**KEYED NOTES:** 

1. CONSTRUCT NEW DOUBLE 24" WIDE SIDEWALK CULVERTS PER CITY

2. BUILD 8' WIDE COMPACTED CRUSHER FINE RUNNING PATH.

MAXIMUM SLOPE 2% ANY DIRECTION. 3. GRADE EARTHEN SWALE TO DRAIN.

4. NEW SIGN SEE ARCHITECTURAL DETAILS.

EXISTING CONCRETE SIDEWALK TO REMAIN. 7. DRAINAGE BASIN BOUNDARY - TYPICAL.

PROPOSED GRASS PLAY FIELDS.

OF ALBUQUERQUE STANDARD DRAWING 2236, LATEST REVISION.



# **FLOODPLAIN**

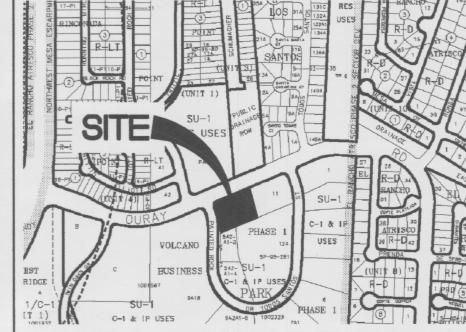
THE PROPERTY SHOWN HEREON DOES NOT LIE WITHIN ANY DESIGNATED FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, COMMUNITY-PANEL NO. 35001C0326 J; EFFECTIVE DATE NOVEMBER 4, 2016

# LEGAL DESCRIPTION

TRACT 5A2-A1-2
VOLCANO BUSINESS PARK ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

# **ACS BENCHMARK**

ACS MONUMENT "9-G10", BEING AN ACS MONUMENT, WITH AN ELEVATION PUBLISHED BY THE CITY SURVEYOR



## VICINITY MAP G-10-Z

# **SURVEY NOTES**

FIELD SURVEY BY: ANTHONY L. HARRIS 333 LOMAS BLVD. NE ALBUQUERQUE NM 87102 SURVEY DATE: AUGUST 2016 PHONE: (505) 998-0303 FAX: (505) 998-0306

RESPONSIBILITY OF THE CONTRACTOR TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.

THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE USED BY THE OWNER AS SUCH.

### DRAINAGE DISCUSSION

THIS SITE, LOCATED IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF BOB McCANNON PARKWAY NW AND PAINTED ROCK DRIVE NW. THE SITE IS SLIGHTLY OVER 1 ACRE AND IS CURRENTLY NOT DEVELOPED. THE PARCELS TO THE WEST AND SOUTH ARE DEVELOPED. THE PROPOSED DEVELOPMENT ON THIS PARCEL IS A PLAYGROND TO ACCOMPANY THE EXISTING HORIZON ACADEMY SCHOOL TO THE SOUTHEAST. NO BUILDINGS ARE PROPOSED.

#### **METHODOLOGY**

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

### **PRECIPITATION**

THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORMS FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 1 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

### EXISTING DRAINAGE

THE EXISTING SITE DRAINS VIA SHALLOW OVERLAND FLOW TOWARD THE NORTHEAST OVER THE CURB ON BOB McCANNON PARKWAY. IT FLOWS IN THE STREET SECTION EAST TO THE EXISTING 42" STORM DRAIN. THE DEVELOPED SITE TO THE SOUTH DRAINS EAST VIA AND EXISTING RIPRAP CHANNEL THAT RUNS ALONG THE NORTH BOUNDARY (SOUTH BOUNDARY OF THIS PARCEL) OF THAT PARCEL TO TODOS SANTOS DRIVE NW WHERE IT JOINS THE FLOW FROM THIS SITE. THE RUNOFF FROM THE HORIZON SCHOOL SITE TO THE SOUTHEAST DRAINS TO TODOS SANTOS DRIVE AS WELL.

LARRY READ & ASSOCIATES STUDIED THIS AREA IN 2003 AND REVISED THE EXISTING DRAINAGE MASTER PLAN (G10D29) TO SHOW THE EXISTING STORM DRAIN SYSTEM THAT SERVES THIS AREA HAD SUFFICIENT CAPACITY TO ALLOW FREE DISCHARGE FROM THIS SITE.

