## 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 OF THE PROPERTY SERVED. 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS. APPROVALS INSPECTOR Northerly Portion of Lots 40 and 41, entire lots 42, and 43, Rossiter Addition, contains +/-1.4792 acres and is loated at southeast corner of 12th Street and 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 for the propsed building shown on the grading plan. 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 Only 74% of the proposed Lot will be developed at this time and remaining portion of the site to the east will remain at its current conditions. The runoff generated from this site will be partly retained on-site. Several Ponds (A through N) are designed to hold 4,748.24 cf. When the ponds exceed their capacity the runoff will overflow into the parking lot and then to Griegos public street via the entrance. The allowable discharge in the Valley is 2.75 cf/acre meaning a retention volume requirement of 0.50 inches times the area (4,748.50 cf). The 90th Percentile/First Flush ponding requirement is 0.34 inches times the impervious area (1,023.55 cf). Total retention volume provided (4,748.50 cf) far exceeds the ponding requirement in the Valley (1,980.55 cf) and First Flush (1,023.55 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 EXISITNG 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=0.001705 SQ MI 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

PER A=0.00 PER B=30.00 PER C=30.00 PER D=40.00 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=0.001705 SQ MI COMPUTE NM HYD PER A=0.00 PER B=30.00 PER C=30.00 PER D=40.00 TP=0.1333 HR MASS RAINFALL=-1 \* 100-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS) START TIME=0.0RAINFALL 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=0.001705 SQ MI COMPUTE NM HYD PER A=0.00 PER B=10.00 PER C=14.00 PER D=76.00/ TP=0.1333 HR MASS RAINFALL=-1

START TIME=0.0RAINFALL 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=0.001705 SQ MI COMPUTE NM HYD

\*

PER A=0.00 PER B=10.00 PER C=14.00 PER D=76.00 TP=0.1333 HR MASS RAINFALL=-1

10-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS)

\* FINISH

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) — INPUT FILE = 12GR.TXT			O NOTES:  - VERSION: 1997.02d  1. PROVIDE 12" CURB OPENING  2. 12" SIDEWALK CULRVET PER  O TOTAL CONTROL OF THE RESERVED PER STORY OF THE RESERVED P						
НҮГ	FROM ROGRAPH ID	TO ID	AREA	PEAK CIT DISCHARGE PL	Y STORDWO PP3 ATE AVOLUME	T) RUNOFF	TIME TO PEAK		GE = 1
COMMAND IDENTIF	FICATION NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES) (I	HOURS)	ACRE NOTATI	ON
START RAINFALL TYPE= 1 COMPUTE NM HYD	100.00 –	1	.00171	3.83	.128	1.40813	1.500	TIME= RAIN6= 3.511 PER IMP=	.00 2.350 40.00
START RAINFALL TYPE= 1		·						TIME= RAIN6=	.00 1.570
COMPUTE NM HYD START RAINFALL TYPE= 1	110.00 —	1	.00171	2.20	.069	.76370	1.500	2.017 PER IMP= TIME= RAIN6=	40.00 .00 2.350
COMPUTE NM HYD START	100.10 –	1	.00171	4.64	.167	1.83949	1.500	4.250 PER IMP= TIME=	76.00 .00
RAINFALL TYPE= 1 COMPUTE NM HYD FINISH	110.10 –	1	.00171	2.94	.101	1.11276	1.500	RAIN6= 2.692 PER IMP=	1.570 76.00

AREA-N TOP=359.70 BOITOM=147.86 VOLUME=253.78 CF INV.=71.30 LANDSCAPING TOP=332.96 BOTTOM=151.54 GRIEGOS BLVD., NW VOLUME=153.50 CF TOP=196.25 BOTTOM=81.06 VOLUME=138.66 CF LANDSCAPING AREA-G × 4972.73 HIGH POINT 4973.14 BOTTOM=183.30 VOLUME=609.47 CF DEPRESS × 4972.91 VOĽUME=137.49 CF **ANDSCAPING** TOP=154.14 BOTTOM=63.69 VOLUME=103.92 CF 4973.43  $\times 4973.01$ INV=71.50 FUTURE DEVELOPMENT, NOT PART OF THIS PHASE. A SEPARATE LANDSCAPING 72.97
AREA-M GRADING PLAN WILL TOP=474.45 BE REQUIRED FOR BOTTOM=196.23 THIS FUTURE PHASE VOLUME=335.34 CF LANDSCAPING AREA-A TOP=512.77 BOTTOM=298.07 ₹0P=1517.99 VOLUME=405.42 CF VOLUME=1231.58 CF × 4972.92 <del>----4</del>972.5----73.48\ × 4973.25 LANDSC/APING TOP=186.08 BOTTOM=74.78 VOLUME=130.43 CF DEPRESS / LANDSCAPING AREA-C TTOP=/186.08 BOTTOM=74.78 VOLUME=130.43 CF DEPRESS / LANDSCAPING AREA-D TOP=186.08 4974.<sup>50</sup> BOTTOM=74.78 VOLUME=130.43/CF LANDSCAPING AREA-E TOP=1286.52 BOTTOM=653.17 VOLUME=969.85 CF

