CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



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:

Based upon the information provided in your resubmittal received 06/26/2018, the Grading and PO Box 1293

Drainage Plan is approved for Building Permit and Grading Permit.

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.

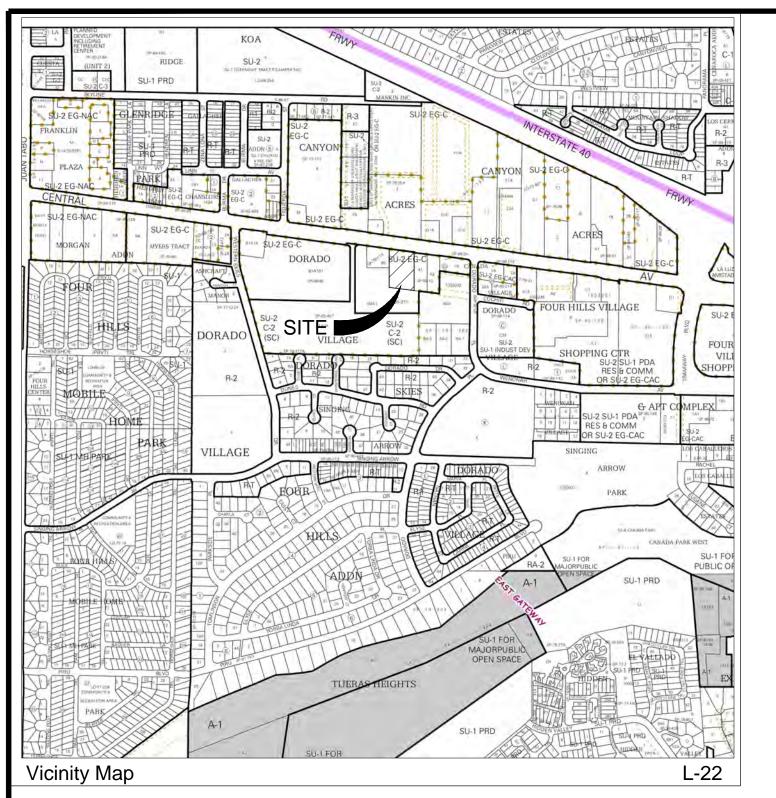
If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov. NM 87103

Sincerely,

Albuquerque

www.cabq.gov Renée C. Brissette

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



			Basin 1 Hy	drology Cal	culations S	Storm Wate	er Control P	ond
					enan Devel			
Day 11-12-01-	. 7							
Precipitation								
100 yr 6 hr St Basin Area =		1.24362		E 4173	co ft			Determined by DB
Existing		1,24302	dC.	54172	sqit			Determined by DB
LXISTING			Excess	Unit Peak	Runoff	Peak		
Land Treatment	Percent	Area (ac.)	Precipitation (in.)	Discharge (cfs/ac.)	Volume (ac. Ft.)	Discharge (cfs)	SCS Curve Number	Comments
Α	0.00%	0.00	0.66	1.87	0.00	0.00	80.00	Natural Ground
В	0.00%	0.00	0.92	2.60	0.00	0.00	82.00	Landscaped Areas
С	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	1	0.15	4.58	88.65	
					6548.04	cu ft		
Proposed 100 yr 24 hr Storm		1.24362 ac.		54172 sq ft				Determined by DB
250 yr 24111 S	A.O.III							
Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	SCS Curve Number	Comments
Α	5.00%	0.06	0.66	1.87	0.00	0.12	80.00	Natural Ground/Pond
В	0.00%	0.00	0.92	2.6	0.00	0.00	82.00	Landscaped Areas
С	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 Quali	ty nondin	Require	mentt		Develop	ed Flows	100 yr 6 hr St	orm
	24919.12	7	mente		Volume	Discharge	100 yr 0 m 30	
X		inches o	frunoff		(ac ft)	(cfs)		
		inches /			0.03	0.51		
Equals	872	cu. Ft	Required		0.00	0.02		
				POND	STAGE/STO	RAGE TABLE		
CONTOUR	AREA	AREA	AVERAGE	CONTOUR	VOLUME	STAGE	STORAGE	COMMENTS
ELEVATION	(sq ft)	(ac)	AREA	INTERVAL				22,713.00.00
			(ac)	(ft)	(acft)	(ft)	(ac ft)	Z
5586.00	2712.0	0.06		4 1	1.172	0	0	Bottom of Pond
			0.06	1	0.0623			
5587.00	2712.0	0.06				1	0.0623	
		1.	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	1			3	0.1868	
			0.06	1	0.0623			
5590.00	2712.0	0.06				4	0.2490	Spillway

 (cu ft)
 (ac ft)
 (ft)

 872
 0.02
 5586.32

 10848
 0.25
 5590.00

 10848
 0.25
 5590.00

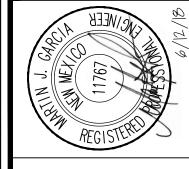
 10848
 0.25
 5590.00

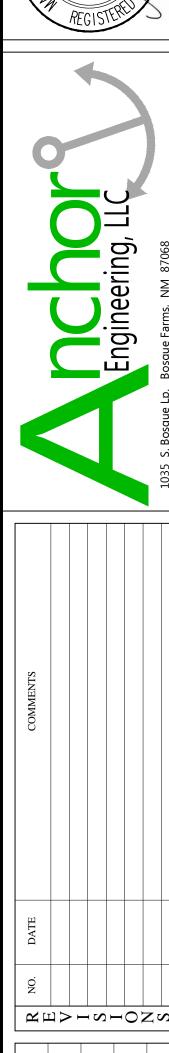
 9461
 0.22
 5589.53

WATER QUALITY RETENTION VOLUME =

POND SPILLWAY VOLUME = POND TOTAL VOLUME 100yr 24hr VOLUME

		Bas	sin 2 Hydrolog				Pond - Cent	rai Ave.
				Kee	nan Develo	pment		
Precipitation 2								
100 yr 6 hr Stor	rm							F
Basin Area =		0.041	ac.	1786	sq ft			Determined by DB
Existing				W. 45 2	27 (192			
Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	SCS Curve Number	Comments
Α	0.00%	0.00	0.66	1.87	0.00	0.00	80.00	Natural Ground
В	80.00%	0.03	0.92	2.60	0.00	0.09	82.00	Landscaped Areas
С	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	
TOTAL	100.0070	0.01	1.23		179.79	cu ft	13.00	
Proposed		0.09642	ac.	4200	sq ft			Determined by DB
100 yr 24 hr Sto	orm							
Land Treatment	Percent	Area (ac.)	Excess Precipitation	Unit Peak Discharge	Runoff Volume	Peak Discharge	SCS Curve Number	Comments
Λ.	24 000/	0.01	(in.)	(cfs/ac.)	(ac. Ft.)	(cfs)	90.00	Natural Crawn d/Danid
A	34.00%		0.66	1.87	0.00	0.03	80.00	Natural Ground/Pond
В	0.00%	0.00	0.92	2.6	0.00	0.00	82.00	Landscaped Areas
С	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
	100.000			1 11	0.00	1 - 1 - 1	- 0.00	24 Hr Storm Additional Volume
TOTAL	100.00%	0.04	1.78		0.01	0.16	91.88	
					338.89	cu ft		
Water Quality	nonding f	Paguiroma	nt		Dovolos	ed Flows	100 yr 6 hr St	orm
Water Quality ponding Requirement LT-D = 1178.76 sq. ft.				Volume		TOO ALOUE SE	OTH	
LI-D=		inches of	runoff			Discharge (cfs)		
x					(cu ft)	(cfs)		
		inches / f			159.10	0.04		
Equals	41	cu. Ft	Required					
				DEPRESSE	D LANDSCAI	PING VOLUM	1E	
202 77 77								
West Area								
Length =	94	ft						
Width =	10	ft						
Depth	1	ft						
Section Area	5.0	sq ft						
Volume = L - 1	0' X Sectio	n Area =	420	cu ft				
East Area								
Length =	65	ft						
Width =	10	ft						
Depth	1	ft						
Section Area	5.0	sq ft						
Volume = L - 1			275	cu ft				
				VOLUME				
				(cu ft)				
				(0011)				
WATER OLIALIT	TY RETENT	ION VOLL	ME =					
WATER QUALIT		ION VOLU	ME =	41 695				

