

# CITY OF ALBUQUERQUE

Planning Department  
Suzanne Lubar, Director



Mayor Richard J. Berry

August 24, 2016

Reza Afaghpour, PE  
SBS Construction and Engineering, LLC  
10209 Snowflake Ct NW  
Albuquerque, NM 87114

**Re: Heidi's Raspberry Jam Parking Addition  
3427 Vassar Dr. NE  
Grading & Drainage Plan  
Engineer's Stamp dated: 8-17-16 (G16D030)**

Dear Mr. Afaghpour,

Based upon the information provided in your submittal received 8/18/2016, this plan is approved for Grading Permit and Paving Permit.

PO Box 1293

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

Albuquerque

When completed please provide a paper copy and a PDF of the as-build for our records.

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3698.

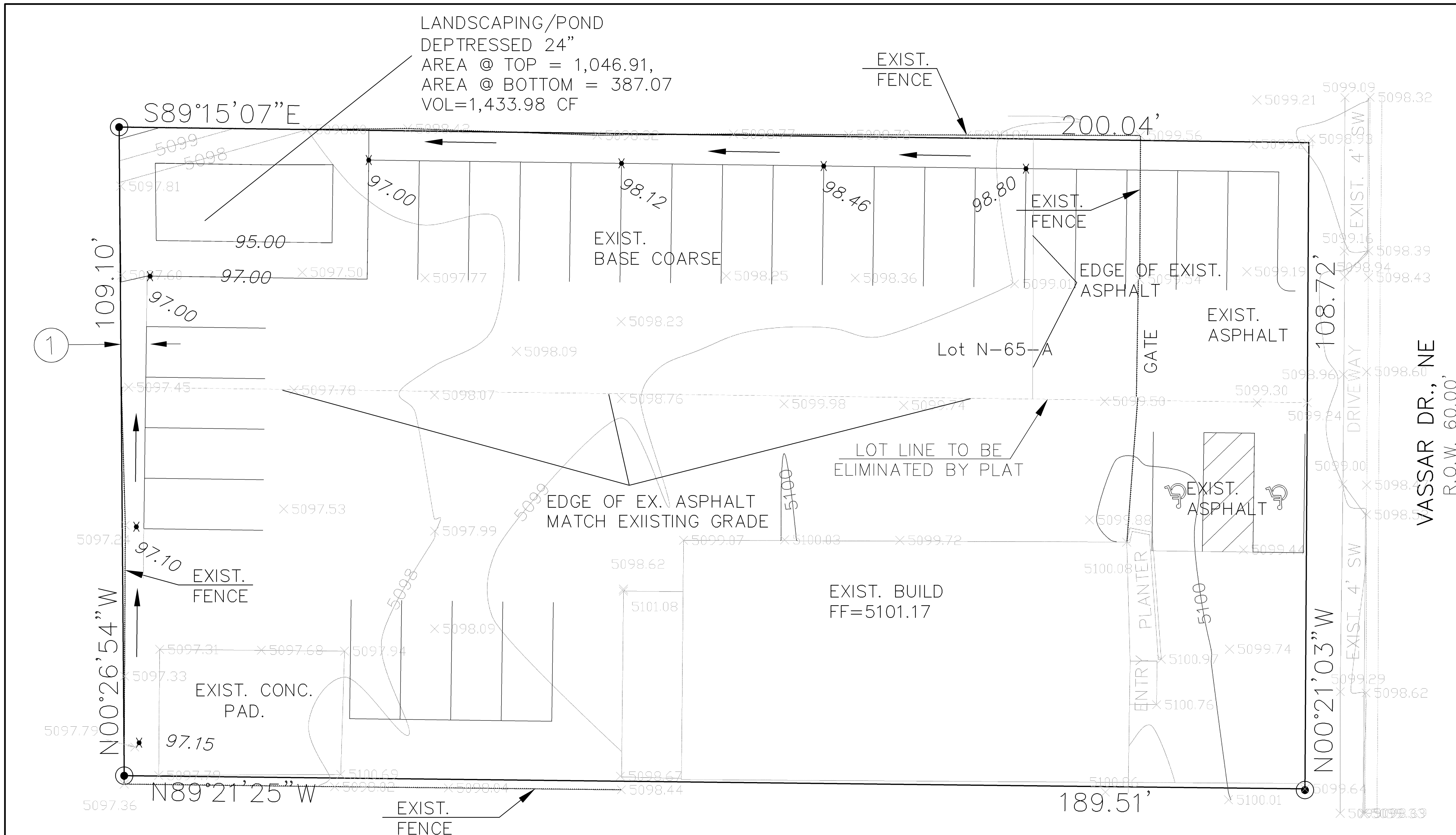
New Mexico 87103

Sincerely,

www.cabq.gov

Abiel Carrillo, P.E.  
Principal Engineer  
Planning Department

C: RR/AC  
email



\* ZONE 2

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\* 100-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS) \*

\*\*\*\*\*

START TIME=0.0

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=2.01 IN RAIN SIX=2.35 IN

RAIN DAY=2.75 IN DT=0.03333 HR

\* ON-SITE COMPUTE NM HYD ID=1 HYD NO=100.0 AREA=0.000778 SQ MI

PER A=0.00 PER B=0.00 PER C=31.15 PER D=68.85

TP=0.1333 HR MASS RAINFALL=-1

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\* 10-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS) \*

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START TIME=0.0

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.34 IN RAIN SIX=1.57 IN

RAIN DAY=1.83 IN DT=0.03333 HR

\* ON-SITE COMPUTE NM HYD ID=1 HYD NO=110.0 AREA=0.000778 SQ MI

PER A=0.00 PER B=10.00 PER C=31.15 PER D=68.85

TP=0.1333 HR MASS RAINFALL=-1

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FINISH

