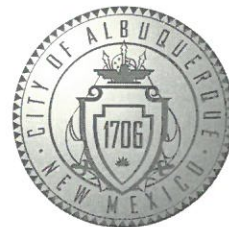


CITY OF ALBUQUERQUE



May 5, 2017

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

Re: 3440 2nd St NW
Request 30-Day Temporary C.O. - Accepted
Engineer's Stamp dated: 11-24-14 (G14D087)
Certification dated: 4-24-17

Dear Mr. Afaghpour,

Based on the Certification received 4/28/2017, the site is released for a 30-day Temporary Release of Occupancy by Hydrology. However, before a permanent CO can be accepted the following comments must be addressed.

- A swale must be in place from the SW downspout to the pond.
- A swale must be in place from the mid-point along the west side of the lot (spot elevation 74.98) to the pond.

An inspection by our office will need to take place after these corrects are made.

If you have any questions, you can contact me at 924-3986 or Totten Elliott at 924-3982.

Sincerely,

James D. Hughes, P.E.
Principal Engineer, Planning Dept.
Development and Review Services

TE/JH

C: email Serna, Yvette M.; Fox, Debi; Tena, Victoria C.; Sandoval, Darlene M.

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.

Location
Lot 17-A-2, Pappe Additions, contains +/- 0.333 acre and is located at 3440 2ND Street, NW. See attached portion of the Vicinity Map for exact location.

Purpose
The purpose of this drainage report is to present a grading and drainage solution to replace existing improvements with this new building.

Existing Drainage Conditions
There is existing slab on site which covert more than 40% of site. No offsite runoff enters the site. The site drain east to west and north to south. Based on the FIRM Map 35001C0332G (revised September 26, 2008) the site does not fall within a 100-year floodplain.

Proposed Conditions and On-Site Drainage Management Plan
The runoff generated from this site will be retained on-site. A pond is designed to hold the 100-yr/24-day volume. Since the runoff from the entire site is being retain on site, the first flush will be retained within the proposed retention pond as well.

Calculations
City of Albuquerque, Development Process Manual, Section 22.2, Hydrology Section, was used for runoff calculations. See this plan for AHYMO input and Summary output files.

* ZONE 2

* 100-YEAR, 24-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=0.000521 SQ MI
PER A=60.00 PER B=0.00 PER C=0.00 PER D=40.00
TP=0.1333 HR MASS RAINFALL=-1

* 10-YEAR, 24-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=0.000521 SQ MI
PER A=60.00 PER B=0.00 PER C=0.00 PER D=40.00
TP=0.1333 HR MASS RAINFALL=-1

* 100-YEAR, 24-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

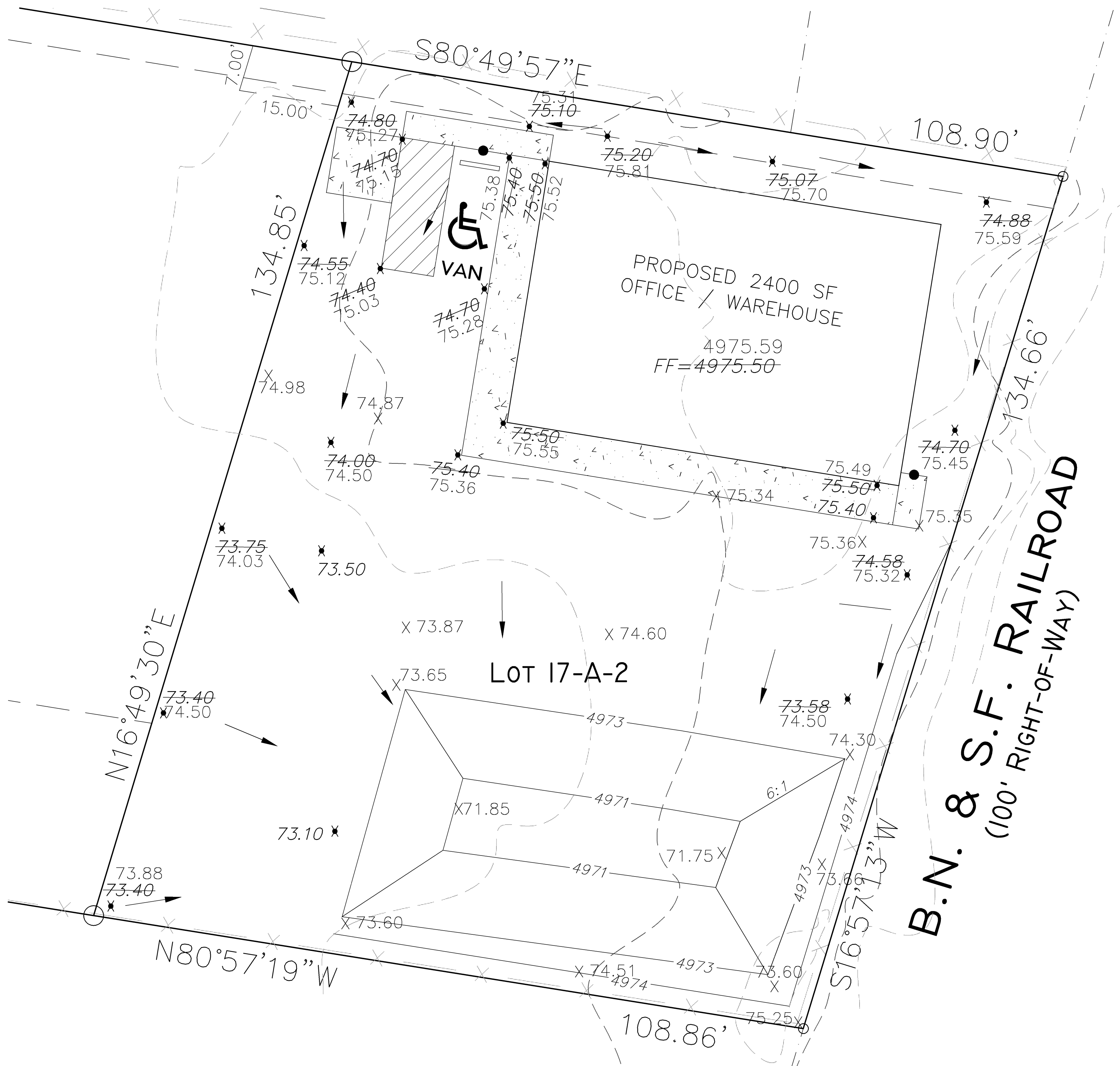
* ON-SITE
COMPUTE NM HYD ID=1 HYD NO=100.1 AREA=0.000521 SQ MI
PER A=0.00 PER B=7.50 PER C=7.50 PER D=85.00
TP=0.1333 HR MASS RAINFALL=-1

