

# CITY OF ALBUQUERQUE



Timothy M. Keller, Mayor

January 8, 2018

David Soule, P.E.  
Rio Grande Engineering  
P.O. Box 93924  
Albuquerque, NM, 87199

**RE: Marble Townhomes**  
**Grading Plan and Drainage Report**  
**Engineer's Stamp Date: 12/29/17**  
**Hydrology File: J18D046**

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 01/02/2018, the Grading Plan **is not** approved for Building Permit and Grading Permit. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

Drainage Report:

NM 87103

1. Under the Existing Conditions, it appears that about half of the site drains to Cardenas Drive and about half of the site drains to Cagua Drive with a small portion draining directly to Marble Ave. Please take another look at the existing conditions.
2. Provide a drainage map for the Existing Conditions and update the existing drainage calculations.
3. Under the Proposed Conditions, why not keep the drainage as per the appeared drainage conditions as outlined in #1 above?
4. Since this is a redevelopment site, you can use the redevelopment first flush volume that will be outlined in the new DPM once it is published. The storm water quality volume is calculated based on the 0.48 inch storm. To calculate the required storm water quality volume to be captured, multiply the impervious area by 0.28 inches for the 80th percentile storm.

www.cabq.gov



# CITY OF ALBUQUERQUE



Timothy M. Keller, Mayor

## Grading Plan:

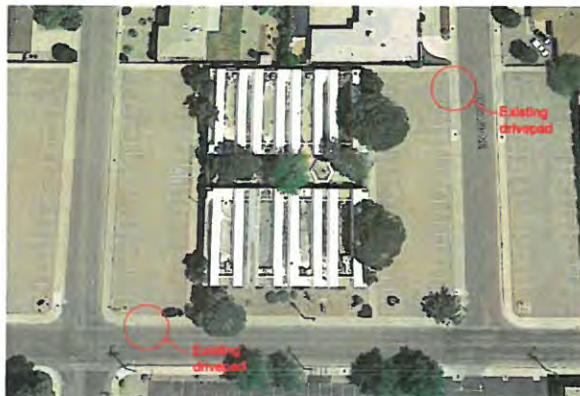
1. The site currently shows more than 1 acre of disturbance is being proposed. An Erosion and Sediment Control Plan is required and has to be submitted to the storm water quality engineer (Curtis Cherne, PE, [ccherne@cabq.gov](mailto:ccherne@cabq.gov)). Hydrology's approval for Grading or Building Permit will not be given until the submittal of the ESC Plans.
2. Please provide a note showing the first flush required volume and the first flush provided volume.
3. Please provide a typical detail for the turned CMU block. This block needs to be at least four (4) inches above the proposed grade to avoid clogging.
4. There are two missing remove drivepad & replace with curb & gutter note as outlined in the following photo.

PO Box 1293

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)



If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

*Renée C. Brissette*

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





# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

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: \_\_\_\_\_

**Surveyor:** \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Contractor:** \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

### 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: \_\_\_\_\_ By: \_\_\_\_\_

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



DRAINAGE REPORT

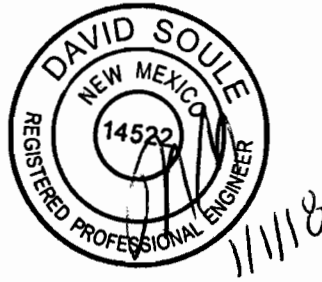
For

**MARBLE TOWNHOMES  
6001 MARBLE NE  
Albuquerque, New Mexico**

Prepared by

Rio Grande Engineering  
PO Box 93924  
Albuquerque, New Mexico 87199

JANUARY 2018



David Soule P.E. No. 14522



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**Appendix**

Site Hydrology ..... A

Hydraulic Calculations..... B

**Map Pocket**  
Site Grading and Drainage Plan



## **PURPOSE**

The purpose of this report is to provide the Drainage Management Plan for four approximately 5400 square foot apartment buildings, located on the north side of Marble, between Cardenas and Cagua NE. This plan was prepared in accordance with the City of Albuquerque design regulations, utilizing the City of Albuquerque's Development Process Manual drainage guidelines. This report will demonstrate that the grading does not adversely affect the surrounding properties, nor the upstream or downstream facilities.

