



June 23, 2015

Ron Bohannon, PE
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

**RE: Dreamstyle Warehouse, 1525 Renaissance Center
Grading and Drainage Plan
Engineer's Stamp Date 6-19-2015 (File: F16-D051A)**

Dear Mr. Bohannon:

Based upon the information provided in your submittal received 6-15-15, the above referenced Grading and Drainage Plan cannot be approved for DRB Action on the Site Development Plan for Building Permit until the following comment is addressed:

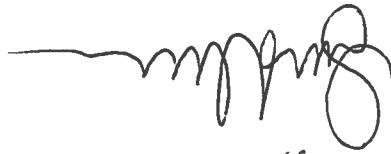
- 1) The first flush from the new building site must be retained. The off-site pond ("Pond 5") that is currently proposed to handle first flush does not meet the requirements because it is discharging the first flush at a controlled rate in lieu of retaining it. In addition to options mentioned from the last letter, another option may be to locate the pond just northeast of the new building within the area where the paved parking is shown and relocate the paved parking elsewhere. Along with the proposed change, state how first flush is to be managed on the grading and drainage plan in along with labeled required volumes.

Prior to obtaining Building Permit, address the following items:

- 1) Provide plat for Tract 9A that may show a private easement for the proposed storm drain that routes off-site flows through site. If one is not already provided, a paper easement is required.
- 2) In order to control the flow to allowable discharge of 0.66 cfs to the street, revise grades at the entrance.
- 3) The Type "D" drop inlet upstream of Pipe 3 does not show the capacity to handle the amount of flow listed for Pipe 3. Label curb along the west edge and other parking areas if applicable, and have a general note stating that the listed elevations are at the flowline as applicable. (There is a discrepancy between the spot elevation of 5071.40 and the grate elevation of 5071.25 near the northwest corner of the new building where the 5071.25 elevation appears to provide sufficient head to capture the required flow.)

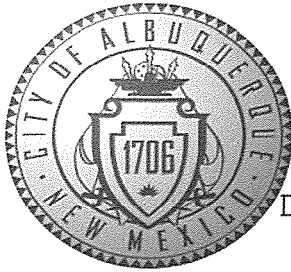
If you have any questions, you can contact me at 924-3924.

Sincerely,



Jeanne Wolfenbarger, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf Addressed via Email



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Dreamstyle Tract 9A City Drainage #: _____
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: _____
City Address: _____

Engineering Firm: Tierra West, LLC Contact: Jon Niski
Address: 5571 Midway Park Place NE Albuquerque NM 87109
Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: jniski@tierrawestllc.com

Owner: Larry Chavez Contact: Larry Chavez
Address: 7401 Indian School Road NE Albuquerque, NM 87110
Phone#: 505-881-3200 Fax#: _____ E-mail: lchavez@rbass.com

Architect: Rick Bennett Contact: Rick Bennett
Address: 1104 Park Avenue SW Albuquerque, NM 87102
Phone#: 505-242-1859 Fax#: _____ E-mail: rick@rba81.com

Surveyor: Precision Surveys, Inc. Contact: Larry Medrano
Address: P.O. Box 90636 Albuquerque, NM 87199
Phone#: 505-856-5700 Fax#: _____ E-mail: larry@presurv.com

Contractor: Franklin's Earthmoving Inc. Contact: John W. Ellis
Address: P.O. Box 30275 Albuquerque, NM 87190
Phone#: 505-884-6947 Fax#: _____ E-mail: john@franklinsearthmoving.com

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☒ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEER'S CERT (TCL)
☐ ENGINEER'S CERT (DRB SITE PLAN)
☐ ENGINEER'S CERT (ESC)
☐ SO-19
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ CERTIFICATE OF OCCUPANCY (PERM)
☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ GRADING CERTIFICATION
☐ SO-19 APPROVAL
☐ ESC PERMIT APPROVAL
☐ ESC CERT. ACCEPTANCE
☐ OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED: ☐ Yes ☐ No ☐ Copy Provided
DATE SUBMITTED: 6-15-2015 By: Jonathan Niski

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

5571 Midway Park Place NE Albuquerque, NM 87109
(505) 858-3100 Fax (505) 858-1118 1-800-245-3102
tierrawestllc.com

TIERRA WEST, LLC

June 10, 2015

Ms. Jeanne Wolfenbarger, PE
Planning Department- Hydrology
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

**RE: DREAMSTYLE WAREHOUSE
1525 RENAISSANCE CENTER
GRADING AND DRAINAGE PLAN (F16-D051A)**

Dear Ms. Wolfenbarger:

Please find the following responses addressing your comments listed below:

1. The First Flush Pond area must retain the impervious area of the currently proposed building at a depth of 0.34" and not be intended to only allow drainage from future impervious development on Basin 7. Show drainage from new building construction to a first flush pond area instead of directly draining it into the new storm drain system. Based on the site plan layout, some options may be to provide an area within small pervious area at the southwest corner of the building while maintaining the required minimum distance away from the building, providing a roof drain to directly tie into the currently proposed first flush pond location, and utilizing the pervious area south of the proposed parking lot. Show all roof drains for new building.

