

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

September 8, 2022

Verlyn Miller, P.E.
Miller Engineering Consultants, Inc
3500 Comanche NE Bldg. F
Albuquerque, NM 87107

**RE: Horizon Auto Glass & Tint
8310 San Pedro Dr. NE
Permanent C.O. – Accepted
Engineer's Certification Date: 08/19/22
Engineer's Stamp Date: 02/22/21
Hydrology File: C18D107**

Dear Mr. Miller:

PO Box 1293

Based on the Certification received 08/24/2022 and site visit on 08/05/2022, this certification is approved in support of Permanent Release of Occupancy by Hydrology.

Albuquerque

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

NM 87103

www.cabq.gov

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Horizon Glass **Building Permit #:** _____ **Hydrology File #:** C18D107
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Lot 1, Block 33 of North Albuquerque Acres Tract A Unit 8
City Address: 8310 San Pedro Dr. NE, Albuquerque, NM 87113

Applicant: Horizon Auto Glass & Tint **Contact:** Laura & Rod Williams
Address: 8201 Menaul Blvd. NE, Albuquerque, NM 87110
Phone#: 505-897-9000 **Fax#:** _____ **E-mail:** _____

Other Contact: Miller Engineering Consultants **Contact:** Verlyn Miller, P.E.
Address: 3500 Comanche NE, Bldg. F, Albuquerque, NM 87107
Phone#: 505-888-7500 **Fax#:** 505-888-3800 **E-mail:** vmiller@mecnm.com

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE _____ DRB SITE ☒ ADMIN SITE

IS THIS A RESUBMITTAL? ☒ Yes _____ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE MASTER PLAN
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ OTHER (SPECIFY) _____
- ☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