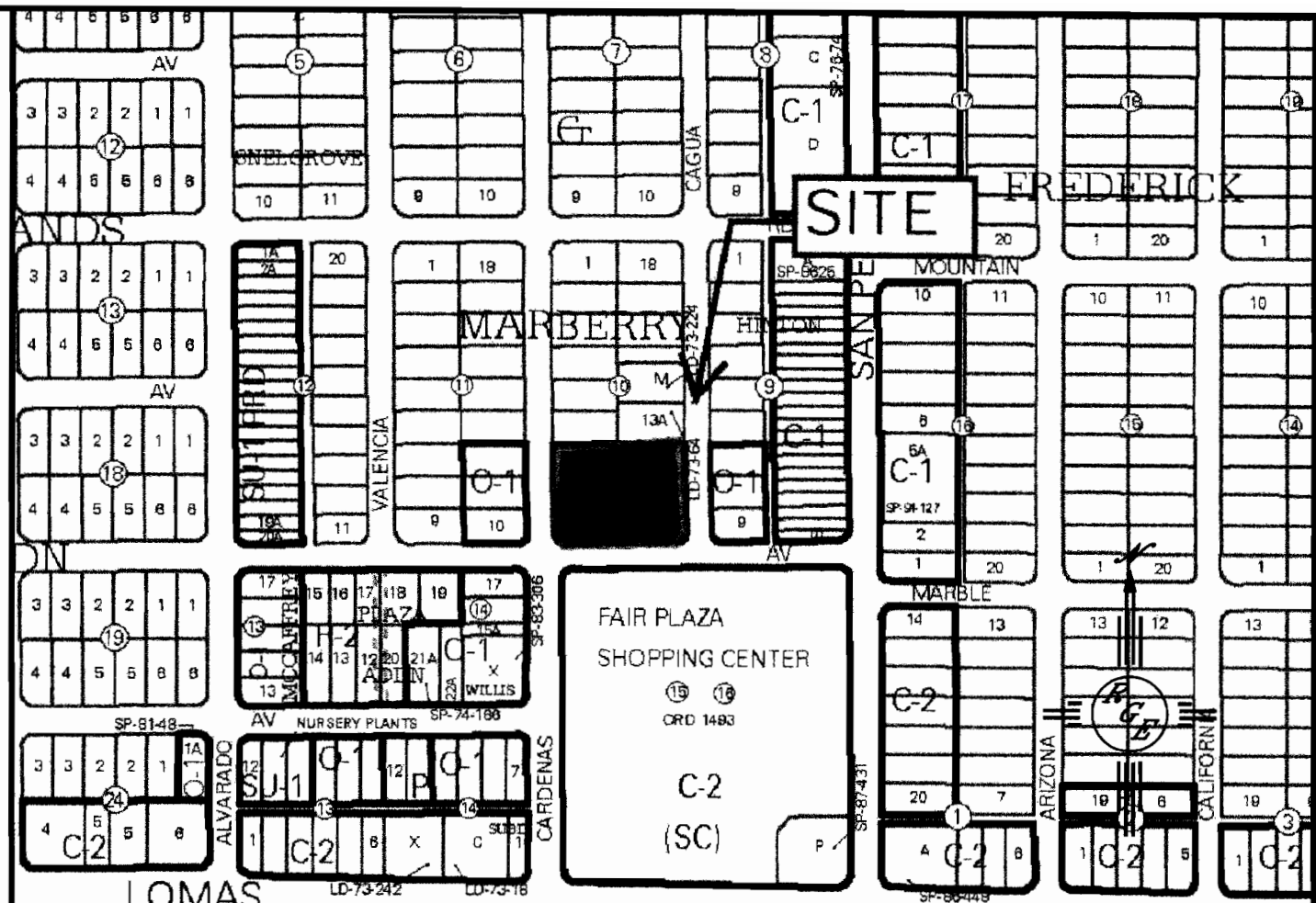
## **INTRODUCTION**

The subject of this report, as shown on the Exhibit A, is one parcel containing an area of 1.23 acres of land located on Marble between Cardenas and Cagua NE. The legal description of this site is tract 2 Marble Town homes, formerly lots 7-12, Block 10 Swearingen-Mabry Subdivision. The site was recently replatted into one single tract. As shown on FIRM map35013C0354H, the entire property is located within Flood Zone X. This site is surrounded by fully developed parcels. This site has been completely developed for several decades, but the buildings were recently removed. Appendix A shows a current survey and 2010 aerial with the buildings and existing parking lots, which we consider historical conditions. This is consistent with the maps of the area within the Albuquerque Master Drainage Study Volume II. The buildings have recently been removed. Based on the site location and the area characteristics of the adjacent drainage infrastructure this development shall be designed to match existing drainage patterns, and shall provide shallow water quality ponds for harvesting of rainwater for the first .44" of rainfall

## **EXISTING CONDITIONS**

The site is currently developed. The site has historically included two large buildings with the remainder of the site paved, with very little gravel mulch landscape areas. The site is in fully developed condition. The site drains from southeast to south west, historically discharging 5.88 cfs to Cardenas right of way where it is conveyed north to the city storm drain.





VICINITY MAP:

J-18-Z



FIRM MAP:

FM35001C0354H



. The site is not impacted by any offsite flows, and is surrounded by curb and gutter on the upland basin. The discharge leaves the site mainly as sheet flow.

### **PROPOSED CONDITIONS**

The proposed improvements consist of four apartment buildings and associated parking. As shown in appendix A, the site will be graded to drain to Cardenas via sheet flow out the driveway. The site contains 3 basins, with Basins A and C being the rear half of the buildings and rear yards, with basin being the fronts and parking area. The site has multiple depressed landscape areas that will capture the first flush, before discharging at a peak rate of 5.69 cfs. The harvest ponds contain 1527 cubic feet which are greater than the 1195 cubic feet required to contain the first .44" of a storm.

### **SUMMARY AND RECOMMENDATIONS**

This project is a redevelopment project within a completely developed area of northeast Albuquerque. The site historically discharges 5.88 cfs to the Cardenas Street. The proposed drainage plan will allow for harvesting ponds which overflow to internal driveway and discharge to Cardenas. The developed conditions will discharge 5.69 cfs. The proposed decrease of .19 cfs is minimal but with the inclusion of the harvesting ponds the flow leaving site will be less and shall have no negative impact on surrounding drainage structures. Since this site encompasses more than 1 acre, a NPDES permit and SWPPP will be required prior to any construction activity.