**Location**  
Lot N-65-A, Cole's Industrial Subdivision No. 2 is located at 3427 Vassar Rd. NE containing 0.4982 acre. See attached portion of Vicinity Map G-16-Z for exact location.

**Purpose**  
The purpose of this drainage report is to present a grading and drainage solution for the proposed parking addition. We are requesting paving permit approval.

**Existing Drainage Conditions**  
The site is fairly flat. The site does not fall within a 100 year floodplain. No offsite flows enter this site. The site drains from east to west to Adjacent property owner. Under the current conditions the site generates a runoff of 2.12 cfs.

**Proposed Conditions and On-Site Drainage Management Plan**  
The runoff will continue to drain west under the proposed conditions. The site under the proposed conditions generates a runoff of 2.24 cfs, only an increase of 0.12 cfs from existing conditions. The increase in runoff is very insignificant and will not have any impact on the downstream storm drain structures capacity. First Flush ponds are proposed to intercept the 100-Year/10-day volume of proposed conditions minus the existing conditions.

AHYMO PROGRAM SUMMARY TABLE (AHYMO\_97) -  
INPUT FILE = vassar.txt

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE
START RAINFALL	TYPE= 1									1
COMPUTE NM HYD		100.00	-	1	.00078	2.12	.075	1.80777	1.500	4.251
START RAINFALL	TYPE= 1									
COMPUTE NM HYD		110.00	-	1	.00078	1.34	.045	1.07955	1.500	2.688
START RAINFALL	TYPE= 1									
COMPUTE NM HYD		100.10	-	1	.00078	2.24	.082	1.98165	1.500	4.491
START RAINFALL	TYPE= 1									
COMPUTE NM HYD		110.10	-	1	.00078	1.45	.051	1.23172	1.500	2.905

**POND VOLUME REQUIRED**

TOTAL PONDING VOLUME REQUIRED (90TH PERCENTILE FLUSH) = 0.34 INCHES x NEW IMPERVIOUS AREA = (0.34/12 x 6,760.83) = 191.56 CF

