CITY OF ALBUQUERQUE



February 5, 2016

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

Re: 4 Unit Townhouse Development

1203 Griegos Rd NW

Request Permanent C.O. - Accepted

Engineer's Stamp dated: 3-22-15 (F14D070)

Certification dated: 2-3-16

Dear Mr. Afaghpour,

Based on the Certification received 2/4/2016, the site is acceptable for release of Certificate

of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3686 or Totten Elliott at 924-3982.

Albuquerque

Sincerely,

New Mexico 87103

www.cabq.gov

Abiel Carrillo, P.E.

Principal Engineer, Planning Department

Development and Review Services

TE/AC

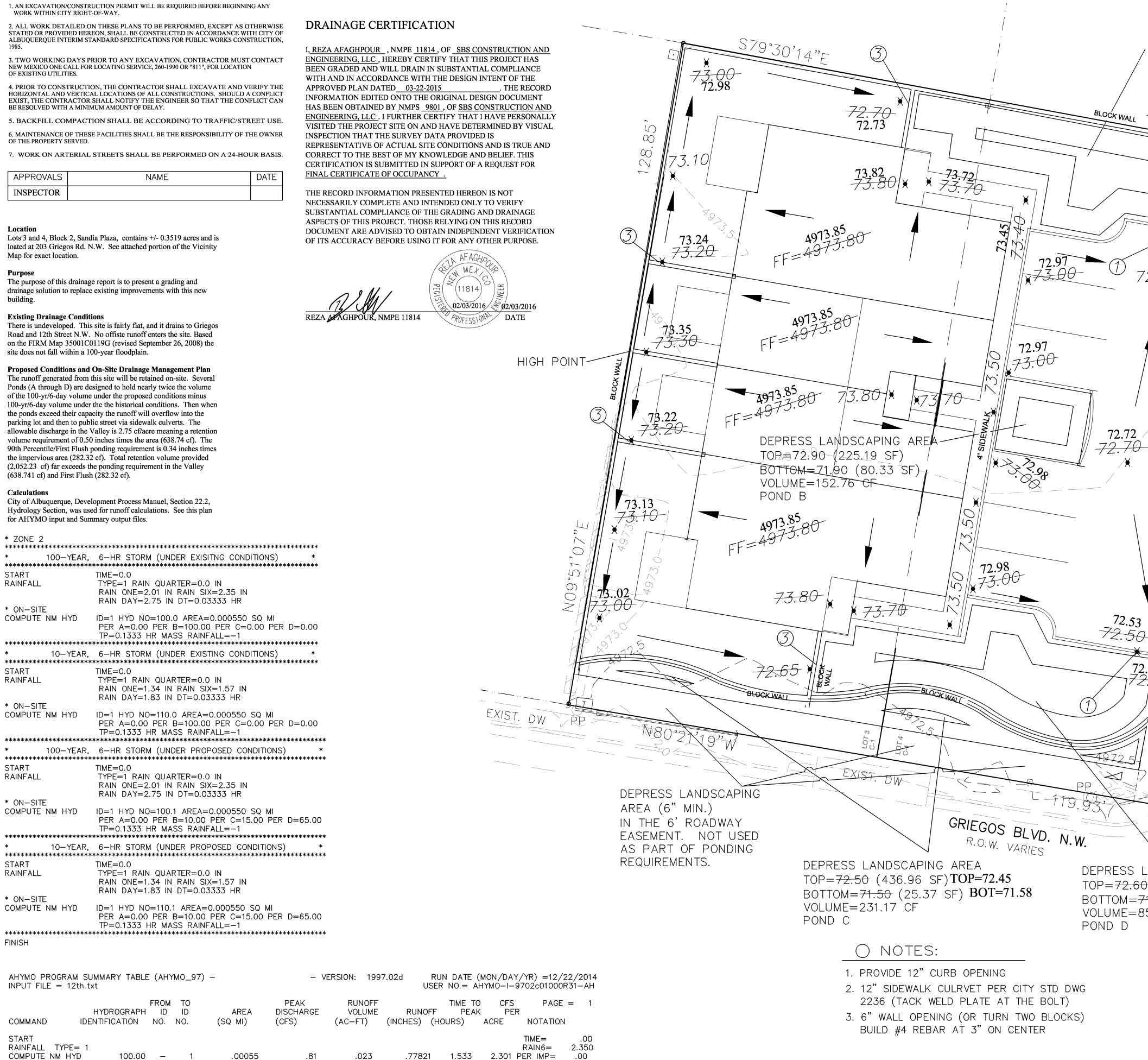
C: email, Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker,