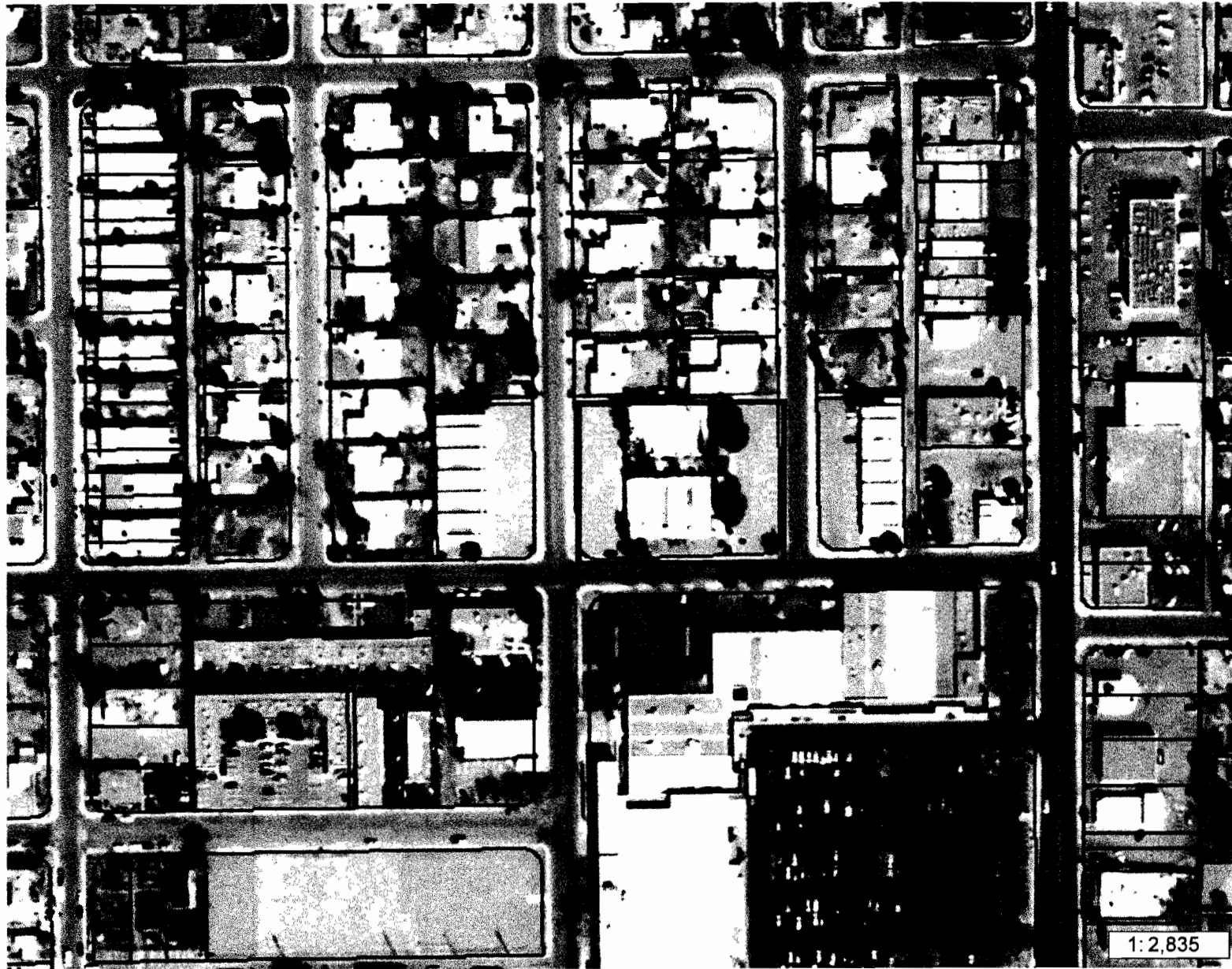


**APPENDIX A**  
**SITE HYDROLOGY**





## City of Albuquerque



### Legend

- ☐ Bernalillo County Parcels
- Municipal Limits**
  - ☒ Corrales
  - ☒ Edgewood
  - ☒ Los Ranchos
  - ☒ Rio Rancho
  - ☒ Tijeras
  - ☒ UNINCORPORATED
- ☐ World Street Map

