CITY OF ALBUQUERQUE

Richard J. Berry, Mayor

April 6, 2017

Shawn Biazar
SBS Construction and Engineering, LLC
10209 Snowflake Ct. NW
Albuquerque, NM, 87114

RE: Commercial & Apartment Building – Phase II
Grading Plan
Stamp Date: 3/12/17
Hydrology File: G14D066

Dear Mr. Biazar:

Based upon the information provided in your submittal received 4/3/2017, the Grading Plan is approved for Building Permit.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renee C. Brissette

Reneé C. Brissette, P.E.
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Orig: Drainage File

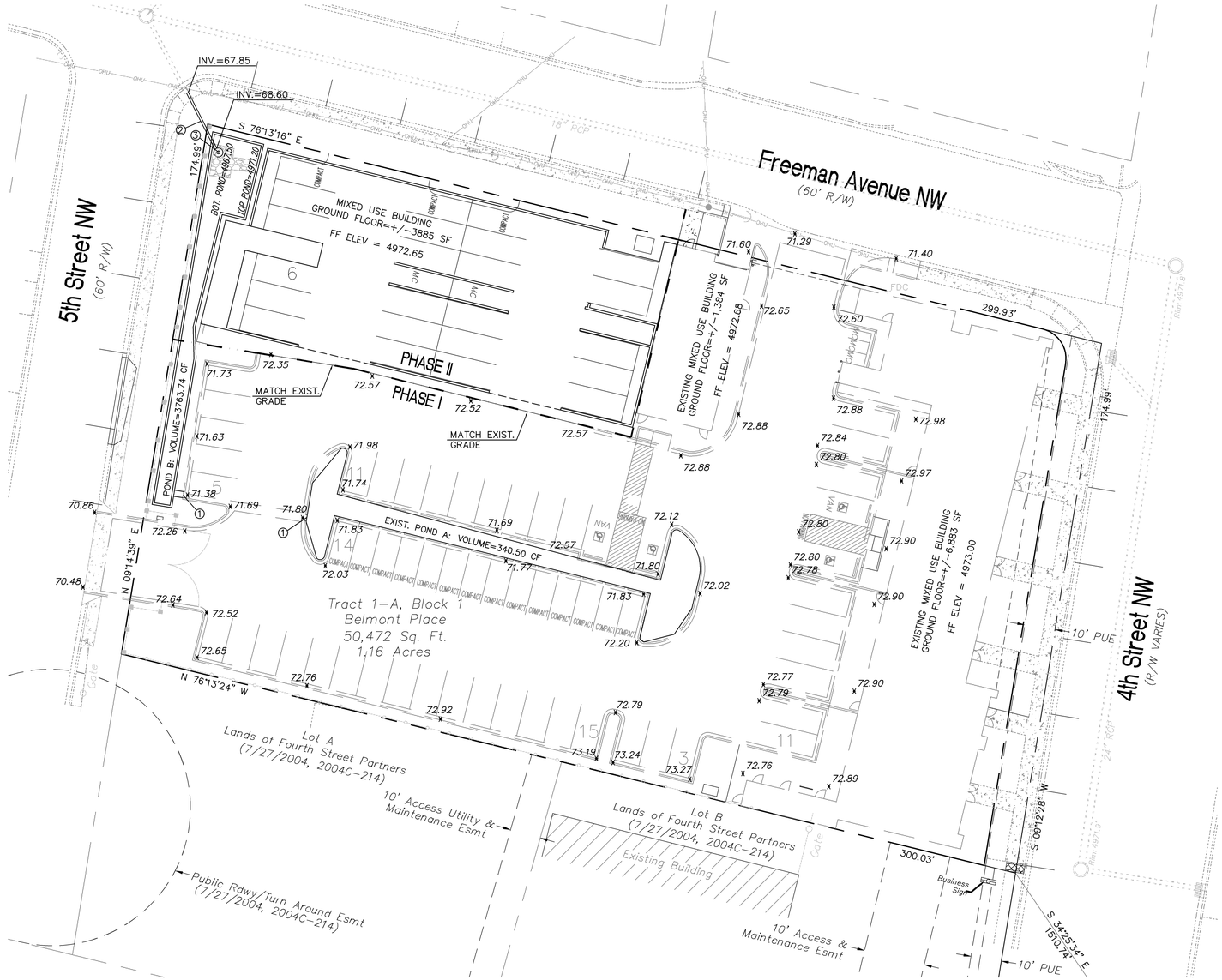
DRAINAGE MANAGEMENT PLAN

INTRODUCTION
The purpose of this submittal is to provide a final drainage management plan for the PHASE II of 4419 4th St NW, located at the SWC of 4th St NW and Freeman Ave NW in Albuquerque, NM. The site contains approximately 1.16 acres. A grading and drainage plan was submitted for the Phase I and was approved by Hydrology Department (G14D066).

EXISTING HYDROLOGIC CONDITIONS
The Phase I is already constructed and all the ponds are built. The grades shown here Aare as–built grades for the site. All the curb and gutter and asphalt are existing. Phase II on the original plan was shown as just dirt and it was draining to pond B. All the calculation was shown on Phase I grading plan.

PROPOSED HYDROLOGIC CONDITIONS
The proposed drainage patterns remain the same as original approved grading plan. However the Impervious area has changed a little and also pond B was modified to accomodate the foot print of building on Phase II. Please see the ponding calculation and revised Pond B.

FIRST FLUSH CALCULATIONS