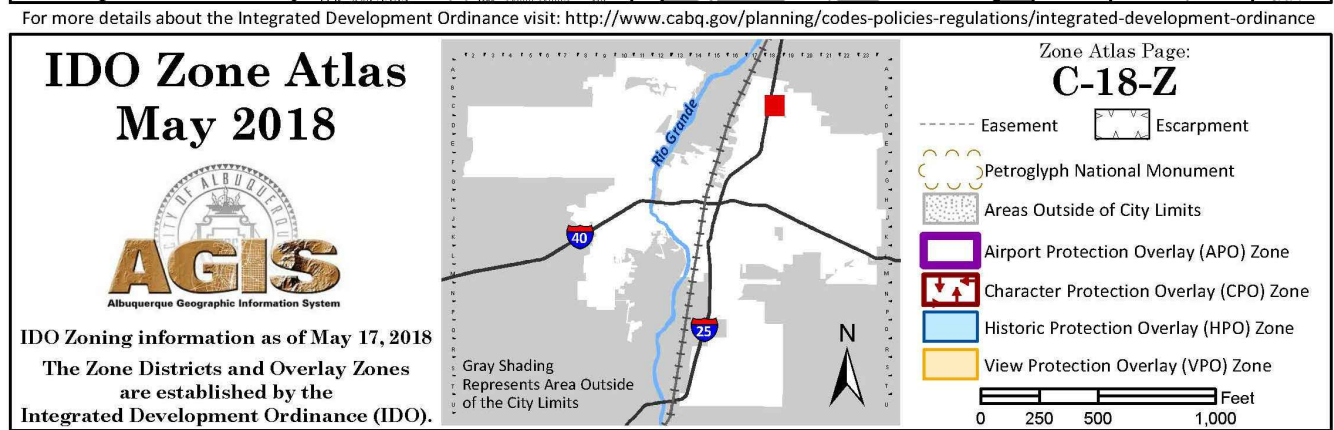
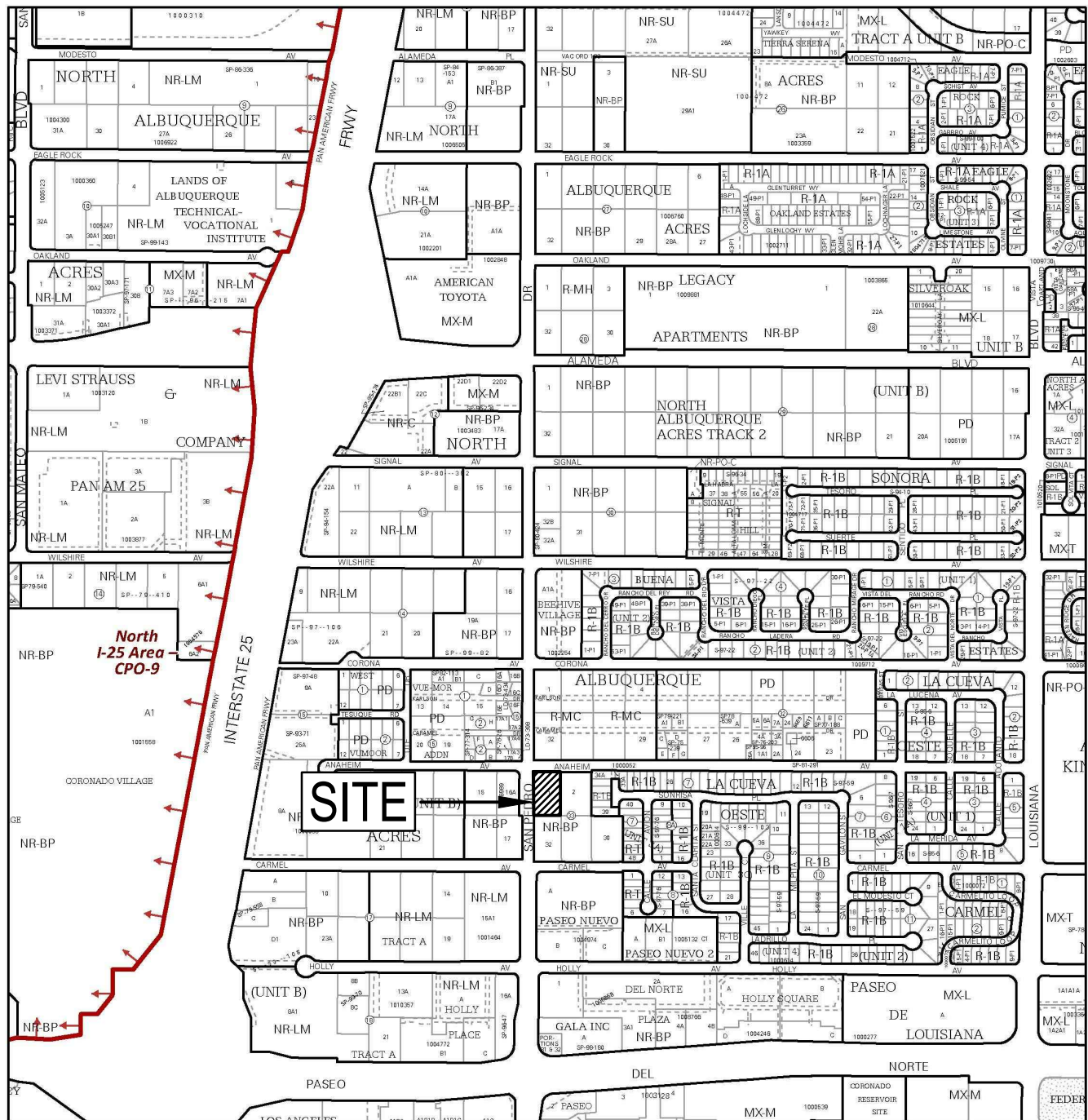
- ☐ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ SITE PLAN FOR SUB'D APPROVAL
- ☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ GRADING/ PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR
- ☐ FLOODPLAIN DEVELOPMENT PERMIT
- ☐ OTHER (SPECIFY) _____

DATE SUBMITTED: 8/22/2022 **By:** Verlyn A. Miller

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

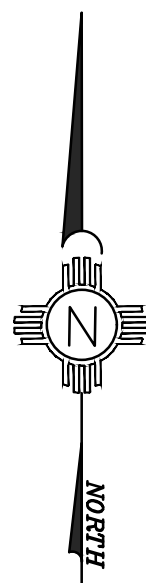


SITE LOCATION
THE PROPOSED SITE IS LOCATED ON THE SOUTHEAST CORNER OF SAN PEDRO DRIVE AND ANAHEIM AVENUE NE. THE SITE CURRENTLY CONSISTS OF A VACANT LOT WITH NO DEVELOPMENT. THE SITE IS BOUND BY ANAHEIM AVENUE ON THE NORTH SIDE, SAN PEDRO DRIVE ON THE WEST SIDE, AN EXISTING COMMERCIAL DEVELOPMENT ON THE EAST SIDE AND THE SOUTH SIDE. THE PROPOSED DEVELOPMENT WILL INCLUDE A NEW COMMERCIAL BUILDING.

