CITY OF ALBUQUERQUE



November 2, 2017

Levi J. Valdez, PE George T Rodriguez-Development Consultant 12800 San Juan Rd. SE Albuquerque, NM 87123

Re: Shopping Center 1220 Eubank Blvd. NE Request Permanent C.O. - Accepted Engineer's Stamp dated: 3-11-16 (J21D045) Certification dated: 10-30-17

Dear Mr. Valdez,

Based on the Certification received 10/30/2017, the site is acceptable for permanent release of Certificate of Occupancy by Hydrology.

PO Box 1293 If you have any questions, you can contact me at 924-3986 or Totten Elliott at 924-3982.

Albuquerque

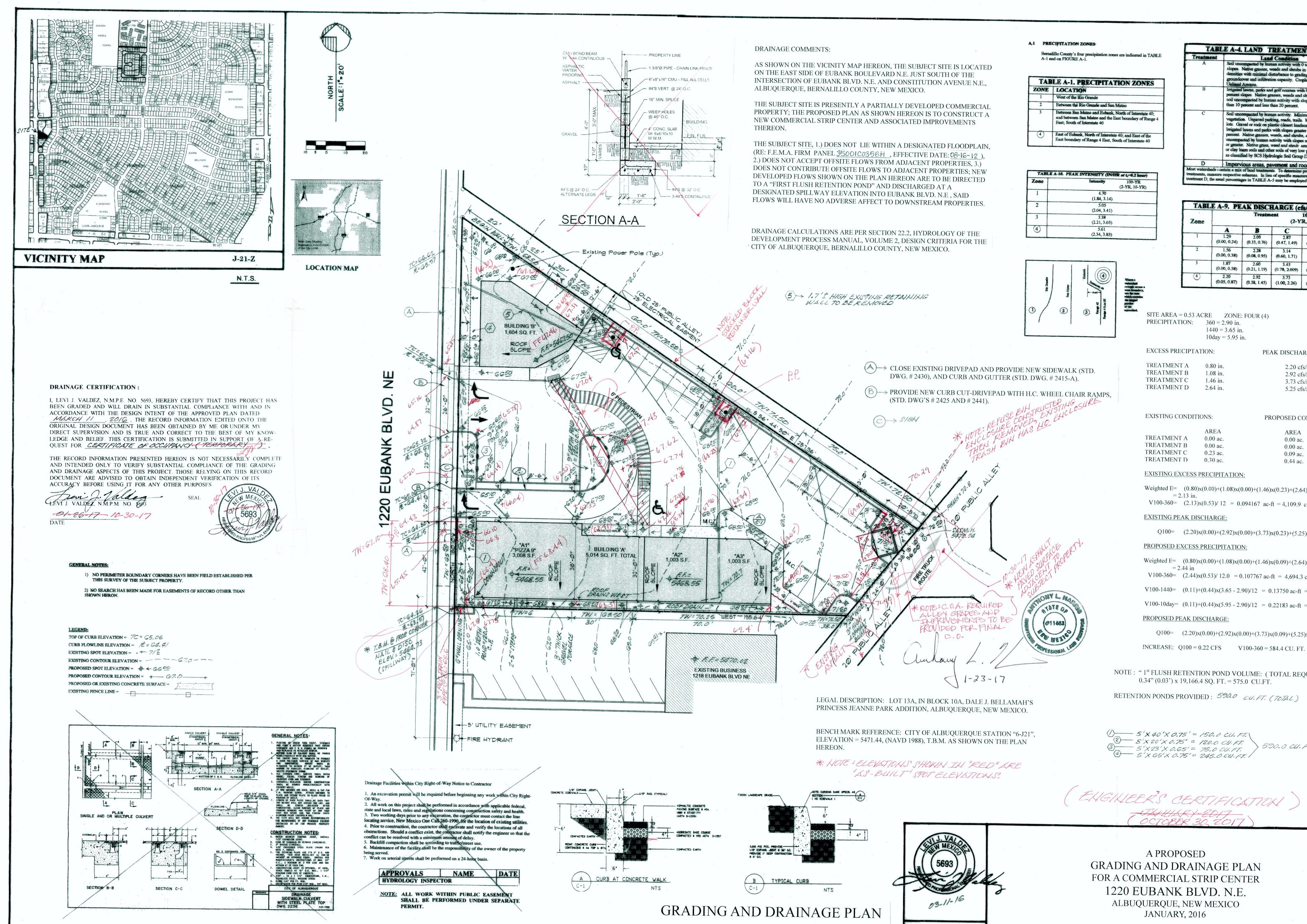
NM 87103

Sincerely, Buffer James D. Hughes, P.E.

www.cabq.govPrincipal Engineer, Planning Dept.Development and Review Services

TE/JH C: email

1 Serna, Yvette M.; Fox, Debi; Tena, Victoria C.; Sandoval, Darlene M.



ENGINEER'S SEAL

Bernalillo County's four precipitation zones are indicated in TABLE

TABLE A-1. PRECIPITATION ZONES		
ZONE	LOCATION	
1	West of the Rio Grande	
2	Between the Rio Grande and San Mateo	
3	Between San Mateo and Eubank, North of Interstate 40; and between San Mateo and the East boundary of Range - East; South of Interstate 40	
4	East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40	

Zone	Intensity	100-YR (2-YR, 10-YR)
1	4.70 (1.84, 3.14)	
2	5.05 (2.04, 3.41)	
3	5.38 (2.21, 3.65)	
4	5.61 (2.34, 3.83)	

Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands. Unlined Arroyos.
В	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil uncompacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds, and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay learn soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs. ntain a mix of land treatments. To determine proportional

TABLE A-9. PEAK DISCHARGE (cfs/acre) 100-YR Zone (2-YR, 10-TR) 2.03 (0.00, 0.24) (0.33, 0.76) (0.47, 1.49) (1.69, 2.89) 1.56 2.28 3.14 4.70 (0.00, 0.38) (0.08, 0.95) (0.60, 1.71) 1.86, 3.14) 1.87 2.60 3.45 5.02 (0.00, 0.58) (0.21, 1.19) (0.78, 2.009) (2.04, 3.39) 2.20 2.92 3.73 (0.05, 0.87) (0.38, 1.45) (1.00, 2.26) (2.17, 3.57)

SITE AREA = 0.53 ACRE ZONE: FOUR (4) PRECIPITATION: 360 = 2.90 in. 1440 = 3.65 in. 10 day = 5.95 in.

EXCESS PRECIPTATION:

,	
TREATMENT A	0.80
TREATMENT B	1.08
TREATMENT C	1.46
TREATMENT D	2.64

2.20 cfs/ac. 2.92 cfs/ac. 3.73 cfs/ac.

5.25 cfs/ac.

PROPOSED CONDITIONS:

PEAK DISCHARGE:

EXISTING CONDITIONS:

TREATMENT A	
TREATMENT B	
TREATMENT C	
TREATMENT D	

	AREA
NT A	0.00 ac
NT B	0.00 ac
NT C	0.23 ac
NT D	0.30 ac

AREA 0.00 ac. 0.00 ac. 0.09 ac. 0.44 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E= (0.80)x(0.00)+(1.08)x(0.00)+(1.46)x(0.23)+(2.64)x(0.30)/0.53= 2.13 in. V100-360= (2.13)x(0.53)/12 = 0.094167 ac-ft = 4,109.9 cf

EXISTING PEAK DISCHARGE:

Q100= (2.20)x(0.00)+(2.92)x(0.00)+(3.73)x(0.23)+(5.25)x(0.30) = 2.43 cfs PROPOSED EXCESS PRECIPITATION:

Weighted E=	(0.80)x(0.00)+(1.08)x(0.00)+(1.46)x(0.09)+(2.64)x(0.44)/0.53
= 2	.44 in
V100-360=	(2.44)x(0.53)/12.0 = 0.107767 ac-ft = 4,694.3 cf
V100-1440=	(0.11)+(0.44)x(3.65 - 2.90)/12 = 0.13750 ac-ft = 5,989.5 cf
V100 101	

V100-10day = (0.11)+(0.44)x(5.95-2.90)/12 = 0.22183 ac-ft = 9.663.1 cfPROPOSED PEAK DISCHARGE:

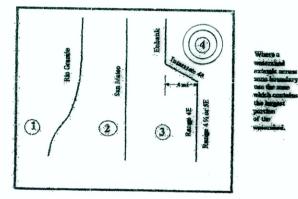
Q100= (2.20)x(0.00)+(2.92)x(0.00)+(3.73)x(0.09)+(5.25)x(0.44) = 2.65 cfs INCREASE: Q100 = 0.22 CFS V100-360 = 584.4 CU. FT.

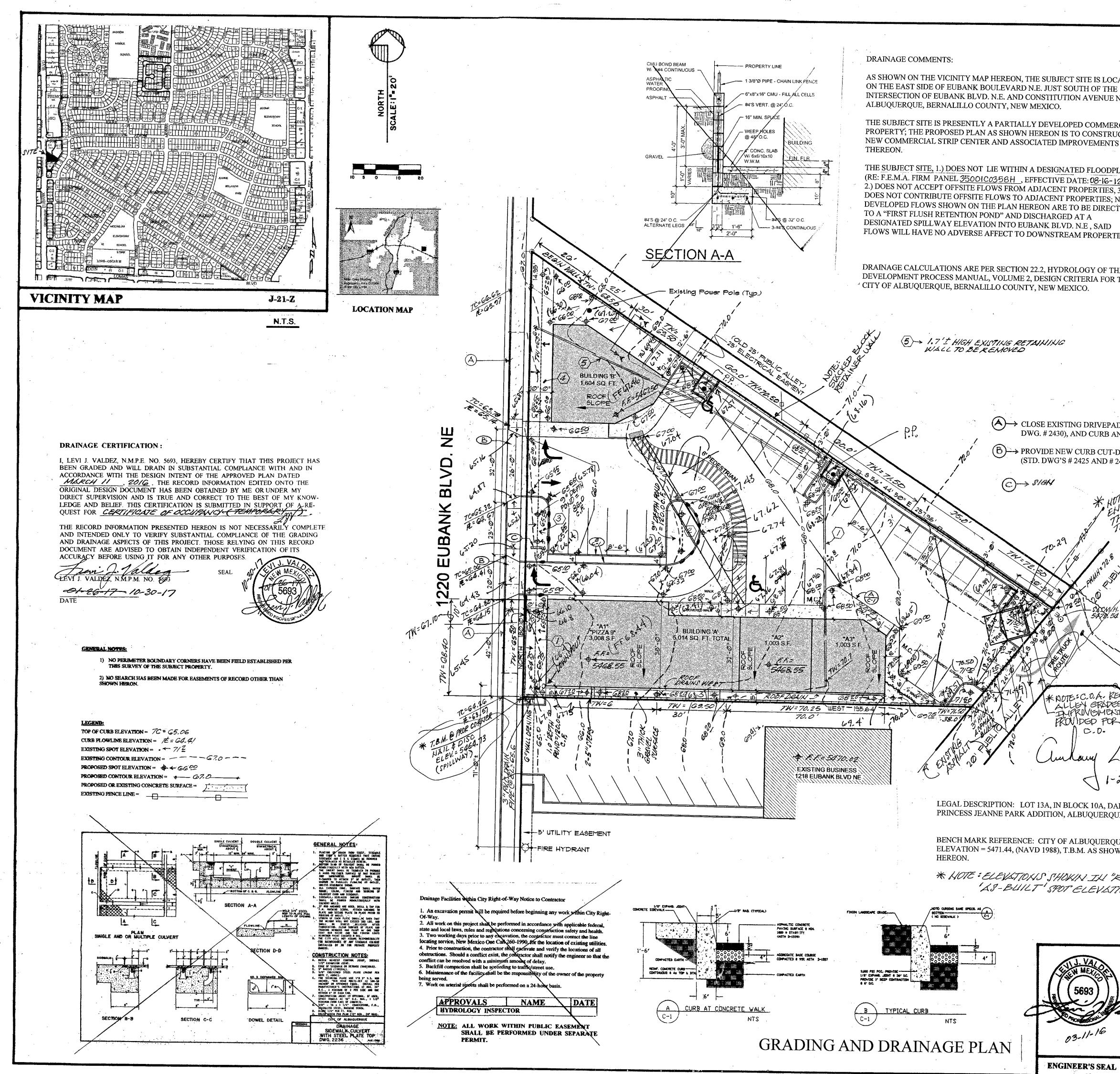
NOTE : "1st FLUSH RETENTION POND VOLUME: (TOTAL REQUIRED) 0.34" (0.03') x 19,166.4 SQ. FT. = 575.0 CU.FT.

