

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

April 18, 2022

Jeffrey T. Wooten, P.E.
Wooten Engineering
PO Box 15814
Rio Rancho, NM 87174

**RE: Avalon Subdivision – 98th & Bluewater
Grading & Drainage Plan
Engineer's Stamp Date: 04/05/22
Hydrology File: K09D048**

Dear Mr. Wooten:

Based upon the information provided in your submittal received 04/05/2022, the Grading and Drainage Plans are approved for Grading Permit, Paving Permit, and for Work Order. Please place this stamp approved Grading & Drainage Plan to the Work Order set of construction drawings.

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

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11-2018)

Project Title: RS Bluewater Addition **Building Permit #:** _____ **Hydrology File #:** K09/D048
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Old: Avalon Subdivision, Unit 5, Tract 12; New: RS Bluewater Addition
City Address: Not Yet Assigned

Applicant: Wooten Engineering **Contact:** Jeffrey T. Wooten, P.E.
Address: PO Box 15814, Rio Rancho, NM 87174
Phone#: 505-980-3560 **Fax#:** N/A **E-mail:** jeffwooten.pe@gmail.com

Owner: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF SUBMITTAL: _____ PLAT (____ # OF LOTS) _____ RESIDENCE _____ DRB SITE ☒ ADMIN SITE

IS THIS A RESUBMITTAL?: ☒ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION ☒ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

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

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

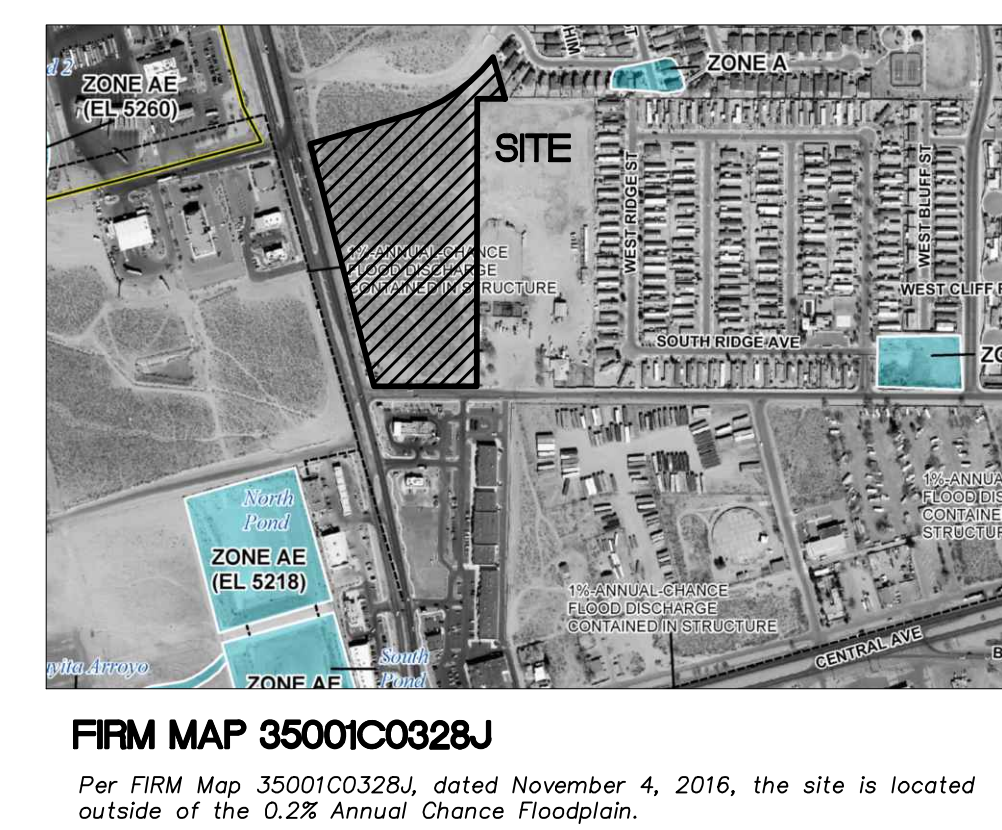
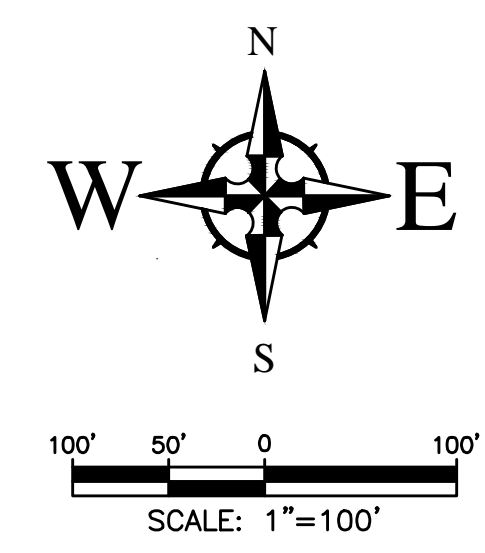
____ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
☒ FINAL PLAT APPROVAL
____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19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

DATE SUBMITTED: April 5, 2022 **By:** Jeffrey T. Wooten, P.E.

