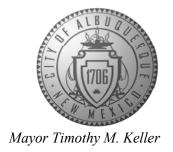
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



February 20, 2024

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

RE: 2411 Alamo Ave SE

Grading and Drainage Plans Engineer's Stamp Date: 02/19/24 Hydrology File: M16D003A

Dear Mr. Barber:

Based upon the information provided in your submittal received 02/06/2024, the Grading & Drainage Plans are 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.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

NM 87103

2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for \$25.00 made out to "Bernalillo County" for the stormwater quality pond per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.

www.cabq.gov

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.

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

Sincerely,

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

Renée C. Brissette

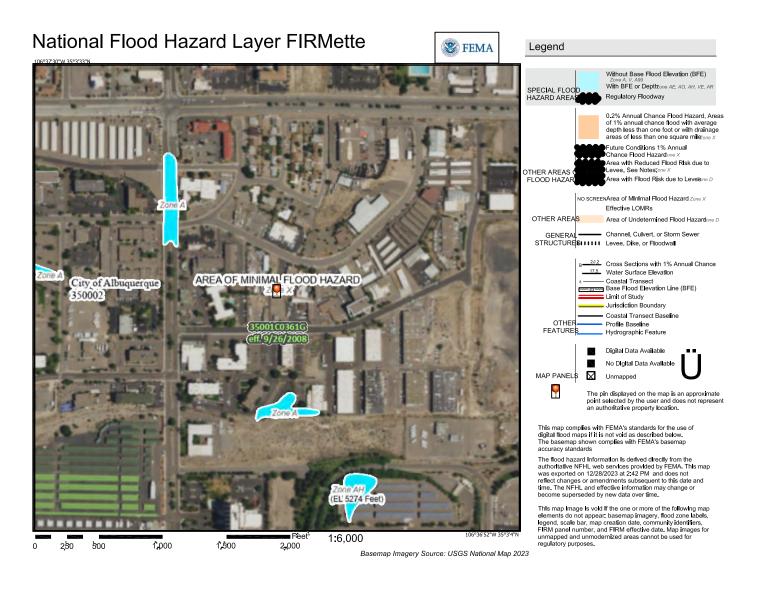


City of Albuquerque

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:
		Phone:
Email:		
Applicant/Owner:		Contact:
Address:		Phone:
Email:		
(Please note that a DFT SITE is or	ne that needs Site Plan A	pproval & 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: TRANS		HYDROLOGY/DRAINAGE
——————————————————————————————————————	STORTATION	III DROEOG I/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 G&D PLAN		CONCEPTUAL TCL DFT APPROVAL
GRADING & DRAINAGE PI	LAN	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 GUARANTEE
ADMINISTRATIVE		FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LA APPROVAL	AYOUT FOR DFT	GRADING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS)	SO-19 APPROVAL
STREET LIGHT LAYOUT		PAVING PERMIT APPROVAL
OTHER (SPECIFY)		GRADING PAD CERTIFICATION
(20 1)		WORK ORDER APPROVAL
		CLOMR/LOMR
		OTHER (SPECIFY)
DATE SUBMITTED:		





City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED

DATE: 02/20/24

BY: M16D003A

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE
CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY
ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT
THE CITY OF ALBUQUERQUE FROM REQUIRING
CORRECTION, OR ERROR OR DIMENSIONS IN PLANS,
SPECIFICATIONS, OR CONSTRUCTIONS, SUCH APROVED PLANS

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

Hydrology (COA DPM Part 6-2(A) Procedure for 40-Acre and Smaller Basins)					
Precipatation Zone (as per COA DPM Chapter 6 FIGURE 6.2.3 Precipitation Zones) = Zone	e 3				
Precipatation Depth (in) (as per COA DPM Chapter 6 TABLE 6.2.8) 100 yr storm	Р) ₁₀₀₋₆ =	2.4	13 P ₁₀₀₋₂₄ =	2.84
Peak Discharge (as per COA DPM Chapter 6 6.2.14) 100 yr storm	Q	Q _{PA} (cfs/ac) T	reatment A =	1.84	
	Q	Q _{PB} (cfs/ac) Ti	reatment B =	2.49	
	Q	Q _{PC} (cfs/ac) Ti	reatment C =	3.17	
	Q	Q _{PD} (cfs/ac) T	reatment D =	4.49	
6-HOUR Excess Precipitation, E (in.) (as per COA DPM Chapter 6 TABLE 6.2.13)	_				
Land Trea	atment	А	В	С	D
Excess Precipitatio	on(in) E	0.67	0.86	1.09	2.58

