

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

May 28, 2025

Mike Walla, P.E.
Walla Engineering
6501 Americas Pwky NE, Suite 301
Albuquerque, NM 87110

**RE: Nusenda Credit Union
2801 Juan Tabo NE
Permanent C.O. – Accepted
Engineer's Certification Date: 4/10/25
Engineer's Stamp Date: 8/8/22
Hydrology File: H21D020
Case # HYDR-2025-00124**

PO Box 1293

Dear Mr. Walla:

Albuquerque

Based on the Certification received 4/11/2025 and the site visit on 4/14/2025, this letter serves as an approval from the Hydrology Section for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

NM 87103

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

www.cabq.gov

Sincerely,

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

LEGAL DESCRIPTION

TRACT B-2 and 13a, BLOCK 79, SNOW HEIGHTS
ADDITION, ALBUQUERQUE, BERNALILLO
COUNTY, NEW MEXICO

BASIS OF ELEVATIONS

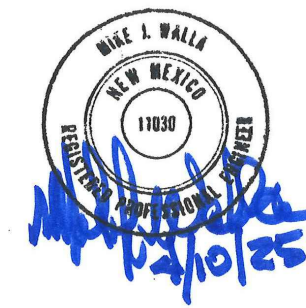
ELEVATION DATUM IS BASED ON 1988
FROM AGRS MONUMENT "10-122"
PUBLISHED ELEVATION (FEET) = 5613.201

GENERAL NOTES

- A FIELD VERIFY ALL SPOT ELEVATIONS SHOWN
AT EXISTING CURB AND GUTTER AT
ROADWAYS

DRAINAGE CERTIFICATION

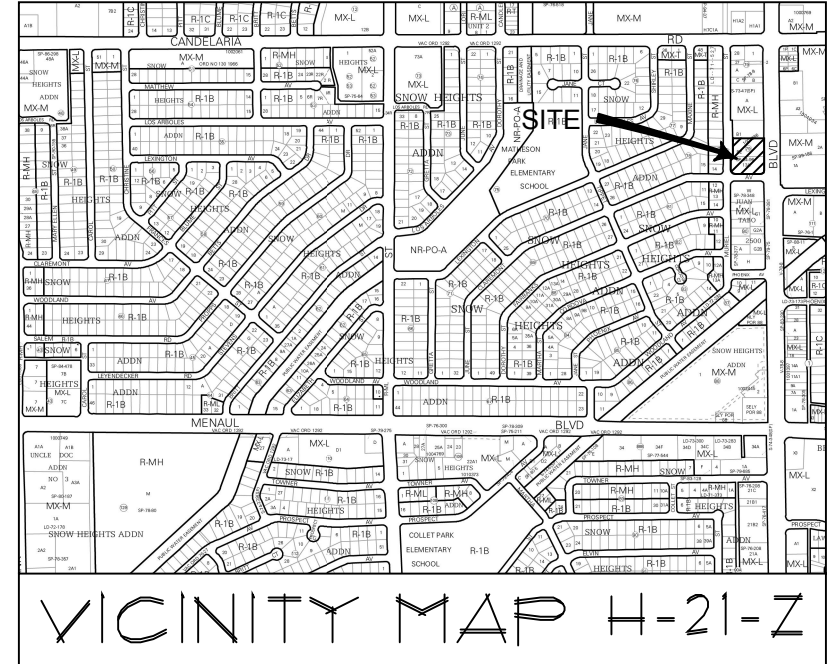
I, MIKE WALLA, NPE 1030, OF THE FIRM WALLA ENGINEERING, LTD., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN
GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE
APPROVED PLAN DATED 8-8-2022. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN
OBTAINED FROM BRIAN MARTINEZ, NPE 18314. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE
ON 4-1-2025 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF
THE 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 THE PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO
OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



joe slagle architect

P.O. Box 10362
Abq, NM 87184

Walla ENGINEERING, LTD.
Structural Engineering
Civil Engineering



KEYED NOTES

- 1 ASPHALT PAVING PER DETAIL 1/C201
- 2 CONCRETE PAVING PER DETAIL 2/C201
- 3 CONCRETE CURB AND GUTTER PER DETAIL 3/C201
- 4 2'-0" WIDE CURB BREAK FOR DRAINAGE CONVEYANCE
- 5 4'-0" WIDE X 10'-0" GRAVEL RIPRAP RUNDOWN
- 6 2'-0" WIDE SIDEWALK CULVERT PER CITY OF ALBUQUERQUE STANDARD DRAWING #2236
- 7 REMOVE AND REPLACE EXISTING CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING #2415A
- 8 REMOVE AND REPLACE EXISTING SIDEWALK PER CITY OF ALBUQUERQUE STANDARD DRAWING #2430
- 9 REMOVE AND REPLACE EXISTING DRIVE ACCESS PER CITY OF ALBUQUERQUE STANDARD DRAWING #2426
- 10 CONCRETE CATCH BASIN PER DETAIL 4/C201 - TG=03.00 INV OUT = 07.28
- 11 8" FVC C300 STORM DRAIN - 1% SLOPE
- 12 CONCRETE POND OVERFLOW RUNDOWN PER DETAIL 5/C201
- 13 CONCRETE ISLAND PER DETAIL 6/C201
- 14 CONCRETE RUNDOWN PER DETAIL 5/C201