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



Proposed 98th / Bluewater Commercial Drainage Calculations												
Ultimate Development Conditions Basin Data Table												
This table is based on the COA DPM Chapter 6.2, Zone: 1												
BASIN	Area (SQ. FT)	Area (AC)	Land Treatment Percentages				Q(100) (cfs/ac.)	Q(100) (CFS)	WTE (inches)	V(100) ₃₈₀ (CF)	V(100) ₁₄₄₀ (CF)	V(100) _{today} (CF)
A-1	75794	1.74	0.0%	0.0%	10.0%	90.0%	4.22	7.34	1.87	11824	14098	20919
A-2	14048	0.32	0.0%	0.0%	10.0%	90.0%	4.22	1.36	1.87	2191	2613	3877
A-3	9736	0.22	0.0%	0.0%	10.0%	90.0%	4.22	0.94	1.87	1519	1811	2687
B-1	285365	6.55	0.0%	0.0%	10.0%	90.0%	4.22	27.65	1.87	44517	53078	78761
B-2	173816	3.99	0.0%	0.0%	10.0%	90.0%	4.22	16.84	1.87	27115	32330	47973
C	428412	9.83	0.0%	0.0%	10.0%	90.0%	4.22	41.50	1.87	66832	79685	118242
TOTAL	987171	22.66						95.64		153999	183614	272459

DRAINAGE MANAGEMENT PLAN

INTRODUCTION
The purpose of this submittal is to provide a final drainage management plan for the 98th / Bluewater Commercial Project, located at the SEQ of 98th St and Bluewater Rd in Albuquerque, NM.. The site contains approximately 10.50 acres.

EXISTING HYDROLOGIC CONDITIONS
The site is currently vacant and drains via surface flow from northwest to southeast. 98th St currently drains from north to south in an existing swale/bar ditch. Per the Basin Map sheet, all of these Basins drain into Volcano Rd and then eastward to an existing cattle guard inlet which connects to an existing 48" Storm Drain pipe. Per the 2013 Amole Hubbell Drainage Master Plan, this area is defined as Basin TB204 and is allowed to discharge the site at a rate of 4.27 cfs/acre.

PROPOSED HYDROLOGIC CONDITIONS

As noted above, our site is allowed to discharge up to 4.27 cfs/acre into the downstream systems. This accounts for the developed flows from our site at a 47-90% pervious land treatment. Each of the six (6) parcels (Parcels A-F) will provide for a pervious quality ponding pond to capture 0.24 cfs/acre of the Drainage Calculations. Total of the basins draining to the existing 48" Storm Drain in Volcano Rd will be at the rate of 4.22 cfs/acre, which is less than the allowable discharge rate of 4.27 cfs/acre. The new Storm Drain systems and ponds are being designed to capture 0.285 cfs/acre to capture the flows as identified in the Drainage Calculations table.

CONCLUSION
This drainage management plan provides for grading and drainage elements which are capable of safely passing the 100 year storm, does not burden downstream systems, meet city requirements, and the intent of the 2013 Amole Hubbell Drainage Master Plan. The proposed improvements to the site should not have any negative impacts to facilities downstream. With this submittal, we are requesting Preliminary and Final Plat approval.

[illegible]

City of Albuquerque
Planning Department
Development Review Services

HYDROLOGICAL

APPROVED


DATE: 04/18/22
BY: *Renee C. Brissette*
HydroTrans # K09D048

THE APPROVAL OF THIS PLANNING REVIEW SHALL NOT BE
CONSIDERED TO PREVENT VIOLATION OF ANY CITY,
ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT
THE CITY OF ALBUQUERQUE FROM ENFORCEMENT OF
ANY CITY, STATE OR FEDERAL LAW, OR ANY CITY,
SPECIFICATIONS, OR CONSTRUCTION (SUCH AS APPROVED AND AS
SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT
AUTHORIZATION.

CAUTION:

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

CITY OF ALBUQUERQUE PUBLIC WORKS DIVISION ENGINEERING GROUP				
98th / Bluewater Commercial Development <i>DRAINAGE MANAGEMENT PLAN</i>				
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO. 676285		ZONE MAP NO. K-9-Z	SHEET # 1 of	


Wooten Engineering
 PO Box 15814
 Rio Rancho, N.M. 87174
 Phone: (505) 980-3560

CITY OF ALBUQUERQUE PUBLIC WORKS DIVISION ENGINEERING GROUP			
98th / Blewater Commercial Development <i>OVERALL GRADING PLAN</i>			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.
			MO./DAY/YR.
			MO./DAY/YR.
			MO./DAY/YR.
			MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO.	SHEET #	
676285	K-9-Z	2 of	