

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Interim Director



Mayor Timothy M. Keller

September 2, 2021

David Thompson, PE  
Thompson Engineering Consultants, Inc.  
PO Box 65760  
Albuquerque, NM 87193

**RE: Ventana Square Subdivision  
9500 Universe NW  
Revised Grading and Drainage Plans  
Engineer's Stamp Date: 07/30/21  
Hydrology File: B10D003C3**

Dear Mr. Thompson:

PO Box 1293

Based upon the information provided in your submittal received 07/30/2021, the Revised Grading and Drainage Plans are approved for Grading Permit, Paving Permit, and for Work Order.

Albuquerque

NM 87103

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](mailto:jhughes@cabq.gov), 924-3420) 14 days prior to any earth disturbance.

[www.cabq.gov](http://www.cabq.gov)

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

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 11/2018)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Applicant:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**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) \_\_\_\_\_

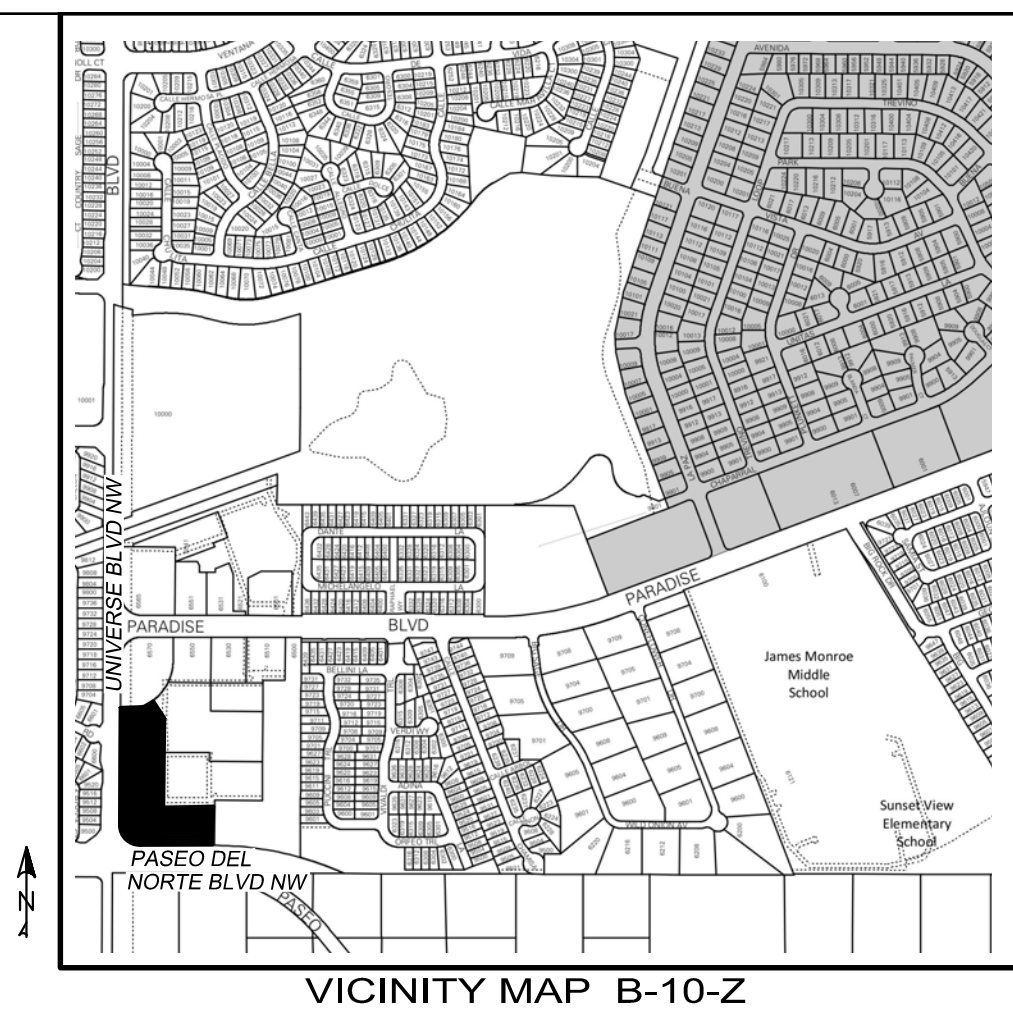
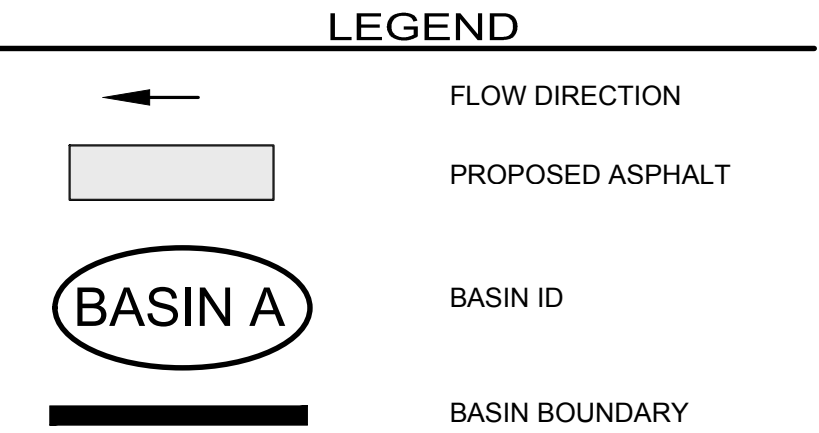
**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

