NOTICE TO CONTRACTORS 1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY DRAINAGE CERTIFICATION 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 APPROVED PLAN DATED 03-22-2015 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 INSPECTION THAT THE SURVEY DATA PROVIDED IS 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS. FINAL CERTIFICATE OF OCCUPANCY. APPROVALS NAME DATE INSPECTOR THE RECORD INFORMATION PRESENTED HEREON IS NOT Location 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 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). 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 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=0.000550 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 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=0.000550 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 COMPUTE NM HYD ID=1 HYD NO=100.1 AREA=0.000550 SQ MI 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 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=0.000550 SQ MI

PER A=0.00 PER B=10.00 PER C=15.00 PER D=65.00 TP=0.1333 HR MASS RAINFALL=-1 **FINISH** AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -RUN DATE (MON/DAY/YR) =12/22/2014VERSION: 1997.02d INPUT FILE = 12th.txtUSER NO.= AHYMÓ-I-9702c01000R31-AH FROM TO **RUNOFF** CFS PAGE = 1HYDROGRAPH ID ID AREA DISCHARGE VOLUME RUNOFF PEAK COMMAND IDENTIFICATION NO. NO. (SQ MI) (CFS) (AC-FT) (INCHES) (HOURS) ACRE NOTATION START RAINFALL TYPE= RAIN6= 2.350 100.00 — COMPUTE NM HYD .00055 .77821 1.533 2.301 PER IMP= .00 START TIME= RAINFALL TYPE= 1 RAIN6= 1.570 COMPUTE NM HYD .00055 .27828 1.533 .945 PER IMP= .00 START TIME= RAINFALL TYPE= 1 RAIN6= 2.350 COMPUTE NM HYD 1.500 4.216 PER IMP= 72.22 1.48 START TIME= RAINFALL TYPE= 1 RAIN6= 1.570 COMPUTE NM HYD 110.10 1.07842 1.500 2.650 PER IMP= 72.22 FINISH

DEPRESS LANDSCAPING AREA TOP=72.50 (867.76 SF) **TOP=72.54** BOTTOM=71.00 (236.73 SF)BOT=71.05 I, REZA AFAGHPOUR , NMPE 11814, OF SBS CONSTRUCTION AND VOLUME=815.72 CF ENGINEERING, LLC, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE POND A WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE 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 8 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 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 72.35 × 72.32 OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. _02/03/2016/≥\$\g2/03/2016 HIGH POINT DEPRESS LANDSCAPING ARE 72.70 TOP=72.90 (225.19 SF) BOTTOM=71.90 (80.33 SF) VOLUME=152.76 CF POND B 73.70 72.53 EXIST. DW RP EXIST. DW DEPRESS LANDSCAPING AREA (6" MIN.) GRIEGOS BLVD. N.W. IN THE 6' ROADWAY EASEMENT. NOT USED R.O.W. VARIES AS PART OF PONDING REQUIREMENTS. DEPRESS LANDSCAPING AREA DEPRESS LANDSCAPING AREA TOP = 72.50 (436.96 SF) TOP = 72.45TOP = 72.60 (893.48 SF) TOP = 72.63BOTTOM=71.50 (25.37 SF) **BOT=71.58** BOTTOM= $\frac{71.10}{(243.30)}$ (243.30) SF)BOT=71.05 VOLUME=231.17 CF VOLUME=852.59 CF POND C POND D O NOTES: 1. PROVIDE 12" CURB OPENING

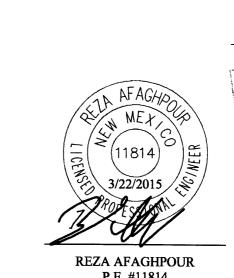
- 2. 12" SIDEWALK CULRVET PER CITY STD DWG 2236 (TACK WELD PLATE AT THE BOLT)
- 3. 6" WALL OPENING (OR TURN TWO BLOCKS) BUILD #4 REBAR AT 3" ON CENTER

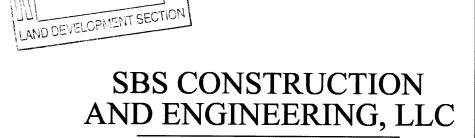
POND CALCULATION

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 x 9,964.38) = 282.32 CF





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

4 UNIT TOWNHOUSE DEVELOPMENT GRADING AND DRAINAGE PLAN

DRAWING: DRAWN BY: SHEET# 201418-GR.DWG 12-22-2014 LAST REVISION: 03/22/2015

VICINITY MAP: F-14-Z LEGAL DESCRIPTION: **ZONING: C-1 USES**

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

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-SIDERATIONS.
- 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

---- 5100--- EXISTING CONTOUR (MAJOR) ---5102--- EXISTING CONTOUR (MINOR) BOUNDARY LINE

PROPOSED SPOT ELEVATION ¥ 85.46 EXISTING GRADE \times 5265.16

EXISTING FLOWLINE ELEVATION \times 5284.43

PROPOSED RETAINING WALL

BOTTOM OF CHANEL BC = 89.08

TRW=91.50 TOP OF RETAINING WALL

TF=88.00 TOP OF FOOTING HIGH POINT

AS-BUILT GRADES

P.E. #11814

GRAPHIC SCALE

SCALE: 1"=10'

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VERSION: 1997.02d

(AC-FT)

RUNOFF

VOLUME

.053

RUNOFF

The state of the s

RAIN6=

1.500 2.650 PER IMP= 72.22

1.570

PEAK

(CFS)

NO. NO.