EXISTING CONDITIONS
THE EXISTING SITE IS CURRENTLY UNDEVELOPED AND IS COVERED WITH SPARSE VEGETATIVE COVER. THE LACK OF VEGETATION SUGGESTS THAT THE SITE IS EXPERIENCING DISTURBANCE FROM HUMAN ACTIVITY. EXISTING STORM WATER FLOWS WILL SHEET FLOW FROM EAST TO WEST.

PROPOSED CONDITIONS
THE PROPOSED IMPROVEMENTS WILL INCLUDE A COMMERCIAL BUILDING, DRIVEWAY, ASSOCIATED PARKING, AND CONCRETE HARDSCAPE. DRAINAGE FROM THE SITE WILL BE ROUTED THROUGH THE SITE TO ITS HISTORICAL LOCATION.

CONCLUSION
THE INCREASED RUNOFF FROM THE PROPOSED BUILDING ADDITION IS ESTIMATED AT 0.08 ACRE-Feet AND 1.83 CFS DURING THE 100-YEAR EVENT. THE MAJORITY OF THE STORMWATER RUNOFF FROM THE SITE WILL DISCHARGE INTO TWO SMALL WATER HARVEST PONDS LOCATED ALONG THE SOUTH SIDE OF THE SITE. THE CUMMULATIVE VOLUME OF THE TWO WATER HARVEST PONDS IS 915 CUBIC FEET, WHICH IS GREATER THAN THE WATER QUALITY VOLUME REQUIREMENT OF 667 CUBIC FEET. THE WESTERN WATER HARVEST POND WILL BE CONNECTED TO THE FUTURE SD MAIN IN SAN PEDRO VIA A SMALL 18" DIAMETER STORM DRAIN PIPE FROM THE POND.



GENERAL NOTES:

- EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY CSI CARTESIAN SURVEYS, INC. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- ACS STA A-438 BENCH MARK THE TOP OF A STAINLESS STEEL ROD SET BENEATH A 5-1/2" NGS ACCESS COVER STAMPED "A-438 1984" SET FLUSH WITH THE GROUND, LOCATED IN THE NORTHWEST QUADRANT OF MENAUL BOULEVARD AND THE A.T. & S.F. RAILROAD TRACKS INTERSECTION. ELEV. 4975.35 (NAVD 1988)
TBM FOUND 1/2" REBAR WITH CAP "LS 11463" ELEV. 4965.21
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE REGULATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE "GRADING AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."
- THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORMWATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.
- THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WASTE, ETC FROM THE SITE BY WIND, STORM FLOW OR ANY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY THE CITY.
- THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.
- SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
- THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
- THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.
- ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
- THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (UPDATE 8, AMENDMENT 1)
- ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

HYDROLOGY CALCULATIONS

HYDROLOGY									
Precipitation Zone 3 - 100-year Storm				P(360) = 2.6 in		P(1440) = 3.1 in			
Basin	Basin Area (Ac)	Land Treatment Factors				Ew (in)	V(100-6) (af)	V(100-24) (af)	Q(100) (cfs)
		A	B	C	D				
(Acres)									
Existing Conditions									
Site	0.63	0.63	0.00	0.00	0.00	0.66	0.035	0.035	1.18
Total	0.63								1.18
Proposed Conditions									
SITE	0.63	0.00	0.00	0.10	0.53	2.19	0.115	0.137	3.01
Total	0.63								3.01
NOTE: TOTAL SITE AREA AFTER RIGHT OF WAY TAKE.									

NOTE: TOTAL SITE AREA AFTER RIGHT OF WAY TAKE.

WATER HARVEST AREA

EAST WATER HARVEST AREA POND #1				
Pond Rating Table				
Side Slope				
Elev. (ft)	Area (sq ft)	Volume (ac)	Cum Volume (ac-ft)	Cum Volume (ac-ft)
39	156	0.004	0	0
40	495	0.011	0.007	0.007

WEST WATER HARVEST AREA POND #2				
Pond Rating Table				
Side Slope				
Elev. (ft)	Area (sq ft)	Volume (ac)	Cum Volume (ac-ft)	Cum Volume (ac-ft)
35	34.5	0.001	0	0
36	144	0.003	0.002	0.002
37	323	0.007	0.005	0.007
38	286	0.007	0.007	0.014

