



VICINITY MAP
ZONE ATLAS PAGE K-15-Z FINAL DRAINAGE MANAGEMENT PLAN

The purpose of this submittal is to present a final drainage and grading plan for the proposed Heart Institute Medical Center Office Building project. The site consists of approximately 2.33 acres. The project is being submitted for building permit approval. The purpose of this drainage management engineer plan is to support hydrology department final building permit and S.O.19 approval.

The site's located between Elm Street to the west and the I-25 frontage road to the east, Martin Luther King Blvd. is located about a block to the south. (Zone Atlas Map K-15-Z)

The site is currently a parking lot being used by nearby hospitals. An existing building located in the southeast corner of the site will be demolished. The site is a 92% impervious surface and generates about 10.6 cfs conveyed by sheet flow to the west and free discharging to Elm Street. The approved drainage report prepared for The Heart Hospital in June 1998 (K15/D6D) included an existing conditions basin map for the St. Joseph Medical Complex. Basin 'A' of that document covers the area where most of the improvements for this project are proposed.

> East of the proposed development is the I-25 southbound frontage road. There is a slope between the fromage road and the proposed development that drains onto this site. The upper reach of the basin ista concrete wall barrier along the west side of the frontage road. Drainage east of the barrier is conveyed south within the frontage road. The slope is covered with landscape gravel and, for hycologic purposes, was considered land treatment 'C'. The offsite drainage area consists of two basin. Basin 'A' is the northern most and has an area of 0.19 acres and generates a Q100 of 0.6 cfs canage for this basin enters the site and flows north to the existing heart hospital and ultimate) to Elm Street. The replat proposed with this project provides for reciprical cross-lot drainage easements on both the heart hospital tract and the medical office building tract. Basin 'B' has an area of 0.32 acres and generates a Q<sub>100</sub> of 1.0 cfs. This basin drains westerly onto Elm Street. Drainage patterns between the current development and proposed development are nearly identical No additional offsite drainage will result from this development.

## III. PROPOSED HYDROLOGIC CONDITIONS

This project proposes to construct a new medical office building and parking structure. Drainage analysis for this project was based on the DPM Section 22.2 and is located within zone 2. Since all of the dialnage from the site goes to Elm Street, a single drainage basin was used for the analysis of this ste. Some additional landscaping areas will be provided, reducing impervious surface areas to 90%. This results in a decreased peak discharge of 10.5 cfs. The upper level parking structure will sheet drain to the east to the proposed driveway which will then drain to the south, then west t Elm Street. The office building roofs will drain to the west. This proposed development results in a slight decrease in the overall discharge from this site.

This final drainage management plan proposes concepts that are in compliance with Heart Hospital of New Mexico Drainage Report (K15/D6D) and city standards. With this submittal, we are seeking building permit and S.O. 19 approval.

Heart Institue Medical Office Building BASIN CALCULATIONS							
***************************************			Onsit	e Basin Data	Table		
three ef-	Area Area Land Treatment Percentages						Q(100)
	(SQ. FT)	(AC.)	Α	В	C	D	(CFS)
EXISTING	101676.7	2.33	0.00%	3.00%	5.00%	92.00%	10.62
PROPOSED	101676.7	2.33	0.00%	5.00%	5.00%	90.00%	10.51
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			Offsite	e Basin Data	Table		
Basin 'A	8290	0.19	0.00%	0.00%	100.00%	0.00%	0.60
Basin 'B'	13800	0.32	0.00%	0.00%	100.00%	0.00%	0.99
This ta	ble is based	on the D	PM Section	22.2, Zone:2			

## LEGAL DESCRIPTION

EXIST: TRACT 2B ST JOSEPH'S HOSPITAL COMPLEX

PROPOSED: TRACT 2B-1 ST JOSEPH'S HOSPITAL COMPLEX



Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

interiors planning engineerind

6801 Jefferson NE Suite 100 Albuquerque, NM 87109 505 761-9700 fax 761-4222 dps@dpsabq.com

architect

SHELL PACKAGE BUILDING PERMIT NOT FOR CONSTRUCTION



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revisions

drawn by reviewed by

7/23/02 020227 roject no. drawing name

BASIN MAP & FINAL DRAINAGE **MANAGEMENT** PLAN

sheet no.