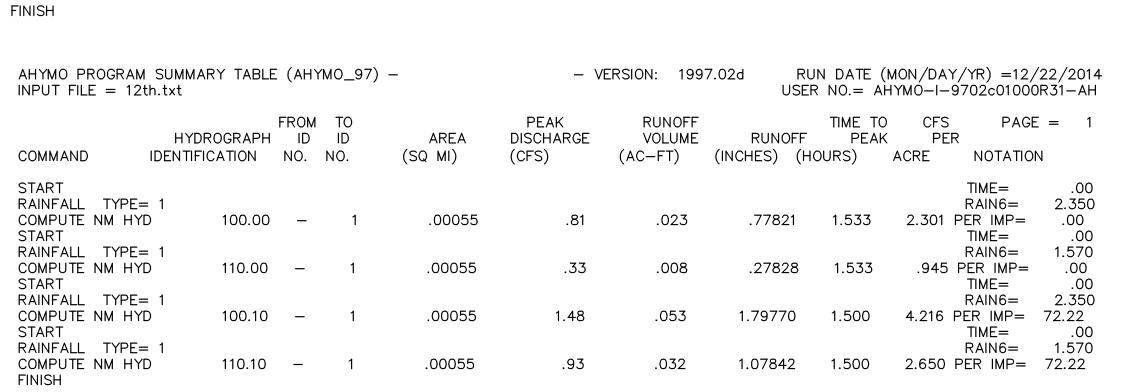
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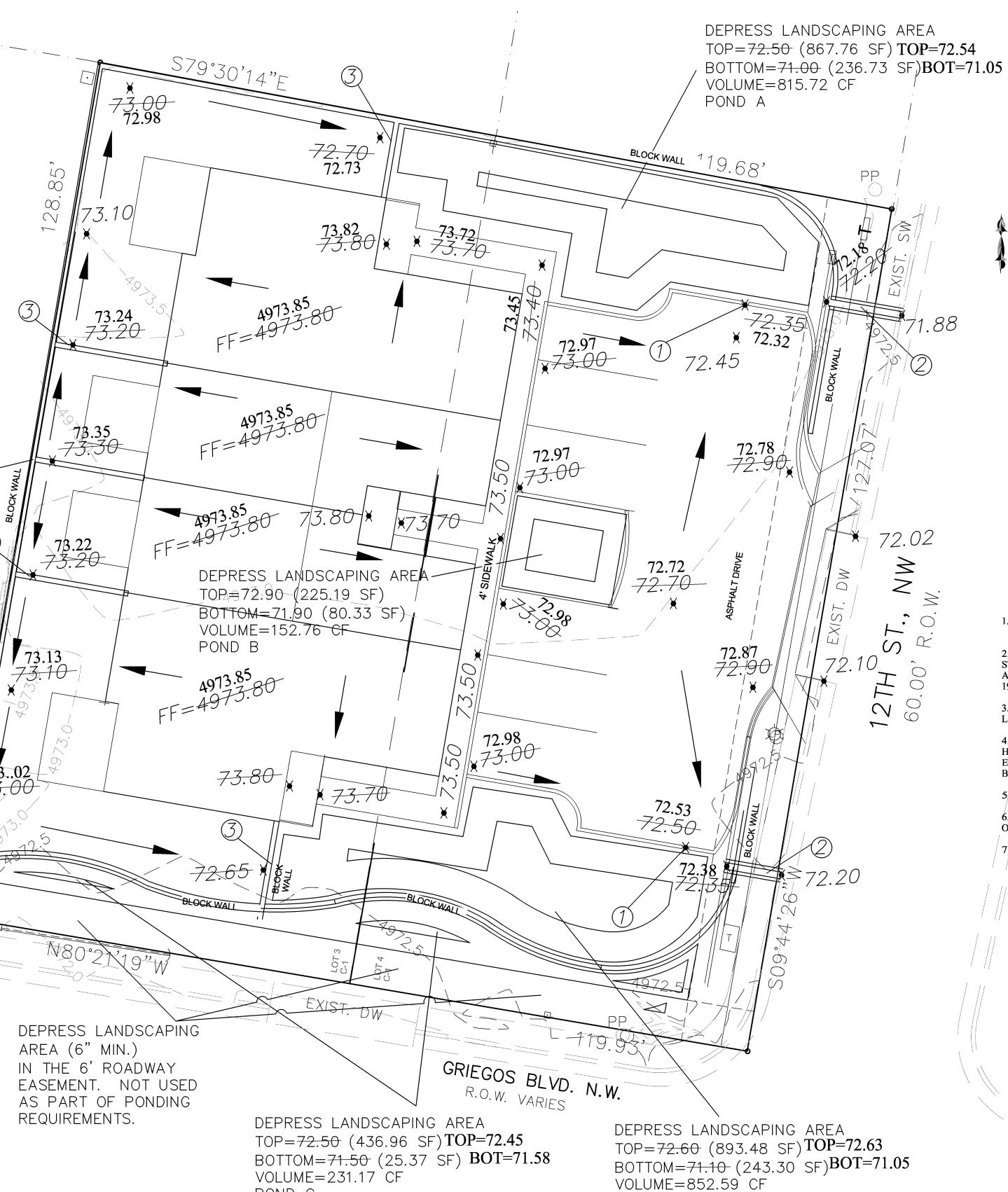
NOTICE TO CONTRACTORS 1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL FOR LOCATING SERVICE, 260-1990 OR "811", FOR LOCATION 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 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS. APPROVALS **INSPECTOR** Lots 3 and 4, Block 2, Sandia Plaza, contains +/- 0.3519 acres and is loated at 203 Griegos Rd. N.W. See attached portion of the Vicinity Map for exact location. The purpose of this drainage report is to present a grading and drainage solution to replace existing improvements with this new **Existing Drainage Conditions** There is undeveloped. This site is fairly flat, and it drains to Griegos Road and 12th Street N.W. No offiste runoff enters the site. Based on the FIRM Map 35001C0119G (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. Several Ponds (A through D) are designed to hold nearly twice the volume of the 100-yr/6-day volume under the proposed conditions minus 100-yr/6-day volume under the historical conditions. Then when the ponds exceed their capacity the runoff will overflow into the parking lot and then to public street via sidewalk culverts. The allowable discharge in the Valley is 2.75 cf/acre meaning a retention volume requirement of 0.50 inches times the area (638.74 cf). The 90th Percentile/First Flush ponding requirement is 0.34 inches times the impervious area (282.32 cf). Total retention volume provided (2,052.23 cf) far exceeds the ponding requirement in the Valley (638.741 cf) and First Flush (282.32 cf). Calculations City of Albuquerque, Development Process Manuel, Section 22.2, Hydrology Section, was used for runoff calculations. See this plan for AHYMO input and Summary output files. * ZONE 2 100-YEAR, 6-HR STORM (UNDER EXISITING CONDITIONS)

