CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



January 22, 2024

Ted L. Barber, P.E. Incline Engineering 236 Tano Road Santa Fe, NM 887506

RE: 9101 Central Ave NW

Grading and Drainage Plans Engineer's Stamp Date: 01/10/24

Hydrology File: K09D002

Dear Mr. Barber:

PO Box 1293

Based upon the information provided in your submittal received 01/12/2024, the Grading & Drainage Plans **are not** approved for Building Permit and Grading Permit. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

1. Per the DPM, the following must be on the Grading Plan. Please note the Grading Plan must be a stand-alone construction document.

NM 87103

- a. Please provide the Benchmark information (location, description and elevation) for the survey contour information provided.
- b. Please provide a legal Description of the property.

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- 2. Please use the procedure for 40 acre and smaller basins as outlined in Development Process Manual (DPM) Article 6-2(a). Please provide both the existing conditions and proposed conditions for the 100 year-6 hour storm event.
- 3. Please follow the DPM Article 6-12 Stormwater Quality and Low-Impact Development for the sizing calculations. To calculate the required SWQV, multiply the impervious area (Square feet) draining to the BMP by 0.42 inches for new development sites divided by 12 to get the required volume in cubic feet. The calculations of both the required and the provided volume of each BMP must be shown on the Grading and Drainage Plan. Each BMP should be labeled on the Grading and Drainage Plan with the required SWQV and associated water surface elevation and the 100-year water surface elevation. Landscaping of surface BMPs is also required to be noted on the Grading and Drainage Plan.
- 4. Please provide a section of the SWQ Pond showing the water surface elevation (the SWQ volume), the retaining wall with footer, distance from the wall to the property line, label the Central Rd R.O.W., please show the spillway of the SWQ pond to the existing

CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

roadside ditch in the Central Rd. R.O.W. and make a note that the retaining wall below the water surface elevation shall be water proofed per City specifications.

- 5. I have seen the spillway as a gap in the wall, so if you do this, please show the detail of that section and provide the weir calculation for it. (see below)
- 6. Please provide the weir calculations, per DPM Article 6-16(A), for the curb cuts and sidewalk culverts. A coefficient of 2.7 is typically used for the weir equation $Q = CLH^{2/3}$.
- 7. If this applies, please note for trash enclosures serving food service developments, trash enclosures must demonstrate control of liquids from dumpster areas per DPM by containing runoff from the dumpster area, preventing outside drainage from entering the dumpster area, and discharging to the sanitary sewer. Please show an inlet in the middle and label. "Inlet to be connected to the sanitary sewer. See Utility Plan."
- 8. Under the Existing Conditions, please state that this site is within the Amole-Hubbell Master Drainage Plan by Wilson (2013) and has a discharge rate of 4.11 cfs/ac.

PO Box 1293

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, 924-3420) 14 days prior to any earth disturbance.

