

# CITY OF ALBUQUERQUE



Tim Keller, Mayor

December 1, 2017

Jeffrey T. Wooten, P.E.  
Wooten Engineering  
1005 21<sup>st</sup> Street SE, Suite 13  
Rio Rancho, NM, 87124

**RE: Site Improvements – 1218 Griegos  
Grading and Drainage Plan  
Stamp Date: 11/21/17  
Hydrology File: F14D025**

Dear Mr. Wooten:

PO Box 1293

Based upon the information provided in your submittal received 11/28/2017, the Grading and Drainage Plan is approved for Grading Permit, Paving Permit, and SO-19 Permit.

Albuquerque

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

NM 87103

Sincerely,

*Renée C. Brissette*

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

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 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: \_\_\_\_\_



# POND VOLUME CALCULATIONS

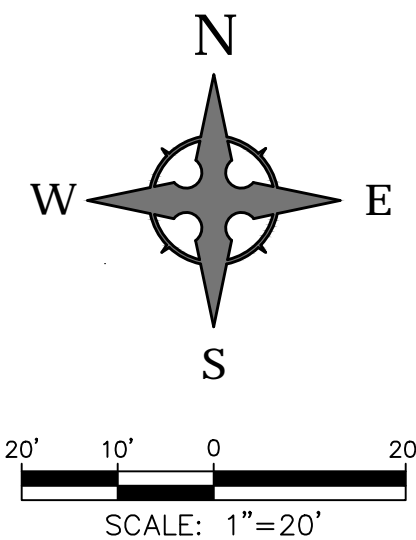
CONTOUR ELEVATION	AREA (SF)	VOLUME (CF)
4972.00	274 SF	535 CF
4973.00	796 SF	535 CF
TOTAL		535 CF

# IMPERVIOUS AREA CALCULATIONS

PROPOSED SITE CONDITIONS
PERVIOUS AREA: 3,509 SF
IMPERVIOUS AREA: 10,231 SF
TOTAL PROJECT AREA: 13,740 SF
% IMPERVIOUS = 74.5%

# FIRST FLUSH CALCULATION

TOTAL IMPERVIOUS AREA = 10,231 SF  
FIRST FLUSH =  $10,231 \times 0.34'' / 12 = 290 \text{ CF}$



# LEGEND

- ← FLOW ARROW
- 27.8 PROPOSED TOP OF GRADE/PVMT ELEVATIONS
- FL27.8 PROPOSED FLOW LINE/GUTTER ELEVATIONS
- TC27.8 PROPOSED TOP OF CURB ELEVATIONS
- FGH27.8 PROPOSED GRADE AT TOP OF WALL
- FGL27.8 PROPOSED GRADE AT BOTTOM OF WALL
- 515 — EXISTING CONTOUR
- 615 — PROPOSED CONTOUR
- — — EXISTING STORM DRAIN
- — — FLOW LINE
- — — RIDGE LINE

# CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL NEW MEXICO ONE CALL (DIAL 811 OR VISIT WWW.NM811.ORG) AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

# DRAINAGE MANAGEMENT PLAN

## INTRODUCTION

The purpose of this submittal is to provide a final drainage management plan for the proposed parking lot serving the existing building at 1218 Griegos Rd NW in Albuquerque, NM. The site is approximately 0.32 acres and drains north to Griegos Rd NW.

## EXISTING HYDROLOGIC CONDITIONS

The site generally slopes from south to north and drains to Griegos Rd NW. Per the Drainage Calculations Table this sheet, 1.41 cfs discharges from the site during the 100-Yr, 6-Hr storm.

## PROPOSED HYDROLOGIC CONDITIONS

The site will continue to drain from south to north and into Griegos Rd NW. Per the Drainage Calculations table this sheet, 1.46 cfs will discharge from the site during the 100-Yr, 6-Hr storm. The increase in runoff is minimal (0.05 cfs) which will not burden downstream systems. Per calculations this sheet, the site is required to provide a Water Quality pond with a capacity of 290 CF. The pond provided has a capacity of 535 CF. This pond will more than capture the difference between Pre-Developed and Post-Developed conditions.

