CITY OF ALBUQUERQUE



January 20, 2015

Mr. Reza Afaghpour, PE SBS Construction 10209 Snowflake Court NW Albuquerque, NM 87114

Re: 4 Unit Townhouse Development

1203 Griegos Road NW Grading and Drainage Plan

Engineer's Date 1-15-14 (F14D070)

Dear Mr. Afaghpour,

Based upon the information provided in your submittal received 1-16-14, the above referenced plan is approved Building Permit and SO-19. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

The SO-19 Permit is required for construction within the City Right of Way. A copy of this approval letter must be on hand when applying for the Excavation Permit.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3994.

Albuquerque

PO Box 1293

New Mexico 87103

C:

e-mail

www.cabq.gov

Sincerely,

Amy L. D. Niese, P.F.

Senior Engineer, Hydrology

Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

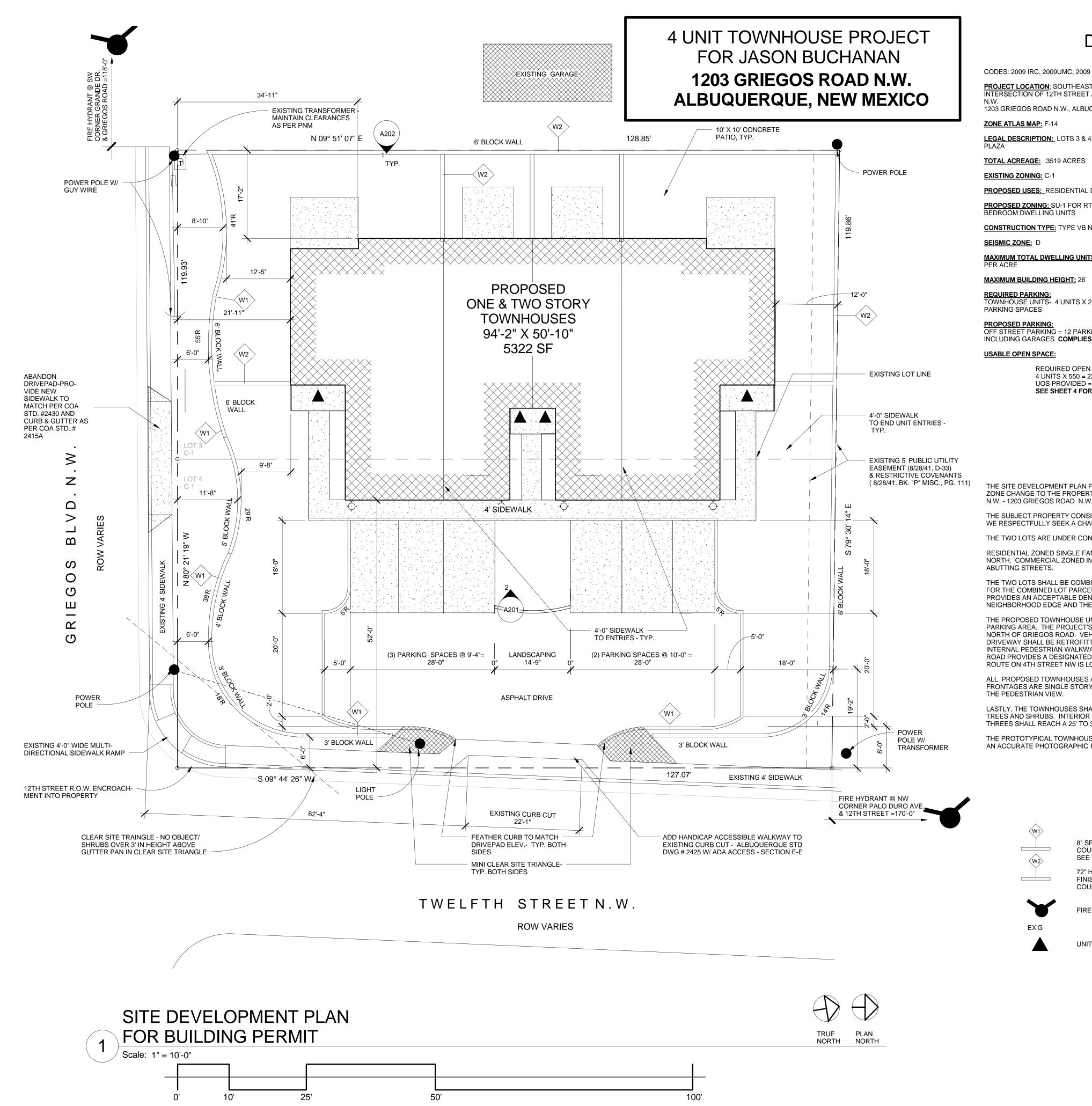
DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title:		Building Permit #:		City Drainage #:
DRB#: E	PC#:		Work Order#:	:
Legal Description:				
City Address:				
			Contact:	
Address:				
Phone#: Fa			E-mail:	
Owner:			Contact:	
Address:			·	
Phone#: Fa	ax#:		E-mail:	
Architect:			Contact:	
Address:				
Phone#: Fa	ax#:		E-mail:	
Surveyor:			Contact:	
Address:				
Phone#: Fa	ax#:		E-mail:	
Contractor:			Contact:	
Address:				
Phone#: Fa	ax#:		E-mail:	
TYPE OF SUBMITTAL:	C	HECK TYPE OF APPROVA	AL/ACCEPTA	ANCE SOUGHT:
DRAINAGE REPORT		SIA/FINANCIAL GUARAN	ΓEE RELEASE	E
DRAINAGE PLAN 1st SUBMITTAL		PRELIMINARY PLAT APPR	ROVAL	
DRAINAGE PLAN RESUBMITTAL		S. DEV. PLAN FOR SUB'D	APPROVAL	
CONCEPTUAL G & D PLAN		S. DEV. FOR BLDG. PERMI	T APPROVAL	
GRADING PLAN		SECTOR PLAN APPROVAL		
EROSION & SEDIMENT CONTROL PLAN	(ESC)	FINAL PLAT APPROVAL		
ENGINEER'S CERT (HYDROLOGY)		CERTIFICATE OF OCCUPA	NCY (PERM)	
CLOMR/LOMR		CERTIFICATE OF OCCUPA	NCY (TCL TE	EMP)
TRAFFIC CIRCULATION LAYOUT (TCL)		FOUNDATION PERMIT AP	PROVAL	
ENGINEER'S CERT (TCL)		BUILDING PERMIT APPRO	VAL	
ENGINEER'S CERT (DRB SITE PLAN)		GRADING PERMIT APPRO	VAL	SO-19 APPROVAL
ENGINEER'S CERT (ESC)		PAVING PERMIT APPROVA	AL	ESC PERMIT APPROVAL
SO-19		WORK ORDER APPROVAL		ESC CERT. ACCEPTANCE
OTHER (SPECIFY)		GRADING CERTIFICATION	1	OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED	D:	Yes No Co	py Provided	
DATE SUBMITTED:	· · · · · · · · · · · · · · · · · · ·			
D	C1. 4::-: D1-41	-11 h	1:44-1 Th	

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
- **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development



DESIGN CRITERIA

CODES: 2009 IRC, 2009UMC, 2009 UPC, 2014NEC <u>PROJECT LOCATION:</u> SOUTHEAST CORNEOF INTERSECTION OF 12TH STREET AND GRIEGOS ROAD

1203 GRIEGOS ROAD N.W., ALBUQUERQUE, NM

LEGAL DESCRIPTION: LOTS 3 & 4, BLOCK 2, SANDIA PLAZA

TOTAL ACREAGE: .3519 ACRES

EXISTING ZONING: C-1

PROPOSED USES: RESIDENTIAL DWELLINGS

PROPOSED ZONING: SU-1 FOR RT - MAXIMUM 24 TWO BEDROOM DWELLING UNITS

CONSTRUCTION TYPE: TYPE VB NON SPRINKLERED **SEISMIC ZONE:** D

MAXIMUM TOTAL DWELLING UNITS: 4 UNITS - 11 DU'S PER ACRE

MAXIMUM BUILDING HEIGHT: 26

TOWNHOUSE UNITS- 4 UNITS X 2 PARKING SPACES = 8 PARKING SPACES

PROPOSED PARKING:
OFF STREET PARKING = 12 PARKING SPACES

USABLE OPEN SPACE:

REQUIRED OPEN SPACE: 4 UNITS X 550 = 2200 SF UOS PROVIDED = 12,045 SF **COMPLIES SEE SHEET 4 FOR UOS PLAN**

LANDSCAPE CALCULATION: SEE SHEET 4

TWO BEDROOM UNITS: FLOOR AREA (EA. UNIT):

LOWER LEVEL HEATED UPPER LEVEL HEATED TOTAL HEATED

GARAGE 264 SF **TOTAL AREA** 1452 SF

THREE BEDROOM UNITS:

GARAGE

FLOOR AREA (EA. UNIT): LOWER LEVEL HEATED UPPER LEVEL HEATED

424 SF

TOTAL AREA 1897 SF **TOTAL BUILDING AREA:**

BUILDING:

2 X 1188 = **2376 SF HEATED**

2 X 264 = **528 SF GARAGE** (2) THREE BEDROOM UNITS

2 X 1473 = **2946 SF HEATED** 2 X 424 = **848 SF GARAGE**

TOTAL PROJECT HEATED = 5322 SF **TOTAL PROJECT GARAGE = 1376 SF**



VICINITY MAP - ZA MAP F-14

1" = 500'

INTRODUCTION

THE SITE DEVELOPMENT PLAN FOR BUILDING PERMIT SUBMITTAL SHALL SERVE AS THE OWNER'S SUBMITTAL FOR A ZONE CHANGE TO THE PROPERTY LOCATED AT THE NORTHWEST CORNER OF 12TH STREET AND GRIEGOS ROAD N.W. - 1203 GRIEGOS ROAD N.W.

THE SUBJECT PROPERTY CONSISTS OF TWO ADJACENT UNIMPROVED PARCELS, BOTH OF WHICH ARE ZONED C-1. WE RESPECTFULLY SEEK A CHANGE OF ZONE TO SU-1 FOR RT.

THE TWO LOTS ARE UNDER CONTRACT TO MR. JASON BUCHANAN

RESIDENTIAL ZONED SINGLE FAMILY RESIDENCES FRAME THE PROPOSED DEVELOPMENT ON THE WEST AND THE NORTH. COMMERCIAL ZONED IMPROVED USES ARE LOCATED TO THE SOUTH AND THE EAST ACROSS THE ABUTTING STREETS.

THE TWO LOTS SHALL BE COMBINED INTO ONE PARCEL. THE SIX UNIT TOWNHOUSE DEVELOPMENT IS PROPOSED FOR THE COMBINED LOT PARCEL. THE TWO BEDROOM WITH GARAGE, TWO STORY TOWNHOUSE CONFIGURATION PROVIDES AN ACCEPTABLE DENSITY (FAR = .46) RESIDENTIAL USE AT THE INTERFACE BETWEEN THE NEIGHBORHOOD EDGE AND THE TWO LANE COLLECTOR STREET (GRIEGOS ROAD N.W.)

THE PROPOSED TOWNHOUSE UNIT GARAGE ENTRY DRIVEWAYS ARE SITUATED OFF OF A "T" SHAPED PRIVATE PARKING AREA. THE PROJECT'S FRONT SETBACK IS LOCATED OFF OF 12TH STREET, WHICH IS A LOCAL STREET NORTH OF GRIEGOS ROAD. VEHICULAR ACCESS IS PROVIDED VIA AN EXISTING CONCRETE DRIVEWAY. THE DRIVEWAY SHALL BE RETROFITTED TO ACCOMMODATE HANDICAP ACCESS ACROSS IT'S WIDTH. FOUR FOOT WIDE INTERNAL PEDESTRIAN WALKWAYS CONNECT THE UNITS FROM NORTH TO SOUTH. THE BICYCLE LANE ON GRIEGOS ROAD PROVIDES A DESIGNATED VEHICULAR LANE FOR OCCUPANT'S USE. THE CITY OF ALBUQUERQUE BUS TRANSIT ROUTE ON 4TH STREET NW IS LOCATED ONE-HALF MILE FROM THE SITE; WELL WITHIN REACH VIA BICYCLE.

ALL PROPOSED TOWNHOUSES ARE TWO STORY WITH SINGLE STORY FEATURES. ALL VEHICULAR PARKING FRONTAGES ARE SINGLE STORY: THUS, A MORE GRADUAL BUILDING ELEVATION TRANSITION IS ACHIEVED FROM THE PEDESTRIAN VIEW.

LASTLY, THE TOWNHOUSES SHALL BE SET OFF FROM THE STREET FRONTAGES BY MEANDERING YARD WALLS, TREES AND SHRUBS. INTERIOR LOT UNIT DRIVEWAYS WILL BE SEPARATED BY LANDSCAPE AREAS WITH TREES. THREES SHALL REACH A 25' TO 35' SPREAD AT MATURITY.

THE PROTOTYPICAL TOWNHOUSE UNIT PHOTO IS ATTACHED. THE TENTH AND CANDELARIA NW PROJECT PROVIDES AN ACCURATE PHOTOGRAPHIC RENDERING FOR REFERENCE.

PROJECT NUMBER: **APPLICATION NUMBERS:**

Is an Infrastructure List required? () Yes () No If Yes, then

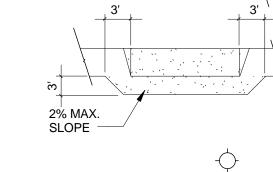
set of approved DRC plans with a work order is required for any construction within Public Right-of-Way or for construction of public improvements. DRB SITE DEVELOPMENT PLAN APPROVAL:

Traffic Engineer, Transportation Division Date **Utilities Development** Date Parks & Recreation Department Date City Engineer Date * Environmental Health Department (conditional) Date Date Solid Waste Management DRB Chairperson, Planning Department Date

SITE PLAN LEGEND



UNIT ENTRY



NEW CONCRETE SIDEWALK -NEW CONCRETE SITE WORK DRIVEPAD - COA STANDARD DETAIL DWG 2425 - SECTION E-E - ADA ACCESSIBLE. SEE SITE PLAN FOR WIDTH

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

SHEET LIST

Sheet Number

Sheet Name

A201 A202

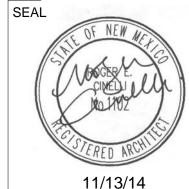
SITE DEVELOPMENT PLAN FOR BUILDING PERMIT **EXTERIOR ELEVATIONS** EXTERIOR ELEVATIONS



PROJECT TITLE:

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. NOV. 13, 2014 BUCH 6C DRAWING NO.

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	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).

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 EXISITNG 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

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 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 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

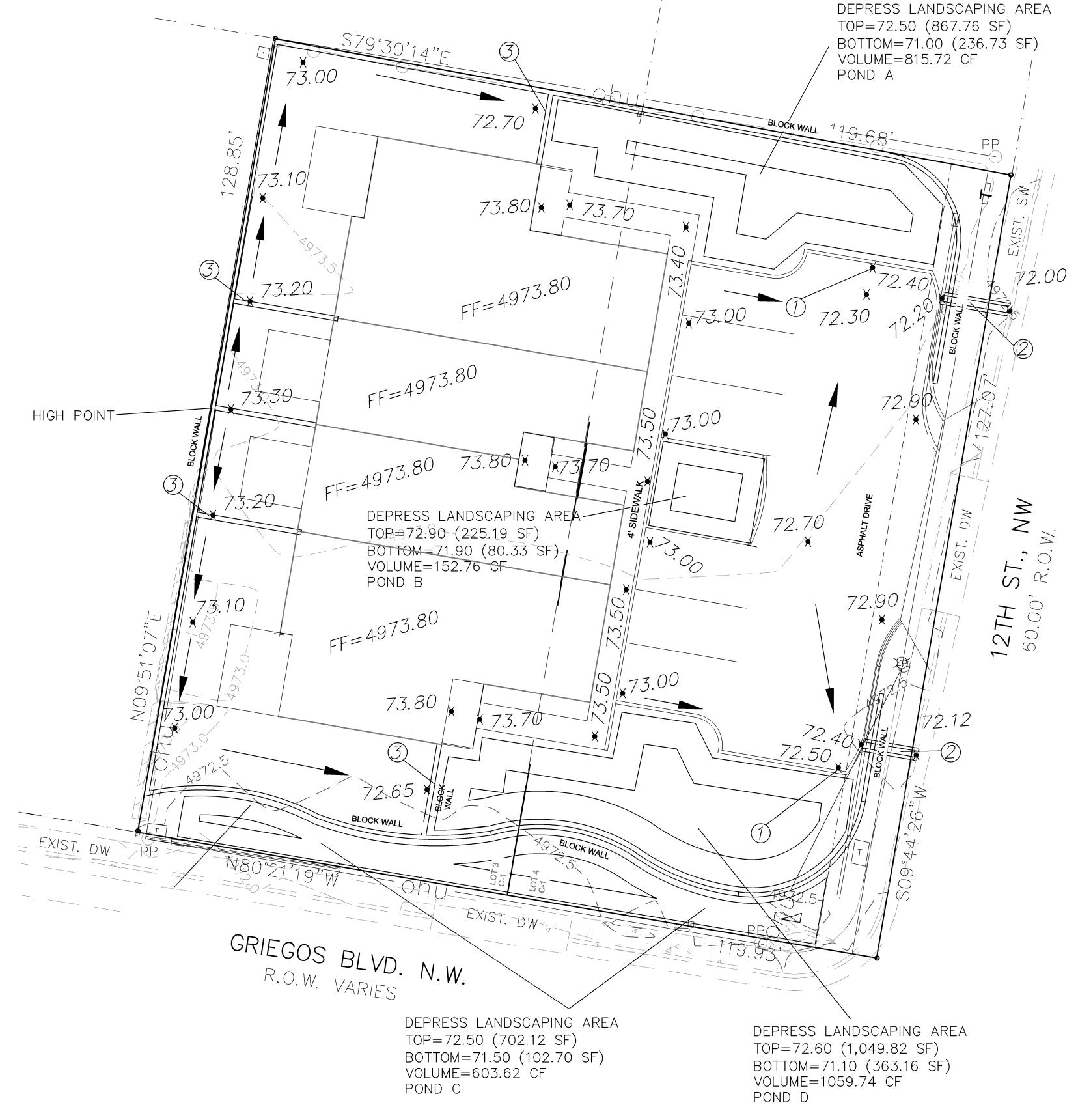
COMPUTE NM HYD ID=1 HYD NO=110.1 AREA=0.000550 SQ MI PER A=0.00 PER B=10.00 PER C=15.00 PER D=65.00

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

FINISH

FINISH

AHYMO PROGRAM SUMM INPUT FILE = 12th.txt	ARY TABLE	(AHY	MO_97)	_	– VI	ERSION: 199			MON/DAY/YR) =12/22/20 HYMO-I-9702c01000R31-	
	OROGRAPH FICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES) (HO	TIME TO PEAK DURS)		1
START RAINFALL TYPE= 1 COMPUTE NM HYD START	100.00	_	1	.00055	.81	.023	.77821	1.533	RAIN6= 2.33 2.301 PER IMP= .00 TIME= .0	0 00
RAINFALL TYPE= 1 COMPUTE NM HYD START	110.00	_	1	.00055	.33	.008	.27828	1.533)0 00
RAINFALL TYPE= 1 COMPUTE NM HYD START RAINFALL TYPE= 1	100.10	_	1	.00055	1.48	.053	1.79770	1.500	RAIN6= 2.33 4.216 PER IMP= 72.23 TIME= .0 RAIN6= 1.53	2 00
COMPUTE NM HYD	110.10	_	1	.00055	.93	.032	1.07842	1.500	2.650 PER IMP= 72.2	

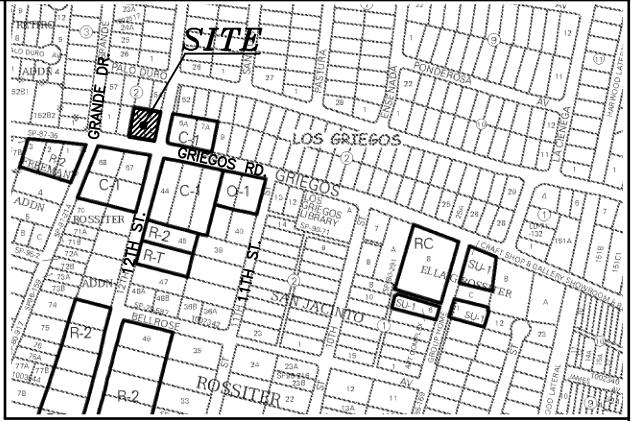


O NOTES:

- 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)

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
- 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



F-14-Z

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
- DOUGLAS, HAVING AN ELEVATION OF 4975.078 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

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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

× 5284.43 EXISTING FLOWLINE ELEVATION

BC=89.08 BOTTOM OF CHANEL

TRW = 91.50TOP OF RETAINING WALL

TF=88.00 TOP OF FOOTING

PROPOSED RETAINING WALL

HIGH POINT

SBS CONSTRUCTION

AND ENGINEERING, LLC **REZA AFAGHPOUR**

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

GRAPHIC SCALE 4 UNIT TOWNHOUSE DEVELOPMENT DRAWN BY: DRAWING:

P.E. #11814

SCALE: 1"=10'

GRADING AND DRAINAGE PLAN DATE: SHEET# 201418-GR.DWG SH-B 12-22-2014