Albuquerque

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

NM 87103

Sincerely,

www.cabq.gov

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

Renée C. Brissette



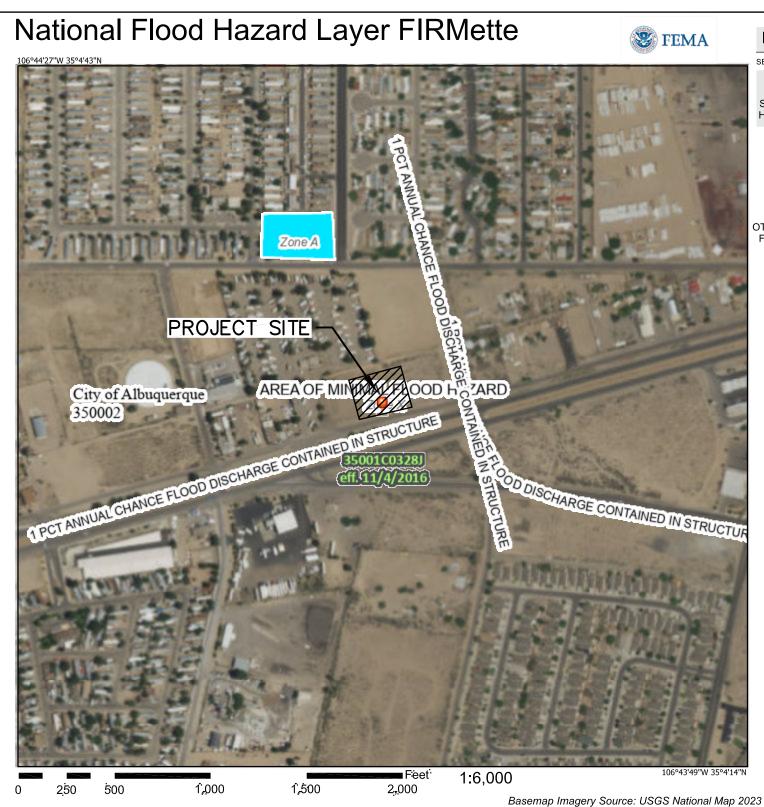
City of Albuquerque Planning Department

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

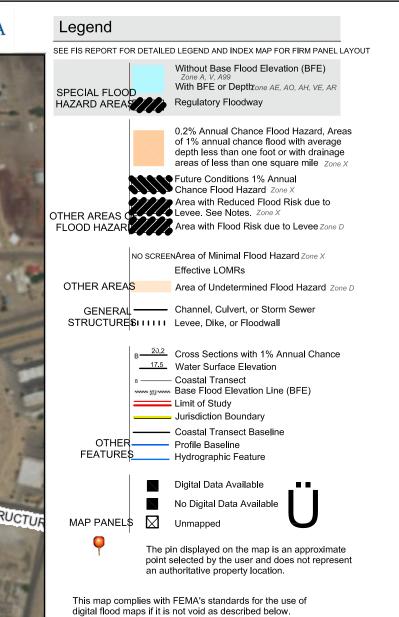
Project Title:		Hydrology File #				
Legal Description:						
City Address, UPC, OR Parcel:						
Applicant/Agent:		Contact:				
		Phone:				
Email:						
Applicant/Owner:		Contact:				
		Phone:				
Email:						
(Please note that a DFT SITE is on	e that needs Site Plan A	approval & ADMIN SITE is one that does not need it.)				
TYPE OF DEVELOPMENT:	PLAT (#of lots)	RESIDENCE				
	DFT SITE	ADMIN SITE				
RE-SUBMITTAL: YES	NO					
	110					
DEPARTMENT: TRANS	SPORTATION	HYDROLOGY/DRAINAGE				
Check all that apply under Both	the Type of Submittal	and the Type of Approval Sought:				
TYPE OF SUBMITTAL:		TYPE OF APPROVAL SOUGHT:				
ENGINEER/ARCHITECT CE	RTIFICATION	BUILDING PERMIT APPROVAL				
PAD CERTIFICATION		CERTIFICATE OF OCCUPANCY CONCEPTUAL TCL DFT APPROVAL				
CONCEPTUAL G&D PLAN						
GRADING & DRAINAGE PL	AN	PRELIMINARY PLAT APPROVAL				
DRAINAGE REPORT		FINAL PLAT APPROVAL				
DRAINAGE MASTER PLAN		SITE PLAN FOR BLDG PERMIT DFT				
CLOMR/LOMR		APPROVAL				
TRAFFIC CIRCULATION LA	AYOUT (TCL)	SIA/RELEASE OF FINANCIAL GUARANT				
ADMINISTRATIVE		FOUNDATION PERMIT APPROVAL				
TRAFFIC CIRCULATION LA APPROVAL	AYOUT FOR DFT	GRADING PERMIT APPROVAL				
TRAFFIC IMPACT STUDY (TIS)	SO-19 APPROVAL				
STREET LIGHT LAYOUT	110)	PAVING PERMIT APPROVAL				
OTHER (SPECIFY)		GRADING PAD CERTIFICATION				
official (of Eon 1)		WORK ORDER APPROVAL				
		CLOMR/LOMR				
		OTHER (SPECIFY)				
DATE SUBMITTED:						

