

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

December 8, 2020

Mark H. Burak, P.E.
1512 Sagebrush Trail SE
Albuquerque, NM 87123

**RE: Bosque Brewing - Eubank
5210 Eubank NE
Grading and Drainage Plan
Engineer's Stamp Date: 11/04/20
Hydrology File: F21D047A**

Dear Mr. Burak:

Based upon the information provided in your submittal received 11/20/2020, the Grading and 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 along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

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.

Also as a reminder, please provide Drainage Covenant for the stormwater quality pond per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. There is a recording fee (\$25, payable to Bernalillo County). Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996). Due to COVID-19, please follow the instructions:

Either email a pdf copy of the executed drainage covenant and the exhibit to clabadie@cabq.gov or either mail or drop off the originals. Please mail the \$25.00 recording fee check made payable to Bernalillo County to:

Planning Dept./DRC
Attn: Charlotte LaBadie
600 2nd St. NW, Ste. 400
ABQ, NM, 87102

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If you drop off the originals, there is a drop box outside the building labeled DRC. Once approved and recorded, Charlotte will email you a copy.

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 6/2018)

Project Title: Bosque on Eubank **Building Permit #:** BP2020-44139 **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Tract 2, Subdivision Plat Map for the Promenade
City Address: 5210 Eubank NE

Applicant: Mark Burak, PE **Contact:** _____
Address: 1512 Sagebrush Tr SE, Albuquerque, NM 87123
Phone#: (505) 235-2256 **Fax#:** _____ **E-mail:** mburak@comcast.net

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

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE _____ DRB SITE ☒ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes ☒ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

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

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

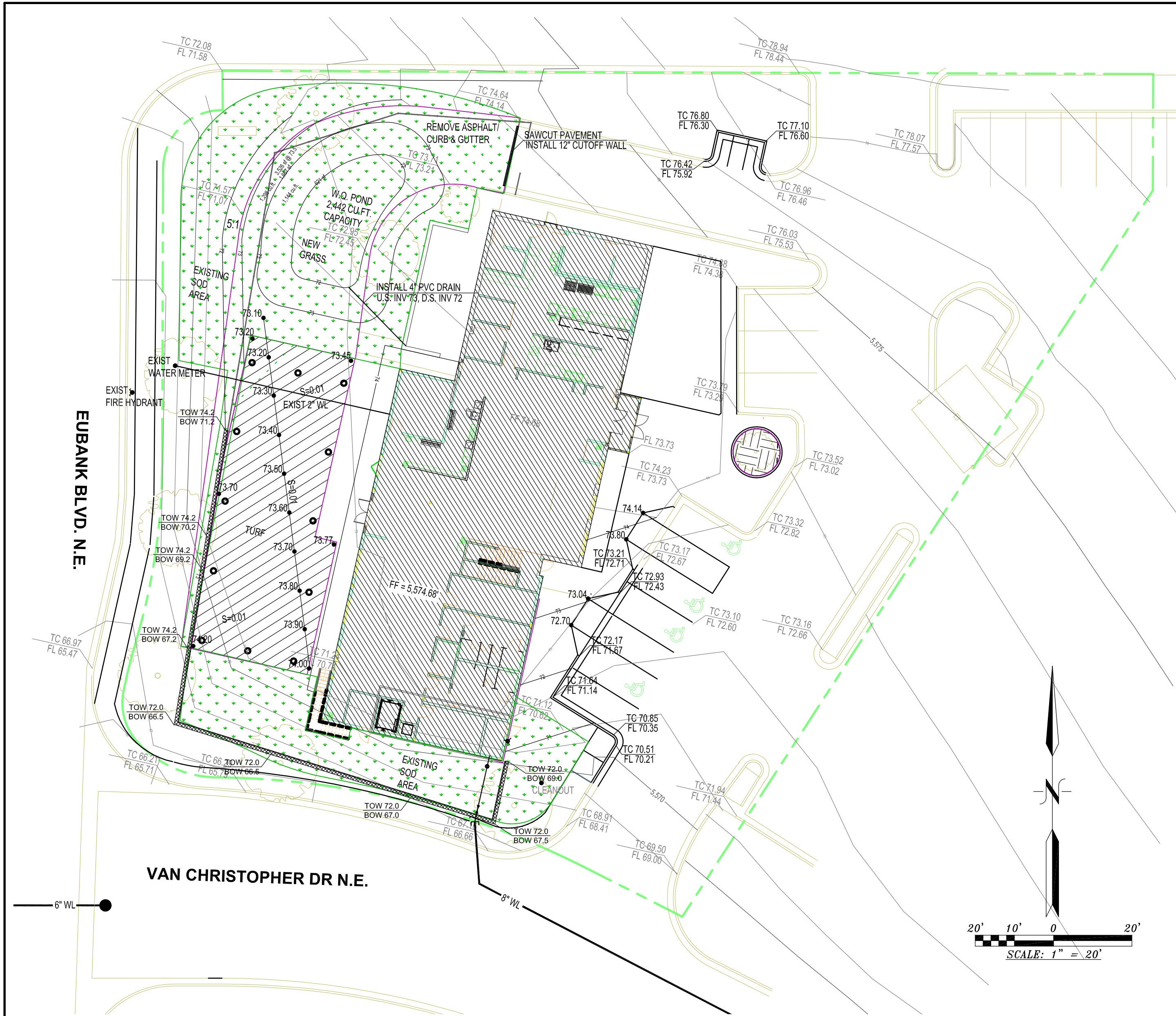
- ☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☒ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT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