### Notes

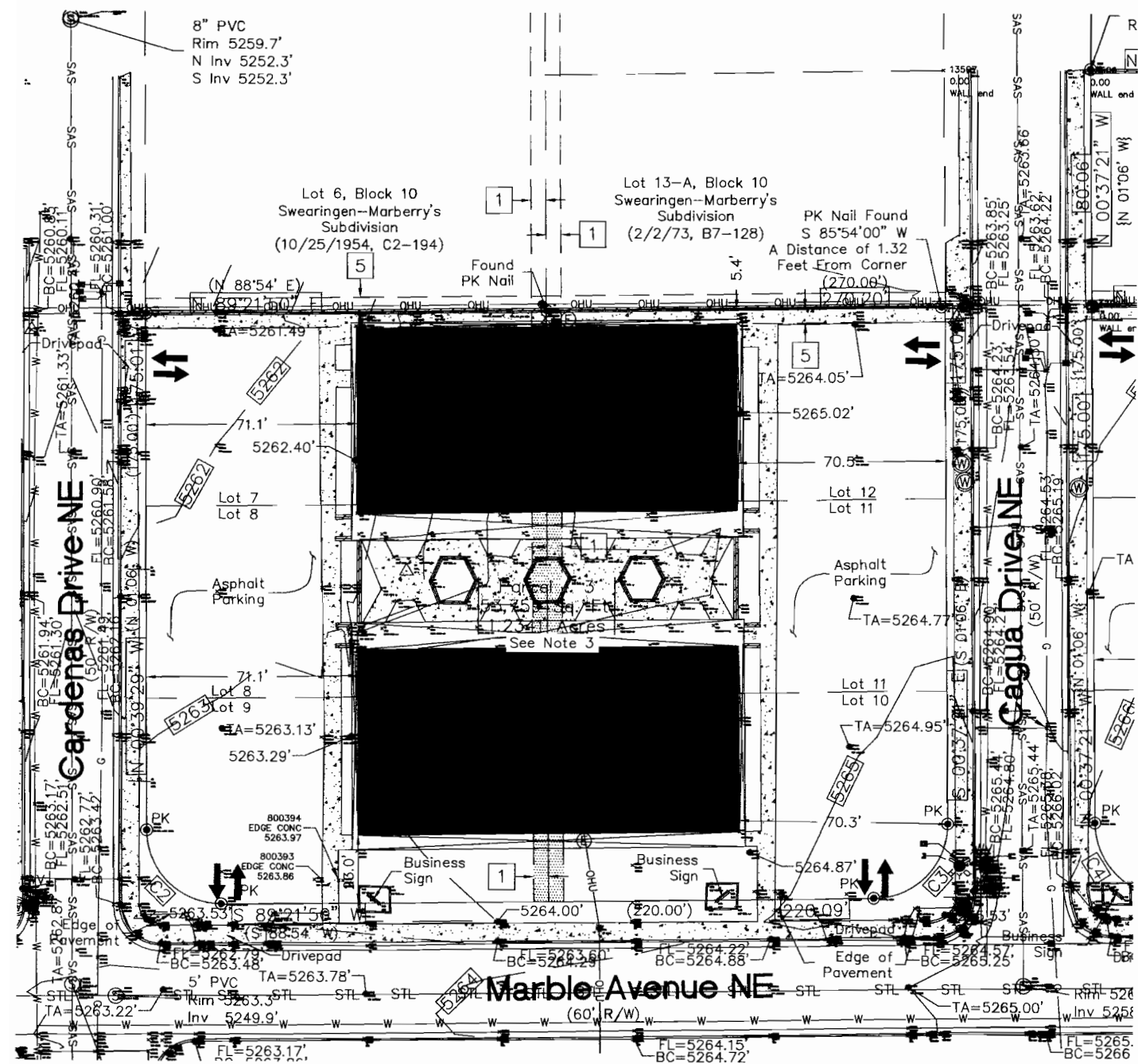
0.1 0 0.03 0.1 Miles

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
1/1/2018  
© City of Albuquerque

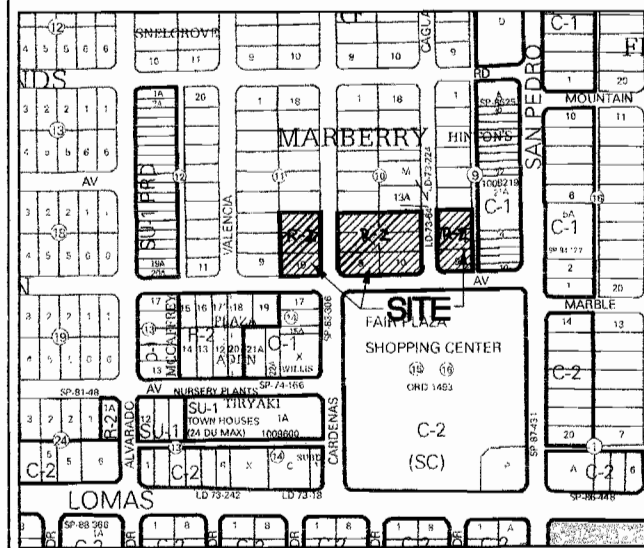
This map is a user generated static output from [www.cabq.gov/gis](http://www.cabq.gov/gis) and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR LEGAL PURPOSES









Vicinity Map - Zone Atlas J-18-Z

#### Purpose of Plat

- SUBDIVIDE AS SHOWN HEREON.
- VACATE EASEMENT AS SHOWN HEREON.

#### Notes

- FIELD SURVEY PERFORMED IN NOVEMBER 2017.
- ALL DISTANCES ARE GROUND DISTANCES: US SURVEY FOOT.
- THE BASIS OF BEARINGS REFERENCES MODIFIED NEW MEXICO STATE PLANE COORDINATES (NAD 83-GROUND) USING GROUND TO GRID FACTOR OF 0.999661579.
- LOT LINES TO BE ELIMINATED SHOWN HEREON AS . . . . .

#### Legal Description

LOTS NUMBERED TEN (10), ELEVEN (11) AND TWELVE (12) IN BLOCK NUMBERED ELEVEN (11) OF SWEARINGEN-MARBERRY'S SUBDIVISION OF TRACTS 10 AND 11 OF MILE-HI ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME ARE SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON OCTOBER 25, 1954, IN PLAT BOOK C2, PAGE 194.

AND

LOTS NUMBERED SEVEN (7), EIGHT (8) AND NINE (9) IN BLOCK NUMBERED NINE (9) OF HINTON'S SUBDIVISION OF TRACT 9, MILE-HI ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME ARE SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON DECEMBER 10, 1954, IN PLAT BOOK B2, PAGE 176; AND

AND

LOTS NUMBERED SEVEN (7) THROUGH TWELVE (12), INCLUSIVE, IN BLOCK NUMBERED TEN (10) OF SWEARINGEN-MARBERRY'S SUBDIVISION OF TRACTS 10 AND 11 OF MILE-HI ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME ARE SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON OCTOBER 25, 1954, IN PLAT BOOK C2, PAGE 194.