STORM WATER CALCULATIONS

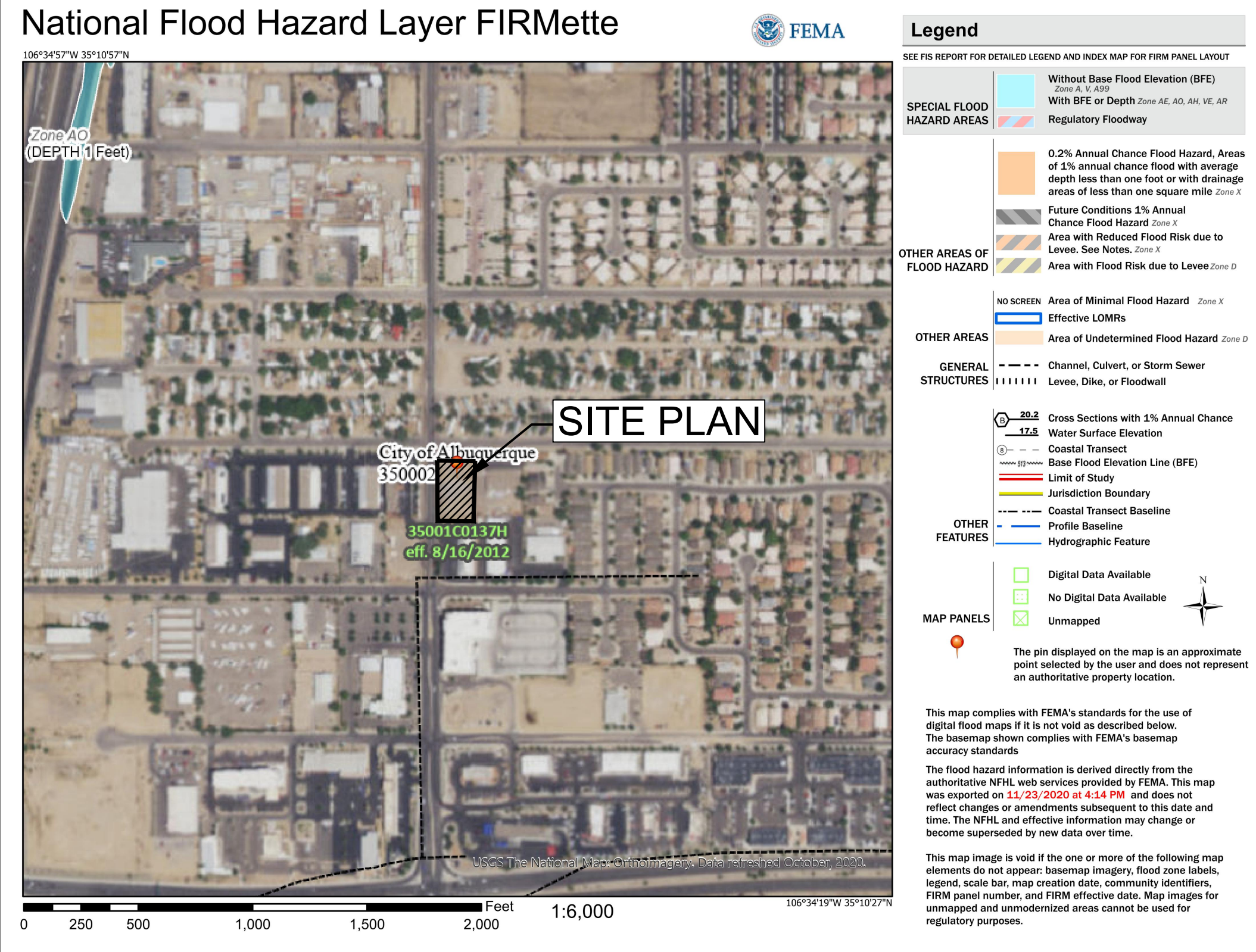
$$VFF = (23,540 \text{ SF} * 0.42") / 12)$$
$$VFF = 823.9 \text{ CF}$$
$$VOLUME PROVIDED 0.021AF = 915 \text{ CF}^*$$

I, VERLYN A. MILLER, NMPE 14507, OF THE FIRM MILLER ENGINEERING CONSULTANTS, INC., 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 CONSTRUCTION DRAWINGS DATED 02/22/2021. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL HAS BEEN OBTAINED BY CSI-CARTESIAN SURVEYS INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON JULY 25, 2022, AND HAVE DETERMINED BY VISUAL INSPECTION THAT 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 A FINAL CERTIFICATE OF OCCUPANCY FROM THE CITY OF ALBUQUERQUE.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING & DRAINAGE ASPECTS OF THE DRAWINGS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSES.