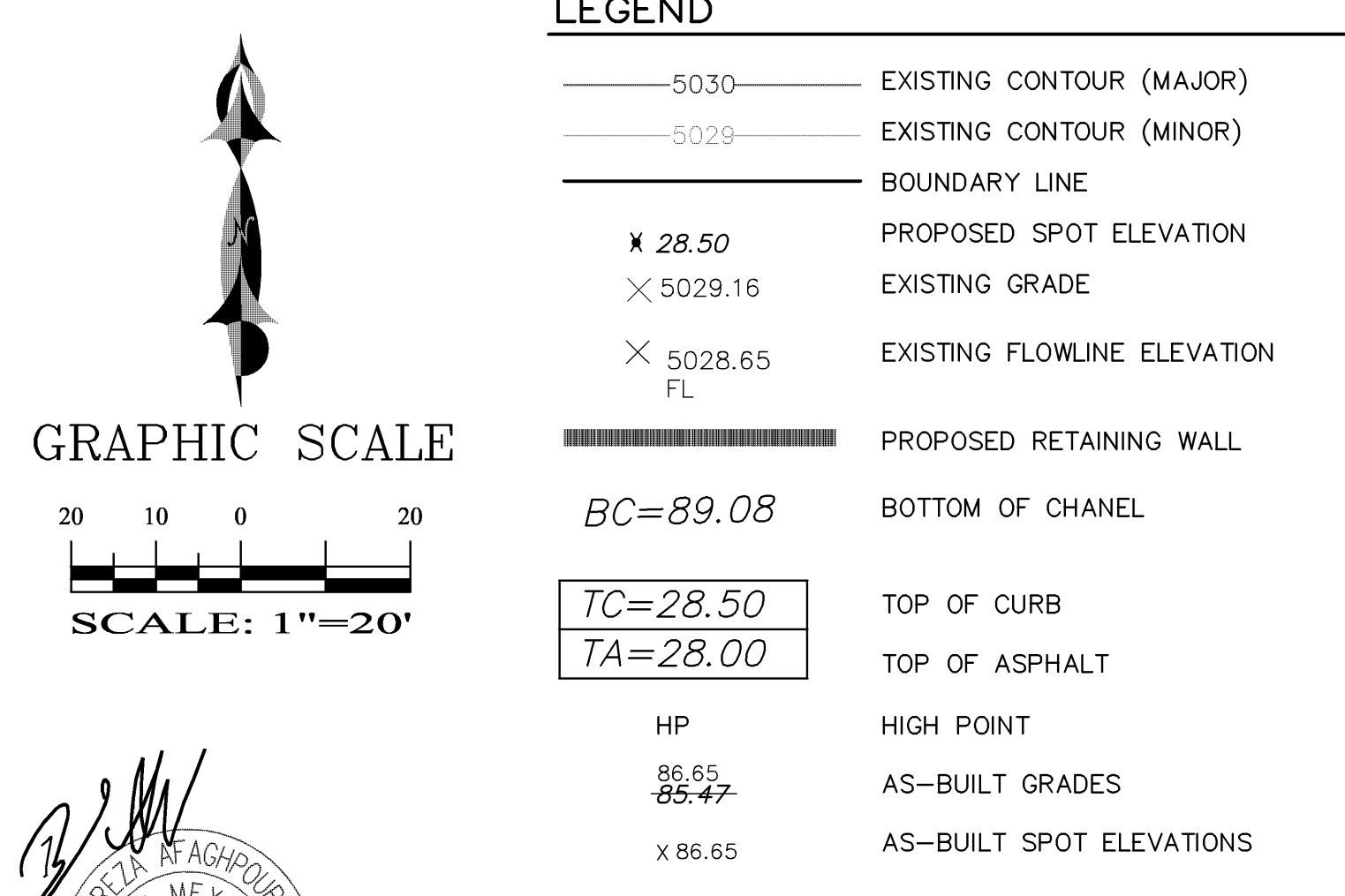
100-YR/10-DAY VOL. (PROPOSED CONDITIONS - EXISTING CONDITIONS)