#### Indexing Information

Section 13, Township 10 North, Range 3 East, N.M.P.M.  
Subdivision: Hinton's Subdivision of Mile-Hi Addition  
(Lots 7-9, Block 9)  
Swearingen-Marberrys Subdivision of  
Mile-Hi Addition (Lots 7-9, Block 9 and  
Lots 7-12, Block 10)  
Owner: Ahmet and Martha Tiriyaki  
UPC #: 101805818808931602 (Lots 10-12, Block 11)  
101805821208831714 (Lots 7-12, Block 10)  
101805823808931801 (Lots 7-9, Block 9)

#### Treasurer's Certificate

THIS IS TO CERTIFY THAT THE TAXES ARE CURRENT AND  
PAID ON UPC # 1018-058-188-089-31602; 1018-058-238-089-31801  
1018-058-212-088-31714  
PROPERTY OWNER OF RECORD Tiriyaki Ahmet & Martha  
BERNALILLO COUNTY TREASURER'S OFFICE [Signature]

#### Subdivision Data

GROSS ACREAGE . . . . . 2.3768 ACRES  
ZONE/ATLAS PAGE NO. . . . . J-18-Z  
NUMBER OF EXISTING LOTS . . . . . 12  
NUMBER OF LOTS CREATED . . . . . 3  
MILES OF FULL-WIDTH STREETS . . . . . 0 MILES  
MILES OF HALF-WIDTH STREETS . . . . . 0 MILES  
RIGHT-OF-WAY DEDICATION TO THE CITY OF ALBUQUERQUE . . . . . 0 ACRES  
DATE OF SURVEY . . . . . NOVEMBER 2017

#### Solar Collection Note

PER SECTION 14-14-4-7 OF THE SUBDIVISION ORDINANCE:  
NO PROPERTY WITHIN THE AREA OF REQUESTED FINAL ACTION SHALL AT ANY TIME BE SUBJECT TO A DEED RESTRICTION, COVENANT, OR BUILDING AGREEMENT PROHIBITING SOLAR COLLECTORS FROM BEING INSTALLED ON BUILDINGS OR ERCTED ON THE LOTS OR PARCELS WITHIN THE AREA OF PROPOSED PLAT. THE FOREGOING REQUIREMENT SHALL BE A CONDITION TO APPROVAL OF THIS PLAT

#### Free Consent

THE SUBDIVISION HEREON DESCRIBED IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNER(S) AND/OR PROPRIETOR(S) THEREOF DO HEREBY GRANT THE RIGHT TO CONSTRUCT, OPERATE, INSPECT, MAINTAIN FACILITIES THEREIN; AND ALL PUBLIC UTILITIES EASEMENTS SHOWN HEREON FOR THE COMMON AND JOINT USE OF GAS, ELECTRICAL POWER AND COMMUNICATION SERVICE FOR BURIED DISTRIBUTION LINES, CONDUITS AND PIPES FOR UNDERGROUND UTILITIES WHERE SHOWN OR INDICATED, AND INCLUDING THEIR RIGHT OF INGRESS AND EGRESS FOR CONSTRUCTION AND MAINTENANCE, AND THE RIGHT TO TRIM INTERFERING TREES AND SHRUBS. SAID OWNER(S) AND/OR PROPRIETOR(S) DO HEREBY CONSENT TO ALL OF THE FOREGOING AND DOES HEREBY CERTIFY THAT THIS SUBDIVISION IS THEIR FREE ACT AND DEED. SAID OWNER(S) AND/OR PROPRIETOR(S) WARRANT THAT THEY HOLD AMONG THEM COMPLETE AND INDEFEASIBLE TITLE IN FEE SIMPLE TO THE LAND SUBDIVIDED.

Ahmet Tiriyaki 12-9-17  
AHMET TIRIYAKI  
Martha Tiriyaki 12-9-17  
MARTHA TIRIYAKI

STATE OF NEW MEXICO }  
COUNTY OF }

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON 12-9 2017

BY: AHMET AND MARTHA TIRIYAKI

By: [Signature]  
NOTARY PUBLIC

MY COMMISSION EXPIRES June 11, 2018

#### Utility Approvals:

[Signature] 12-20-17  
PNM Electric Services  
[Signature] 12/20/2017  
Qwest Corp. / b/o CenturyLink QC  
[Signature] 12/20/17  
New Mexico Gas Company  
[Signature] 12/20/17  
Comcast

## Plat for Marble Townhomes

Comprised of  
Lots 10-12, Block 11 and  
Lots 7-12, Block 10, Swearingen-Mayberry's  
Subdivision and Lots 7-9, Block 9, Hinton's  
Subdivision of Tract 9,  
Mile-Hi Addition  
City of Albuquerque  
Bernalillo County, New Mexico  
December 2017

#### Approved and Accepted by:

APPROVAL AND CONDITIONAL ACCEPTANCE AS SPECIFIED BY THE ALBUQUERQUE SUBDIVISION ORDINANCE, CHAPTER 14 ARTICLE 14 OF THE REVISED ORDINANCES OF ALBUQUERQUE, NEW MEXICO, 1994.

Project Number: 1011448

Application Number: 17DRB-70361

#### City Approvals:

[Signature] P.S. 12/8/2017  
City Surveyor  
[Signature] 12/20/17  
Traffic Engineer  
[Signature] 12/20/17  
ABQWA  
[Signature] 12/20/17  
Parks and Recreation Department  
[Signature] 12/20/17  
AMAFCA  
[Signature] 12/20/17  
City Engineer  
[Signature] 12-29-2017  
DRB Chairperson, Planning Department

