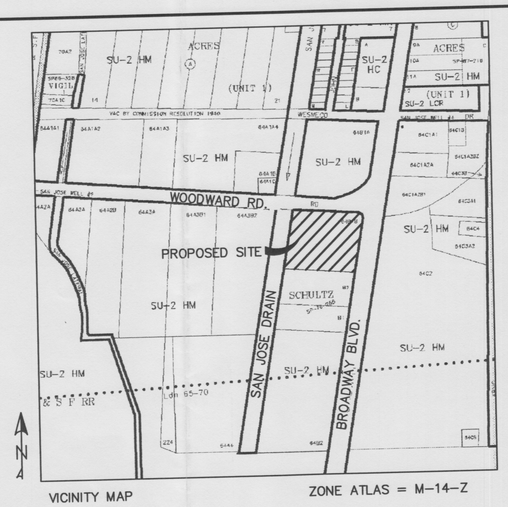
BENCH MARK

ACS BRASS TABKET STANOED "5-M14 1974"
LOCATED AT THE INTERSECTION OF
BROADWAY BLVD. AND WOODWARD AVE.
X 381,544.83 Y= 1,473,267.10
G-G = 0.9996800 ΔX= 00° 13' 38"
(NAD 1927/SLD 1929)
ELEVATION= 4937.592



VICINITY MAP

ZONE ATLAS = M-14-Z

DRAINAGE PLAN

LOCATION AND DESCRIPTION

THE PROPOSED SITE IS A PORTION OF TRACT A, SOUTH BROADWAY INDUSTRIAL ACRES. THE SITE IS LOCATED AT THE SOUTHWEST CORNER OF BROADWAY AND WOODWARD. THE SAN JOSE DRAIN BORDERS THE SITE TO THE WEST. THE LEASED AREA OF THE SITE IS 1.50 ACRES. THE SITE IS CURRENTLY A FUELING STATION WITH CONCRETE AND ASPHALT PAVING ADJACENT TO THE PUMPS.

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED NOVEMBER 19, 2003 (PANEL NO. 35001C0342 D) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN. THE SAN JOSE DRAIN DIRECTLY TO THE WEST OF THE SITE IS DESIGNATED AS A FLOOD HAZARD ZONE A.

EXISTING DRAINAGE CONDITIONS:

THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL SECTION 22.2, HYDROLOGY. THE PROPERTY IS LOCATED IN ZONE 2. THE 100-YEAR, 6-HOUR STORM IS 2.35 INCHES.

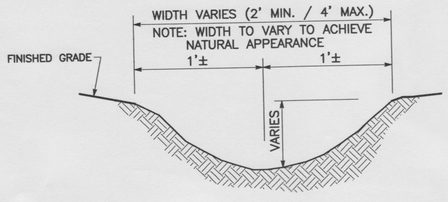
A PORTION OF THE SITE CURRENTLY DRAINS TO A RETENTION POND LOCATED ADJACENT TO WOODWARD. THE REMAINDER OF THE SITE SHOULD DRAIN TO AN EXISTING 18" CULVERT LOCATED AT THE SOUTHWEST CORNER, WHICH DRAINS TO THE SAN JOSE DRAIN.

DEVELOPED DRAINAGE CONDITIONS:

THE PROPERTY HAS BEEN DIVIDED INTO TWO DRAINAGE BASINS. BASIN 100 WILL DRAIN IN A EARTH SWALE TO THE EXISTING 18" CULVERT AT THE SOUTHWEST CORNER OF THE PROPERTY. A TOTAL OF 2.0 CFS WILL DRAIN FROM BASIN 100 TO THE SAN JOSE DRAIN. BASIN 200 WILL CONTINUE TO DRIAN TO THE EXISTING RETENTION POND LOCATED ADJACENT TO WOODWARD. THE POND WILL BE EXPANDED TO RETAIN THE 100-YEAR, 10-DAY VOLUME. THE TOTAL 100-YEAR, 10-DAY VOLUME IS 8300 CUBIC-FEET.

100-YEAR HYDROLOGIC CALCULATIONS

BASIN ID	AREA (ac.)	LAND TREATMENT A	B	C	D	PEAK FLOW (cfs)	RUNOFF 10-DAY (cfs)
EXISTING CONDITIONS							
100	0.70	0.46	–	–	0.24	1.85	4126
200	0.80	–	0.17	0.13	0.50	3.15	7766
PROPOSED CONDITIONS							
100	0.70	0.41	–	–	0.29	2.00	4705
200	0.80	–	0.12	0.13	0.55	3.27	8300



TYPICAL EARTHEN SWALE DETAIL

LEGEND

99.9 ●	SPOT ELEVATIONS
	EXIST. MAJOR CONTOURS
	EXIST. MINOR CONTOURS
	PROPOSED 6" CURB AND GUTTER
	PROPOSED 6" CURB AND GUTTER
	FLOW DIRECTION
	PROPOSED SWALE AND FLOW DIRECTION
	PROPOSED BASIN
B-100	PROPOSED BASIN NUMBER

N

SCALE 1"=30'

RECEIVED FEB 08 2005 HYDROLOGY SECTION

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4500 JUAN TABO NE, SUITE C
ALBUQUERQUE, NEW MEXICO 87111
PHONE: (505) 271-2199
FAX: (505) 237-8422

NO.	REVISION	BY	DATE

PROJECT:
DATE:
HORIZ. SCALE:
VERT. SCALE:
DRAWN BY: BLN
CHECKED BY:
APPROVED BY:
FILE:

DUKE CITY DISTRIBUTING

GRADING & DRAINAGE PLAN

CITY/COUNTY REVIEW

DEPARTMENT	SIGN-OFF	DATE
WASTEWATER MGMT. DIV.		
WATER SERVICES		
SUBDIVISION ENG.		
STREETS		
TRAFFIC		

FOR CITY/COUNTY USE ONLY

SHEET No. 1

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