIN,
NMPS 21663, OF THE FIRM ASTRA SURVEYING. I FURTHER CERTIFY THAT
I HAVE PERSONALLY INSPECTED THE PROJECT SITE AND REVIEWED THE AS-
BUILT DATA AND HAVE DETERMINED THE SURVEY DATA PROVIDED IS
REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO
THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS
SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY
COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF
THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON
THIS RECORD DOCUMENTARE ADVISED TO OBTAIN INDEPENDENT VERIFIATION
OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

JOSE A. RODRIGUEZ, NMPE 29627

SEAL
11/15/24



DATE



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 V_{360} = 0.44 ac-ft

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 V_{360} = 0.50 ac-ft

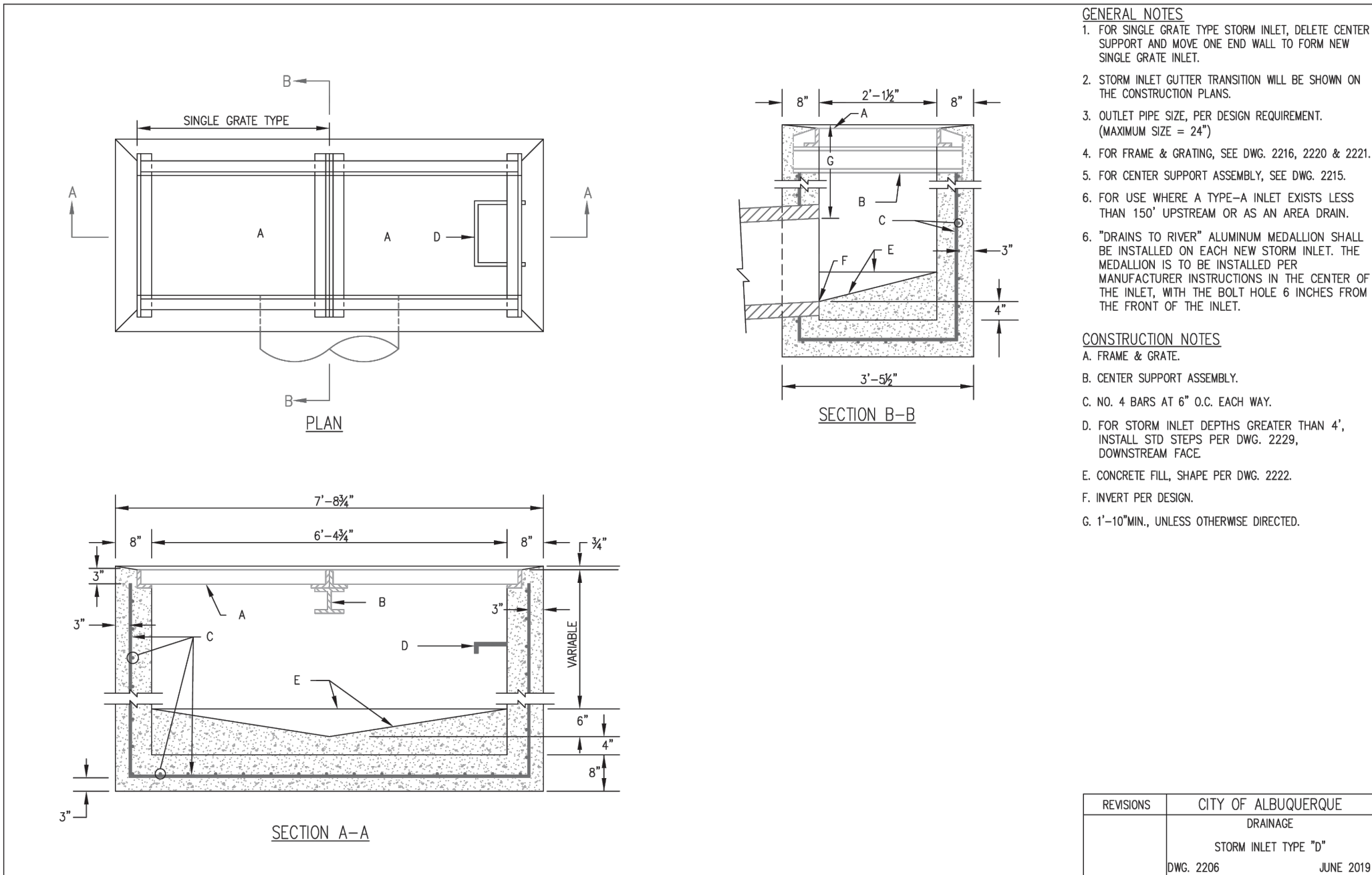
V_{360} Difference = 0.50 Ac-ft - 0.44 Ac-ft = 0.06 Ac-ft (2,614 CF)