DATE SUBMITTED: 11/30/2020 **By:** Mark Burak, PE

COA STAFF:

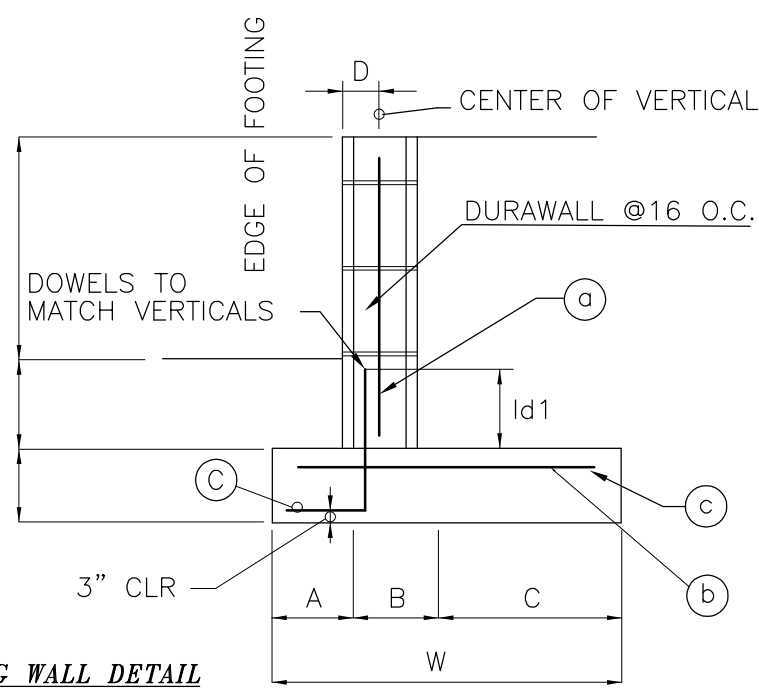
ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



FLOOD INSURANCE RATE MAP

National Flood Hazard Layer FIRMette



RETAINING WALL DETAIL

RETAINING WALL DIMENSIONS & REINFORCEMENT												
MIN. DIMENSIONS							STEEL REINFORCEMENT					
H	T	A	B	C	D	W	a	b	c	Id1		
2'	1'-0"	0'-6"	0'-8"	0'-10"	5 1/4"	2'-0"	#5@24" o.c.	#5@16"	#4@16"	1'-6"		
3'	1'-0"	0'-6"	0'-8"	1'-3"	5 1/4"	2'-5"	#5@16"	#5@16"	#4@16"	1'-6"		
4'	1'-0"	1'-0"	0'-8"	1'-2"	6 1/4"	2'-10"	#5@16"	#5@16"	#4@16"	1'-6"		
5'	1'-0"	1'-0"	0'-8"	1'-9"	6 1/4"	3'-5"	#5@8"	#5@16"	#4@16"	1'-6"		
6'	1'-0"	1'-0"	0'-8"	2'-6"	6 1/4"	4'-2"	#5@8"	#5@16"	#4@16"	1'-6"		

HYDROLOGIC CALCULATIONS

Hydrologic Calculations - COA DPM 22.2 (100-Year, 6-Hour Storm)										5210 Eubank NE - Bosque Brewing														
Burak Consulting										October 2020														
Precipitation (DPM 22.2 Table 2)					P60	P360	P1440	P4days	P10days	Precipitation (DPM 22.2 Table 2)					P60	P360	P1440	P4days	P10days					
Zone 4					2.23	2.9	3.65	4.7	5.95	Zone 4					2.23	2.9	3.65	4.7	5.95					
Excess (DPM 22.2 Table 8)					0.8 inches-A					1.08 inches-B					1.48 inches-C					2.84 inches-D				
Peak (DPM 22.2 Table 9)					2.2 cfs/ac-A					2.92 cfs/ac-B					3.73 cfs/ac-C					5.25 cfs/ac-D				
Discharge					2.2 cfs/ac-A					2.92 cfs/ac-B					3.73 cfs/ac-C					5.25 cfs/ac-D				
Drainage Areas		Land Treatments - Existing Conditions								Land Treatments - Fully Developed Conditions								Drainage Areas						
A	Percent A	B	Percent B	C	Percent C	D	Percent D	Area (sf)	A	Percent A	B	Percent B	C	Percent C	D	Percent D	Area (sf)							
Basin A	0.00	0%	0.09	9%	0.00	0%	0.09	95%	77,174	0.00	0%	0.09	5%	0.00	0%	1.88	95%	77,174						
Basin B	0.00	0%	0.00	0%	0.00	0%	0.00	0%	4,303	0.00	0%	0.00	5%	0.00	0%	0.09	95%	4,303						
Basin C	0.00	0%	0.01	10%	0.00	0%	0.08	90%	3,898	0.00	0%	0.01	10%	0.00	0%	0.08	90%	3,898						
Basin D	0.00	0%	0.05	50%	0.00	0%	0.05	50%	4,296	0.00	0%	0.03	30%	0.02	20%	0.05	50%	4,296						
Basin E	0.00	0%	0.04	50%	0.01	10%	0.03	40%	3,497	0.00	0%	0.04	45%	0.01	15%	0.03	45%	3,497						
Basin F	0.00	0%	0.00	0%	0.02	30%	0.05	70%	2,895	0.00	0%	0.00	0%	0.02	30%	0.05	70%	2,895						
Basin G	0.00	0%	0.01	5%	0.01	5%	0.15	90%	7,287	0.00	0%	0.07	40%	0.01	5%	0.09	55%	7,287						
Basin H	0.00	0%	0.01	10%	0.00	0%	0.08	90%	3,910	0.00	0%	0.00	5%	0.00	5%	0.08	90%	3,910						
																		20,705						
Peak Flow Rate - Existing Conditions					100 yr Q (cfs)					Peak Flow Rate - Developed Conditions					100 yr Q (cfs)					Discharge				
A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D						
Basin A	0.00	0.26	0.00	8.84	9.1	0.00	0.26	0.00	8.84	9.1	0.00	0.26	0.00	8.84	9.1	0.00	0.26	0.00						
Basin B	0.00	0.01	0.00	0.50	0.5	0.00	0.01	0.00	0.50	0.5	0.00	0.01	0.00	0.50	0.5	0.00	0.01	0.00						
Basin C	0.00	0.03	0.00	0.42	0.4	0.00	0.03	0.00	0.42	0.4	0.00	0.03	0.00	0.42	0.4	0.00	0.03	0.00						