## CONCLUSION

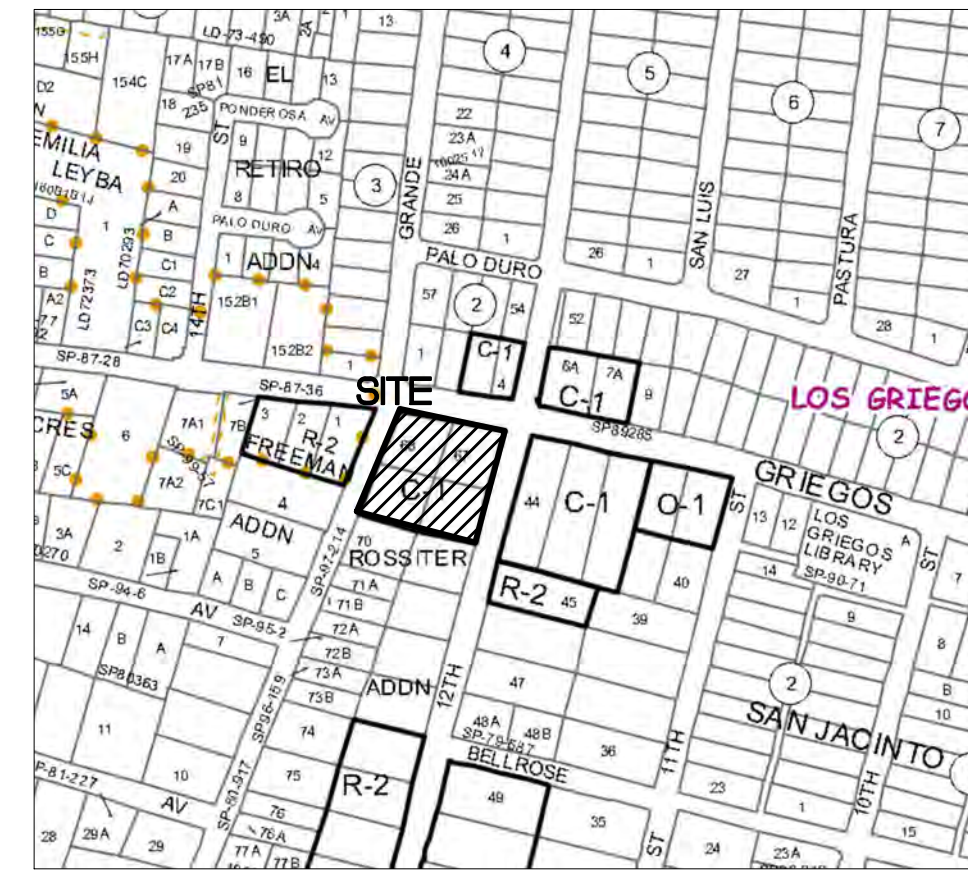
This drainage management plan provides for grading and drainage elements which are capable of safely passing the 100 year storm, does not burden downstream systems, and meet city requirements. With this submittal, we are requesting approval of the SO-19 Permit and the Grading Plan for Building Permit.

# Existing 1218 Griegos Drainage Calculations

This table is based on the COA DPM Section 22.2, Zone:3											
BASIN	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100) (cfs/ac.)	Q(100) (CFS)	WTE (inches)	V(100) <sub>300</sub> (CF)	V(100) <sub>1440</sub> V(100) <sub>today</sub> (CF)
SITE	13740	0.32	0.0%	0.0%	35.0%	65.0%	4.47	1.41	1.99	2273	2571 3464
TOTAL	13740	0.32						1.41		2273	2571 3464

# Proposed 1218 Griegos Drainage Calculations

Ultimate Development Conditions Basin Data Table											
This table is based on the COA DPM Section 22.2, Zone:3											
BASIN	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100) (cfs/ac.)	Q(100) (CFS)	WTE (inches)	V(100) <sub>300</sub> (CF)	V(100) <sub>1440</sub> V(100) <sub>today</sub> (CF)
SITE	13740	0.32	0.0%	0.0%	25.0%	75.0%	4.63	1.46	2.09	2396	2739 3770
TOTAL	13740	0.32						1.46		2396	2739 3770