VERLYN A. MILLER 8/19/22 DATE

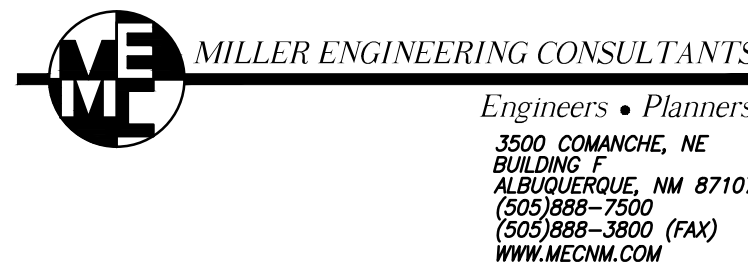
VERLYN A. MILLER II
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
14507



FLOOD ZONE MAP

SCALE: NOT TO SCALE

35001C0137H



relevant design solutions

ARCHIS design

4700 LINCOLN RD NE, SUITE 102 D
ALBUQUERQUE, NEW MEXICO 87109
(505) 998-7717 www.archisdesign.net

HORIZON GLASS
NEW BUILDING
8310 SAN PEDRO DRIVE NE.
ALBUQUERQUE, NEW MEXICO

Project No.
012119

Issue Date:
February 4, 2021

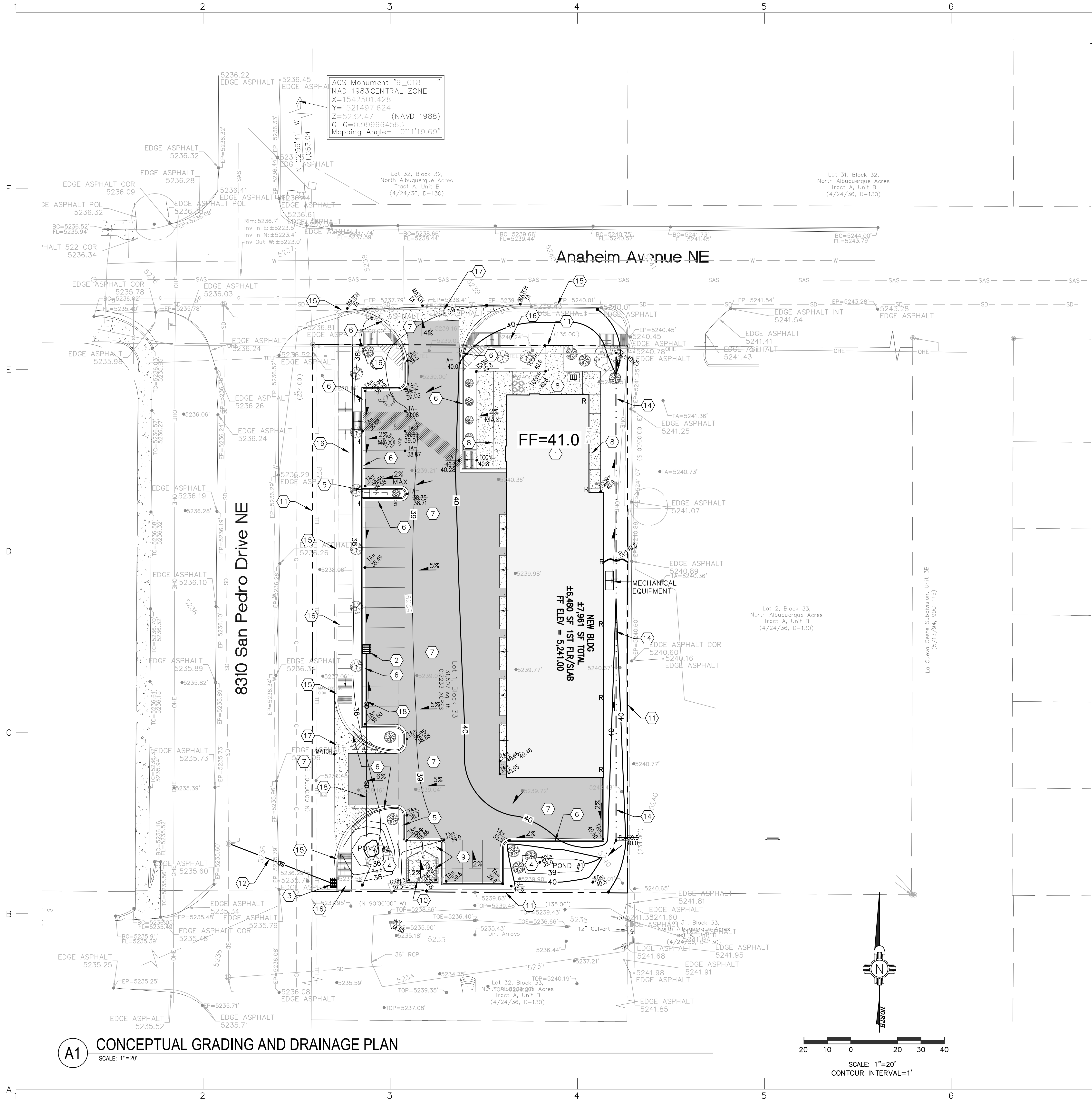
Revisions:	Date:				

