

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

December 16, 2015

David Soule, P.E.
Rio Grande Engineering
PO Box 93924
Albuquerque, New Mexico 87199

RE: **Gonzales Residence**
Lot 11 Blk 10 Unit 22 Volcano Cliffs
6308 Petirrojo NW
Grading and Drainage Plan
Engineers Stamp Date 12/14/15 (D10D003F11)

Dear Mr. Soule,

Based upon the information provided in your submittal received 12/15/15, this plan is approved for Grading Permit and Building Permit.

PO Box 1293

Please attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

Albuquerque

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

New Mexico 87103

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

www.cabq.gov

Sincerely,

Abiel Carrillo, P.E.
Principal Engineer, Hydrology
Planning Department

RR/AC
C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: _____ **Building Permit #:** _____ **City Drainage #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Engineering Firm: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Architect: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

DEPARTMENT:

- ☐ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ OTHER (SPECIFY) _____

CHECK 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
- ☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

DATE SUBMITTED: _____ **By:** _____

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

December 14, 2015

Rita Harmon
Senior Engineer, Planning Department
City of Albuquerque
600 2nd street NW
Albuquerque, NM 87102

**RE: Drainage Resubmittal
Gonzales Residence- (D10D0003F11)
Albuquerque, New Mexico**


Dear Ms. Harmon:

Rio Grande Engineering requests approval of the enclosed grading plan in support of the proposed building permit for this lot. The submittal has been revised to address your comments dated December 9, 2015. The following is a summary of the comment and an explanation as to how it was addressed.

1. This lot drains into two basins, the front to pond 8 and the back to pond 9, revise site
We previously had incorrectly located the lot on the wrong block in our analysis. We have revised the plan to conform to the basin map fro SAD 228. We have enclosed this map and identified the lot on the map.
2. The turn blocks are located on wrong fence line. turned blocks should be on east and west
In order to have the site conform to the proposed condition basin map, the pad needs to be elevated. This causes retaining on the east and west property lines. We have added turned block on these walls at the south portion of the lot, where the flow can be accepted and passed. Based upon the existing contours and the location of Pond 9, we propose to have the turn blocks on the south wall remain. This design better matches existing and proposed flow conditions shown in the SAD 228 drainage plan.

It is out intent to modify the plans to address your comments. Should you have any questions regarding this matter, please do not hesitate to call me.

Sincerely,


David Soule, PE
RIO GRANDE ENGINEERING
PO Box 93924
ALBUQUERQUE, NM 87199
321-9099

Enclosures

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

December 9, 2015

David Soule, P.E.
Rio Grande Engineering
PO Box 93924
Albuquerque, New Mexico 87199

**RE: Gonzales Residence Lot 11 Block 10 Unit 22 Volcano Cliffs
6308 Petirrojo NW
Grading and Drainage Plan
Engineers Stamp Date 12/7/15 (D10D0003F11)**

Dear Mr. Soule,

Based upon the information provided in your submittal received 12/7/15, this plan cannot be approved for Grading Permit and Building Permit until the following comments are addressed.

PO Box 1293

Albuquerque

New Mexico 87103

- This lot drains to two different ponds, the front half flows to pond 8 and the back half flows to pond 9, provide a site plan depicting this requirement.
- The turn blocks are located in the wrong fence line, the turn blocks should be placed in the east and west rear yard walls.

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

www.cabq.gov

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: File

Weighted E Method										
Basin	Area (sq)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted E (ac-ft)	100-Year 6-hr Volume (ac-ft)	Flow cfs	
UPLAND	0.00	0.000	0%	0	10%	0.000	40%	0	0.000	0.000
NATIVE	16402.00	0.377	80%	0.3012	10%	0.038	10%	0.03785	0%	0.000
ALLOWED	16402.00	0.377	0%	0	10%	0.038	40%	0.15082	50%	0.188
PROPOSED	22993.00	0.519	0%	0	31%	0.161	39%	0.20228	30%	0.198
INCREASE										
total										0.035

Equations:

Weighted E = Ea**A*a + Eb**A*b + Ec**A*c + Ed**A*d / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * *A*a + Qb * *A*b + Qc * *A*c + Qd * *A*d

Where for 100-year, 6-hour storm- zone 1

Qa= 1.29

Ea= 0.44

Eb= 0.67

Ec= 0.99

Ed= 1.97

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME

WATER QUALITY

INCREASE FROM NATIVE

REQUIRED
(CF)

