

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

June 27, 2018

Martin Garcia, P.E.
Anchor Engineering LLC
1035 S. Bosque Loop
Bosque Farms, NM, 87123

**RE: Kennan Properties
12900 Central Ave SE
Grading and Drainage Plan
Engineer's Stamp Date: 06/25/18
Hydrology File: L22D061**

Dear Mr. Garcia:

PO Box 1293

Based upon the information provided in your resubmittal received 06/26/2018, the Grading and Drainage Plan is approved for Building Permit and Grading Permit.

Albuquerque

Please attach a copy of this approved plan in the construction sets for Building Permit processing. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

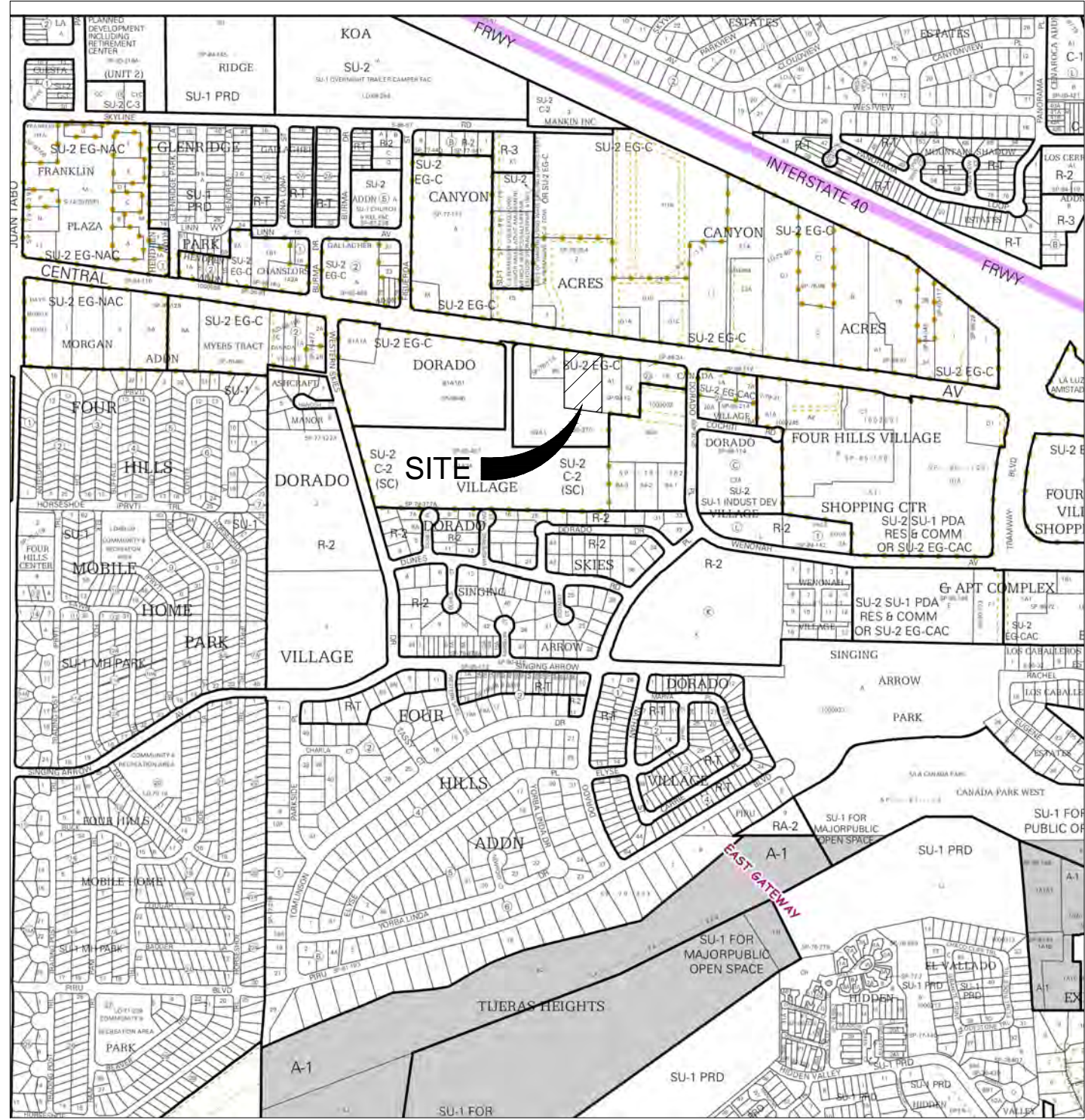
NM 87103

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

www.cabq.gov

Sincerely,

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



Vicinity Map L-22

Drainage Calculations

Basin 1 Hydrology Calculations Storm Water Control Pond									
Keenan Development									
Precipitation Zone 3									
100 yr 6 hr Storm									
Basin Area =		1.24362 ac.		54172 sq ft		Determined by DB			
Existing									
Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	SCS Curve Number	Comments	
A	0.00%	0.00	0.66	1.87	0.00	0.00	80.00	Natural Ground	
B	0.00%	0.00	0.92	2.60	0.00	0.00	82.00	Landscaped Areas	
C	85.00%	1.06	1.29	3.45	0.11	3.65	87.00	Compacted earth	
D	15.00%	0.19	2.36	5.02	0.04	0.94	98.00	Impervious Areas	
TOTAL	100.00%	1.24	1.45		0.15	4.58	88.65		
					6548.04 cu ft				
Proposed									
100 yr 24 hr Storm									
Determined by DB									
Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	SCS Curve Number	Comments	
A	5.00%	0.06	0.66	1.87	0.00	0.12	80.00	Natural Ground/Pond	
B	0.00%	0.00	0.92	2.6	0.00	0.00	82.00	Landscaped Areas	
C	49.00%	0.61	1.29	3.45	0.07	2.10	87.00	Compacted earth	
D	46.00%	0.57	2.36	5.02	0.11	2.87	98.00	Impervious Areas	
					0.04			24 Hr Storm Additional Volume	
TOTAL	100.00%	1.24	1.75		0.22	5.09	91.71		
					9460.69 cu ft				
Water Quality ponding Requirement					Developed Flows		100 yr 6 hr Storm		
LT-D = 24919.12 sq. ft.					Volume		Discharge		
X	0.42	inches of runoff		(ac ft)		(cfs)			
/	12.00	inches / foot		0.03		0.51			
Equals	872	cu. Ft Required							
POND STAGE/STORAGE TABLE									
CONTOUR ELEVATION	AREA (sq ft)	AREA (ac)	AVERAGE AREA (ac)	CONTOUR INTERVAL (ft)	VOLUME (ac ft)	STAGE (ft)	STORAGE (ac ft)	COMMENTS	
5586.00	2712.0	0.06				0	0	Bottom of Pond	
			0.06	1	0.0623				
5587.00	2712.0	0.06				1	0.0623		
			0.06	1	0.0623				
5588.00	2712.0	0.06				2	0.1245		