RETENTION PONDS PROVIDED: 590.0 CU.FT. (TOTAL)

5'X 40'X 0.75' = 150.0 CU. FT. 590.0 CU.FT.

A PROPOSED GRADING AND DRAINAGE PLAN FOR A COMMERCIAL STRIP CENTER 1220 EUBANK BLVD. N.E. ALBUQUERQUE, NEW MEXICO JANUARY, 2016





	A.1 PRECIPITATION ZONES Bernalille County's four precipitation zones are indicated		LE A-4. LAND TREATME	NTS
IS LOCATED	A-1 and on FIGURE A-1.	d in TABLE Treatment	Land Condition Soil uncompacted by human activity with slopes. Native grasses, weeds and shuther	a O to 10 percent
OF THE ENUE N.E.,	TABLE A-1. PRECIPITATION ZO ZONE LOCATION	B	densities with minimal disturbance to gra- groundcover and infiltration capacity. Cr Unlined Arroyos. Irrigated lawns, parks and golf courses we	iding, oplands,
OMMERCIAL	1 West of the Rio Grande 2 Between the Rio Grande and San Mateo		percent slopes. Native grasses, weeds and soil uncompacted by human activity with than 10 percent and less than 20 percent.	d shrubs, and slopes greater
NSTRUCT A MENTS	3 Between San Mateo and Eubank, North of Inters and between San Mateo and the East boundary of East; South of Interstate 40	rstate 40; C of Range 4	Soil uncompacted by human activity. Min vegetation. Unpaved parking, roads, trail lots. Gravel or rock on plastic (desert land impated lawns and narks with sloves pre-	s. Most vacant decaning).
LOODPLAIN,	(4) East of Eubank, North of Interstate 40; and East East boundary of Range 4 East, South of Intersta	of the ate 40	Invigated lawns and parks with slopes gra- percent. Native grasses, weeds, and shruh uncompacted by human activity with slop or greater. Native grass, weed and shruh or gleater. Native grass, weed and shruh	bs, and soil- us at 20 percent areas with clay
200071241N, 2 <u>8-16-12</u>), RTIES, 3.)		D	or clay learn soils and other soils of very le as classified by SCS Hydrologic Soil Grou Innpervious areas, pavement and t	ow penneability up D.
RTIES; NEW DIRECTED	TABLE A-10. PEAK INTENSITY (IN/HR at t=0.2 ho Zome Intensity 100-YR	Most watersheds co treatments, measure treatment D, the are	rontain a mix of land treatments. To determine re respective subareas. In lieu of specific mea- seal percentages in TABLE A-5 may be emplo	e proportional
SAID OPERTIES.	(2-YR, 10-Y 1 (1.84, 3.14)	YR)		
UPER HES.	2 5.05 (2.04, 3.41) 3 5.38 (2.21, 3.65)	TABLE A Zene	A-9. PEAK DISCHARGE (e Treatment (2-Y	tfs/acre) 100-YR (R, 10-TR)
Y OF THE A FOR THE	(2.21, 3.65) (4) 5.61 (2.34, 3.83)	1	A B C 1.29 2.09 2.87	D 4.37
A FUK THE		2 (0.	1.56 2.28 3.14 0.00, 0.38) (0.08, 0.95) (0.60, 1.71)	(1.69, 2.89) 4.70 1.86, 3.14)
		(4)	1.87 2.60 3.45 0.00, 0.58) (0.21, 1.19) (0.78, 2.009) 2.20 2.92 3.73	5.02 (2.04, 3.39) 5.25
			0.05, 0.87) (0.38, 1.45) (1.00, 2.26)	5.23 (2.17, 3.57)
		SITE AREA = 0.53 ACRE	ZONE: FOUR (4)	
		PRECIPITATION: 360 = 1440 =	= 2.90 in. = 3.65 in.	
		10day EXCESS PRECIPTATION:	y = 5.95 in. PEAK DISCHA	ARGE:
UVEPAD AND PROVIDE 1	NEW SIDEWALK (STD.	TREATMENT A 0.80 in TREATMENT B 1.08 in	in. 2.20 c	ofs/ac.
URB AND GUTTER (STD	DWG # 2415 A	TREATMENT D 1.46 in TREATMENT D 2.64 in	in. 3.73 c	fs/ac.
AND # 2441).	H.C. WHEEL CHAIR RAINES, H-RUCTEPING, SURE,	· ·		
F: REFUSE CON	Daylo CHU	EXISTING CONDITIONS:		CONDITIONS:
* HOICLO PEIN "	H.C. WHEEL CHAIR RAMPS, H.RUCTEPING, SURE, BIREN STILLOSURE, ED , HO, EHCLOSURE, AS HO,	TREATMENT A0.00 acTREATMENT B0.00 ac	ac. 0.00 a ac. 0.00 a	c. c.
1 Tippon		TREATMENT C0.23 acTREATMENT D0.30 ac	ac. 0.44 ao	
MM = 72.8 C ALLER		EXISTING EXCESS PRECIPI Weighted E= (0.80)x(0.00)+	<u>1TATION:</u> +(1.08)x(0.00)+(1.46)x(0.23)+(2.4	
MH- TOLE		= 2.13 in.	$(1.08) \times (0.00) + (1.46) \times (0.23) + (2.4)$ (12 = 0.094167 ac-ft = 4,109.9)	
20 [°]		EXISTING PEAK DISCHARG	<u>GE:</u>	
SACM/H. 5479.54	it in Ar	Q100= (2.20)x(0.00)+(<u>PROPOSED EXCESS PRECIP</u>	+(2.92)x(0.00)+(3.73)x(0.23)+(5.2	25)x(0.30) = 2.43 cfs
	159HPFACE PER	Weighted E= $(0.80)x(0.00)+($	<u>PITATION:</u> -(1.08)x(0.00)+(1.46)x(0.09)+(2.6	64)x(0.44)/0.53
10 st ter	LE SELT PT	= 2.44 in V100-360= (2.44)x(0.53)/ 1	12.0 = 0.107767 ac-ft = 4,694.1	3 cf
	SUBONY L MO		x(3.65 - 2.90)/12 = 0.13750 ac-fr	
A. REQUIRED SRADES AND SIMENTS TO BE	AT OTHE ON THE	V100-10day= (0.11)+(0.44)x(<u>PROPOSED PEAK DISCHAR(</u>	(5.95 - 2.90)/12 = 0.22183 ac-fi	t = 9,663.1 cf
POR FINAL	COTIADE DE LA CO		(2.92)x(0.00)+(3.73)x(0.09)+(5.2	25)x(0.44) = 2.65 cfs
. 1 1/	A ADPESSION ALLER	INCREASE: $Q100 = 0.22$ CFS	S V100-360 = 584.4 CU. F	Т. с с. с
1-23-17	NOTE : '	⁴ 1 st FLUSH RETENTION PC	DND VOLUME: (TOTAL RE	EQUIRED)
7	RETENTI	0.34" (0.03') x 19,166.4 SQ. F ION PONDS PROVIDED : ご		
IOA, DALE J. BELLAMAH UERQUE, NEW MEXICO.	118			
QUERQUE STATION "6-J2		5' × 40' × 0.75' = 150.0		
S SHOWN ON THE PLAN	$3 \xrightarrow{(2)} 8$	3'X 20'X 0.75' = 120.0 5'X 23'X 0.65' = 75.0 5'X 65'X 0.75' = 245.0	CU.FT. 590.0 CU.	FT.
TH "RED" LRE" EVLTIOHS:				
· Kante and a	(ZIIMIE			
	(CAGINICL	KS CERTIP	FICATION)	
		OCTOBER 30, 2	2017)	
	GRADINC	A PROPOSED AND DRAINAG	F. PLAN	
Jul and a	FOR A COM	MMERCIAL STRIP	CENTER	
.16		UBANK BLVD. QUERQUE, NEW MEX	• = •• — •	
		JANUARY, 2016		