192

1523

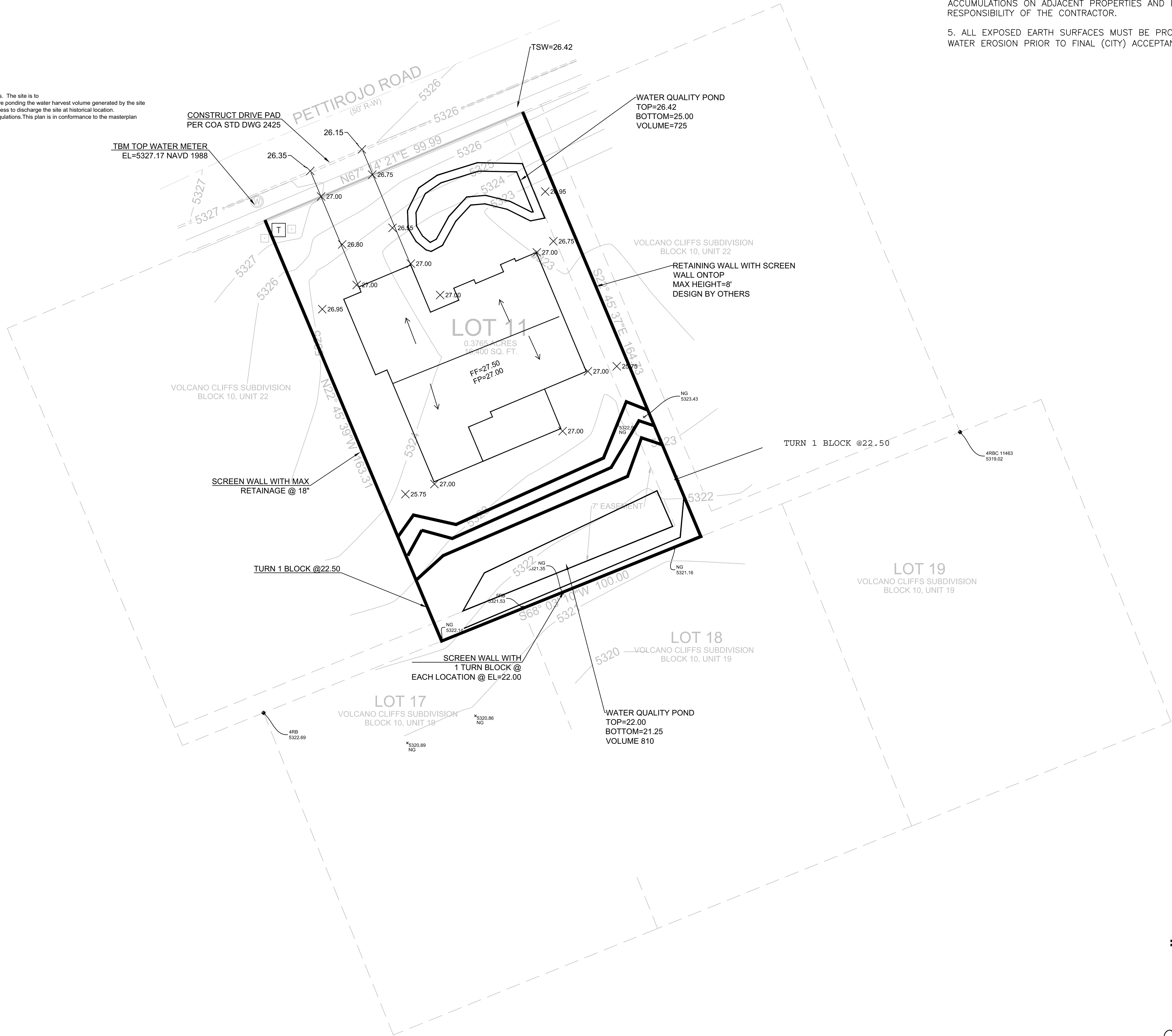
PROVIDED
(CF)