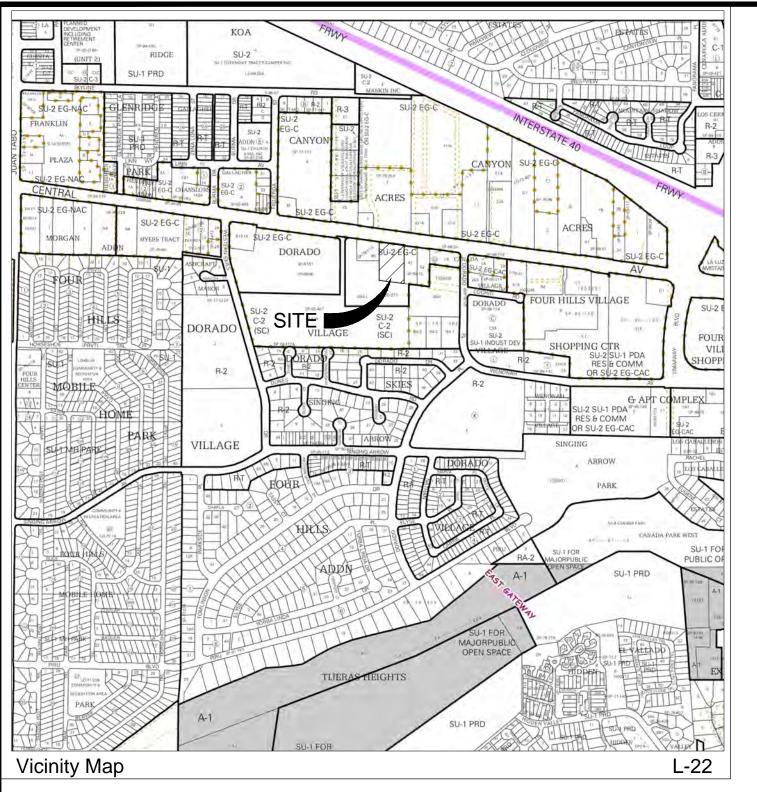




E KEENAN PROPERTIES
12900 CENTRAL AVENUE S.E.
ALBUQUERQUE, NEW MEXICO
GRADING AND DRAINAGE PLAN

SHEET

C2.1



Drainage Narrative

THIS IS A 1.38 ACRE COMMERCIAL PARCEL LOCATED IN THE DPM DESIGNATED RAINFALL ZONE 3 AND FEMA DESIGNATED FLOOD ZONE X (UNSHADED) (PANEL 35002C0359G, EFFECTIVE 9/26/2008). THE PROPOSED DEVELOPMENT INCLUDES CONSTRUCTION OF A NEW 8,000 SQ. FT. STEEL BUILDING, A 2,200 SQ. FT. DISPLAY BUILDING AND APPROXIMATELY 18,000 SQ. FT. OF ASPHALT PARKING. THE REMAINING AREA IS GRAVELED.

THE SITE SLOPES AT ABOUT 3% FROM THE NORTH EAST TO THE SOUTH WEST AND FREE DISCHARGES TO ADJACENT PROPERTIES. OFFSITE FLOWS ENTER THE PROPERTY FROM THE ADJACENT PROPERTY TO THE EAST. HOWEVER, THE PROPERTY TO THE EAST DOES HAVE AN APPROVED GRADING & DRAINAGE PLAN (L22D059) THAT INDICATES OFFSITE FLOWS WILL BE DIVERTED TO AN ON-SITE POND ONCE THE PLAN IS CONSTRUCTED.