Basin D	0.00	0.14	0.00	0.26	0.4	0.00	0.09	0.07	0.26	0.4	0.00	0.07	0.07	0.26	0.4	0.00	0.07	0.07						
Basin E	0.00	0.12	0.03	0.17	0.3	0.00	0.11	0.04	0.17	0.3	0.00	0.11	0.04	0.17	0.3	0.00	0.11	0.04						
																		10.8						
Basin F	0.00	0.00	0.07	0.24	0.3	0.00	0.00	0.07	0.24	0.3	0.00	0.00	0.07	0.24	0.3	0.00	0.00	0.07						
Basin G	0.00	0.02	0.03	0.79	0.8	0.00	0.20	0.03	0.48	0.7	0.00	0.20	0.03	0.48	0.7	0.00	0.20	0.03						
Basin H	0.00	0.03	0.00	0.42	0.5	0.00	0.01	0.02	0.42	0.5	0.00	0.01	0.02	0.42	0.5	0.00	0.01	0.02						
																		1.5						
																		cfs to Eubank						
																		cfs to Pond						
Volume Runoff Volume - Existing Conditions Six Hour Storm Event					100 yr V (cu-ft)					Volume Runoff Volume - Developed Conditions Six Hour Storm Event					100 yr V (cu-ft)					Volume				
Basin A	0	347	0	16,129	16,477	0	347	0	16,129	16,477	0	347	0	16,129	16,477	0	347	0						
Basin B	0	19	0	906	925	0	19	0	906	925	0	19	0	906	925	0	19	0						
Basin C	0	105	0	507	517	0	35	772	807	807	0	35	772	807	807	0	35	772						
Basin D	0	192	0	468	660	0	115	104	468	660	0	115	104	468	660	0	115	104						
Basin E	0	157	43	308	508	0	142	64	308	508	0	142	64	308	508	0	142	64						
Basin F	0	0	106	446	551	0	0	106	446	551	0	0	106	446	551	0	0	106						
Basin G	0	33	44	1,443	1,520	0	262	44	1,443	1,520	0	262	44	1,443	1,520	0	262	44						
Basin H	0	35	0	774	809	0	18	24	774	809	0	18	24	774	809	0	18	24						
																		2,555						
																		cft. to Eubank						
																		cft. to Pond						
Volume Runoff Volume - Existing Conditions Ten Day Storm Event					100 yr 10 day V (cu-ft)					Volume Runoff Volume - Developed Conditions Ten Day Storm Event					100 yr 11 day V (cu-ft)					Volume				
Ponding Volume - Ten Day Storm Event					Existing					Developed					Delta									
Basin A	35,111	35,111	0	35,111	15,477	16,477	0	15,477	16,477	0	15,477	16,477	0	15,477	16,477	0	15,477	16,477						
Basin B	1,971	1,971	0	1,971	925	925	0	925	925	0	925	925	0	925	925	0	925	925						
Basin C	1,699	1,699	0	1,699	807	807	0	807	807	0	807	807	0	807	807	0	807	807						
Basin D	1,201	1,228	27	1,201	660	667	7	660	667	7	660	667	7	660	667	7	660	667						
Basin E	863	869	6	863	508	517	9	508	517	9	508	517	9	508	517	9	508	517						
Basin F	1,067	1,067	0	1,067	551	551	0	551	551	0	551	551	0	551	551	0	551	551						
Basin G	1,187	2,207	(980)	1,187	1,520	1,188	(332)	1,520	1,188	(332)	1,520	1,188	(332)	1,520	1,188	(332)	1,520	1,188						
Basin H	1,704	1,710	6	1,704	809	816	7	809	816	7	809	816	7	809	816	7	809	816						
																		4,884						
																		cft. to Pond						
																		418						
																		inches used						
																		WQ Ponding						