The proposed impervious area drains to a pond that has a restricted flow allowing that water to pond for a long period of time. When the water is discharged from Pond #5 it is then conveyed to the regional pond along Montano Road. The discharge from that pond is controlled by a manual valve thus effectively creating another first flush pond.

This type of drainage system is consistent with Section 14-5-2-6(H) which states first flush systems shall be used where practicable except, "where appropriate public or private drainage facilities are available 'offsite' and will be used in a manner consistent with the goals of Section 14-5-2-1." We believe this design meets those requirements.

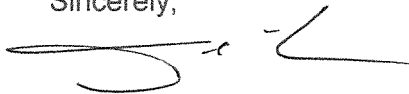
2. Label existing contours, particularly the major ones. Also provide new contours for the site along the 3: 1 slopes.
The contours are now labeled and proposed contours were added to the plan.
3. Show existing and new contour elevations around the perimeter of the site to show how new grading ties into existing and does not adversely impact adjacent sites. Also include existing spot elevations along Renaissance Blvd, and label Renaissance Blvd. on the plan view.

Existing spot elevations along Renaissance Blvd. were added as were the proposed contours tying to the existing contours.

4. Reference that the 9.79 cfs of off-site flow came from the Master Drainage Plan. In addition to the 9.79 cfs entering the site from the storm drain, address how much off-site flow is coming from the sloped area to the east of the site and show this off-site basin area in the calculations. Call out existing pipe size that is conveying the 9.79 cfs. With this addition, maintain an overall site discharge of below 24.97 cfs to Pond 5.
Basin 8 was added to capture the amount of flow from the sloped area and that flow was added to the calculations. The total discharge to Pond #5 is 24.89 cfs which is still below the allowable 24.97 cfs.
5. For the entryway into the site, call out COA Standard Dwgs. 2426 and 2420 as applicable.
The standard drawing numbers for the entrance were added to the plan.
6. For connection of dock drain into the main storm drain, call out a tee connection and invert elevation.
A tee connection is now called out on the plan.
7. Correct spot elevation showing "50730.0" at the corner of the building to correct elevation.
The spot elevation was corrected.
8. If 0.66 cfs is allowed to be discharged into the street, the allowable flow should be met unless it can be shown that the street and the downstream storm drain system in Renaissance that will be capturing this flow can handle the additional 0.96 cfs.
The total amount of discharge to the street is 1.0 cfs which is slightly higher than the 0.66 cfs proposed in the previous drainage study. Since an amount greater to this flow and volume is captured in the proposed first flush pond, the downstream capacity is actually increased and can easily handle the additional 0.34 cfs discharged to the street.
9. Show capacity calculations for on-site inlets.
Inlet capacity calculations were added to the plan.