THIS PLAN PROPOSES TO HANDLE DEVELOPED RUNOFF WITH THE CONSTRUCTION OF A STORM WATER CONTROL RETENTION POND IN THE SOUTH WEST CORNER OF THE PROPERTY AND DEPRESSED LANDSCAPING AREAS ALONG CENTRAL AVENUE. THE POND WILL COLLECT RUNOFF FROM THE 8,000 SQUARE FOOT BUILDING, PARKING AND STORAGE AREAS AND OFFSITE FLOWS. IT IS SIZED TO HOLD THE RUNOFF VOLUME FROM A 100YR. 24HR. RAINFALL EVENT IN THE DEVELOPED CONDITION AND ALLOW CURRENT OFFSITE FLOWS TO CONTINUE IN THE HISTORIC FLOW PATH UNTIL SUCH TIME AS THE ADJACENT PROPERTY IS DEVELOPED.

THE 2,400 SQ. FT. DISPLAY BUILDING DEVELOPED RUNOFF WILL BE HARVESTED IN THE DEPRESSED LANDSCAPING AREA ALONG CENTRAL AVENUE.

Project Benchmark 🛆

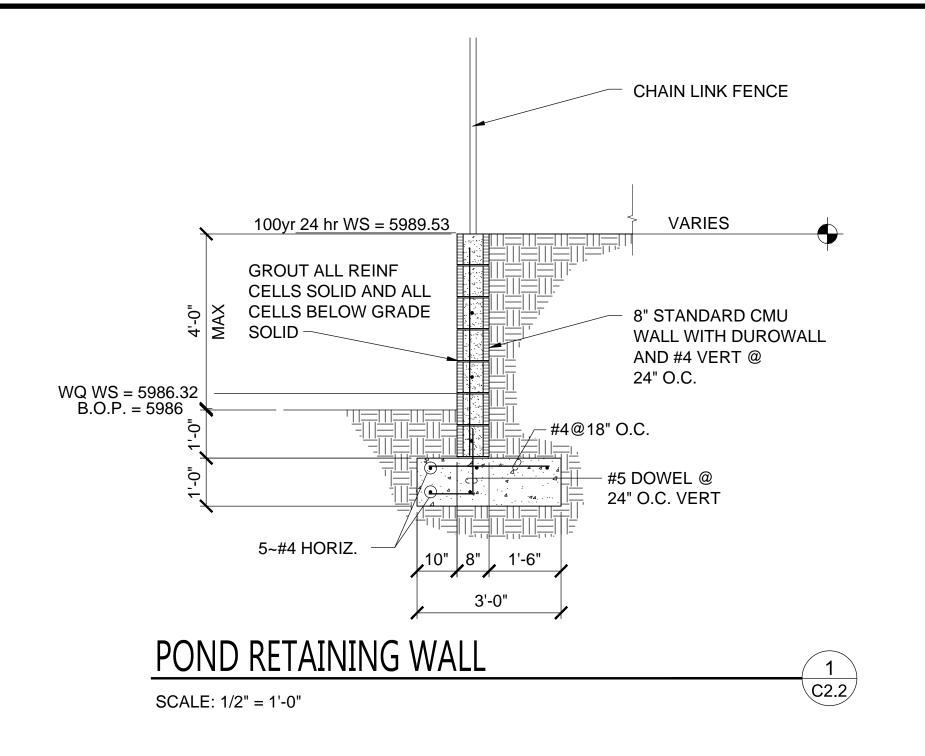
THE PROJECT BENCHMARK FOR THIS SITE IS AN ACS BRASS CAP STAMPED "4-L22" LOCATED APPROX 320.00' WEST OF THE PROPERTY ALONG THE SOUTH CURB OF CENTRAL AVE.