(SQ MI)

.00055

.00055

.00055

.00055

IDENTIFICATION

110.00

110.10 —

COMMAND

START

START

START

FINISH

RAINFALL TYPE= 1

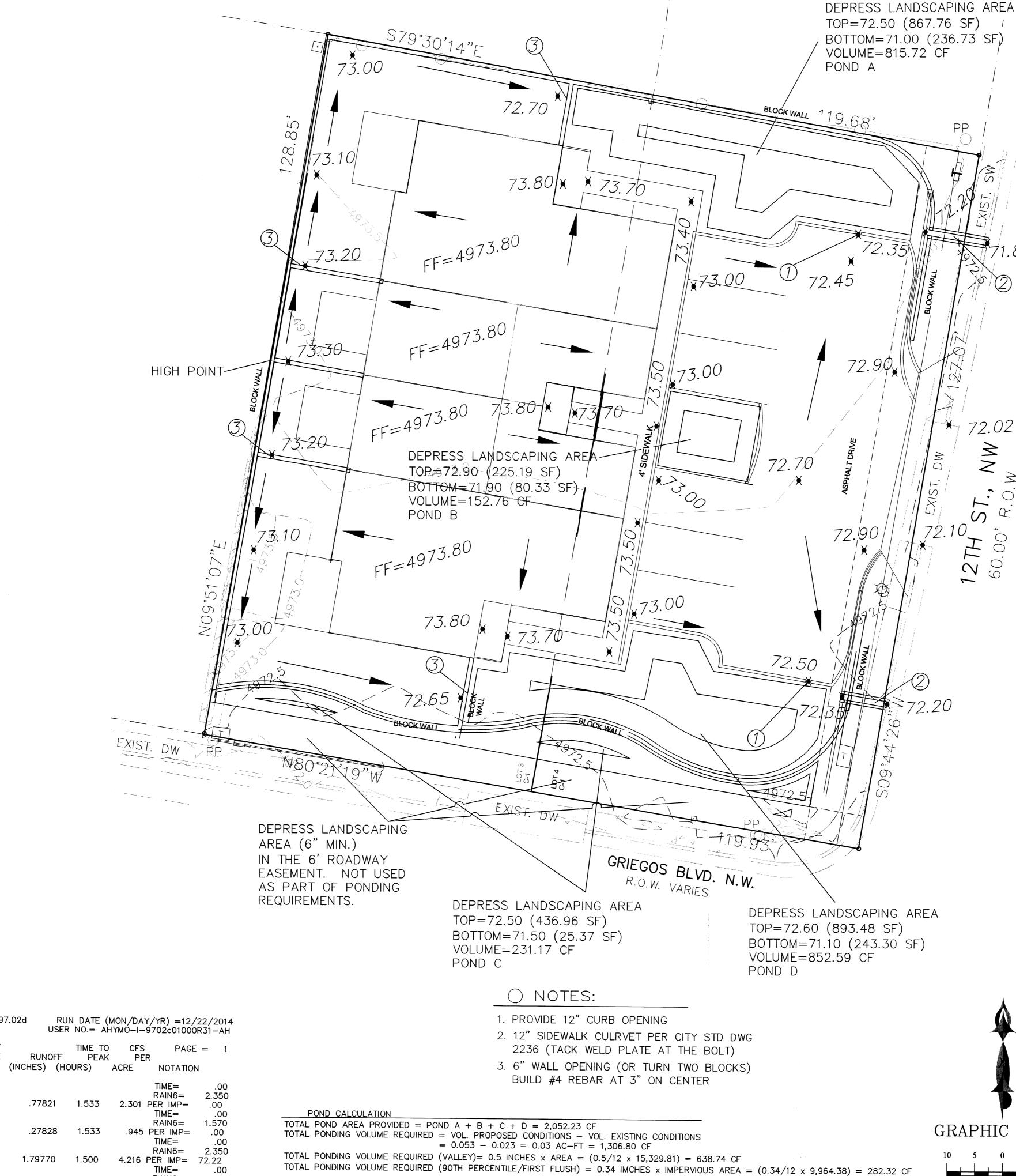
COMPUTE NM HYD

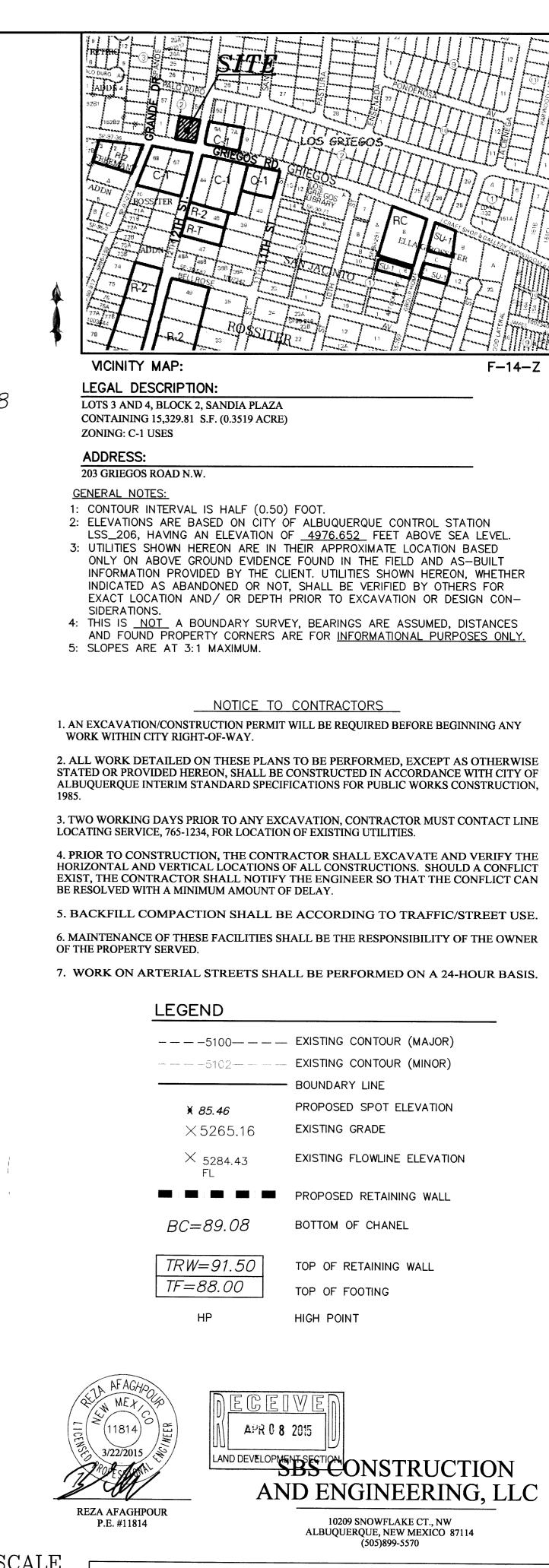
DISCHARGE

.33

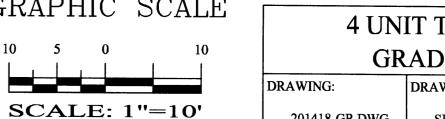
1.48

.93



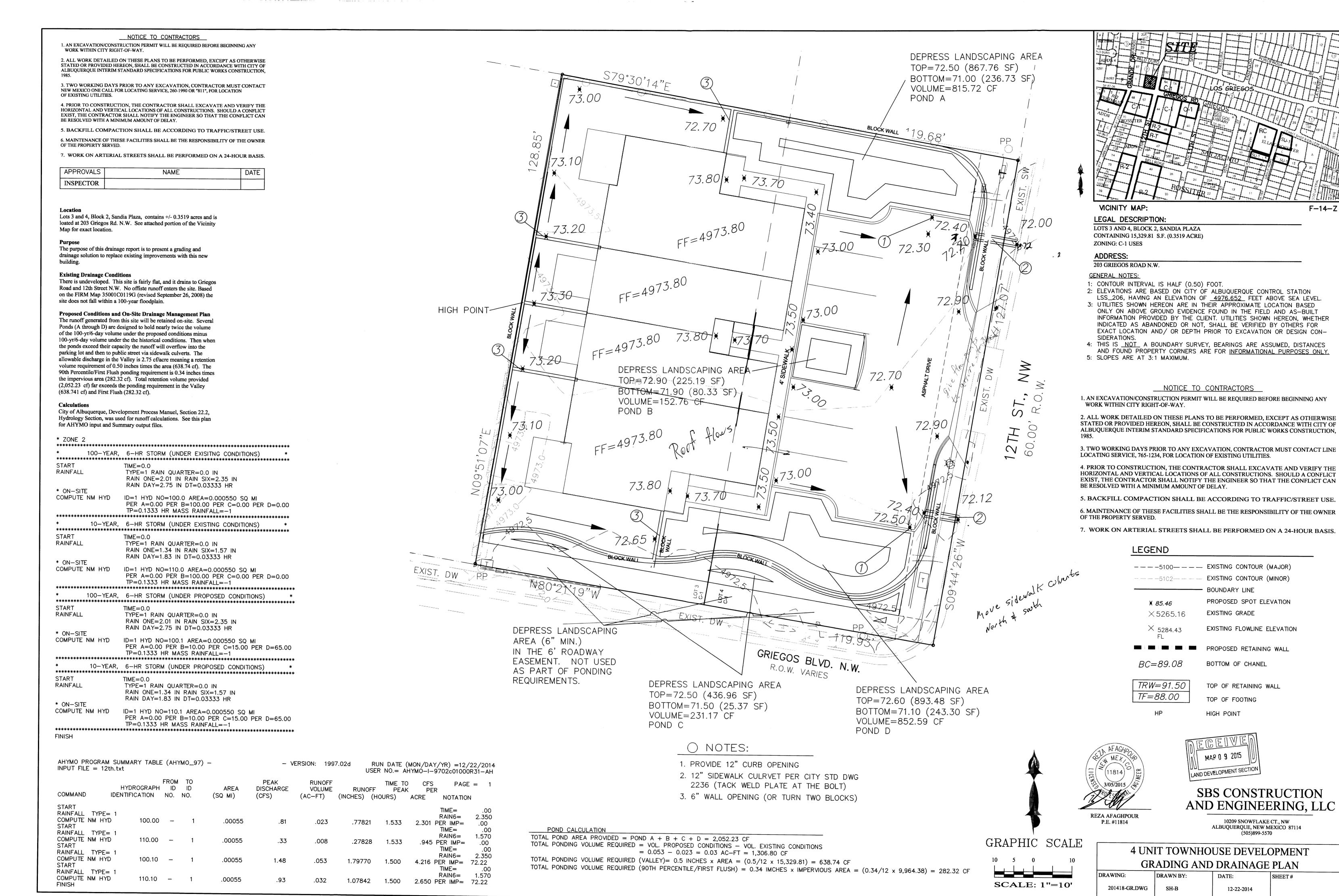






4 UNIT TOWNHOUSE DEVELOPMENT GRADING AND DRAINAGE PLAN

DRAWN BY: SHEET# 201418-GR.DWG SH-B 12-22-2014 LAST REVISION: 03/22/2015



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F-14-Z

LAST REVISION: 03/05/2015

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

APPROVALS	NAME	DATE
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 (2,631.83 cf) far exceeds the ponding requirement in the Valley (638.741 cf) and First Flush (282.32 cf).

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)

RAIN DAY=2.75 IN DT=0.03333 HR

START RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.01 IN RAIN SIX=2.35 IN

* 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=0.0TYPE=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)

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

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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

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TP=0.1333 HR MASS RAINFALL=-1 *******************************