City	of Albuquerque
E Star City	of Albuquerque
	Planning Department
Developm	ent & Building Services Division
DRAINAGE AND	TRANSPORTATION INFORMATION SHEET (REV 11/2016)
Project Title: 1220 EUBANK BLVD. H.E.	Building Permit #: Hydrology File #:
DRB#:	EPC#:
City Address: <u>1220 EUBAWK B</u>	LVD. N.E. SLBUQUERQUE, NEW MEXICO
Term De	
Address: 12D KIYOLAINIC BIND	S-E- ALBUQUERQUES HEN MEXICO
Phone# 505-140-CAAZ	S-C-, ALBURGERQUES HEN MEXICO
1 HOLIVIT. 000 970 0743	Fax#:E-mail:
Address: 12800 DAN JUAN N.E.	-, AUBLIQUERQUE, NEW MEXICO 87/23
Phone#: $00 - 60 - 6593$	EZ/LEVIJ. VALDEZ, P.E. Contact: <u>GEORGERODRIG</u> -, <u>ALBUQUE, NEW MEXICO</u> 87/23 Fax#:E-mail: <u>pawrod@hotmai</u>
Check all that Apply:	
DEPARTMENT:	TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
HYDROLOGY/ DRAINAGE	BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION	PRELIMINARY PLAT APPROVAL
Diverse and the contract of the contraction	SITE PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	SITE PLAN FOR BLDG. PERMIT APPROVAL
GRADING PLAN	FINAL PLAT APPROVAL
DRAINAGE MASTER PLAN	SIA/ RELEASE OF FINANCIAL GUARANTEE
DRAINAGE REPORT CLOMR/LOMR	FOUNDATION PERMIT APPROVAL
	GRADING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	SO-19 APPROVAL
TRAFFIC IMPACT STUDY (TIS)	PAVING PERMIT APPROVAL
	GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL
OTHER (SPECIFY)	CLOMR/LOMR
PRE-DESIGN MEETING?	
IS THIS A RESUBMITTAL?: Yes No	OTHER (SPECIFY)
DATE SUBMITTED: 10-30-17	Emp T.A.
	By: CERGE T. RODRIGHEZ-CONSULTANT
COA STAFF: E	LECTRONIC SUBMITTAL RECEIVED:
-	EE PAID:

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