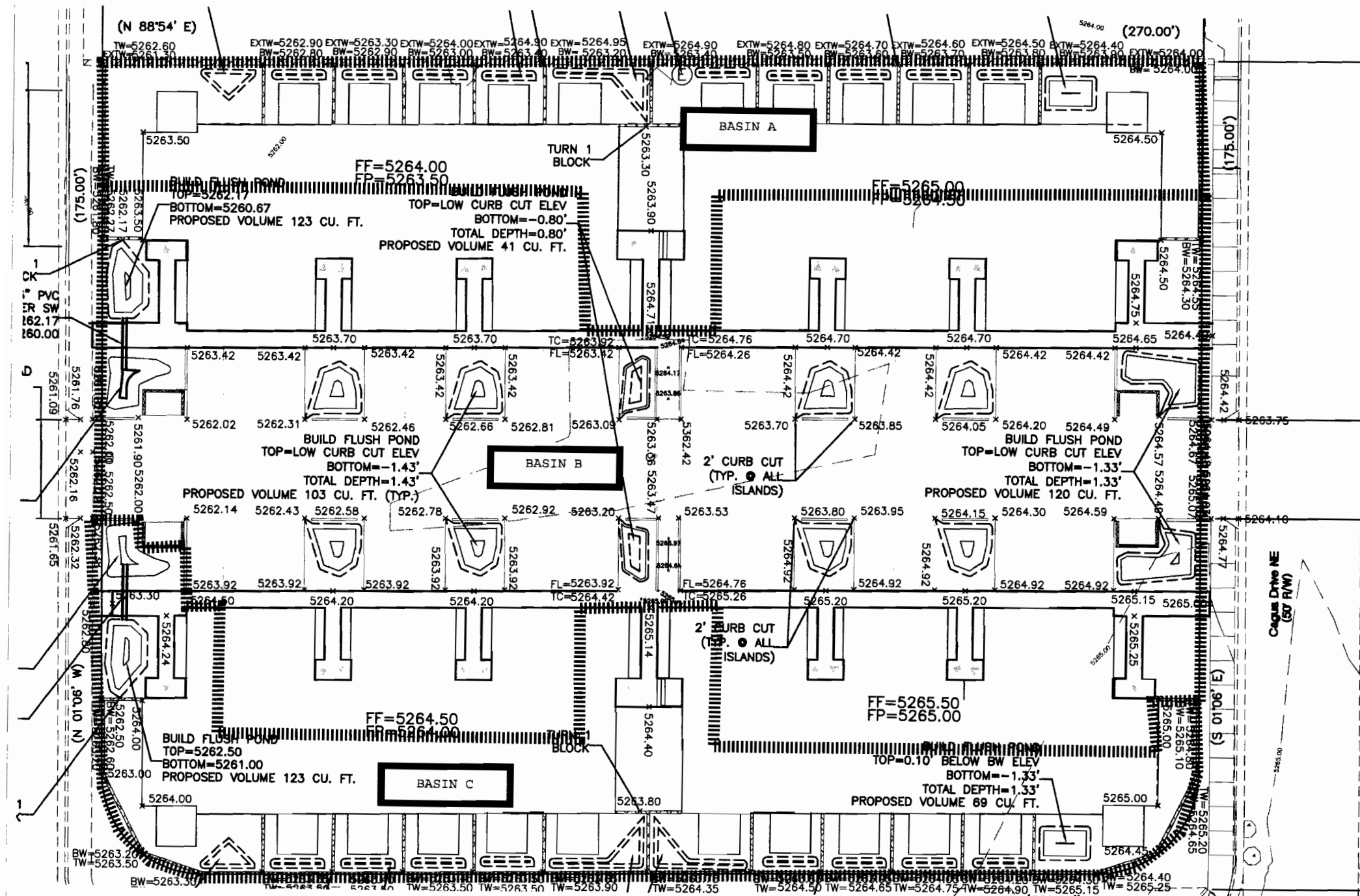
#### Surveyor's Certificate

"I, WILL PLOTNER JR., A REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT AND DESCRIPTION WERE PREPARED BY ME OR UNDER MY SUPERVISION, SHOWS ALL EASEMENTS AS SHOWN ON THE PLAT OF RECORD OR MADE KNOWN TO ME BY THE OWNERS AND/OR PROPRIETORS OF THE SUBDIVISION SHOWN HEREON, THE UTILITY COMPANIES OR OTHER INTERESTED PARTIES AND MEETS THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS OF THE ALBUQUERQUE SUBDIVISION ORDINANCE, AND FURTHER MEETS THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF."

Will Plotner Jr. 12/1/17  
Will Plotner Jr.  
N.M.R.P.S. No. 14271  
Date

CSI-CARTESIAN SURVEYS INC.  
P.O. BOX 44414 RIO RANCHO, N.M. 87174  
Phone (505) 896-3050 Fax (505) 891-0244







**Weighted E Method**  
**MARBLE APARTMENTS**

*Existing Developed Basins*

											100-Year, 6-hr.		
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
Historic (office complex)	53730	1.233	0%	0	0.0%	0.000	16.0%	0.19736	84%	1.036	2.189	0.225	5.88
BASIN A	9834	0.226	0%	0	6.0%	0.014	31.0%	0.06998	63%	0.142	1.942	0.037	0.99
BASIN B	32886	0.755	0%	0	5.0%	0.038	6.0%	0.0453	88%	0.664	2.200	0.138	3.59
BASIN C	11010	0.253	0%	0	7.0%	0.018	29.0%	0.0733	64%	0.162	1.949	0.041	1.11
TOTAL PROPOSED	53730	1.233	0%	0.000	5.6%	0.069	15.3%	0.189	79%	0.968	2.101	0.216	5.69

**Equations:**

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted D \* Total Area

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm (zone 3)

Ea= 0.66	Qa= 1.87
Eb= 0.92	Qb= 2.6
Ec= 1.29	Qc= 3.45
Ed= 2.36	Qd= 5.02

DISCHARGE PROPOSED	5.69 CFS
EXISTING DISCHARGE	5.88 CFS
FIRST FLUSH REQUIREMENT	1195.14 CF
FIRST FLUSH RETAINED	1527.00 CF

**Narrative**

This project is a redevelopment of and existing office complex. The complex is in the process of being demolished. The proposed development is a multifamily residential project. The existing site discharges 5.88 cfs to the existing roadways. The flow drains west in Marble to the city storm drain system. The proposed development will continue to discharge the adjacent roadways and will retain onsite 1527 cubic feet of water which exceeds the first flush requirement of 1195 cubic feet. The site is not impacted by upland flows.



**APPENDIX B**

**HYDRAULIC CALCULATIONS**



**sidewalk culvert**

Weir Equation:

$$Q=CLH^{3/2}$$

West drainage under sidewalk

Q= 1.94 cfs  
C = 2.95  
H = 0.5 ft  
L = Length of weir

$$Q = 2.95 * 2 * ((0.5)^{(3/2)})$$

**Each sidewalk culvert has a capacity of 2.08 cfs**



## TURNED BLOCKS

Weir Equation:

$$Q = CLH^{3/2}$$

West drainage swale thru walls

Q = 2.92 cfs

C = 2.95

H = 0.5 ft

L = Length of weir

$$Q = 2.95 * .5 * ((0.5)^{(3/2)})$$

**Each opening is 6"x6"**

**Each block has two openings**

**Each opening has .52 cfs capacity**

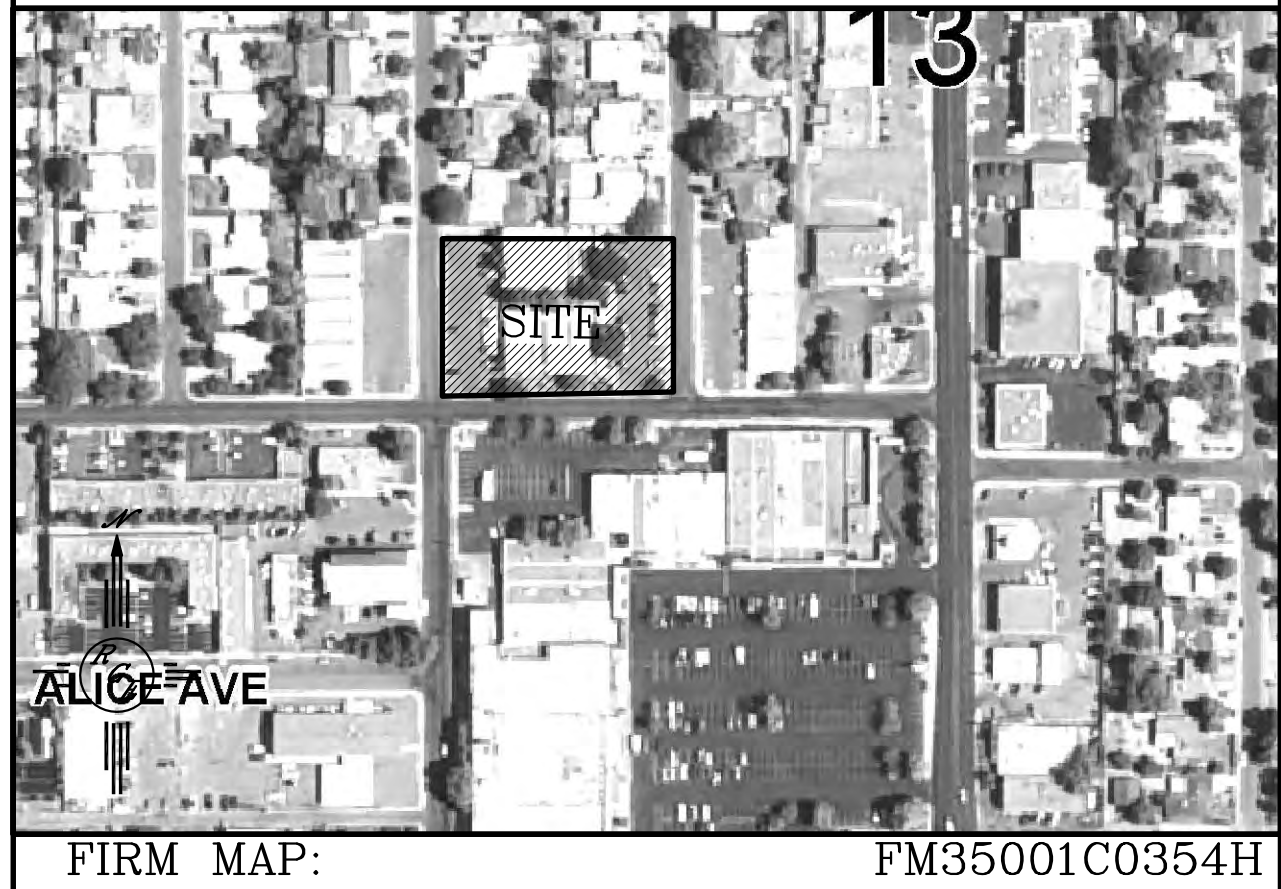
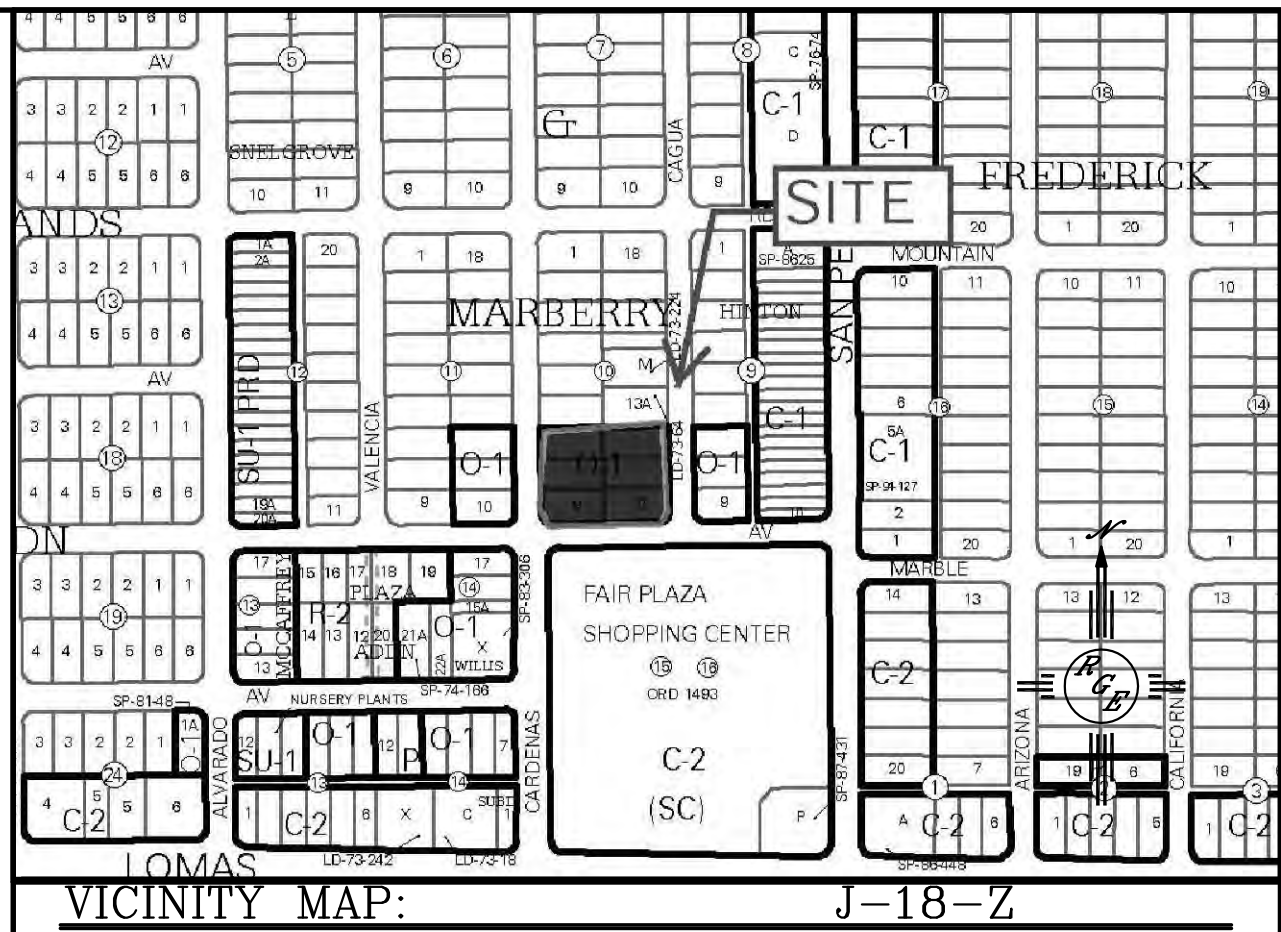
**Therefore 1.95 cfs requires 4 openings or 2 turned blocks**



CAUTION:  
EXISTING UTILITIES ARE NOT SHOWN.  
IT SHALL BE THE SOLE RESPONSIBILITY  
OF THE CONTRACTOR TO CONDUCT ALL  
NECESSARY FIELD INVESTIGATIONS PRIOR  
TO ANY EXCAVATION TO DETERMINE THE  
ACTUAL LOCATION OF UTILITIES & OTHER  
IMPROVEMENTS.

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 ACCEPTANCE OF ANY PROJECT.



LEGAL DESCRIPTION:

LOTS 10-12, BLOCK 11 AND LOTS 7-12, BLOCK 10,  
SWEARINGEN-MARBERRY'S SUBDIVISION AND LOTS 7-9, BLOCK 9, HINTON'S  
SUBDIVISION OF TRACT 9, MILE-HI DDITON

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL CURB AND GUTTER TO 6" HEADER UNLESS OTHERWISE NOTED.
3. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. ALL NEW PAVING SHALL BE 6" PCC OVER 8" SUBGRADE PREPARATION IN CONFORMANCE TO ACI 330R-08. UNLESS OTHERWISE NOTED.
5. ANY CURBS OR PAVEMENT NEGATIVELY IMPACTED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.
6. ALL SITE WORK SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARDS FOR PUBLIC WORKS CONSTRUCTION EDITION 9

LEGEND

- 5414 --- EXISTING CONTOUR
- 5415 --- EXISTING INDEX CONTOUR
- 5414 --- PROPOSED CONTOUR
- 5415 --- PROPOSED INDEX CONTOUR
- 5415 --- SLOPE TIE
- 4048.25 EXISTING SPOT ELEVATION
- 4048.25 PROPOSED SPOT ELEVATION
- BOUNDARY
- CENTERLINE
- RIGHT-OF-WAY
- PROPOSED CURB
- EXISTING CURB AND GUTTER
- PROPOSED SIDEWALK
- EXISTING SIDEWALK
- 3' ADA PATH-2% MAX SLOPE

<div>ENGINEER'S SEAL</div> <div></div> <div>12/29/17</div> <div>DAVID SOULE P.E. #14522</div>	MARBLE TOWNHOMES		DRAWN BY WCWJ
	GRADING AND DRAINAGE PLAN		DATE 12-29-17
	 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999		21835-LAYOUT-12-12-17
			SHEET # — JOB # 21835