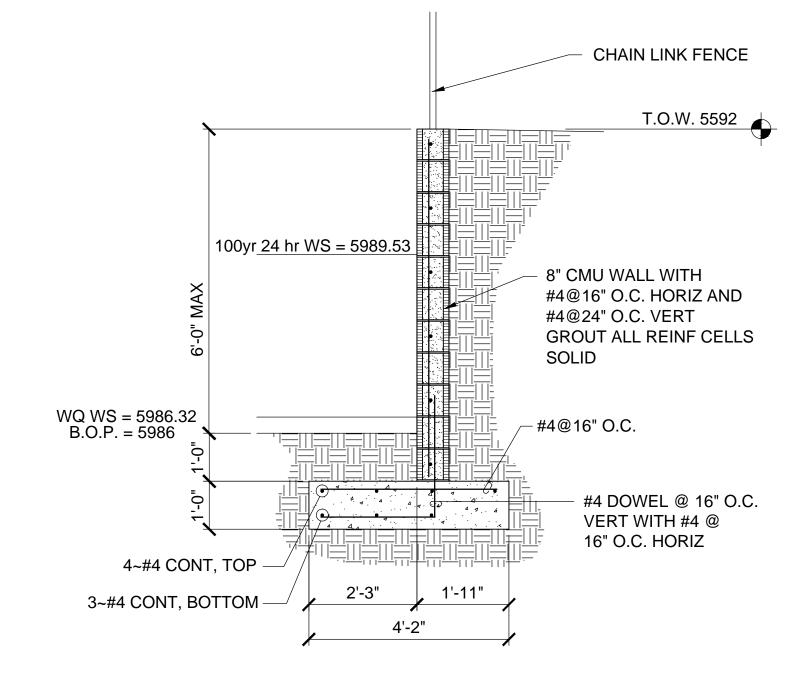
- N: 1480509.445 E: 1563610.492
- Z: 5586.425

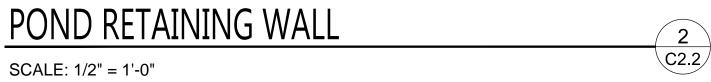
THE LOCAL BENCHMARK IS A SET NAIL WITH FLAGGING ALONG THE EAST CENTRAL PROPERTY LINE OF THE SITE.

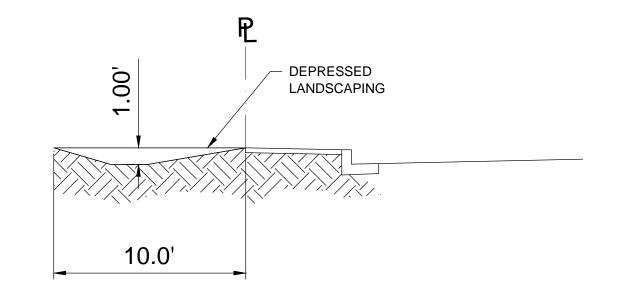
- N: 1480238.217
- E: 1564113.559

Z: 5585.82	
Legend	
— —5 26 3 — —	EXISTING CONTOUR
	EXISTING CONCRETE PAD
TC63.28 FL62.78	EXISTING SPOT ELEVATION
64	NEW CONTOUR
TW	TOP OF WALL
BW	BOTTOM OF WALL
B.O.P.	BOTTOM OF POND
TA	TOP OF ASPHALT
	DRAINAGE BASIN BOUNDARY
-··-	SWALE