REV. 09/13/23



FLOOD ZONE/OFF SITE BASIN MAP

SCALE: NOT TO SCALE



The basemap shown complies with FEMA's basemap

was exported on 1/10/2024 at 1:04 PM and does not eflect changes or amendments subsequent to this date and

become superseded by new data over time.

#35001C03281

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map

time. The NFHL and effective information may change or

This map image is void if the one or more of the following map

elements do not appear: basemap imagery, flood zone labels

FIRM panel number, and FIRM effective date. Map images for

unmapped and unmodernized areas cannot be used for

GENERAL NOTES:

- 1. EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY THE OWNERS. ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- 3. CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
- 4. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- 5. 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
- 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."
- 8. THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- 9. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORM WATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.

- 10. 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.
- 11. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE
- 12. SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
- 13. 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.
- 14. 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
- 15. 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.
- 16. THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
- 17. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (UPDATE 8, AMENDMENT 1).
- 18. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

No.	Issue / Description
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IN WAINING OF AM PERCEIVED BEACH OF COMESSIONS IN THE PLANS AND PERCEIVED OF THE WHOLE AND EXPERIENCE THEOGRAPH (MONUELEGEREE WITH THE BUILDING CODES AND METHODS OF CONSTRUCTION SHOULD REASONABLY BE AWARE, WRITTEN INSTRUCTIONS ADDRESSING SUCH PERCEIVED BEACHE OF MISSIONS SHALL BE RECEIVED FROM THE ARCHITECT PROR TO THE CLIENT OR CULTUS SUPCONTRACTORS PROCEDURE WITH THE WORK. THE CLIENT WILL BE RESPONSIBLE FOR ANY DEFECTS IN CONSTRUCTION IF THESE PROCEDURES ARE NOT FOLLOWED

