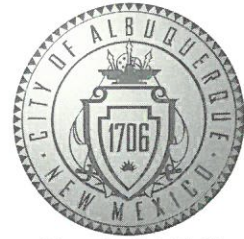


CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Timothy M. Keller

February 23, 2018

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

**Re: AAA Roofing Storage Space
2509 Comanche
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 11-14-16 (G16D004)
Certification dated: 2-19-18**

Dear Mr. Afaghpour,

PO Box 1293

Based on the Certification received 2/20/2018, the site is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

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

NM 87103

Sincerely,

www.cabq.gov

James D. Hughes, P.E.
Principal Engineer, Hydrology
Planning Department

C: RR/JDH
email

Location
Parcel 2-A, Tract 2, of The Hahn Parcel is located at 2509 Comanche Road., NE containing 1.8257 acres. 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 4040 square foot building addition and a 1080 square foot of dumpster addition, with total of +/-5,120 sf. We are requesting grading plan for building permit approval.

Existing Drainage Conditions
The site drains from west to east inot the drainage easement long the east property line (see grading plan) and then north. Existing spot elevations and contours are shown. The site does not fall within a 100 year floodplain. No offsite flows enter this site. Under the current conditions the site generates a runoff of 8.20 cfs.

Proposed Conditions and On-Site Drainage Management Plan
The runoff will continue to drain into drainage easement to the east (see grading plan for location) under the proposed conditions. The site under the proposed conditions generates a runoff of 8.23 cfs, only an increase of 0.03 cfs from existing conditions. The increase in runoff is very insignificant and will not have any impact on the downstream strom drain structures capacity. First Flush ponds are proposed to intercept the 0.34 inches of the impervious area (5,120 sf). See Grading plan for calculations and location of the First Flush ponds.

*** ZONE 2**

*** 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=0.002853 SQ MI
PER A=0.00 PER B=5.50 PER C=5.50 PER D=89.00
TP=0.1333 HR MASS RAINFALL=-1

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

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=0.002853 SQ MI
PER A=0.00 PER B=5.50 PER C=5.50 PER D=89.00
TP=0.1333 HR MASS RAINFALL=-1

*** 100-YEAR, 6-HR STORM (UNDER PROPOSED 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=100.10 AREA=0.002853 SQ MI
PER A=0.00 PER B=5.00 PER C=5.00 PER D=90.00
TP=0.1333 HR MASS RAINFALL=-1

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

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=110.10 AREA=0.002853 SQ MI
PER A=0.00 PER B=5.00 PER C=5.00 PER D=90.00
TP=0.1333 HR MASS RAINFALL=-1

FINISH


POND VOLUME REQUIRED
TOTAL PONDING VOLUME REQUIRED (90TH PERCENTILE/FIRST FLUSH) = 0.34 INCHES x IMPERVIOUS AREA =
(0.34/12 x 5,120) = 145.07 CF

POND CALCULATION
TOTAL POND AREA PROVIDED =
PONDING CALCULATIONS:
POND : AREA @ TOP = 313.60, AREA @ BOTTOM = 85.27
POND VOLUME = (313.60 +85.27)/2*1 = 199.44 CF

DRAINAGE CERTIFICATION

I, **REZA AFAGHPOUR**, NMPE 11814, OF **SBS CONSTRUCTION AND ENGINEERING, LLC**, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 11-14-2016. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NMPS 9801 (LEONARD MARTINEZ), OF SBS CONSTRUCTION AND ENGINEERING, LLC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR **FINAL CERTIFICATE OF OCCUPANCY**.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.


REZA AFAGHPOUR, NMPE 11814
DATE 2-19-2018

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = COMANCHE.TXT

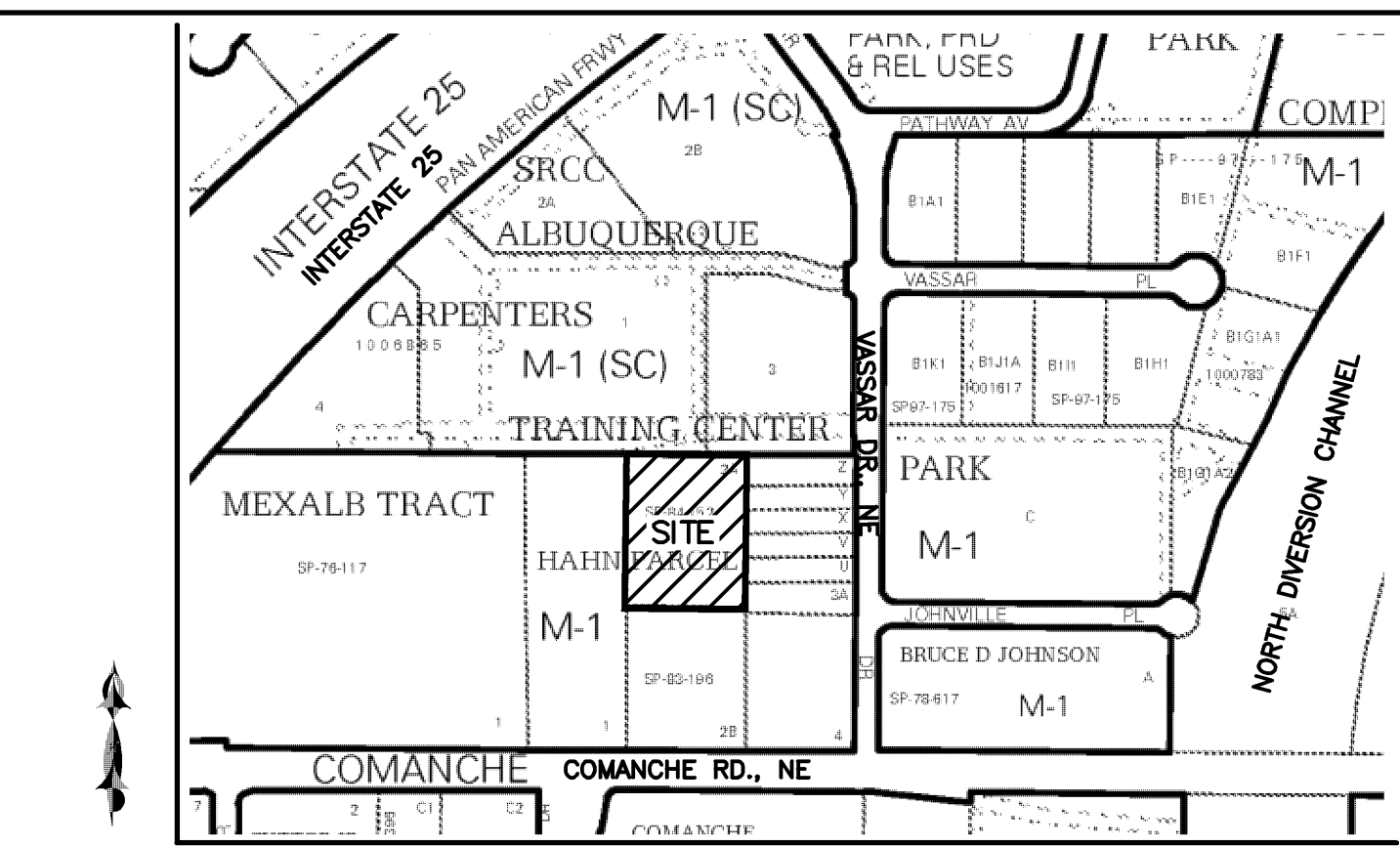
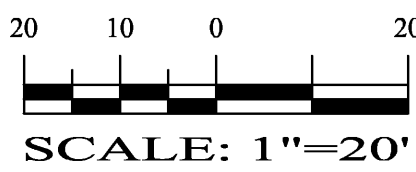
VERSION: 1997.02d RUN DATE (MON/DAY/YR) =11/08/2016
USER NO.= AHYMO-I-9702c01000R31-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM NO.	TO NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1	NOTATION
START RAINFALL TYPE= 1											TIME= .00 RAIN6= 2.350 PER IMP= 89.00
COMPUTE NM HYD	100.00	-	1	.00285	8.20	.302	1.98571	1.500	4.488		
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COMPUTE NM HYD	100.10	-	1	.00285	8.23	.304	1.99749	1.500	4.509		
START RAINFALL TYPE= 1											TIME= .00 RAIN6= 1.570 PER IMP= 90.00
COMPUTE NM HYD	110.10	-	1	.00285	5.35	.189	1.24199	1.500	2.929		

NOTES:

- 1-1/2" PVC SCH 40 PIPE- NOT BUILT
- INSTALL 1/2 HP SUMERSIBLE PUMP, NOT BUILT

GRAPHIC SCALE



VICINITY MAP:

G-16-Z

LEGAL DESCRIPTION:

PARCEL 2-A, TRACT 2, OF THE HAHN PARCEL.
CONTAINING 1.8257 ACRES.

ADDRESS: 2509 COMANCHE RD., NE

GENERAL NOTES:

1. CONTOUR INTERVAL IS HALF (1.00) FOOT.
2. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 7_617, HAVING AN ELEVATION OF 5123.718 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.

LEGEND

-----55030-----	EXISTING CONTOUR (MAJOR)
-----	EXISTING CONTOUR (MINOR)
-----	BOUNDARY LINE
x 28.50	PROPOSED SPOT ELEVATION
x 5029.16	EXISTING GRADE
x 5075.65	EXISTING FLOWLINE ELEVATION
	PROPOSED RETAINING WALL
BC=89.08	BOTTOM OF CHANEL
TC=28.50	TOP OF CURB
TA=28.00	TOP OF ASPHALT
HP	HIGH POINT
86.65	AS-BUILT GRADES
85.47	AS-BUILT SPOT ELEVATIONS
x 86.65	

SBS CONSTRUCTION AND ENGINEERING, LLC

10209 SNOWFLAKE CT., NW
ALBUQUERQUE, NEW MEXICO 87114
(505)899-3570

AAA ROOFING STORAGE SPACE 2509 COMANCHE RD., NE GRADING PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
201630-SITE-GD.DWG	SH-B	7-10-20164	1