			0.06	1	0.0623				
5589.00	2712.0	0.06				3	0.1868		
			0.06	1	0.0623				
5590.00	2712.0	0.06				4	0.2490	Spillway	
				VOLUME (cu ft)	VOLUME (ac ft)	(ft)			
WATER QUALITY RETENTION VOLUME =				872	0.02	5586.32			
POND SPILLWAY VOLUME =				10848	0.25	5590.00			
POND TOTAL VOLUME				10848	0.25	5590.00			
100yr 24hr VOLUME				9461	0.22	5589.53			

Drainage Calculations

Basin 2 Hydrology Calculations Water Harvesting Pond - Central Ave.									
Keenan Development									
Precipitation Zone 3									
100 yr 6 hr Storm									
Basin Area = Existing		0.041 ac.		1786 sq ft		Determined by DB			
Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	SCS Curve Number	Comments	
A	0.00%	0.00	0.66	1.87	0.00	0.00	80.00	Natural Ground	
B	80.00%	0.03	0.92	2.60	0.00	0.09	82.00	Landscaped Areas	
C	0.00%	0.00	1.29	3.45	0.00	0.00	87.00	Compacted earth	
D	20.00%	0.01	2.36	5.02	0.00	0.04	98.00	Impervious Areas	
TOTAL	100.00%	0.04	1.21		0.00	0.13	19.60		
					179.79		cu ft		
Proposed		0.09642 ac.		4200 sq ft		Determined by DB			
100 yr 24 hr Storm									
Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	SCS Curve Number	Comments	
A	34.00%	0.01	0.66	1.87	0.00	0.03	80.00	Natural Ground/Pond	
B	0.00%	0.00	0.92	2.6	0.00	0.00	82.00	Landscaped Areas	
C	0.00%	0.00	1.29	3.45	0.00	0.00	87.00	Compacted earth	
D	66.00%	0.03	2.36	5.02	0.01	0.14	98.00	Impervious Areas	
TOTAL	100.00%	0.04	1.78		0.01	0.16	91.88	24 Hr Storm Additional Volume	
					338.89		cu ft		
Water Quality ponding Requirement					Developed Flows		100 yr 6 hr Storm		
LT-D =		1178.76 sq. ft.		Volume		Discharge			
X		0.42 inches of runoff		(cu ft)		(cfs)			
/		12.00 inches / foot		159.10		0.04			
Equals		41 cu. Ft Required							
DEPRESSED LANDSCAPING VOLUME									
West Area									
Length =		94	ft						
Width =		10	ft						
Depth		1	ft						
Section Area		5.0	sq ft						
Volume = L - 10' X Section Area =			420	cu ft					
East Area									
Length =		65	ft						
Width =		10	ft						
Depth		1	ft						
Section Area		5.0	sq ft						
Volume = L - 10' X Section Area =			275	cu ft					
				VOLUME (cu ft)					
WATER QUALITY RETENTION VOLUME =				41					
POND TOTAL VOLUME				695					
100yr 24hr VOLUME				338					



1035 S. Bosque Lp., Bosque Farms, NM 87068
505.862.1550
martin@anchoreng.net

REVISIONS									
NO.	DATE	COMMENTS							

PROJECT NO.	18-039
DATE:	5.15.2018
DRAWN BY:	F PHILLIPS
CHECKED BY:	D BRIGGS
SCALE:	1" = 20'

PROJECT TITLE	KEENAN PROPERTIES 12900 CENTRAL AVENUE S.E. ALBUQUERQUE, NEW MEXICO
SHEET TITLE	GRADING AND DRAINAGE PLAN

SHEET

C2.1