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 $E = \frac{E_A \cdot A_A + E_B \cdot A_B + E_C \cdot A_C + E_D \cdot A_D}{A_A + A_B + A_C + A_D}$

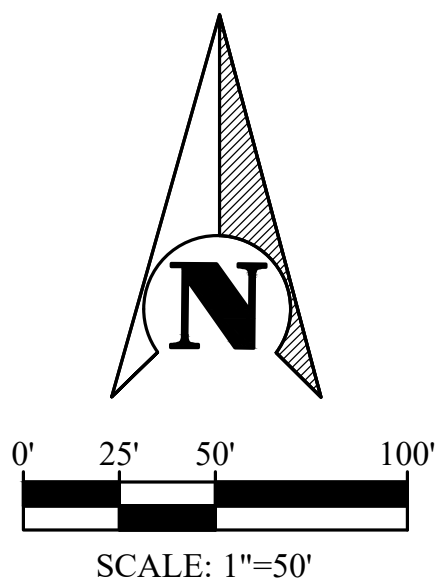
EQUATION 6.2 V_{360} (as volume) = weighted $E \cdot (A_A + A_B + A_C + A_D)$

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



GENERAL NOTES:
1. FOR SINGLE GRATE TYPE STORM INLET, DELETE CENTER SUPPORT AND MORE ONE END WALL TO FORM NEW SINGLE GRATE INLET.
2. STORM INLET CUTTER TRANSITION WILL BE SHOWN ON THE CONSTRUCTION PLANS.
3. OUTLET PIPE SIZE, PER DESIGN REQUIREMENT. (MAXIMUM SIZE = 24")
4. FOR FRAME & GRATING, SEE DMC 2216, 2220 & 2221.
5. FOR CENTER SUPPORT ASSEMBLY, SEE DMC 2215.
6. FOR USE WHERE A TYPE-A INLET EXISTS LESS THAN 150' UPSTREAM OR AS AN AREA DRAIN.
7. "DRAINS TO RIVER" ALUMINUM MEDALLION SHALL BE INSTALLED ON EACH NEW STORM INLET. THE MEDALLION IS TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS IN THE CENTER OF THE INLET, WITH THE BOLT HOLE 6 INCHES FROM THE FRONT OF THE INLET.
CONSTRUCTION NOTES:
A. FRAME & GRATE.
B. CENTER SUPPORT ASSEMBLY.
C. NO. 4 BARS AT 8" O.C. EACH WAY.
D. FOR STORM INLET DEPTHS GREATER THAN 4', INSTALL STD STEPS PER DMC 2229, DOWNSTREAM FACE.
E. CONCRETE FILL, SHAPE PER DMC 2222.
F. INVERT PER DESIGN.
G. 1'-10" MIN., UNLESS OTHERWISE DIRECTED.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE
	STORM INLET TYPE "D"
	DMC 2208 JUNE 2019