Hydrology Calculations

Nusenda @ 2801 Juan Tabo NE - Site Area = 1.292 acres

Design Criteria: City of Albuquerque Development Process Manual - June 2020
Chapter 6 Drainage, Flood Control, and Erosion Control
Procedure for 40-Acre and Smaller Basins

Precipitation Zone 3 per Section 6-2(A)(1), Table 6.2.7 and Figure 6.2.3

Excess Precipitation, E, per Table 6.2.13

Peak Discharge for Small Watersheds: per Table 6.2.14

PRE-DEVELOPED CONDITIONS - Entire Site

Land Treatment	Area (ac)	Excess Precip. "E" (in)	Peak Q (cfs/ac)	Coefficient C
A	0.000	0.67	1.84	0.37
B	0.417	0.86	2.49	0.50
C	0.000	1.09	3.17	0.64
D	0.876	2.58	4.49	0.91

Weighted E: $[(0.417 \times 0.86) + (0.876 \times 2.58)] / 1.292 = 2.027$ in
 $V_{360} = 2.027 \times 1.292 \times 43560 / 12 = 9505$ CF
Total Qp = $(0.417 \times 2.49) + (0.876 \times 4.49) = 4.97$ CFS

POST-DEVELOPED CONDITIONS - Entire Site

Land Treatment	Area (ac)	Excess Precip. "E" (in)	Peak Q (cfs/ac)	Coefficient C
A	0.000	0.67	1.84	0.37
B	0.376	0.86	2.49	0.50
C	0.000	1.09	3.17	0.64
D	0.916	2.58	4.49	0.91

Weighted E: $[(0.376 \times 0.86) + (0.916 \times 2.58)] / 1.292 = 2.08$ in
 $V_{360} = 2.08 \times 1.292 \times 43560 / 12 = 9755$ CF
Total Qp = $(0.376 \times 2.49) + (0.916 \times 4.49) = 5.05$ CFS

Rational Method Check: 12-minute Peak Intensity, I = 4.96 in/hr

Q = CIA = $(0.50 \times 4.96 \times 0.376) + (0.91 \times 4.96 \times 0.916) = 5.066$ CFS OK

Storm Water Quality Volume, (SWQV)

Impervious Area = 0.916 ac

BMP Volume Required: $0.42" \times 0.916 \times 43560 / 12 = 1397$ CF

DEVELOPED CONDITIONS - BASIN I

Land Treatment	Area (ac)	Excess Precip. "E" (in)	Peak Q (cfs/ac)	Coefficient C
A	0.000	0.67	1.84	0.37
B	0.114	0.86	2.49	0.50
C	0.000	1.09	3.17	0.64
D	0.101	2.58	4.49	0.91

Weighted E: $[(0.114 \times 0.86) + (0.101 \times 2.58)] / 0.215 = 1.67$ in
 $V_{360} = 1.67 \times 0.215 \times 43560 / 12 = 1303$ CF
Total Qp = $(0.114 \times 2.49) + (0.101 \times 4.49) = 0.358$ CFS

Pond 1	VOLUME:	Contour	Area	Volume
		14.38	1666 SF	561 CF
		14.00	1285 SF	859 CF
		13.00	432 SF	85 CF
		TOTAL	1420 CF > 1303 CF OK	

DEVELOPED CONDITIONS - BASIN II

Land Treatment	Area (ac)	Excess Precip. "E" (in)	Peak Q (cfs/ac)	Coefficient C
A	0.000	0.67	1.84	0.37
B	0.262	0.86	2.49	0.50
C	0.000	1.09	3.17	0.64
D	0.815	2.58	4.49	0.91

Weighted E: $[(0.262 \times 0.86) + (0.815 \times 2.58)] / 1.077 = 2.16$ in
 $V_{360} = 2.16 \times 1.077 \times 43560 / 12 = 8451$ CF
Total Qp = $(0.262 \times 2.49) + (0.815 \times 4.49) = 4.312$ CFS