Per the First Flush Calculations on this sheet, the total First Flush Volume required to be collected for the site is 1,258 CF. Per the Water Harvesting Pond Calculations table this sheet, we are actually retaining 3,870.50 CF of flow from the site which is just over 3 times the quantity required.



VICINITY MAP: G–14–Z

LEGAL DESCRIPTION:

TRACT 1–A, BLOCK 1, BELMONT PLACE
CONTAINING 60,306.32 S.F. (1.16 ACRE).
ZONING: SU–2 NFMX

GENERAL NOTES:

1: CONTOUR INTERVAL IS HALF (1.00) FOOT.
2: 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.
3: THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
4: SLOPES ARE AT 3:1 MAXIMUM.

LEGEND

5030	EXISTING CONTOUR (MAJOR)
5029	EXISTING CONTOUR (MINOR)
	BOUNDARY LINE
x 28.50	PROPOSED SPOT ELEVATION
× 5029.16	EXISTING GRADE
× 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

POND VOLUME REQUIRED

TOTAL PONDING VOLUME REQUIRED (90TH PERCENTILE/FIRST FLUSH) = 0.34 INCHES x IMPERVIOUS AREA = (0.34/12 x 44,396.00) = 1,257.89 CF

POND CALCULATION

TOTAL POND AREA PROVIDED =
PONDING CALCULATIONS:

POND A VOLUME FROM PHASE I= 340.50 CF

POND B: AREA @ TOP = 1,017.20, AREA @ BOTTOM = 1,017.20
POND VOLUME = (1,017.20+1,017.20)/2*3.70 = 3,763.64 CF

TOTAL POND VOLUME PROVIDED = 4,104.14 CF

○ NOTES:

1. EXISTING 12" CURB OPPENING.
2. EXIST. 12" STORM DRAIN PIPE.
3. EXIST. 8" QUICK DRAIN INLET, INV.=68.60, TOP OF QUICK DRAIN INLET=4971.25'.

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

REZA AFAGHPOUR
NEW MEXICO
11814
3/12/2017
LICENSED PROFESSIONAL ENGINEER

REZA AFAGHPOUR
P.E. #11814

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ALBUQUERQUE, NEW MEXICO 87114
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COMMERCIAL & APARTMENT BUILDING PHASE II
4419 4TH ST., NW., ALBUQUERQUE, NM 87107
GRADING PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
201601-ST.DWG	SH-B	03-12-2017	1

LAST REVISION: 3-12-2017