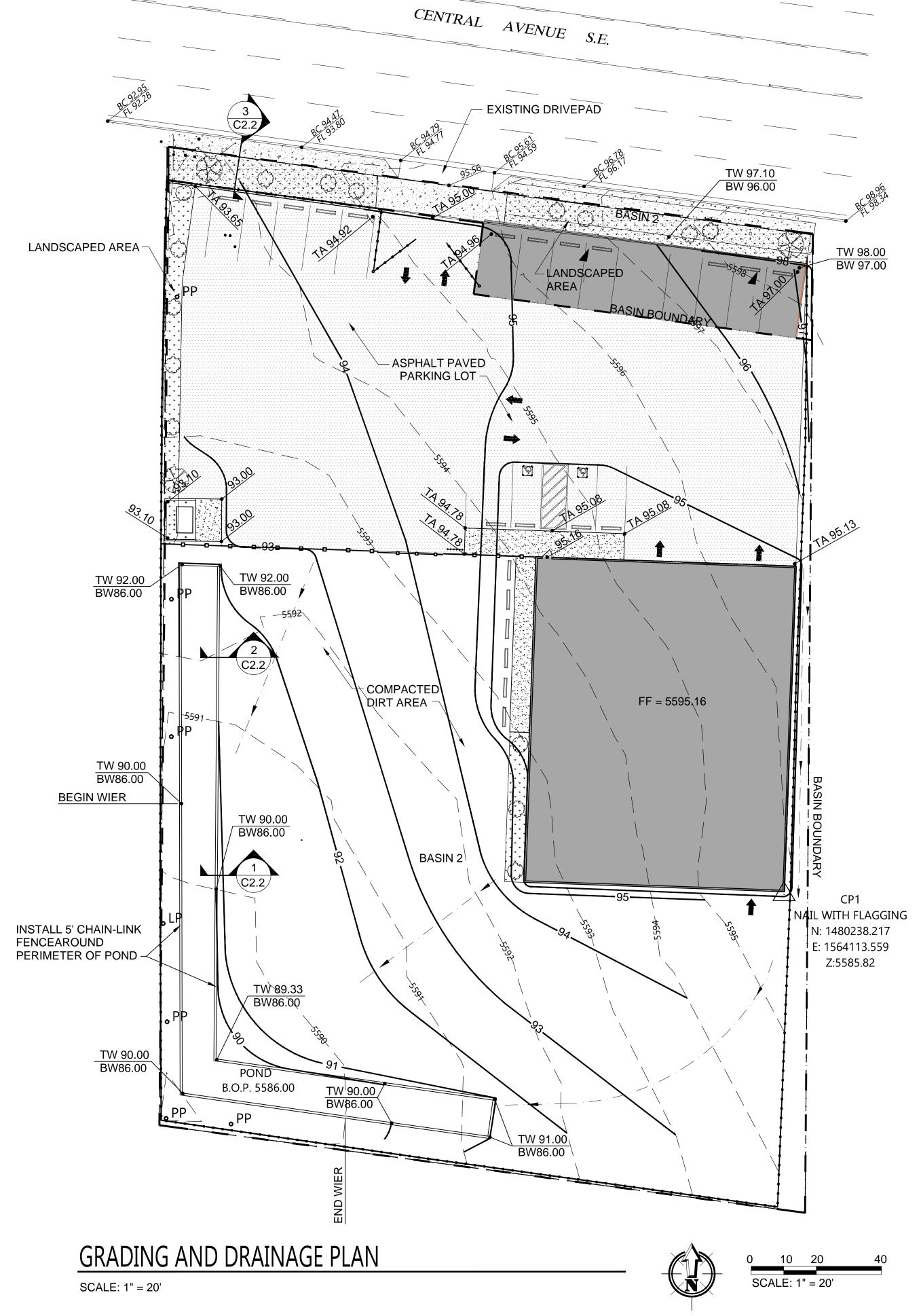


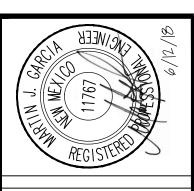


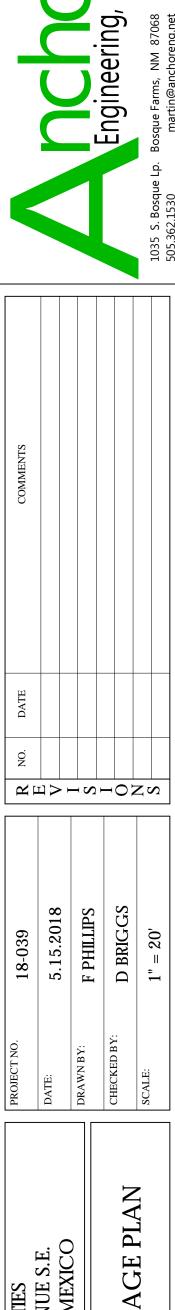












SHEET

C2.2