START TYPE=1 RAIN QUARTER=0.0 IN RAINFALL 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=0.000550 SQ MI PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00 TP=0.1333 HR MASS RAINFALL=-1 10-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS) START TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAINFALL 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=0.000550 SQ MI PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00 TP=0.1333 HR MASS RAINFALL=-1 ********************************** 100-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS) START 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 ID=1 HYD NO=100.1 AREA=0.000550 SQ MI COMPUTE NM HYD PER A=0.00 PER B=10.00 PER C=15.00 PER D=65.00 TP=0.1333 HR MASS RAINFALL=-1 10-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS) START 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=0.000550 SQ MI

TP=0.1333 HR MASS RAINFALL=-1

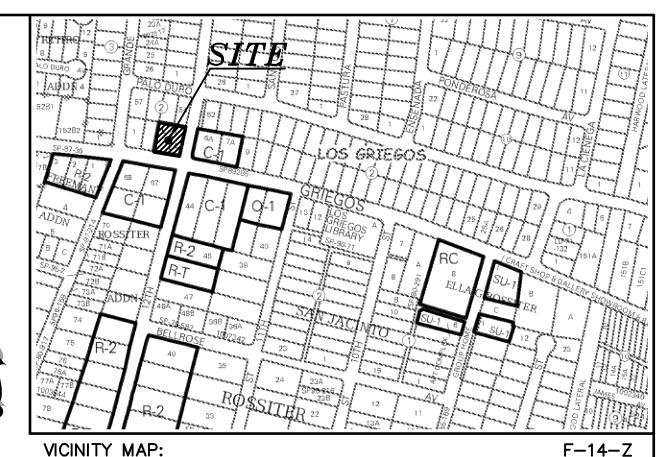






TOTAL POND AREA PROVIDED = POND A + B + C + D = 2,052.23 CF TOTAL PONDING VOLUME REQUIRED = VOL. PROPOSED CONDITIONS - VOL. EXISTING CONDITIONS = 0.053 - 0.023 = 0.03 AC-FT = 1,306.80 CF

TOTAL PONDING VOLUME REQUIRED (VALLEY)= 0.5 INCHES x AREA = $(0.5/12 \times 15,329.81) = 638.74$ CF TOTAL PONDING VOLUME REQUIRED (90TH PERCENTILE/FIRST FLUSH) = 0.34 IMCHES x IMPERVIOUS AREA = $(0.34/12 \times 9,964.38) = 282.32$ CF



VICINITY MAP: LEGAL DESCRIPTION:

LOTS 3 AND 4, BLOCK 2, SANDIA PLAZA CONTAINING 15,329.81 S.F. (0.3519 ACRE)

ZONING: C-1 USES

ADDRESS: 203 GRIEGOS ROAD N.W.

GENERAL NOTES:

1: CONTOUR INTERVAL IS HALF (0.50) FOOT. 2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION

- LSS_206, HAVING AN ELEVATION OF 4976.652 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 CON-
- 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,

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.

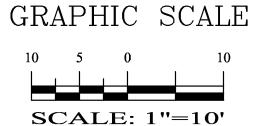
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

LEGEND	
	EXISTING CONTOUR (MAJOR)
_ — — —5102— — — —	EXISTING CONTOUR (MINOR)
	BOUNDARY LINE
¥ <i>85.46</i>	PROPOSED SPOT ELEVATION
×5265.16	EXISTING GRADE
× 5284.43 FL	EXISTING FLOWLINE ELEVATION
	PROPOSED RETAINING WALL
BC=89.08	BOTTOM OF CHANEL
TRW=91.50	TOP OF RETAINING WALL
TF=88.00	TOP OF FOOTING
HP	HIGH POINT
86.65 -85.47-	AS-BUILT GRADES



SBS CONSTRUCTION AND ENGINEERING, LLC

> 10209 SNOWFLAKE CT., NW ALBUQUERQUE, NEW MEXICO 87114 (505)899-5570



4 UNIT TOWNHOUSE DEVELOPMENT				
GRADING AND DRAINAGE PLAN				
DRAWING:	DRAWN BY:	DATE:	SHEET#	
201418-GR.DWG	SH-B	12-22-2014		