Location
Parcel 2-A, Tract 2, of The Hahn Parcel is located at 2509 Comanchee 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 proposd 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.

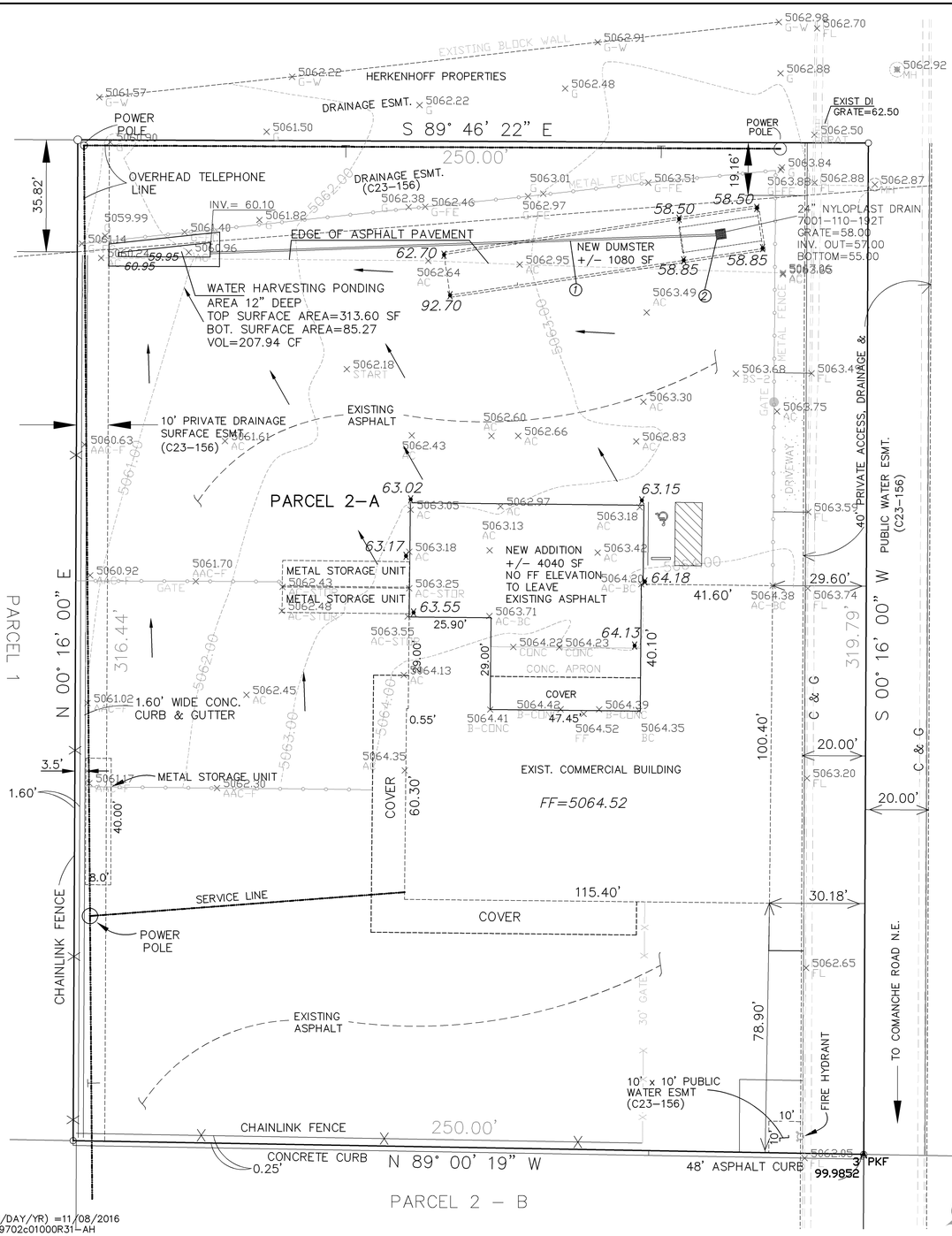
```
* ZONE 2
**********************************************************************
*  100-YEAR,  6-HR STORM (UNDER EXISITNG CONDITIONS)                 *
**********************************************************************
START                 TIME=0.0
RAINFALL              TYPE=1 RAIN QUARTER=0.0 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
```