COMPUTE NM HYD

FINISH								
AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) VERSION: 1997.02d RUN DATE (MON/DAY/YR) = INPUT FILE = 12th.txt USER NO.= AHYMO-I-9702c0								:2/2014 :31–AH
HYDR COMMAND IDENTIFIC	FROM TO OGRAPH ID ID ATION NO. NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES) (H	TIME TO PEAK OURS)	- · - · · · · · · -	= 1
START RAINFALL TYPE= 1 COMPUTE NM HYD START	100.00 – 1	.00055	.81	.023	.77821	1.533	TIME= RAIN6= 2.301 PER IMP= TIME=	.00 2.350 .00 .00
RAINFALL TYPE= 1 COMPUTE NM HYD START	110.00 – 1	.00055	.33	.008	.27828	1.533	RAIN6= .945 PER IMP= TIME=	1.570 .00 .00
RAINFALL TYPE= 1 COMPUTE NM HYD START	100.10 – 1	.00055	1.48	.053	1.79770	1.500	RAIN6=	2.350 72.22 .00
RAINFALL TYPE= 1 COMPUTE NM HYD FINISH	110.10 – 1	.00055	.93	.032	1.07842	1.500	RAIN6=	1.570 72.22

DEPRESS LANDSCAPING AREA TOP=72.50 (867.76 SF) BOTTOM=71.00 (236.73 SF) VOLUME=815.72 CF POND A ∞ 73.80 × HIGH POINT DEPRESS LANDSCAPING ARE TOP=72.90 (225.19 SF) BOTTOM=71.90 (80.33 SF) VOLUME=152.76 CF POND B \bigcirc ROADWAY EASEMENT TO BE GRANTED TO CITY OF ALBUQUERQUE BLOCK WALL EXIST. DW EXIST. DW GRIEGOS BLVD. N.W. R.O.W. VARIES DEPRESS LANDSCAPING AREA DEPRESS LANDSCAPING AREA TOP=72.50 (702.12 SF) TOP=72.60 (1,049.82 SF) BOTTOM=71.50 (102.70 SF) BOTTOM=71.10 (363.16 SF) VOLUME=603.62 CF VOLUME=1059.74 CF POND C POND D Johns Men at 1882 O NOTES:

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TOTAL POND AREA PROVIDED = POND A + B + C + D = 2,631.83 CF TOTAL PONDING VOLUME REQUIRED = VOL. PROPOSED CONDITIONS - VOL. EXISTING CONDITIONS

= 0.053 - 0.023 = 0.03 AC-FT = 1.306.80 CF

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GRAPHIC SCALE

SCALE: 1"=10'



P.E. #11814

VICINITY MAP:

ZONING: C-1 USES

ADDRESS:

GENERAL NOTES:

SIDERATIONS.

OF THE PROPERTY SERVED.

5: SLOPES ARE AT 3:1 MAXIMUM.

WORK WITHIN CITY RIGHT-OF-WAY.

LEGAL DESCRIPTION:

1203 GRIEGOS ROAD N.W.

LOTS 3 AND 4, BLOCK 2, SANDIA PLAZA

CONTAINING 15,329.81 S.F. (0.3519 ACRE)

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2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION

3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT

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HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT

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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.

- BOUNDARY LINE

EXISTING GRADE

EXISTING CONTOUR (MINOR)

PROPOSED SPOT ELEVATION

EXISTING FLOWLINE ELEVATION

PROPOSED RETAINING WALL

TOP OF RETAINING WALL

BOTTOM OF CHANEL

TOP OF FOOTING

HIGH POINT

LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.

BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY

LEGEND

-- 5102---

 \times 5265.16

 \times 5284.43

TRW=91.50

TF=88.00

¥ 85.46

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY

SBS CONSTRUCTION AND ENGINEERING, LLC

F-14-Z

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	3					

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 ofo the 100-yr/6-day volume under the proposed conditions minus 100-yr/6-day volume under the 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.

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 RAINFALL	TIME=0.0 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=0.000550 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 RAINFALL	**************************************
* 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,	** <u>***</u> *******************************
**************************************	**************************************
* ON-SITE COMPUTE NM HYD	ID=1 HYD NO=100.1 AREA=0.000550 SQ MI PER A=0.00 PER B=10.00 PER C=15.00 PER D=65.00 1000 PER D=0.1333 HR MASS RAINFALL=-1
* 10-YEAR.	**************************************
**************************************	**************************************
* ON-SITE COMPUTE NM HYD	ID=1 HYD NO=110.1 AREA=0.000550 SQ MI PER A=0.00 PER B=10.00 PER C=15.00 PER D=65.00 TP=0.1333 HR MASS RAINFALL=-1
**************************************	*************

AHYMO PROGRAM INPUT FILE = 12th		E (AH)	YMO_97)) –	- V	ERSION: 1997	7.02d RU USE	JN DATE (R NO.= AI	YAD\NOM ?—I—OMYH	//YR) =12/ 9702c01000	/22/2014 DR31-AH
COMMAND I	HYDROGRAPH DENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES) (H	TIME TO PEAK OURS)		PAGE R NOTATIO	
START RAINFALL TYPE= COMPUTE NM HYD START RAINFALL TYPE=	100.00	_	1	.00055	.81	.023	.77821	1.533	2.301	TIME= RAIN6= PER IMP= TIME=	.00 2.350 .00
COMPUTE NM HYD START	•	_	1	.00055	.33	.008	.27828	1.533	.945	RAIN6= PER IMP= TIME=	1.570 .00
RAINFALL TYPE= COMPUTE NM HYD START	100.10	_	1	.00055	1.48	2309 .053	1.79770	1.500	4.216	RAIN6= PER IMP= TIME=	.00 2.350 72.22 .00
RAINFALL TYPE= COMPUTE NM HYD FINISH		_	1	.00055	.93	.032	1.07842	1.500	2.650	RAIN6= PER IMP=	1.570 72.22

POND CALCULATION

TOTAL POND AREA PROVIDED = POND A + B + C + D = 2,631.83 CF TOTAL PONDING VOLUME REQUIRED = VOL. PROPOSED CONDITIONS - VOL. EXISTING CONDITIONS

= 0.053 - 0.023 = 0.03 AC-FT = 1,306.80 CF

HIGH POINT TOR-973:90 (225.19 SF) BOTTOM=71.90 (80.33 SF) VOLUME=152.76 POND B 73.80 BLOCK WALL GRIEGOS BLVD. N.W. R.O.W. VARIES DEPRESS LANDSCAPING AREA DEPRESS LANDSCAPING AREA TOP=72.50 (702.12 SF) TOP = 72.60 (1,049.82 SF)BOTTOM=71.50 (102.70 SF) BOTTOM=71.10 (363.16 SF) VOLUME=603.62 CF VOLUME=1059.74 CF POND C POND D O NOTES:

1. PROVIDE 12" CURB OPENING

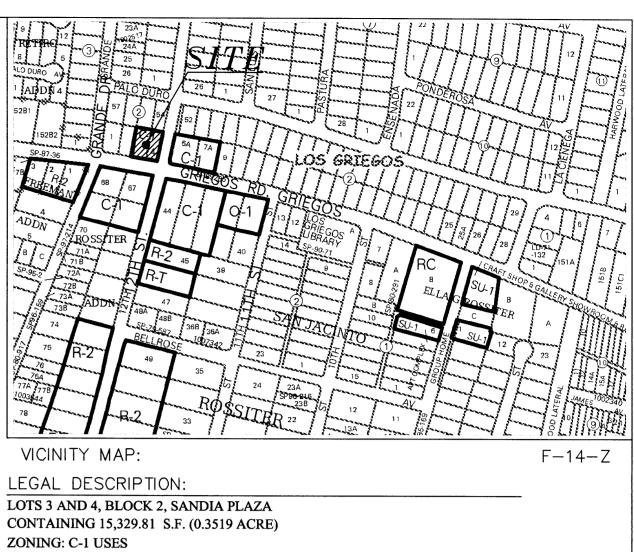
2. 12" SIDEWALK CULRVET PER CITY STD DWG

2236 (TACK WELD PLATE AT THE BOLT)

3. 6" WALL OPENING (OR TURN TWO BLOCKS)

73.80 ×

8



ADDRESS:

203 GRIEGOS ROAD N.W.

GENERAL NOTES:

· O

S

12TH 60.00°

1: CONTOUR INTERVAL IS HALF (0.50) FOOT.