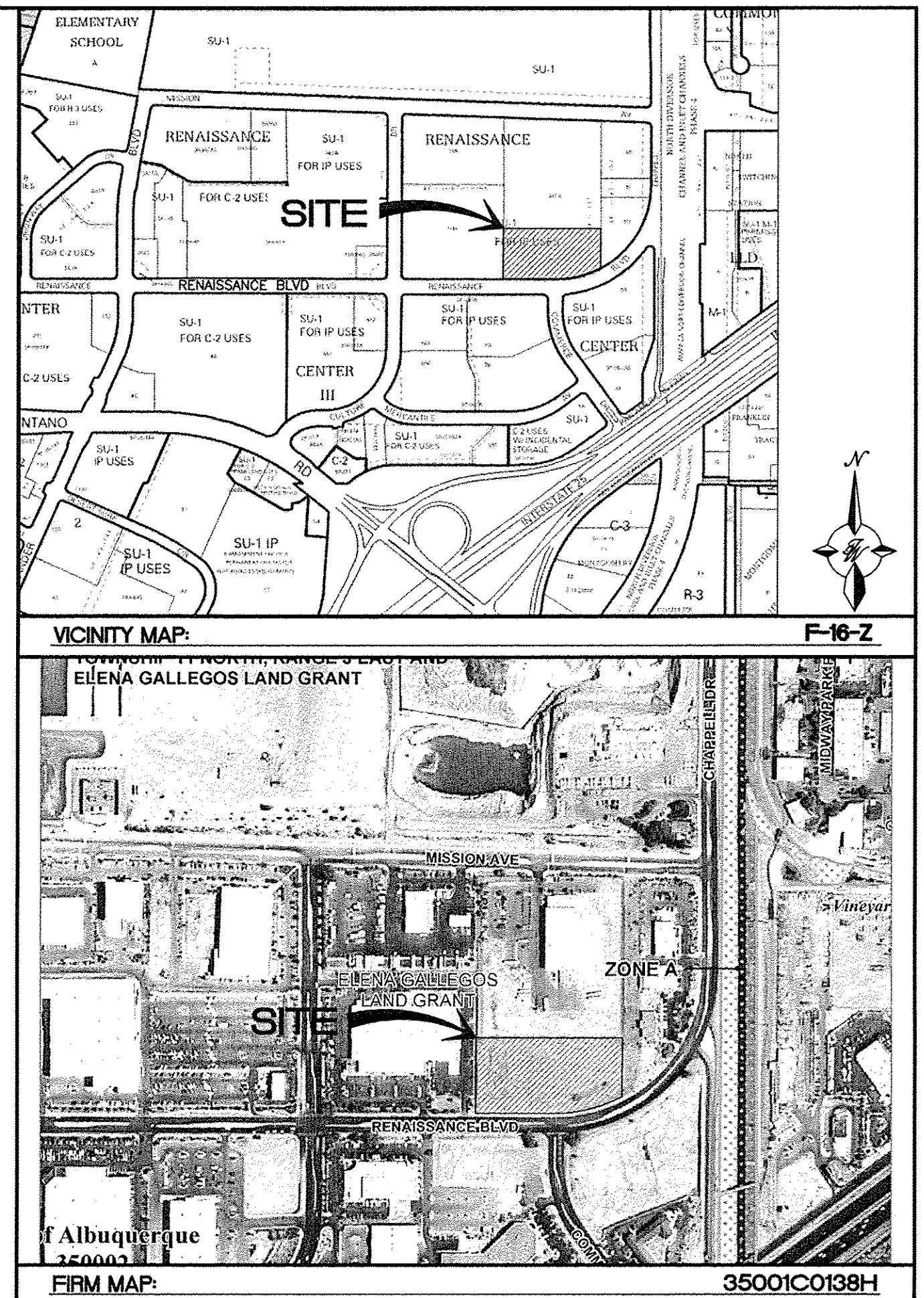
If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,