Sheet Title:
Hydrology
Report

Sheet No.

C-100

T:\Clients\ARCHIS\Horizon Glass\ACAD\Drawings\Grading & Drainage Plan\AS-BUILT\DWG, C-101, Grading & Drainage Plan, 8/22/2022 11:45:06 AM, Jacques, DWG to PDF.pc3, 11



LEGEND:

38.00 FG	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)	=====	GRADE BREAK-HIGH POINT
MATCH (95.19)	MATCH EXISTING ELEVATIONS	-----	SWALE
TCOR	TOP OF CONCRETE	-----SD-----	STORM DRAIN LINE
FL	FLOW LINE, CURB	-----5895-----	PROPOSED MAJOR CONTOUR
INV	INVERT	-----5895-----	PROPOSED MINOR CONTOUR
FG	FINISH GRADE	-----	EXISTING MAJOR CONTOUR
TBC	TOP OF BASE COURSE	-----	EXISTING MINOR CONTOUR
TC	TOP OF CURB	-----	TOP OF CUT SLOPE
TG	TOP OF GRATE	-----	HIGH POINT
TA	TOP OF ASPHALT	-----	
Flow Arrow	FLOW ARROW	-----	

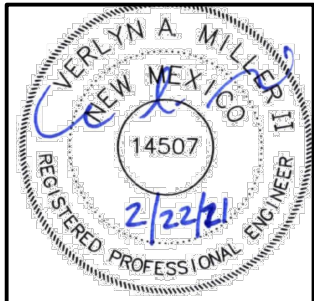
KEYED NOTES

1. PROPOSED NEW BUILDING SEE ARCHITECTURAL DRAWINGS.
2. NEW TYPE "D" SD INLET. TG=38.3, INV=36.0.
3. FUTURE TYPE "C" SD INLET.
4. NEW WATER HARVEST AREA, POND #1 INV=39, POND #2 INV.35.0.
5. NEW 3' CONCRETE CHANNEL.
6. NEW CURB AND GUTTER.
7. NEW HOT MIX ASPHALT PAVING (HMA).
8. NEW SIDEWALK/FLATWORK, SEE ARCHITECTURAL DRAWINGS.
9. NEW HEAVY DUTY CONCRETE PAVING.
10. NEW TRASH ENCLOSURE, SEE ARCHITECTURAL DRAWINGS.
11. APPROXIMATE LOCATION OF PROPERTY LINE.
12. FUTURE 18" SD PIPE.
13. NEW 3' CURB CUT. PER COA STD DWG #2415A.
14. NEW EARTHEN SWALE, SEE SHEET C-501 FOR DETAILS.
15. FUTURE CURB AND GUTTER, PER COA STD DWG #2415A.
16. FUTURE SIDEWALK, PER COA STD DWG #2430.
17. CONCRETE VALLEY GUTTER AND FILLETS PER COA DWG. #2420. COORDINATE WITH CITY INFRASTRUCTURE PROJECT.
18. 78 LF OF 12" SD PIPE @ 1% MIN. SLOPE.

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VERLYN A. MILLER 8/19/22 DATE



ME MILLER ENGINEERING CONSULTANTS
Engineers • Planners
3000 COMANCHE, NE
ALBUQUERQUE, NM 87107
(505) 988-7500
(505) 988-3800 (FAX)
WWW.MECNM.COM

relevant design solutions

ARCHIS design LLC
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HORIZONG LASS
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ALBUQUERQUE, NEW MEXICO

Project No.
012119
Issue Date:
February 4, 2021

Revisions:					
Date:					

Sheet Title:
Conceptual
Grading and
Drainage Plan

Sheet No.

C-101