VICINITY MAP - Zone Atlas C-1 NTS

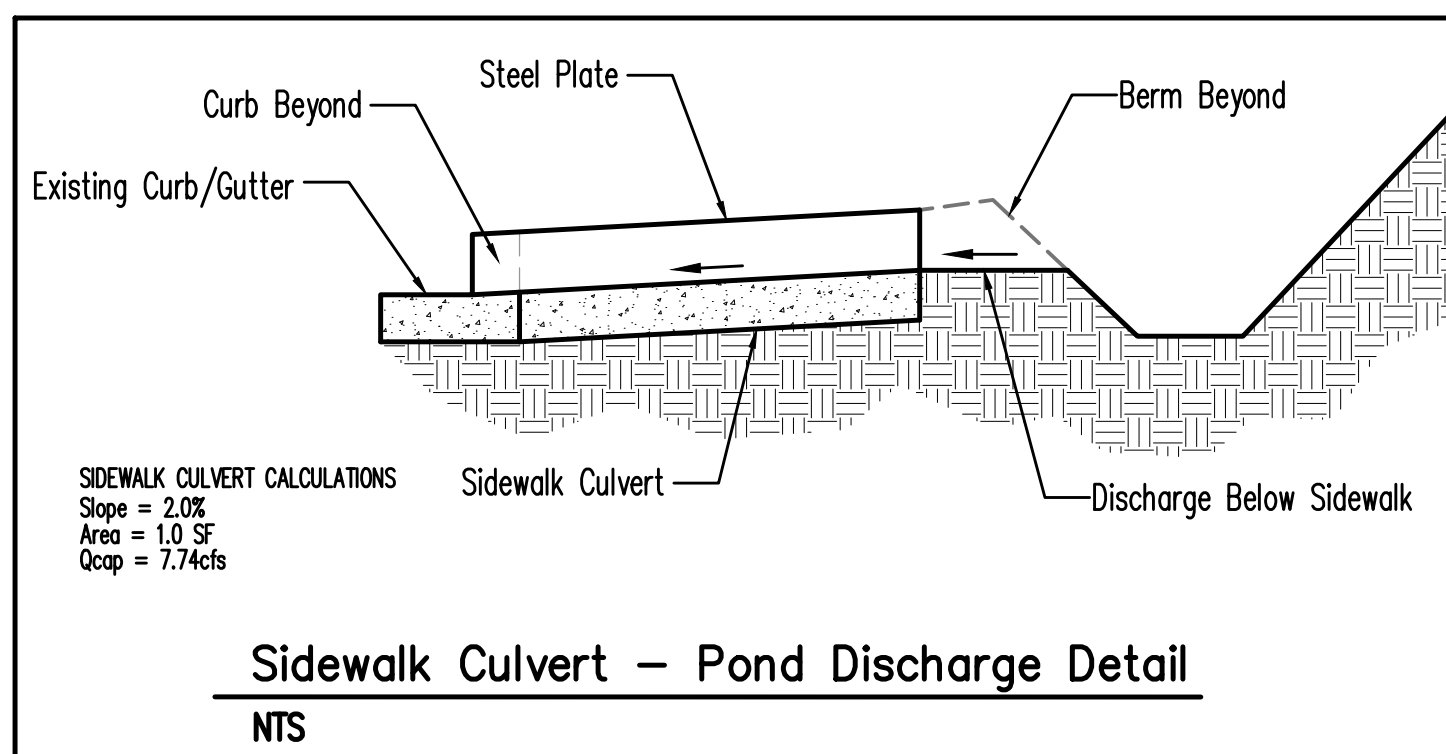


FIRM MAP 35001C0119G

Per FIRM Map 35001C0119G, dated September 26, 2008, the site is not located in the Floodplain.

# GRADING NOTES

- EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
- EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.
- A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL, AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- PAVING AND ROADWAY GRADES SHALL BE +/- 0.05' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR PAVEMENT, MEDIANS, AND ISLANDS.
- VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION (IF APPLICABLE) PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE THE SWPPP DOCUMENT (IF NECESSARY) AND SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

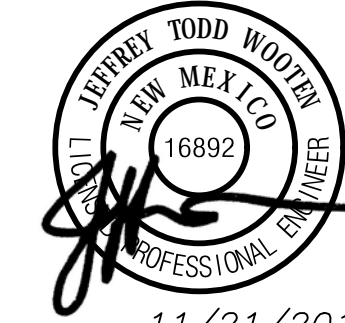


# Private Drainage Facilities within City Right-of-Way Notice to Contractor (Special Order 19 ~ "SO-19")

- An excavation permit will be required before beginning any work within City Right-Of-Way.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to traffic/street use.
- Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets shall be performed on a 24-hour basis.

CITY INSPECTOR APPROVAL

Signature \_\_\_\_\_ Date \_\_\_\_\_



11/21/2017

relevant design solutions  
**ARCHIS design** LLC  
P.O. BOX 90218 ALBUQUERQUE, NM 87190 (505) 848-8808



**SITE IMPROVEMENTS**  
**1218 GRIEGOS**  
**ALBUQUERQUE, NEW MEXICO**

Project No.  
2017011  
Issue Date  
November 21, 2017

Revisions	Date

Sheet Title:  
Grading & Drainage  
Management Plan

Sheet No.  
**C1**