

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

June 10, 2022

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

**RE: 13141 Montgomery Blvd. NE**  
**Grading and Drainage Plan for Swimming Pool**  
**Engineer's Stamp Date: 05/25/22**  
**Hydrology File: G23D017**

Dear Mr. Burak:

Based upon the information provided in your submittal received 06/01/2022, the Grading and Drainage Plan for Swimming Pool is approved for Grading Permit and Building Permit (Pool).

As a reminder, 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](mailto:jhughes@cabq.gov), 924-3420) 14 days prior to any earth disturbance.

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

Sincerely,

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 6/2018)

**Project Title:** Salvino Swimming Pool **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** 17 10 Glenwood Hills Addition, Unit 3  
**City Address:** 13141 Montgomery Blvd. 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:** Dwayne Salvino **Contact:** \_\_\_\_\_  
**Address:** 13141 Montgomery Blvd. NE  
**Phone#:** (505) 850-8719 **Fax#:** \_\_\_\_\_ **E-mail:** panoy21@gmail.com

**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:** 05/31/2022 **By:** Mark Burak, PE

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



**Site Location** - As shown by the Vicinity Map (Zone Atlas Map G-23), the proposed residential project site is located on a single 0.36-acre parcel on the north side of Montgomery Boulevard east of Tramway Boulevard. At present, the site is fully developed with a single residence. Single homes are adjacent on all surrounding properties. This grading and drainage plan is for the construction of a swimming pool on the property.

**Legal Description..**

- UPC: 102306024252820301
- Situs Address: 13141 MONTGOMERY BLVD NE ALBUQUERQUE NM 87111
- Legal Description: \*17 10 GLENWOOD HILLS ADDN UNIT #3
- Acres: 0.3641

**Benchmark** - Basis of elevation is ACS Station "17-G23" Elevation 6,064.981 NAVD 1988.

**Flood Zone** - As shown by Panels 35001-C0163H of the National Flood Insurance Program Flood Insurance Rate Maps (FIRM) for the City of Albuquerque, New Mexico, dated 08/16/2012 none of this site lies within a designated flood hazard zone.

**Existing Conditions** - Currently, Montgomery Boulevard slopes west at about four percent and Glenwood Hills slopes south at 11.7%. The elevation difference across the lot from the SW corner to the NE corner is seventeen feet. The west side of the property is elevated above the neighbor with terraced retaining walls. A five foot garden wall is set about thirty feet back from the curb on Montgomery and is elevated up to five feet above the curb. The area between the wall and the street is landscaped with bushes and trees and slopes at 5:1. No offsite runoff impacts the property since it is on a ridgeline with development and streets upstream.

**Proposed Grading** - The Grading and Drainage Plan shows 1) existing and proposed grades indicated by spot elevations and contours; 2) the limit of existing and proposed improvements.

All runoff on the property is to be discharged into the existing flow paths at the property line and roadways. A portion of the SW portion of the site will incorporate a new 18'x 36' swimming pool with a four foot deck surrounding. The pool will fit between the westerly wall and the existing planter box near the house. The pool elevation will be set two feet below the finish floor of the existing house. The pool decking is to slope away from the pool at one-half inch per foot minimum. The deck is also sloped south along the planter edge at one percent.

A new retaining wall is to be installed along the southern property line to improve the landscaped area around the proposed pool. The wall will be six feet high at the SW corner of the property and will maintain a level top as it extends east about 44-feet feet and north for 33-feet. A four foot garden wall is proposed for the top of the retaining wall. The area within the new retaining/garden wall area is to be lawn. The new lawn space will be slightly lower than the pool deck and will be utilized for a small amount of runoff retention up against the retaining wall.

**Hydrologic Methods** - The drainage basin map shows four separate sub-basins (A-D) within the project area to assess peak flow rates at various points around the project site culminating at either the natural flow path or the retention area within the new lawn space. The calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The process outlined in the DPM, Chapter 6 was used to quantify the peak flow rates and volumes. As shown by these calculations, the fully developed improvements will result in a slight increase in runoff generated by the site. When incorporating the proposed ponding and swimming pool, the downstream impact is similar or slightly reduced when comparing to existing and/or historical conditions.

The proposed improvements will increase the existing peak runoff due to the higher percentage of impervious area proposed by the development. By controlling the calculated runoff within the retention area, scour and erosion is expected to be reduced to a minimum amount. A spreadsheet for Precipitation Zone 4 is included on this plan. This spreadsheet outlines the peak runoff and volume generated for each sub-basin for existing and proposed fully developed conditions. Percentage of each land treatment is shown to illustrate the addition of impervious area related to the proposed construction. By routing the proposed developed discharge rates and volumes through the retention basin and existing street.

**90% Compensatory Volume Management** - The water quality retention has been mitigated based on the impervious areas listed on the attached spreadsheet. This equates to the total impervious area of the site multiplied by 0.615-inches or about 474 cubic feet for the ponding area. This storage has been provided on the plan by the retention area as shown.

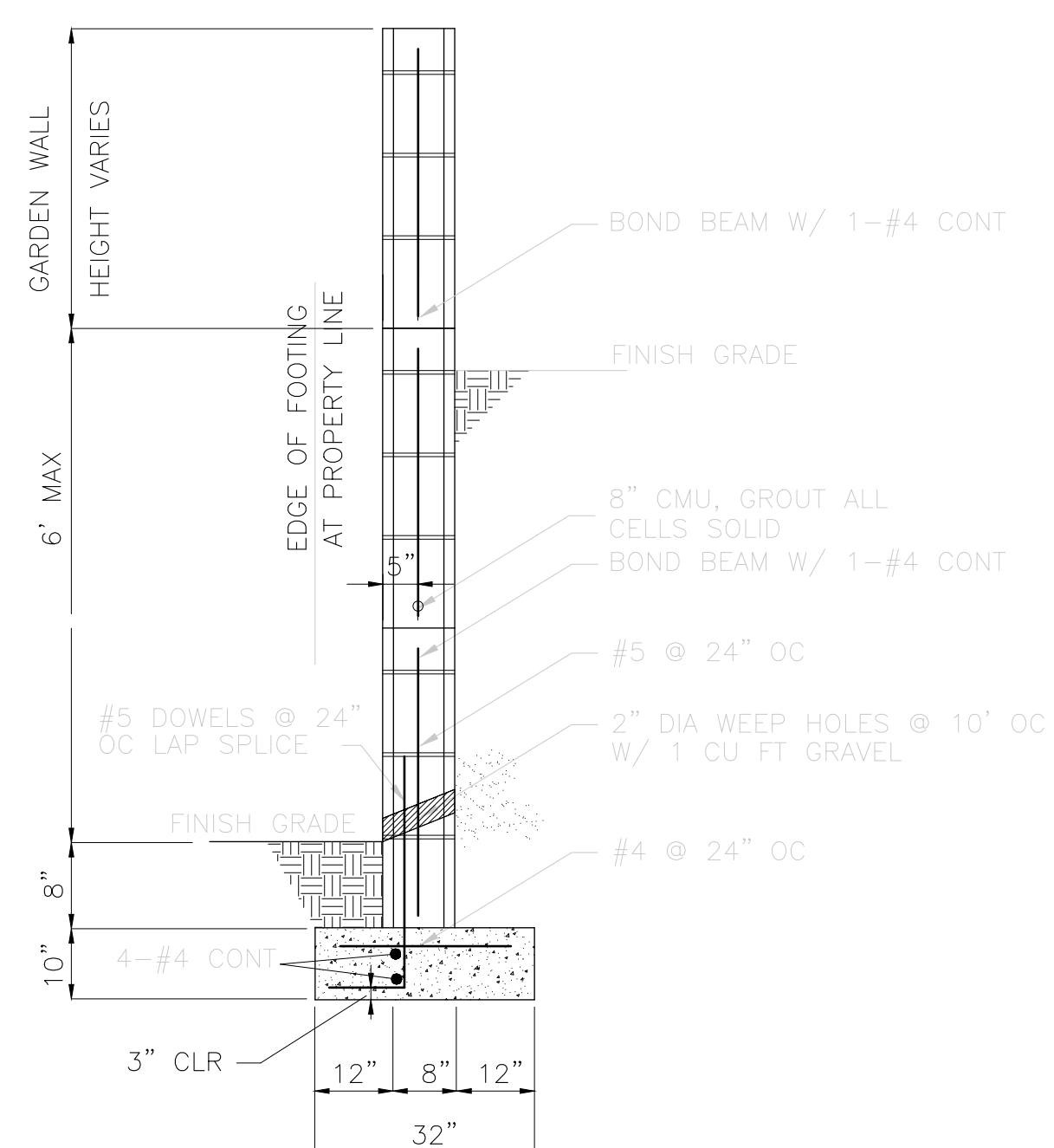
Hydrologic Calculations - COA DPM Ch 6 (100-Year, 6-Hour Storm)										13141 Montgomery Blvd. Glenwood Hills									
Burak Consulting										May 25, 2022									
Zone 4					Zone 1														
Precipitation (DPM Ch 6 Table 6.2)					P50	P50	P1440	P1440	P50	P50	P1440	P1440	P50	P50	P1440				
					1.96	2.64	3.6	4.75	6.27						1.96	2.64	3.6	4.75	6.27
Excess Precipitation (DPM Ch 6 Table 6.7)					0.95	1.2	1.2	1.2	1.2	Excess Precipitation (DPM Ch 6 Table 6.7)					0.95	1.2	1.2	1.2	1.2
Peak Discharge (DPM Ch 6 Table 6.8) <td>2.73</td> <td>3.41</td> <td>3.41</td> <td>3.41</td> <td>3.41</td> <th colspan="5">Peak Discharge (DPM Ch 6 Table 6.8)</th> <td>2.73</td> <td>3.41</td> <td>3.41</td> <td>3.41</td> <td>3.41</td>					2.73	3.41	3.41	3.41	3.41	Peak Discharge (DPM Ch 6 Table 6.8)					2.73	3.41	3.41	3.41	3.41
Area (sf)					2,309	3,944	5,201	6,498	8,498	Area (sf)					2,309	3,944	5,201	6,498	8,498
Discharge					0.00	0.00	0.00	0.00	0.00	Discharge					0.00	0.00	0.00	0.00	0.00
Volume					0	0	0	0	0	Volume					0	0	0	0	0
Runoff Volume					0	0	0	0	0	Runoff Volume					0	0	0	0	0
Peak Flow Rate					0.00	0.00	0.00	0.00	0.00	Peak Flow Rate					0.00	0.00	0.00	0.00	0.00
Volume					0	0	0	0	0	Volume					0	0	0	0	0
Runoff Volume					0	0	0	0	0	Runoff Volume					0	0	0	0	0
Peak Flow Rate					0.00	0.00	0.00	0.00	0.00	Peak Flow Rate					0.00	0.00	0.00	0.00	0.00
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Peak Flow Rate					0.00	0.00	0.00	0.00	0.00	Peak Flow Rate					0.00	0.00	0.00	0.00	0.00
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Volume					0	0	0	0	0	Volume					0	0	0	0	0
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Peak Flow Rate					0.00	0.00	0.00	0.00	0.00	Peak Flow Rate					0.00	0.00	0.00	0.00	0.00
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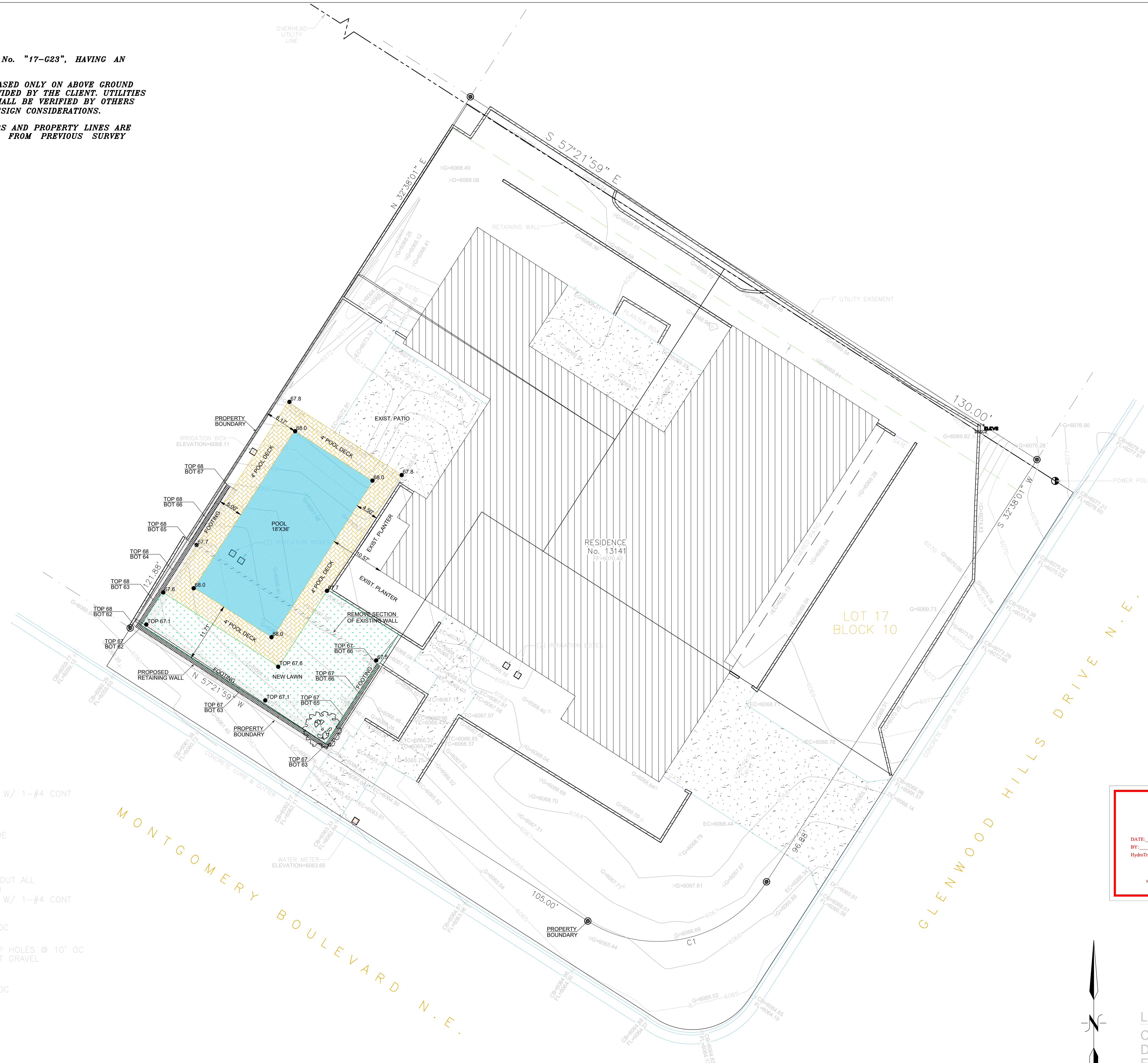
1: *CONTOUR INTERVAL IS ONE (1) FOOT.*