2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION LSS_206, HAVING AN ELEVATION OF <u>4976.652</u> 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-

SIDERATIONS. 4: THIS IS <u>NOT</u> 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 ---5100——— EXISTING CONTOUR (MAJOR) ---5102--- EXISTING CONTOUR (MINOR) - BOUNDARY LINE PROPOSED SPOT ELEVATION ¥ 85.46 \times 5265.16 EXISTING GRADE × _{5284.43} EXISTING FLOWLINE ELEVATION PROPOSED RETAINING WALL BOTTOM OF CHANEL

TRW = 91.50TF=88.00

TOP OF RETAINING WALL TOP OF FOOTING

HIGH POINT



201418-GR.DWG

LAST REVISION: 12/22/2014

SH-B

SBS CONSTRUCTION AND ENGINEERING, LLC

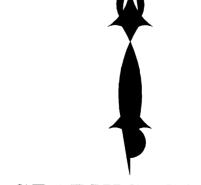
DEC 3 1 2014

LAND DEVELOPMENT SECTION

10209 SNOWFLAKE CT., NW ALBUQUERQUE, NEW MEXICO 87114

	4 UNIT TOWNHOUSE DEVELOPMENT							
GRADING AND DRAINAGE PLAN								
	DRAWING:	DRAWN BY:	DATE:	SHEET#				

12-22-2014



DEPRESS LANDSCAPING AREA

TOP=72.50 (867.76 SF)

VOLUME=815.72 CF

POND A

BOTTOM=71.00 (236.73 SF)

GRAPHIC SCALE

SCALE: 1"=10"

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 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 OF THE PROPERTY SERVED 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS. **APPROVALS** NAME **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 (2,631.83 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) **************************** 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 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 ID=1 HYD NO=110.0 AREA=0.000550 SQ MI COMPUTE NM HYD 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 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=0.000550 SQ MI 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 ID=1 HYD NO=110.1 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 ************************* **FINISH** AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -VERSION: 1997.02d INPUT FILE = 12th.txtFROM TO PEAK HYDROGRAPH ID ID AREA DISCHARGE VOLUME

COMMAND

START

START

START

FINISH

RAINFALL TYPE= 1

COMPUTE NM HYD

IDENTIFICATION NO. NO.

100.00

110.10

110.00 —

-

(SQ MI)

.00055

.00055

.00055

.00055

(CFS)

1.48

.93

RUNOFF

.008

.053

.032

(AC-FT)