NEW CONSTRUCTION

9101 CENTRAL AVENUE NW

FOR

ALBUQUERQUE NEW MEXICO





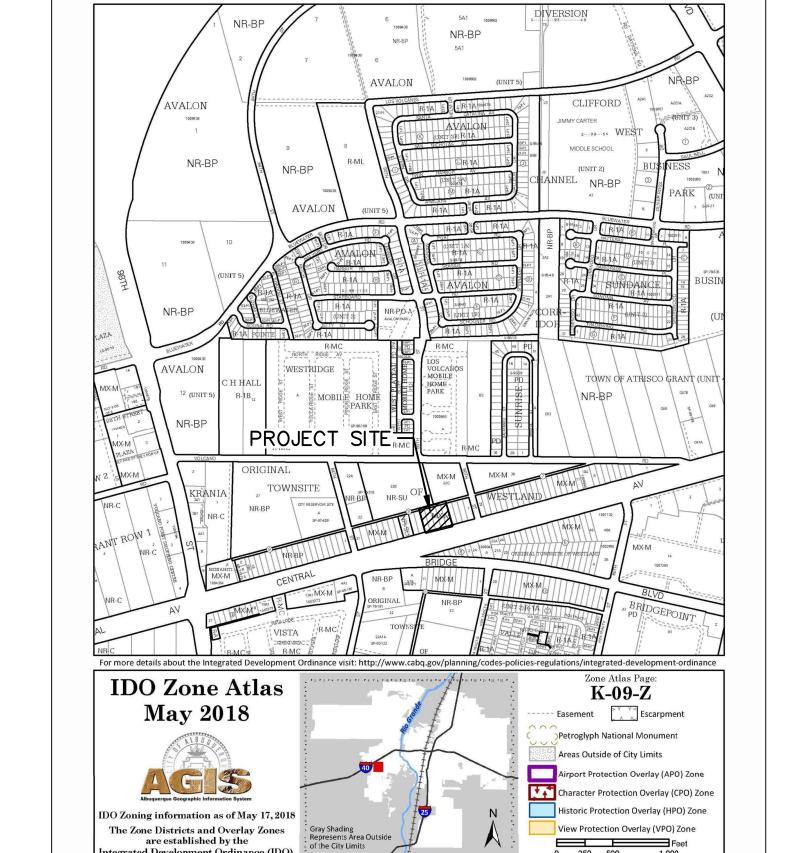


Liscense Stamp :

TED L. BARBER, PE INCLINE ENGINEERING 236 TANO ROAD SANTA FE, NM 505-577-6747

HYDROLOGY PLAN

C-100



Prcipatation Depth (as per COA Chapter 22 table A-2) 100 yr storm					storm	P100-6 =	2.17	P100-24 = 2.49	
Peak Discharg (as per COA Chapter 22 table A-9) 100 yr storm					า	Q/acre (100 yr) Treatment A = 1.54			
						Q/acre (100 yr) Treatment B =			
						Q/acre(100 yr) Treatment $C = 2.8$			
						Q/acre (10	00 yr) Treatment D =	4.12	
Basin	Basin Area (acre)	Land Treatment Area (arce)							
	(as per COA Chapter 22 Table A-4)					Ew (in)	Vol(100-6) (acft)	Vol(100-24) (acft)	Q (100) (cfs)
		А	В	С	D				
Existing	Conditions								
Site	1.15	1.15				0.55	0.053	0.083	1.771
Total									
Propose	ed Conditions								
Site	1.15			0.20	0.95	2.02	0.194	0.219	4.49
Total									
First Flu	sh Calculations								
Require	d Retention Pond Vo	olume=	0.95	X	0.44	=	1525	cuft =	0.0350

Depth needed =

3.9 ft

Elev	Area		Volume	Cum	Cum
LIEV				Volume	Volume
(ft)	(sqft)	(acre)	(acre-ft)	(acre-ft)	(cf)
5145.5	388	0.0089	0.0000	0	
5146.5	388	0.0089	0.0089	0.0089	
5147.5	388	0.0089	0.0089	0.0178	
5148.5	388	0.0089	0.0089	0.0267	
5149.5	388	0.0089	0.0089	0.0356	1552

PROPOSED CONDITIONS

EXISTING CONDITIONS

right on Central Ave. (see vicinity map this sheet).

The proposed project will consist of a new building and parking lot. The site impervious area under proposed conditions will be 41579 sf. The new parking lot will be graded to drain south and east toward a new drainage pond located on the southeast corner of the site. The drainage calculations for proposed conditions are indicated on this sheet.

The existing site is an approximate 1.15-aere site located at 9101 Central Ave. NW. The site is bounded on

the south side by Central Ave, the north and west side by existing developmentt, and the east side by a vacant lot. This site can be accessed by going I-40 west, taking the Coors exit south, and then turning

The existing site is estimated at 1.15 acres and is developed with the natural vegetation of the land.

The site docs not lie within a 100 year FEMA floodplain (sec FEMA panel on this sheet). The site is

not adversely impacted by offsite flows. The site currently slopes from east to west.

There is currently no development on the site. The runoff from this site is 1.771 cfs under existing

CONCLUSIONS

HYDROLOGY

conditions.

SITE LOCATION

When fully developed as indicated on the grading and drainage plan, the increased runoff from the site is estimated al 2.72 cfs and 0.136-acrc feet during the 100-ycar, 24-hour event. The first flush pond volume for the new impervious area is 1525 cf. A new retention pond has been provided on the southeast comer of the site to retain the first flush storm event which is 1552 cf.

VICINITY MAP

SCALE: NOT TO SCALE