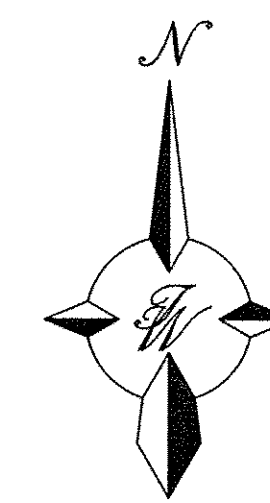
Jonathan D. Niski, PE

JN: 2014038
dc

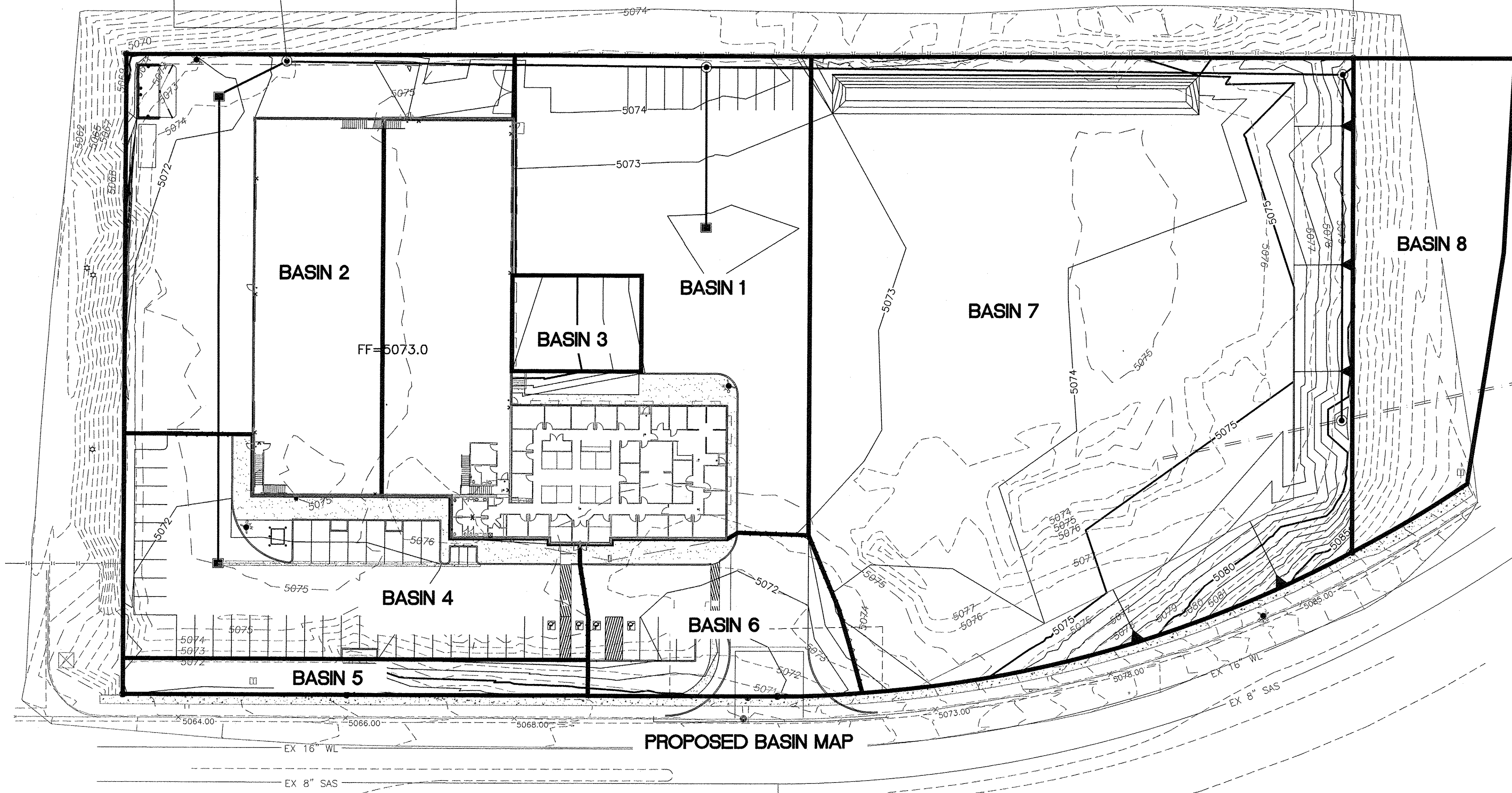


1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.



SCALE: 1"=30'



Renaissance Blvd, N.E.

Weighted E Method

On-Site Basins

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year			10-Year		
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
1	41,955	0.96	0%	0	2%	0.02	0%	0.00	98%	0.94	2.093	0.168	4.48	1.319	0.106	2.98
2	28,583	0.66	0%	0	8%	0.05	0%	0.00	92%	0.60	2.013	0.110	2.96	1.255	0.069	1.95
3	3,220	0.07	0%	0	0%	0.00	0%	0.00	100%	0.07	2.120	0.013	0.35	1.340	0.008	0.23
4	16,617	0.38	0%	0	8%	0.03	0%	0.00	92%	0.35	2.013	0.064	1.72	1.255	0.040	1.13
5	3,577	0.08	0%	0	100%	0.08	0%	0.00	0%	0.00	0.780	0.005	0.19	0.280	0.002	0.08
6	8,593	0.20	0%	0	25%	0.05	0%	0.00	75%	0.15	1.785	0.029	0.81	1.075	0.018	0.51
7	67,804	1.56	0%	0	30%	0.47	0%	0.00	70%	1.09	1.718	0.223	6.19	1.022	0.133	3.86
8	14,040	0.32	0%	0	100%	0.32	0%	0.00	0%	0.00	0.780	0.021	0.73	0.280	0.008	0.31
											16.68					

Equations:

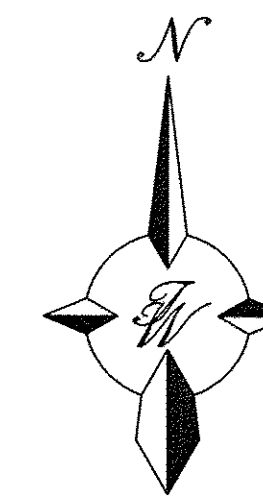
Weighted E = $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$ / (Total Area)

Volume = Weighted D * Total Area

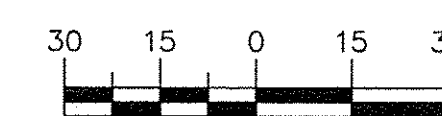
Flow = $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

Excess Precipitation, E (inches)			
Zone 2	100-Year	10 - Year	
E _a	0.53	0.13	
E _b	0.78	0.28	
E _c	1.13	0.52	
E _d	2.12	1.34	

Peak Discharge (cfs/acre)			
Zone 2	100-Year	10 - Year	
Q _a	1.56	0.38	
Q _b	2.28	0.95	
Q _c	3.14	1.71	
Q _d	4.70	3.14	



GRAPHIC SCALE



<div>ENGINEER'S SEAL</div> <div></div> <div>RONALD R. BOHANNAN P.E. #7868</div>	TRACT 9A RENAISSANCE CENTER GRADING AND DRAINAGE PLAN <div>TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100 www.tierrawestllc.com</div>	DRAWN BY BJF
		DATE 06/10/15
		2015009-GRB
		SHEET # D2
		JOB # 2015009