TIME TO CFS

PER

PEAK

(INCHES) (HOURS) ACRE

1.533

1.533

1.500

RUNOFF

.27828

1.07842

And the second s

PAGE = 1

2.350

.00

1.570

.00

2.350

1.570

.00

NOTATION

RAIN6=

RAIN6=

TIME=

RAIN6=

4.216 PER IMP= 72.22

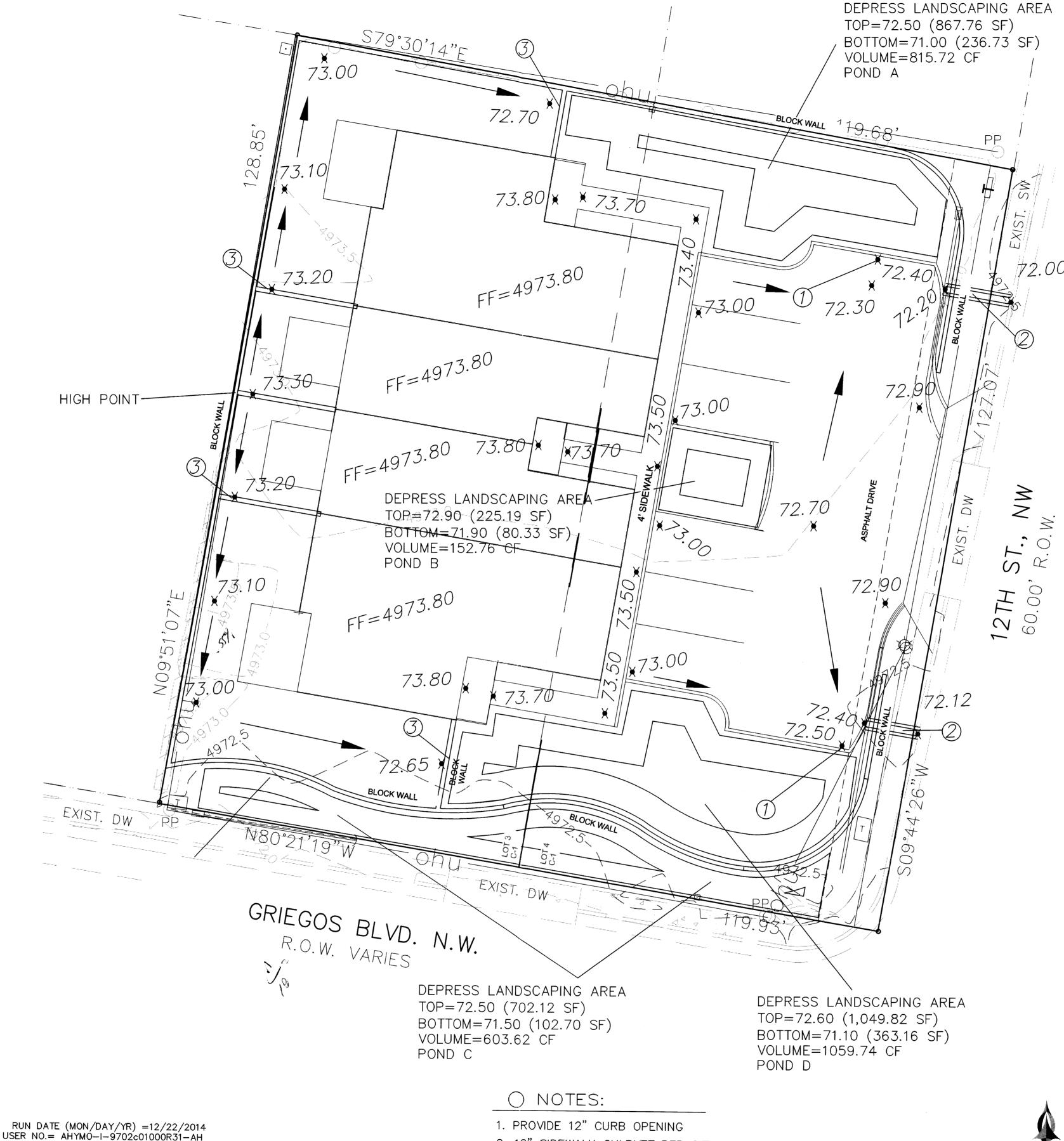
TIME=

RAIN6=

2.301 PER IMP=

1.500 2.650 PER IMP= 72.22

.945 PER IMP=



2. 12" SIDEWALK CULRVET PER CITY STD DWG 2236 (TACK WELD PLATE AT THE BOLT)

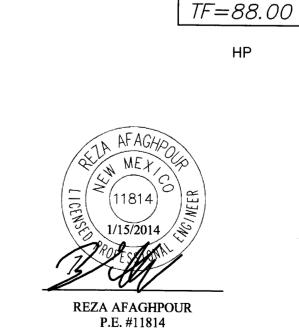
3. 6" WALL OPENING (OR TURN TWO BLOCKS)

POND CALCULATION

TOTAL POND AREA PROVIDED = POND A + B + C + D = 2,631.83 CF TOTAL PONDING VOLUME REQUIRED = VOL. PROPOSED CONDITIONS - VOL. EXISTING CONDITIONS

= 0.053 - 0.023 = 0.03 AC-FT = 1,306.80 CFTOTAL 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 x 9,964.38) = 282.32 CF



GRAPHIC SCALE

SCALE: 1"=10'

LAST REVISION: 12/22/20

10 5 0

VICINITY MAP:

ZONING: C-1 USES

ADDRESS:

GENERAL NOTES:

LEGAL DESCRIPTION:

1203 GRIEGOS ROAD N.W.

5: SLOPES ARE AT 3:1 MAXIMUM.

WORK WITHIN CITY RIGHT-OF-WAY.

OF THE PROPERTY SERVED.

LEGEND

¥ 85.46

 \times 5265.16

 \times 5284.43

BC = 89.08

TRW=91.50

LOTS 3 AND 4, BLOCK 2, SANDIA PLAZA

CONTAINING 15,329.81 S.F. (0.3519 ACRE)

1: CONTOUR INTERVAL IS HALF (0.50) FOOT.

2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION

3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT

DOUGLAS, HAVING AN ELEVATION OF 4975.078 FEET ABOVE SEA LEVEL.

INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR

4: THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES

NOTICE TO CONTRACTORS

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---5100——— EXISTING CONTOUR (MAJOR)

EXISTING CONTOUR (MINOR)

PROPOSED SPOT ELEVATION

EXISTING FLOWLINE ELEVATION

PROPOSED RETAINING WALL

TOP OF RETAINING WALL

BOTTOM OF CHANEL

TOP OF FOOTING

HIGH POINT

BOUNDARY LINE

EXISTING GRADE

LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.

EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON-

AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.

INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER

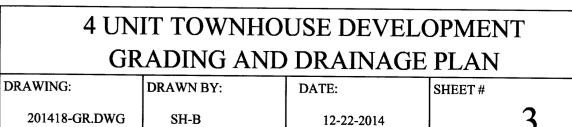


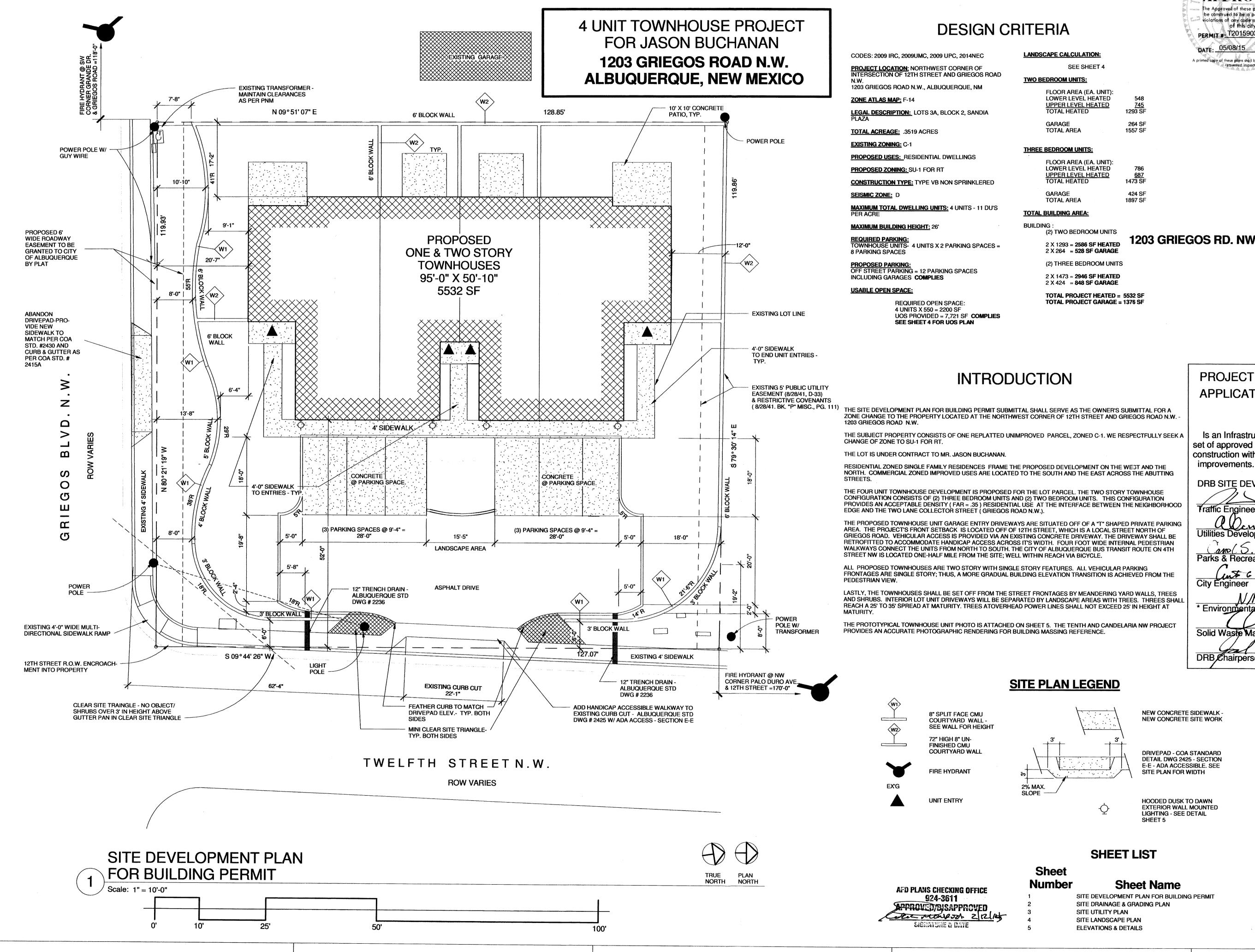
SBS CONSTRUCTION

F-14-Z

AND ENGINEERING, LLC

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





APPROVED The Approval of these plans shall not be construed to be a permit for any violations of any code or ordinance of this city. PERMIT #. T201590338 DATE: 05/08/15 A printed copy of these plans shall be on the job site for all requested inspections. GRIEGOS ROAD NW BELLAOSE **VICINITY MAP - ZA MAP F-14**

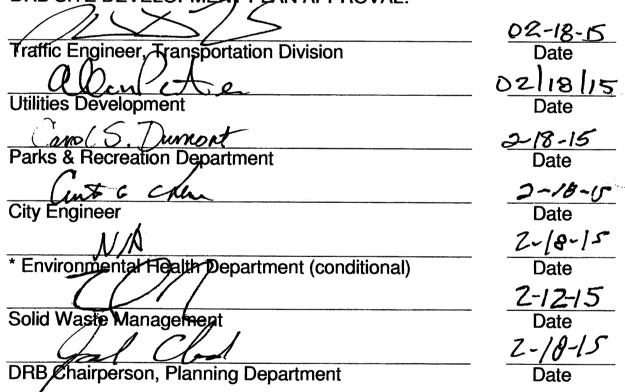
PROJECT NUMBER: #1010182 **APPLICATION NUMBERS:**

These plans have been reviewed for code compliance and are:

SDP FOR BP: #15DRB-70024

Is an Infrastructure List required? () Yes () No If Yes, then a set of approved DRC plans with a work order is required for any construction within Public Right-of-Way or for construction of public improvements.

DRB SITE DEVELOPMENT PLAN APPROVAL:



NEW CONCRETE SIDEWALK -NEW CONCRETE SITE WORK

DETAIL DWG 2425 - SECTION E-E - ADA ACCESSIBLE. SEE SITE PLAN FOR WIDTH

HOODED DUSK TO DAWN **EXTERIOR WALL MOUNTED** LIGHTING - SEE DETAIL

SITE DEVELOPMENT PLAN FOR BUILDING PERMIT



4 UNIT TOWNHOUSE DEV. FOR JASON BUCHANAN 1203 GRIEGOS ROAD N.W. ALBUQUERQUE, NEW MEXICO

DRAWING TITLE: SITE DEVELOPMENT PLAN FOR **BUILDING PERMIT** PROJECT NO.



FEB. 12, 2015 **BUCH 6E** DRAWING NO.