3: UTILITIES SHOWN HEREON ARE IN THE APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.

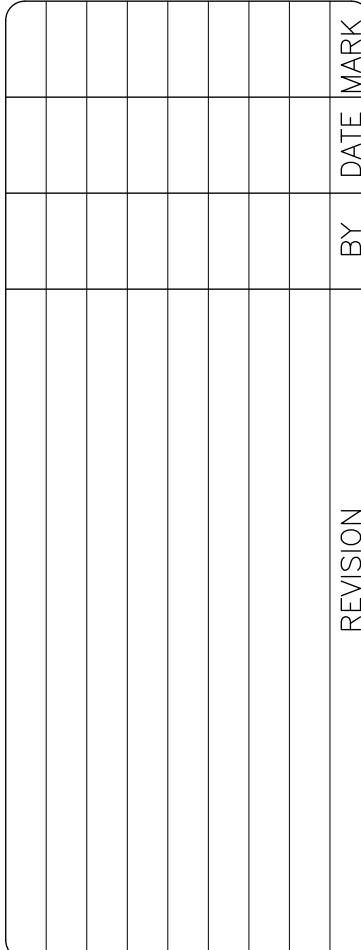
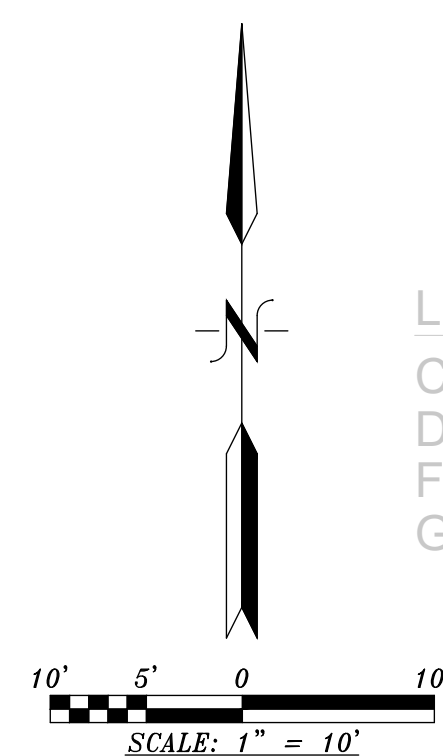
4: THIS IS **NOT** A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA SHOWN IS FROM PREVIOUS SURVEY REFERENCE HEREON.



### 6' RETAINING WALL DETAIL



**LEGEND**  
CB = CURB  
DC = DRIVE CUT  
FL = FLOWLINE  
G = GROUND



DESIGNED BY: M.H.B.  
DRAWN BY: T.D.S.  
CHECKED BY:



Mark H. Burak, P.E.  
1512 Sagebrush Trail SE  
Albuquerque, New Mexico, 87123  
(505) 235-2256  
mburak@comcast.net



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Salvino Swimming Pool

## GRADING PLAN

Lot 17, Block 10, Glenwood Hills Unit 3  
13141 Montgomery Boulevard, NE

DRAWING NUMBER

C101

2 OF 2