772

1535

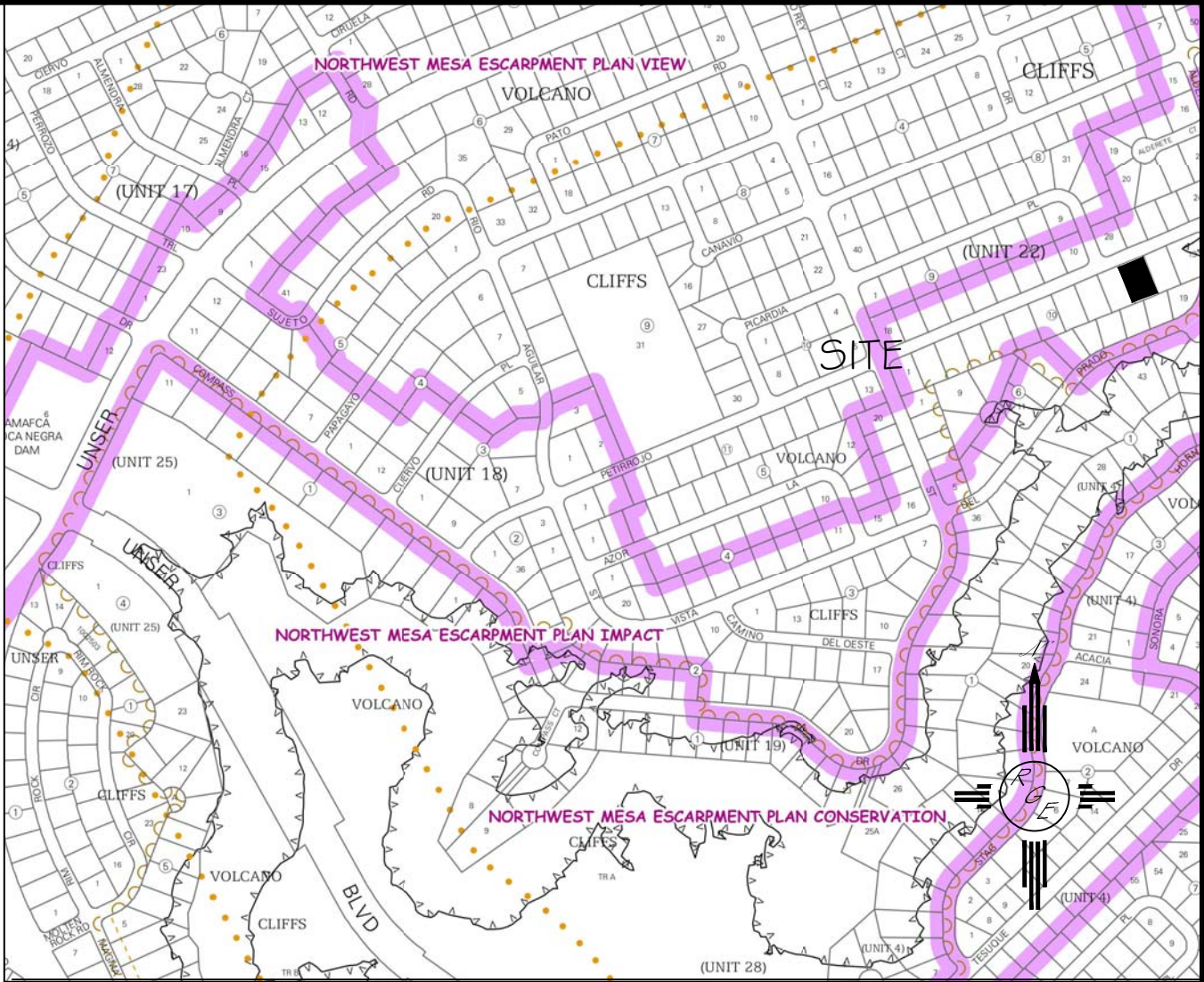
Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to drain to the adjacent lot per the master drainage plan. We are ponding the water harvest volume generated by the site we are ponding the increased volume and flow and allowing access to discharge the site at historical location. This plan has a shallow water harvest pond per the drainage regulations. This plan is in conformance to the masterplan



EROSION CONTROL NOTES:

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.





Proposed Conditions Model-Sub-Basin Data				
Basin	Area (ac)	cfs/ac	Q ₁₀₀ (cfs)	V ₁₀₀₋₂₄ (ac-ft)
Basin 200 (Discharge to Pond 4)				
200	13.12	2.44	32.02	1.546
Basin 201 (Discharge to Pond 5)				
201-A	7.48	1.97	14.72	0.965
201-B	6.62	1.97	13.03	0.854
201-C	5.12	1.97	10.08	0.661
201-D	2.47	1.97	4.86	0.319
201-E	1.53	1.97	3.01	0.197
201-F	8.73	1.97	17.18	1.127
201-G	8.54	1.97	16.81	1.102
201-H	8.88	1.97	17.47	1.146
201-I	6.09	1.97	11.98	0.786
201-J	8.51	1.97	16.75	1.098
201-K	3.75	1.97	7.38	0.484
201-L	11.78	1.97	23.18	1.520
201-M	5.17	1.97	10.17	0.667
201-N	5.27	1.97	10.37	0.680
201-O	3.16	1.97	6.22	0.408
201-P	2.20	1.97	4.33	0.284
Total	95.30		187.54	12.300
Basin 202 (Discharge to La Cuentista Pond)				
202-A	8.57	3.20	27.44	1.104
202-B	10.72	3.20	34.32	1.382
Total	19.29		61.76	2.486
202-C	1.33	2.62	3.50	0.235
Basin 203 (Discharge to Pond 8)				
203-A	6.51	2.99	19.47	0.841
203-B	9.99	2.99	29.87	1.290
203-C	5.24	2.99	15.67	0.677
203-D	4.18	2.99	12.50	0.540
203-E	9.89	2.99	29.57	1.277
203-F	3.02	2.99	9.03	0.390
Total	38.83		116.11	5.014
Basin 204 (Discharge to Pond 7)				
204	8.98	3.20	28.73	1.156
Basin 205 (Discharge to Pond 6)				
205-A	10.29	2.73	28.11	1.328
205-B	10.06	2.73	27.49	1.298
205-C	5.66	2.73	15.46	0.730
205-D	3.22	2.73	8.80	0.416
205-E	5.75	2.73	15.71	0.742
205-F	6.88	2.73	18.80	0.888
Total	41.86		114.37	5.402
Basin 206-A (Discharge to Pond 9)				
206-A	4.01	3.19	12.79	0.514
Basin 206-B (Free Discharge)				
206-B	1.01	3.19	3.22	0.130
Total	5.02		16.01	0.644
Basin 207 (Free Discharge)				
207	1.85	3.22	5.96	0.240