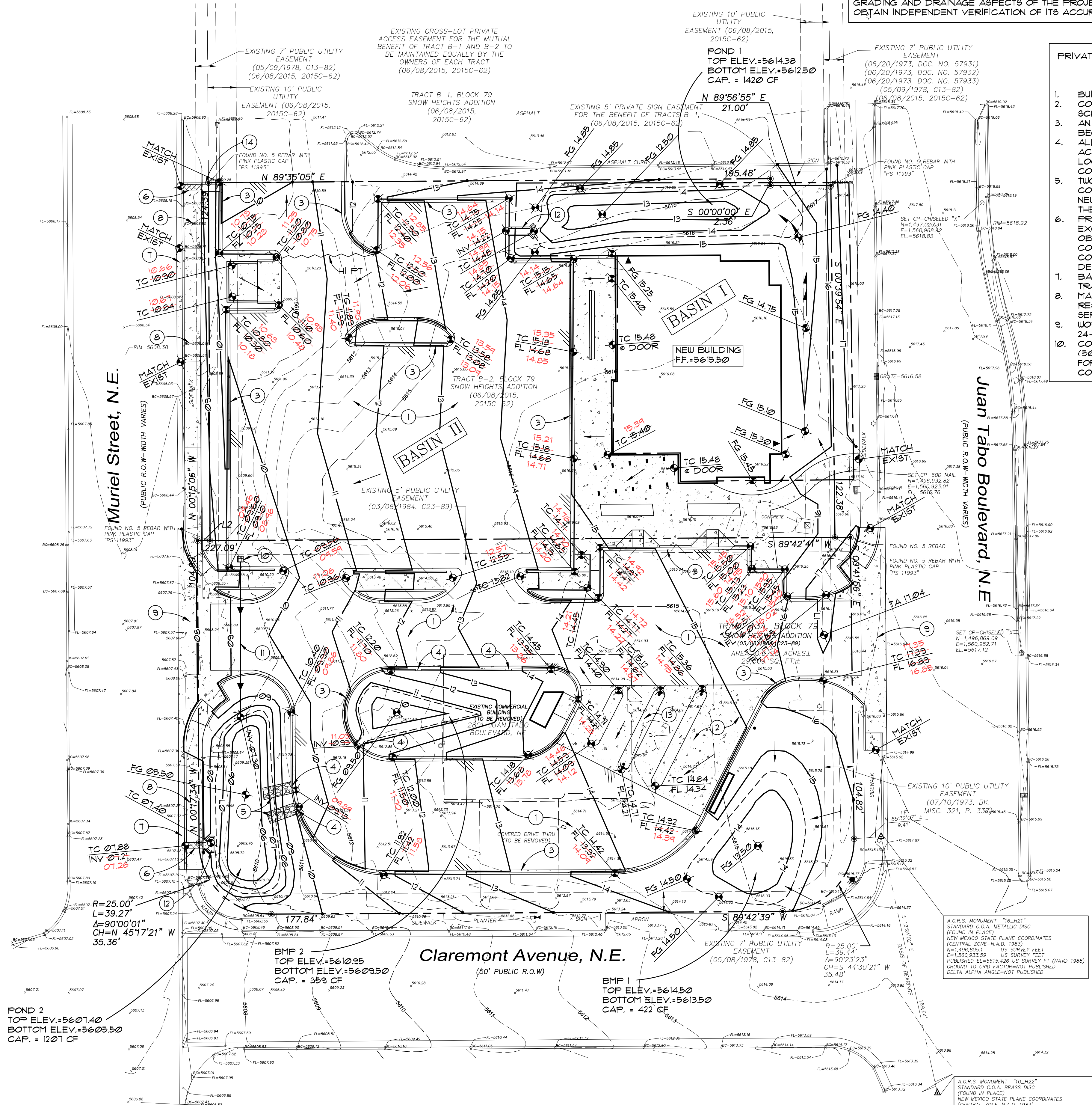
Storm Water Quality Volume (SWQV) Required: Impervious Area = 0.815 Ac

Redeveloped Site Rainfall = 0.26"

SWQV Req'd = $0.26" / 12 \text{ in/ft} \times 0.815 \text{ AC} \times 43560 \text{ sf/AC} = 769.2 \text{ CF}$

SWQV POND 2 VOLUME:	Contour	Area	Volume
	07.40	1300 SF	456 CF
	07.00	928 SF	446 CF
	06.00	594 SF	761 CF
		Sub total	1202 CF

SWQV BMP 2 VOLUME:	Contour	Area	Volume
	10.95	420 SF	359 CF
	10.00	336 SF	279 CF
	Total Volume		1566 CF > 769.2 CF OK



POND 2
TOP ELEV.=5601.40
BOTTOM ELEV.=5605.50
CAP. = 1207 CF

BMP 2
TOP ELEV.=5610.95
BOTTOM ELEV.=5609.50
CAP. = 353 CF

BMP 1
TOP ELEV.=5614.50
BOTTOM ELEV.=5613.50
CAP. = 422 CF

1 | grading and drainage plan
C101
1"=20'-0"