DEPRESS LANDSCAPING

TOP=412.63

BOTTOM=232.75 VOLUME=322.69 CF

DEPRESS / LANDSCAPING

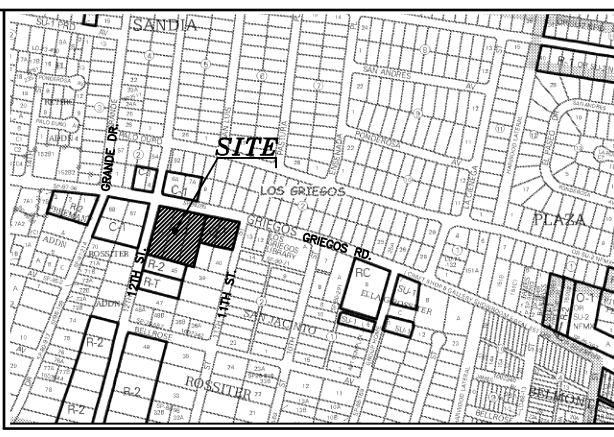
INV.=71.30



- 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) AT EACH WALL, BUILD #4 REBAR AT 3" ON CENTER, TYPICAL.

TOTAL POND AREA PROVIDED = POND A + B + C + D + E + F + G + H + I + J + K + L + M + N = 4,748.24 CF TOTAL PONDING VOLUME REQUIRED (VALLEY)= 0.5 INCHES x AREA =  $(0.5/12 \times 47,533.16) = 1,980.55$  CF

TOTAL PONDING VOLUME REQUIRED (90TH PERCENTILE/FIRST FLUSH) = 0.34 IMCHES x IMPERVIOUS AREA =  $(0.34/12 \times 36,125.2) = 1,023.55$  CF



VICINITY MAP:

F-14-Z

### LEGAL DESCRIPTION: LOT 43-A, ROSSITER ADDITION

CONTAINING 64,435.84 S.F. (1.4792 ACRE) ZONING: C-1 AND O-1 USES

- 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-
- 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

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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.

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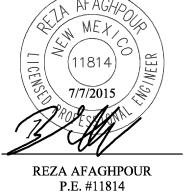
# LEGEND

	EXISTING CONTOUR (MAJOR) EXISTING CONTOUR (MINOR)
	BOUNDARY LINE
¥ 85.46	PROPOSED SPOT ELEVATION
$\times$ 5265.16	EXISTING GRADE
× 5284.43 FL	EXISTING FLOWLINE ELEVATION
	PROPOSED RETAINING WALL
BC=89.08	BOTTOM OF CHANEL

TRW = 91.50TF=88.00

TOP OF RETAINING WALL TOP OF FOOTING

HIGH POINT



201418-GR.DWG

SH-B

SBS CONSTRUCTION AND ENGINEERING, LLC

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

	17 UNIT TOWNHOUSE DEVELOPMENT								
GRADING AND DRAINAGE PLAN									
	DRAWING:	DRAWN BY:	DATE:	SHEET#					
				Q100					

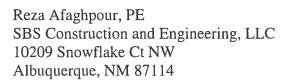
GRAPHIC SCALE

SCALE: 1"=20'

C10207-27-2014

# CITY OF ALBUQUERQUE

July 31, 2015





Re:

17 Unit Townhouse Development

1120 Griegos Rd NW Grading & Drainage Plan

Engineer's Stamp dated: 7-8-15 (F14D058)

Dear Mr. Afaghpour,

Based upon the information provided in your submittal received 7/17/2015, 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.

PO Box 1293

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely

Rita Harmon, P.E.

Senior Engineer

Planning Department

RR/RH

C:

email