THE EXISTING DEVELOPED SITE TYPICALLY DRAINS FROM EAST TOWARD THE RIVER TO THE WEST AT A SLOPE OF ABOUT 4%. JUST EAST OF THE EXISTING OFFICE BUILDING A RIPRAP SWALE INTERCEPTS THE FLOWS AND ROUTES THEM NORTH TO A SMALL ONSITE RETENTION POND. PORTIONS OF THE PAVED PARKING AREAS TO THE NORTH AND SOUTH OF THE OFFICE BUILDING SHEET FLOW WEST INTO THE ROADSIDE CHANNEL ALONG READING AVENUE.

### DEVELOPED CONDITION

/6-HR + (AD)(P10DAY - P6-HR)/12 QPB)(AB) + (QPC)(AC) + (QPD)(AD)

THE PROPOSED GRADING FOR THIS SITE MAINTAINS THE NORTHEASTERN DIRECTION SHALLOW SHEET FLOW DIRECTION THAT NOW EXISTS. HOWEVER A DOUBLE 24" WIDE SIDEWALK CULVERT IS PLANNED I THE NORTHEAST CORNER OF THE SITE TO ALLOW THE RUNOFF TO DRAIN UNDER THE SIDEWALK. IN COMPLIANCE WITH CURRENT CITY REQUIREMENTS, ALL RUNOFF FROM BASIN A (INSIDE THE TRACK) IS DIRECTED THROUGH A SHALLOW POND INTENDED TO HELP KEEP SEDIMENT AND CONTAMINANTS IN THE RUNOFF STREAM FROM EXITING THE SITE.

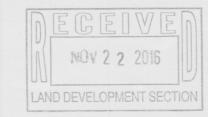
THE PROPOSED DEVELOPMENT IS A CRUSHER FINE RUNNING TRACK AROUND THE PERIMETER OF THE PARCEL WITH GRASS PLAY AREAS INSIDE THE TRACK.

### 100-YEAR HYDROLOGIC CALCULATIONS

		L	AND TRE	EATMEN	T	WEIGHTED					
BASIN	AREA	Α	В	С	D	E	V (6-hr)	V (6-hr)	V(10 day)	V(10 day)	Q
#	(acre)	(%)	(%)	(%)	(%)	(in)	(acre-ft)	(cu-ft)	(acre-ft)	(cu-ft)	(cfs)
					EXISTI	NG CONDITION	ONS				
BASIN A	0.73	100.00	0.00	0.00	0.00	0.44	0.03	1,166	0.03	1,166	0.94
BASIN B	0.30	100.00	0.00	0.00	0.00	0.44	0.01	471	0.01	471	0.38
					PROPO:	SED CONDIT	TIONS				
BASIN A	0.73	0.00	83.40	16.60	0.00	0.72	0.04	1,916	0.04	1,916	1.58
BASIN B	0.30	0.00	50.00	50.00	0.00	0.83	0.02	889	0.02	889	0.72
EXCESS PR	RECIP.	0.44	0.67	0.99	1.97	Ei (in)					
PEAK DISCH	HARGE	1.29	2.03	2.87	4.37	QPi (cfs)					
									ZONE =	1	
A) + (EB)(%B	3) + (EC)	(%C) + (E	ED)(%D)						P6-HR (in.)	2.20	
(WEIGHTED	E)(ARE	A)/12						F	24-HR (in.)	2.66	

### WATER QUALITY PONDING

PONDID	BASIN ID	CONTRIBUTING AREA (SQ-FT)	REQUIRED POI	IDING	( 0.44/12*AREA )	PONDING VOLUME PROVIDED ( CU-FT)
1	A	32016	( " /	0.44	1174	1525
TOTAL		32016			1174	1525

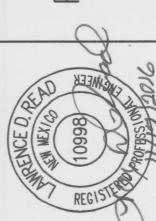


P10DAY (in.) 3.67

Blvd. NE Sox 107 Mexico 87113 (505) 237-842

0N - 0 W 4

ADIN GR 0 YGR V 1



NO TRU ON ORIZ ALLRI

응 SHEET