Existing Con	ditions									
Basin	Basin Area (acre)		Land Treat	ment Area	a (arce) A		E _w (in)	V ₃₆₀ (acft)	V ₁₄₄₀ (acft)	Q ₃₆₀ (cfs)
			A _A	A_B	Ac	A_D				
Site		0.41	0	0	0.41	0	1.09	0.037	0.037	1.30
Full Develop	ment Conditions									
Site		0.41	0	0	0.19	0.22	1.89	0.065	0.072	1.59

Weighted $E_W = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$ $V_{360} = E_W * A / 12 in/ft$ $V_{1440} = V_{360} + A_D * (P_{1440} - P_{360}) / 12 in/ft$ $Q_P = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$

First Flush Calculations (as per COA DPM 6-12)

Required Water Quality Retention Pond Volume=	0.22	Χ	0.42	=	335 cuft
			Area Pond =		250 saft

Area Pond =	250 s
Depth required =	1.3 f
Depth provided=	1.5 f

> 335

Pond Rating Table

П	A ::		Malina	Cum	Cum
Elev	Area		Volume	Volume	Volume
(ft)	(sqft)	(acre)	(acre-ft)	(acre-ft)	(cf)
5226.5	250	0.0057	0.0000	0.0000	0
5227	250	0.0057	0.0029	0.0029	125
5228	250	0.0057	0.0057	0.0086	375

			L (crest		H ^{3/2} (Ht. of]		
Wier Design Flow for Pond Outlet	С		length ft)		flow = 7")			
(COA DPM Chapter 6 6-16(A)) Q (cfs) =	2.7	×	2	×	0.45	=	2.4	> 1.59

LEGAL DESCRIPTION

TRACT 2-B-2 IN BLOCK NUMBERED TWO (2) OF AIRPORT INDUSTRIAL PARK, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE REPLAT OF TRACT "2-B", BLOCK 2 OF SAID SUBDIVISION, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON OCTOBER 27, 1988, IN MAP BOOK C37, FOLIO 149.

<u>BENCHMARK</u>

NAVD 88 - ACS MONUMENT "19-L16" HAVING AN ELEVATION OF 5297.506 FEET.

SITE LOCATION

The existing site is an approximate 0.41—acre site located at 2411 Alamo Ave. SE. The site is bounded on the south side by Alamo Ave., the north, west, and east sides by existing development. This site can be accessed by going I—25 south, taking the Gibson exit east, and then turning right on Yale Blvd, and left on Alamo Ave. (see vicinity map this sheet).

EXISTING CONDITIONS

The existing site is estimated at 0.41 acres and is an undeveloped commercial lot.

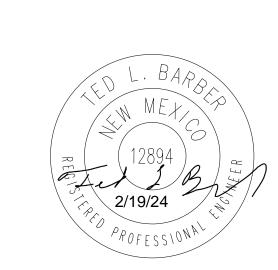
The runoff from this site is 1.30 cfs for the 100—yr, 6—hour storm under existing conditions.

The site does not lie within a 100 year FEMA floodplain (sec FEMA panel on this sheet). The site currently slopes from northeast to southwest.

FULLY DEVELOPED CONDITIONS

The proposed project consist of grading for a future slab location for a metal shop building, base course parking lot, and installation of a portable building (on site currently) on a permanent foundation. The site impervious area under proposed conditions will be 0.22 acre ft. The new parking lot will be graded to drain west to storm drain inlets. Future shop building will have rain gutters that outlet to 24" inlets with connecting 8"storm drain pipe. The drainage calculations for proposed conditions are indicated on this sheet above. When fully developed as indicated on the grading and drainage plan, the increased runoff from the site is estimated at 1.59 cfs during the 100—year, 6—hour storm. The first flush pond SWQ volume for the new impervious area is 335 cf. A new retention pond has been provided on the southwest comer of the site to retain the first flush storm event which is 375 cf. Two 8" storm drain lines tie into the retention pond delivering on site runoff. One 8"\$\phi\$ storm drain serves as an outlet to the retention pond and will conveys 1.59 cfs flow. This 8"\$\phi\$ storm drain outlet extends to Alamo Ave. as shown on this plan and outlets at a concrete transition tied to a 24" (B=7") sidewalk culvert.





No.	Revision/Issue	Date

General Notes

Firm Name and Address
INCLINE ENGINEERING
TED L. BARBER, PE
236 TANO ROAD
SANTA FE, NM 87506
(505)577-6747

Project Name and Address

SITE IMPROVEMENTS 2411 ALAMO AVE SE ALBUQUERQUE, NM

Sheet	Project
	Date
	Scale
	Scale