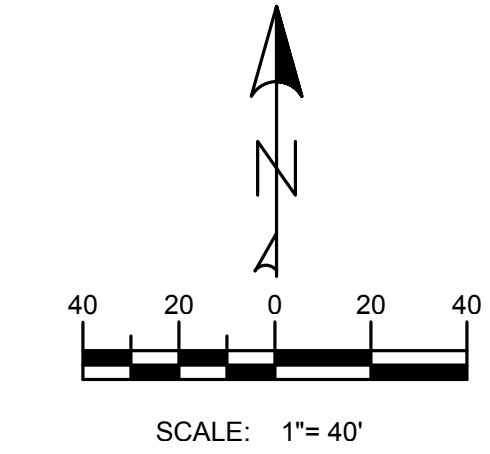
FEE PAID: \_\_\_\_\_





100-YEAR HYDROLOGIC CALCULATIONS											
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)	E (in)	V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(10-day) (acre-ft)	V(10-day) (cu-ft)	Q (cfs)
EXISTING CONDITIONS											
A	1.3516	0.00	0.00	100.00	0.00	0.99	0.11	4,857	0.11	4,857	3.88
B	0.9707	0.00	0.00	100.00	0.00	0.99	0.08	3,488	0.08	3,488	2.79
C	0.8607	0.00	0.00	100.00	0.00	0.99	0.07	3,093	0.07	3,093	2.47
D	0.1126	0.00	0.00	100.00	0.00	0.99	0.01	405	0.01	405	0.32
E	1.2271	0.00	0.00	100.00	0.00	0.99	0.10	4,410	0.10	4,410	3.52
F	1.2502	0.00	0.00	100.00	0.00	0.99	0.10	4,493	0.10	4,493	3.59
G	1.0982	0.00	0.00	100.00	0.00	0.99	0.09	3,947	0.09	3,947	3.15
H	0.2714	0.00	0.00	100.00	0.00	0.99	0.02	975	0.02	975	0.78
I	0.2126	0.00	0.00	100.00	0.00	0.99	0.02	764	0.02	764	0.61
J	0.6009	0.00	0.00	100.00	0.00	0.99	0.05	2,159	0.05	2,159	1.72
TOTAL RUNOFF	7.9560						0.66	28,591	0.66	28,591	22.83
FULL DEVELOPMENT CONDITIONS											
A	1.3516	0.00	7.50	7.50	85.00	1.80	0.20	8,826	0.37	16,041	5.52
B	0.9707	0.00	7.50	7.50	85.00	1.80	0.15	6,339	0.26	11,521	3.96
C	0.8607	0.00	7.50	7.50	85.00	1.80	0.13	5,621	0.23	10,215	3.51
D	0.1126	0.00	7.50	7.50	85.00	1.80	0.02	735	0.03	1,336	0.46
E	1.2271	0.00	7.50	7.50	85.00	1.80	0.18	8,013	0.33	14,564	5.01
F	1.2502	0.00	7.50	7.50	85.00	1.80	0.19	8,164	0.34	14,838	5.10
G	1.0982	0.00	7.50	7.50	85.00	1.80	0.16	7,172	0.30	13,034	4.48
H	0.2714	0.00	15.00	0.00	85.00	1.78	0.04	1,749	0.07	3,197	1.09
I	0.2126	0.00	5.00	0.00	95.00	1.91	0.03	1,470	0.06	2,739	0.90
J	0.6009	0.00	25.00	13.00	62.00	1.52	0.08	3,310	0.13	5,650	2.16
TOTAL RUNOFF	7.9560						1.18	51,400	2.14	93,134	32.20
EXCESS PRECIP.		0.44	0.67	0.99	1.97	E <sub>i</sub> (in)					