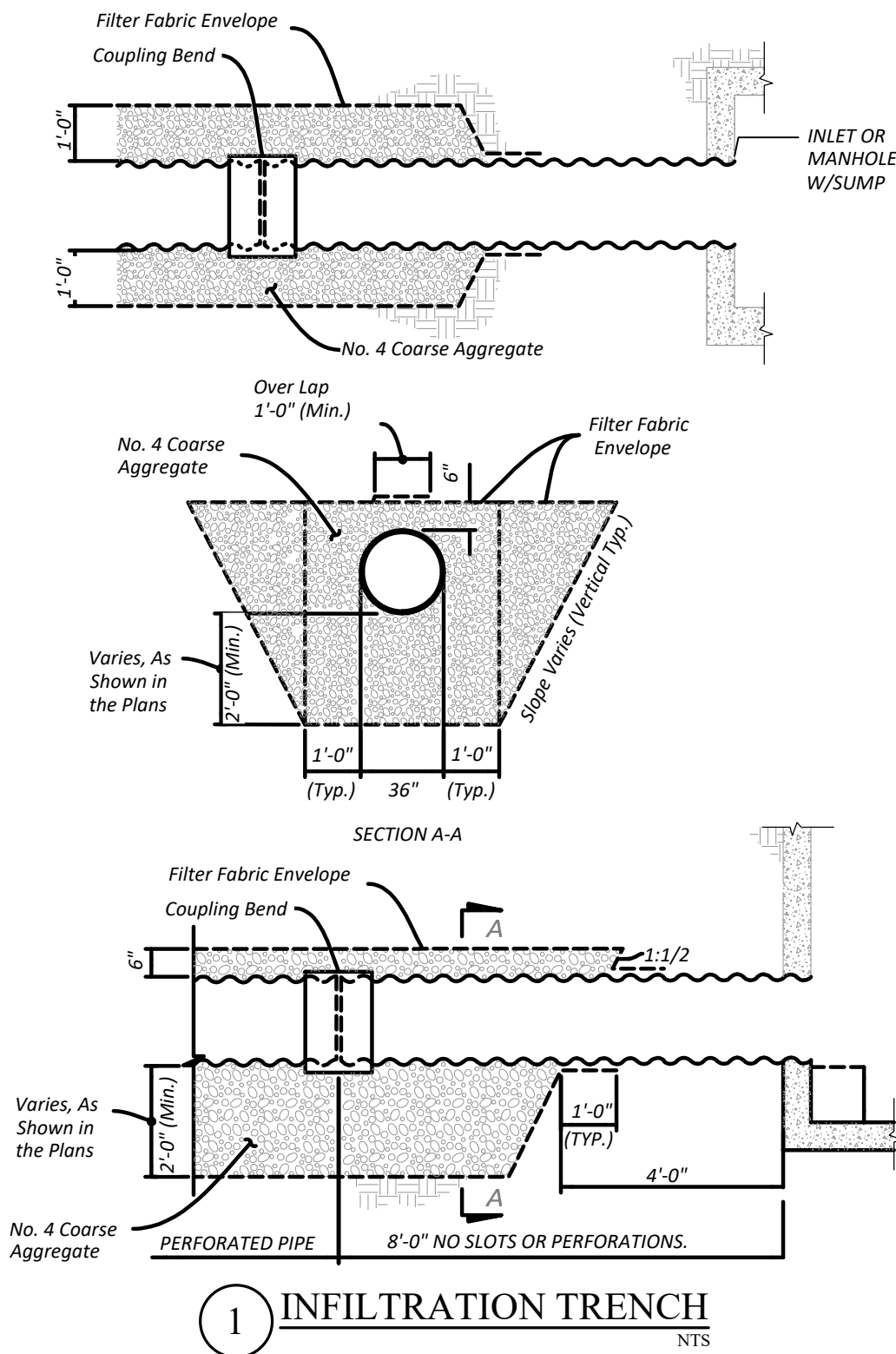


DRAINAGE DATA

- 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

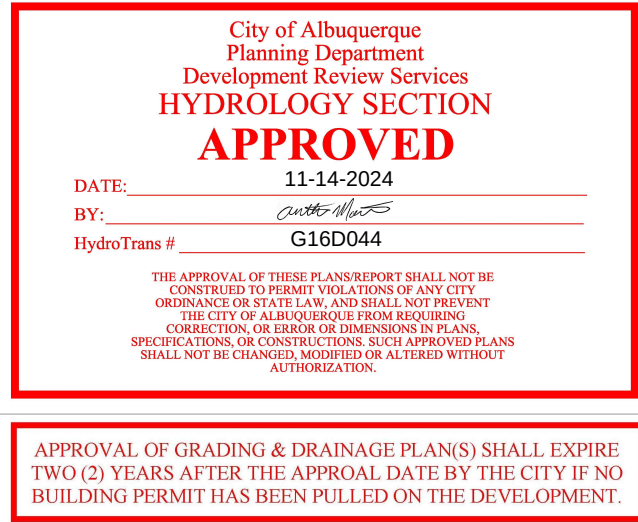
PARCEL 1 OF SUMMARY PLAT SECOND REPLAT OF TR 2 OF THE HAHN PARCEL CONT 3.1 999 AC

FLOOD HAZARD STATEMENT

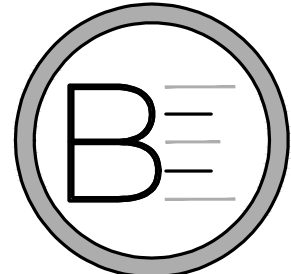
PER FEMA FIRM MAP PANEL 35001C0351H AND 35001C0138H (EFFECTIVE DATE 08/16/2012), THE SITE IS IN FLOOD ZONE X WHICH IS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANGE FLOODPLAIN.

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

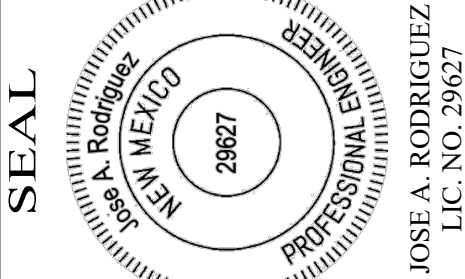


JOSE A. RODRIGUEZ
7575 DR PHILLIPS BLVD, SUITE 260
ORLANDO FL 32819
PE Lic # 29627

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