VOLUME = 6,195.56 - 5,268.24 = 927.32 CF >> 191.56 CF

**POND CALCULATION**

AREA @ TOP = 1,046.91, AREA @ BOTTOM = 387.07

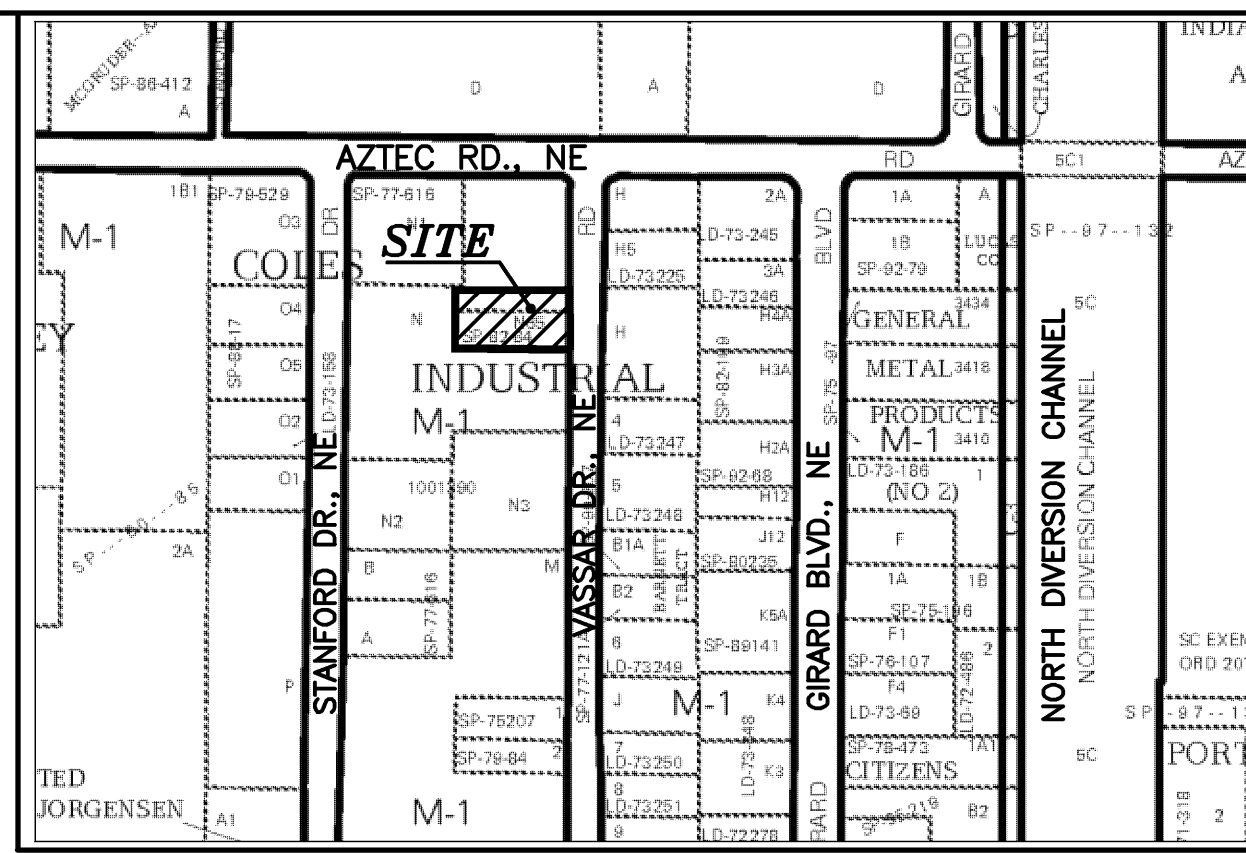
VOLUME = (1046.91 + 387.07)/2\*2 = 1,433.98 CF > 927 CF



REZA AFAGHPOUR  
P.E. #11814

HEIDI'S RASPBERRY JAM PARKING ADDITION  
LOT N-65-A, COLE'S INDUSTRIAL SUBD., NO. 2  
GRADING AND DRAINAGE PLAN

DRAWING: 201613-GR.DWG	DRAWN BY: SH-B	DATE: 1-24-2014	SHEET # 1
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**VICINITY MAP:** G-16-Z

**LEGAL DESCRIPTION:**  
LOT N-65-A, COLE'S INDUSTRIAL SUBD., NO. 2  
CONTAINING 0.4982 ACRE  
ZONING: SU-1  
**ADDRESS:**  
3427 VASSAR RD. NE

- GENERAL NOTES:**
1. CONTOUR INTERVAL IS HALF (1.00) FOOT.
  2. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION P-225, HAVING AN ELEVATION OF 5102.67 FEET ABOVE SEA LEVEL.
  3. UTILITIES SHOWN HEREON ARE IN THEIR 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. BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
  5. SLOPES ARE AT 3:1 MAXIMUM.
- NOTICE TO CONTRACTORS**
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
  2. 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.
  3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
  4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
  5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
  6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
  7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.