PEAK DISCHARGE		1.29	2.03	2.87	4.37	Q <sub>pn</sub> (cfs)					
WEIGHTED E (in) = (E <sub>A</sub> )(%A) + (E <sub>B</sub> )(%B) + (E <sub>C</sub> )(%C) + (E <sub>D</sub> )(%D) V <sub>6HR</sub> (acre-ft) = (WEIGHTED E)(AREA)/12 V <sub>10DAY</sub> (acre-ft) = V <sub>6HR</sub> + (A <sub>D</sub> )(P <sub>10DAY</sub> - P <sub>6HR</sub> )/12 Q (cfs) = (Q <sub>PA</sub> )(A <sub>A</sub> ) + (Q <sub>PB</sub> )(A <sub>B</sub> ) + (Q <sub>PC</sub> )(A <sub>C</sub> ) + (Q <sub>PD</sub> )(A <sub>D</sub> )							ZONE = 1 P <sub>6HR</sub> (in) = 2.17 P <sub>10DAY</sub> (in) = 2.49 P <sub>10DAY</sub> (in) = 3.90				

THIS DRAINAGE PLAN FOLLOWS THE APPROVED VENTANA SQUARE DRAINAGE REPORT DATED 12-23-20. THIS PLAN SPECIFICALLY ADDRESSES HOW THE RUNOFF FROM BASIN 400 IN THE APPROVED REPORT IS CONVEYED TO THE PROPOSED CHANNEL. THE ORIGINAL BASIN 400 IN THE REPORT IS DIVIDED INTO 10 SUB-DRAINAGE BASINS LABELED A THROUGH J. BASINS A AND B WILL DRAIN TO A PRIVATE ACCESS ROAD WITH AN INVERTED CROWN WITH A CONCRETE ALLEY GUTTER. THIS ROAD WILL DRAIN FROM NORTH TO SOUTH TO BASIN H ON TRACT H-11. THE RUNOFF FROM BASINS A, B, AND H WILL DISCHARGE THROUGH A CONCRETE RUNDOWN TO A COBBLE SWALE AT THE SOUTH PROPERTY LINE OF TRACT H-11. THE COBBLE SWALE WILL DRAIN EAST TO THE PROPOSED CONCRETE CHANNEL IN TRACT H-12. BASIN C, D, E, AND F WILL DRAIN FROM NORTH TO SOUTH TO A CONCRETE CHANNEL IN BASIN J THAT WILL DRAIN TO THE TRACT H-12 CONCRETE CHANNEL. BASIN G WILL DRAIN DIRECTLY TO THE COBBLE SWALE IN BASIN J. AND BASIN I DRAINS THROUGH A CONCRETE RUNDOWN TO THE COBBLE SWALE. PLEASE NOTE THAT ALL DRAINAGE IMPROVEMENTS IN TRACT H-11 (BASINS H, I, & J) WILL BE COMPLETED BY AUTOZONE. PLEASE REFER TO THE 100-YEAR HYDROLOGIC CALCULATIONS TABLE ON THIS SHEET.

[illegible]