* 10-YEAR, 24-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=110.1 AREA=0.000521 SQ MI
PER A=0.00 PER B=7.50 PER C=7.50 PER D=85.00
TP=0.1333 HR MASS RAINFALL=-1

FINISH



AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = 2ND-24.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 = 1
START										
RAINFALL	TYPE= 1									TIME= .00
COMPUTE NM HYD		100.00	-	1	.00052	.95	.032	1.16487	1.500	2.842 PER IMP= 40.00
START										TIME= .00
RAINFALL	TYPE= 1									RAIN6= 1.570
COMPUTE NM HYD		110.00	-	1	.00052	.49	.017	.61016	1.500	1.478 PER IMP= 40.00
START										TIME= .00
RAINFALL	TYPE= 1									RAIN6= 2.350
COMPUTE NM HYD		100.10	-	1	.00052	1.48	.054	1.93856	1.500	4.451 PER IMP= 85.00
START										TIME= .00
RAINFALL	TYPE= 1									RAIN6= 1.570
COMPUTE NM HYD		110.10	-	1	.00052	.95	.033	1.19416	1.500	2.862 PER IMP= 85.00
FINISH										

POND CALCULATION A
BOTTOM AREA = 457.56 SF, TOP AREA = 2,309.33 SF, DEPTH = 2.0'
VOLUME PROVIDED = (457.56 + 2,309.33)/2 X 2 = 2,766.89 CF
100 YR/24-HR STORM REQUIRED = 0.062 AC-FT = 2,700.72 CF



VICINITY MAP:
LEGAL DESCRIPTION:
LOT 17-A-2, PAPPE ADDITION, CONTAININ 0.3334 ACRE

- GENERAL NOTES:
- 1: CONTOUR INTERVAL IS HALF (1.00) FOOT.
 - 2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 9_D15, HAVING AN ELEVATION OF 4988.802 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.

DRAINAGE CERTIFICATION
I, REZA AFAGHPUR, 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 11-24-2014. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NMPS 9801, 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 AFAGHPUR, NMPE 11814
04/24/2017
DATE

- LEGEND
- 5100 EXISTING CONTOUR (MAJOR)
 - 5102 EXISTING CONTOUR (MINOR)
 - BOUNDARY LINE
 - 85.46 PROPOSED SPOT ELEVATION
 - 4986.40 EXISTING GRADE
 - PROPOSED BERM
 - AS-BUILT GRADES
 - AS-BUILT SPOT ELEVATIONS

GRAPHIC SCALE
10 5 0 10
SCALE: 1"=10'



REZA AFAGHPUR
P.E. #11814

SBS CONSTRUCTION
AND ENGINEERING, LLC

10209 SNOWFLAKE CT, NW
ALBUQUERQUE, NEW MEXICO 87114
(505)804-5013

3440 2ND STREET, NW
GRADING AND DRAINAGE PLAN

DRAWING: 201424-GR.DWG
DRAWN BY: SH-B
DATE: 10-22-2014
SHEET #