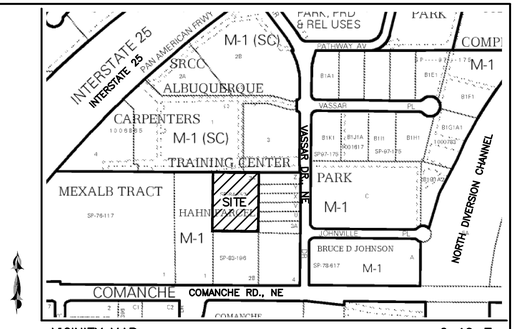
POND VOLUME REQUIRED

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





VICINITY MAP: G-16-Z

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

ADDRESS: 2509 COMANCHEE RD., NE

GENERAL NOTES:
1: CONTOUR INTERVAL IS HALF (1.00) FOOT.
2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 7_G17, HAVING AN ELEVATION OF 5125.716 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

5030	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
	BOUNDARY LINE
x 28.50	PROPOSED SPOT ELEVATION
x 5029.16	EXISTING GRADE
x 5075.65 FL	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 / ~~85.47~~	AS-BUILT GRADES
X 86.65	AS-BUILT SPOT ELEVATIONS

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02d RUN DATE (MON/DAY/YR) =11/08/2016
INPUT FILE = COMANCHE.TXT USER NO.= AHYMO-I-9702c01000R31-AH

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	NOTATION
START										TIME= .00
RAINFALL TYPE= 1										RAIN6= 2.350
COMPUTE NM HYD	100.00	-	1	.00285	8.20	.302	1.98571	1.500	4.488	PER IMP= 89.00
START										TIME= .00
RAINFALL TYPE= 1										RAIN6= 1.570
COMPUTE NM HYD	110.00	-	1	.00285	5.31	.188	1.23243	1.500	2.910	PER IMP= 89.00
START										TIME= .00
RAINFALL TYPE= 1										RAIN6= 2.350
COMPUTE NM HYD	100.10	-	1	.00285	8.23	.304	1.99749	1.500	4.509	PER IMP= 90.00
START										TIME= .00
RAINFALL TYPE= 1										RAIN6= 1.570
COMPUTE NM HYD	110.10	-	1	.00285	5.35	.189	1.24199	1.500	2.929	PER IMP= 90.00
FINISH										

NOTES:
1. 1-1/2" PVC SCH 40 PIPE
2. INSTALL 1/2 HP SUMERSIBLE PUMP.

GRAPHIC SCALE
20 10 0 20
SCALE: 1"=20'
LAST REVISION: 11-10-2016

REZA AFAGHPOUR
NEW MEXICO
11814
11/14/2016
LICENSED PROFESSIONAL ENGINEER

REZA AFAGHPOUR
P.E. #11814

SBS CONSTRUCTION AND ENGINEERING, LLC
10209 SNOWFLAKE CT., NW
ALBUQUERQUE, NEW MEXICO 87114
(505)899-5570

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

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2015)

Project Title: **AAA ROOFING STORAGE SPACE** Building Permit #: _____ Hydrology File #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: **PARCEL 2-A, TRACT 2, OF THE HAHN PARCEL**

City Address: 2509 COMANCHE RD., NE

Applicant: **SBS CONSTRUCTION AND ENGINEERING, LLC** Contact: SHAWN BIAZAR

Address: 10209 SNOWFLAKE CT., NW, ALBUQUERQUE, NM 87114

Phone#: (505) 804-5013 Fax#: (505) 897-4996 E-mail: AECLLC@AOL.COM

Other Contact: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

X HYDROLOGY/ DRAINAGE

X TRAFFIC/ TRANSPORTATION

____ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

____ ENGINEER/ARCHITECT CERTIFICATION

____ CONCEPTUAL G & D PLAN

X GRADING PLAN

____ DRAINAGE MASTER PLAN

____ DRAINAGE REPORT

____ CLOMR/LOMR

____ TRAFFIC CIRCULATION LAYOUT (TCL)

X TRAFFIC IMPACT STUDY (TIS)

____ EROSION & SEDIMENT CONTROL PLAN (ESC)

____ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ____ Yes X No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

X 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

X GRADING PERMIT APPROVAL

____ SO-19 APPROVAL

____ PAVING PERMIT APPROVAL

____ GRADING/ PAD CERTIFICATION

____ WORK ORDER APPROVAL

____ CLOMR/LOMR

____ **PRE-DESIGN MEETING?**

____ OTHER (SPECIFY) _____

DATE SUBMITTED: 11-15-2016 By: SHAWN BIAZAR

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ___

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director

Mayor Richard J. Berry

December 8, 2016

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

Re: AAA Building and Storage
2509 Comanche Rd. NE
Grading & Drainage Plan
Engineer's Stamp dated: 11-14-16 (G16D004)

Dear Mr. Afaghpour,

Based upon the information provided in your submittal received 11/16/2016, this plan is approved for Grading Permit and Building Permit.

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

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

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

Sincerely,

Abiel Carrillo, P.E.
Principal Engineer
Planning Department

RR/AC
C: email

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov