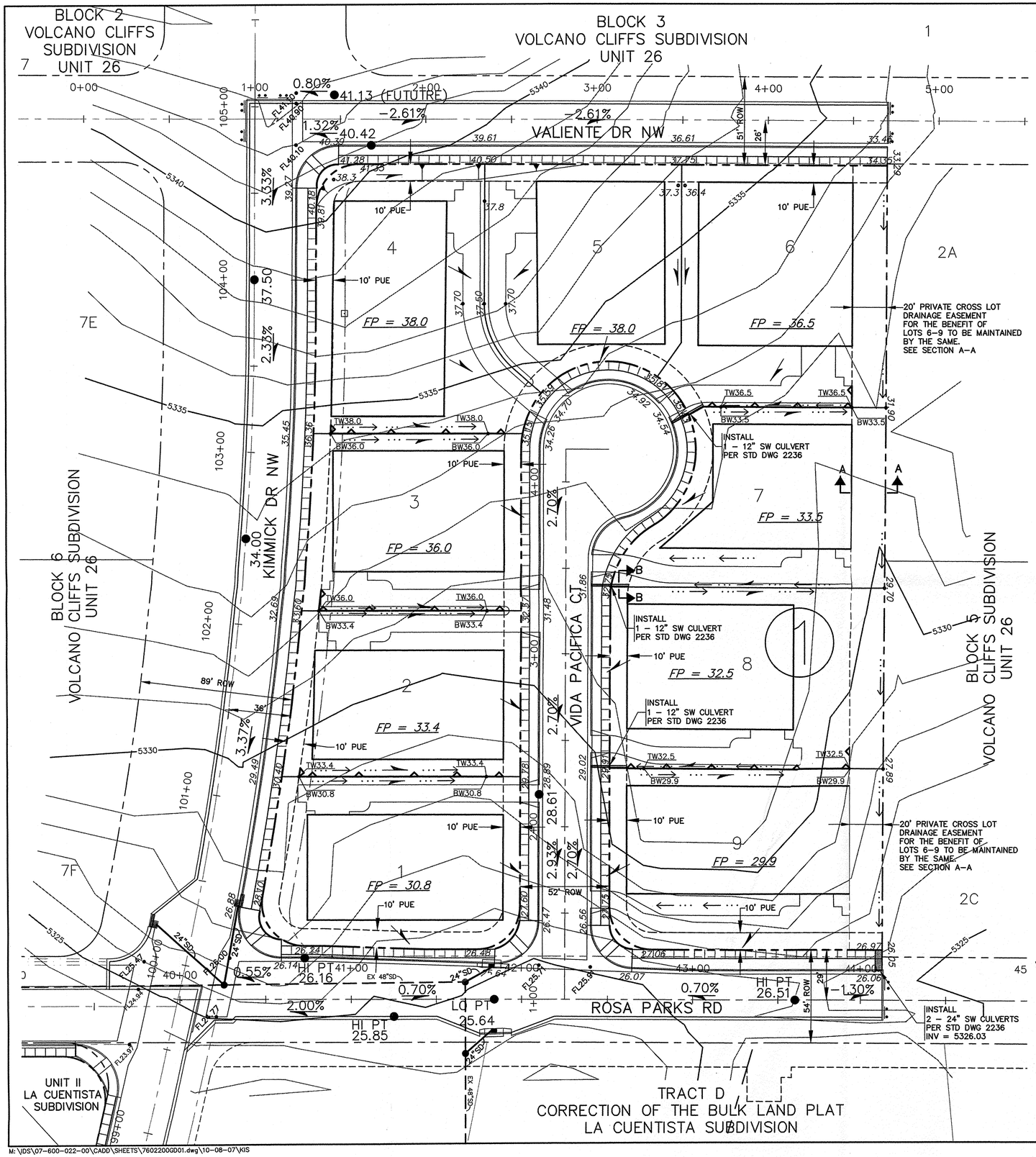


DRAINAGE REPORT

Site Description
The project site, Tierra Buena Estates, is located at the intersection of Rosa Parks Rd NW and Kimmick Dr NW. It is Lot 1, Block 5, Unit 26 of Volcano Cliffs Subdivision. Tierra Buena Estates is bounded on the north by Valiente Rd, on the east by Lot 2, Block 5, Unit 26 of Volcano Cliffs Subdivision, on the south by Rosa Parks Rd NW, and on the west by Kimick Dr. NW.

Legal Description
Tierra Buena Estates

Flood Hazard Zones
The site is not located in a flood zone as shown by Panel 112.

Existing Conditions
Majority of the site is located in Basin 302 and a portion in Basin 303 as shown on the "La Cuentista Subdivision Proposed Conditions Drainage Basin Map" by Wilson & Co. dated January 2007. This map is part of "A Supplement to the Drainage Report for La Cuentista Subdivision" by Wilson & Co., dated November 2003. The site is naturally graded southeast with existing flows of 4.7 cfs.

Proposed Conditions
The proposed development of Tierra Buena Estates will continue to adhere to the general drainage patterns established on the approved "A Supplement to the Drainage Report for La Cuentista Subdivision" by Wilson & Co., dated January 2007. The flows from Tierra Buena Estates will discharge ~12.7 cfs through a 48" RCP SD into a temporary interim detention pond in Basin 214 located in Tract D of the Correction Plat of the Bulk Land Plat of La Cuentista Subdivision.

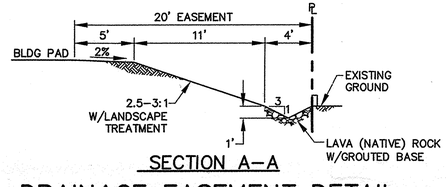
Temporary interim detention ponding in Basin 214 will be utilized to hold flows generated by developed conditions of ~12.7 cfs from Tierra Buena Estates, ~4 cfs from La Cuentista Subdivision–Unit II, and ~117.1 cfs from Pond 6 in Basin 302, for a total of 133.8 cfs.

Developed Condition results are as follows:

1) Land Treatment – 45.8% Land Treatment D, 47.8% Land Treatment C, 6.35% Land Treatment B, and 0% Land Treatment A.

The future development of Tract D of the Correction Plat of the Bulk Land Plat of La Cuentista Subdivision (La Cuentista Subdivision–Unit II) will construct the necessary permanent Pond 8 with an outlet structure to the Mariposa Channel located at the SW corner of Basin 214. The temporary interim detention pond, will be eliminated upon the construction of Tract D with the flows discharging into the proposed Pond 8.

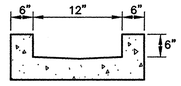
Conclusion
The development of this site is designed to substantially adhere to "A Supplement to the Drainage Report for La Cuentista Subdivision" by Wilson & Company, Inc., dated January 2007. This document indicates Pond 8 has a storage capacity of 257 cfs and an ultimate discharge of 106 cfs into the Mariposa Channel.



SECTION A–A

DRAINAGE EASEMENT DETAIL

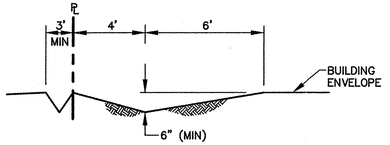
SCALE: 1" = 6'



SECTION B–B

CONCRETE GUTTER DETAIL

SCALE: NTS



TYPICAL SWALE DETAIL

SCALE: NTS

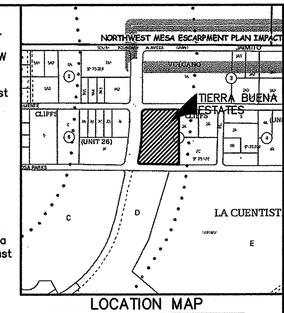
LEGEND

- RIGHT OF WAY
- FP = 00.0 — FINISH PAD ELEVATION
- FLOW DIRECTION
- ●30.34 / 25.9 — SPOT ELEVATION (FLOWLINE LT & RT) / LOT GRADING SPOT ELEVATION
- RETAINING WALL
- SWALE

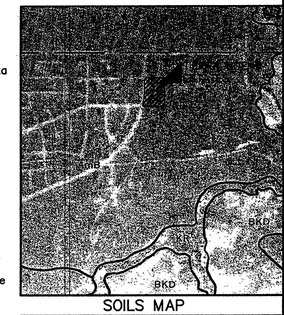
GRAPHIC SCALE

30 0 15 30 60 120

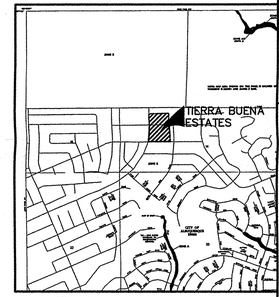
(IN FEET)
1 inch = 30 ft.



LOCATION MAP
ZONE ATLAS MAP NO. C–11



SOILS MAP
REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY SHEET NO. 20



FLOOD INSURANCE MAP
REFERENCE: FLOOD INSURANCE STUDY PANEL 112

LEGAL DESCRIPTION
TIERRA BUENA ESTATES

BENCHMARK
ACS 1 ¾" ALUMINUM DISK STAMPED "ACS BM 5–D11", LOCATED 72' ± ESE OF THE CENTER OF THE CUL–DE–SAC AT THE SOUTH END OF RIDGEWAY DR. NW, EPOXIED TO LAVA ROCK IN OUTCROPPING.
ELEVATION = 5267.27 FT. NGVD 29 U.S. FEET

AS–BUILT INFORMATION
CONTRACTOR — DATE
WORK DONE BY — DATE
INSPECTOR'S AS–BUILT MARKINGS BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO–FILM INFORMATION — DATE
RECORDED BY — NO.

BENCH MARKS

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
	AERIAL MAPPING,	WCI 05/01
	BOUNDARY,	WCI 06/01
	BOUNDARY,	WCI 10/01

ENGINEER'S SEAL
DAVID B. KELLY 11955 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY KIS DATE SEPT 2007
DRAWN BY OBR DATE SEPT 2007
CHECKED BY DSA DATE SEPT 2007

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TIERRA BUENA ESTATES
GRADING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
	RECEIVED OCT 09 2007 HYDROLOGY SECTION			

City Project No.	Zone Map No.	Drawing	Sheet
	C–11	1 of 1	

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WCI #0760002200
OCT 2007
WILSON & COMPANY