

Headline Road. This extension

of drainage facilities may be

performed in phases, i.e.,

each development will

construct only its required portion of the facility, in

accordance with the Drainage

Ordinance and approved site-

specific drainage plans.

10. The high point in Headline Blvd. is located at the Lang Ave. intersection.

to flow north on Headline Blvd.

This condition will cause a flow split. Approximately 37 cfs is assumed

REVISED DRAINAGE MANAGEMENT PLAN FOR: REVISED: NOVEMBER, 1990

PREPARED BY: BOHANNAN-HUSTON, INC. The purpose of this revised drainage management plan is to update the plan

to reflect the development of Journal Center since the plan was first approved in 1984. Since that time, Journal Center has been replatted, new streets constructed and new businesses have moved in. All new development has conformed to the 1984 plan and individual development plans have been approved by the City. The drainage concepts and basins remain substantially identical to the 1984 drainage management plan.

1984 TEXT The purpose of this plan is to outline drainage patterns, flow rates and facility capacities for the Journal Center Industrial/Commercial Park. The plan also serves to update recommendations made in an October 1980 report entitled Journal Center Interim Drainage Report based on current thinking outlinea in the Drainage Orginance and Development Process Manual (DPM).

It is proposed that runoff from sites be allowed to discharge to street rights-of-way or facilities in a free discharge manner. This runoff will be directed to three primary outfalls: the North Pino Arroyo Channel, Jefferson Street storm drain and Los Angeles Blvd. The North Pino Arroyo is concrete lined with grass free board and discharges runoff into the North Diversion Channel. The Jefferson Street storm drain discharges into the Domingo Baca Arroyo, north of Los Angeles Blvd. Runoff collected in Los Angeles Blvd. discharges into the North Diversion Channel. The accompanying plan identifies flow directions and the location of the primary outfalls.

JOURNAL CENTER

72 RCP S=0003 To Domingo Baca Arroyo

54" RCP_

S=0.0055°

48"RCP_ S=0.0055

48"RCP

AP 6

S = 0.007

PASEO

TRACT IA-3

PROPERTY LINE

WATER BLOCK

DOUBLE 'B' INLET

DOUBLE 'C' INLET

DOUBLE 'D' INLET

BASIN DIVIDE

TRIPLE 'C' INLET

Pino Arroyo MAJOR FLOW DIRECTION & DISCHARGE LOCATION

ORIGINAL PLAN

REVISION NO. 4 NOVEMBER 1990 REVISION NO. 5 DECEMBER 1992

JULY 1984

STORM SEWER & MANHOLE

ANALYSIS POINT

DEVELOPED TRACTS ARE

NOTED AS SUCH

AP2

DEL

TRACT 1A-2

13.4 Ac.

LANG AVENUE -

TRACT IA-4

4.9 Ac.

NORTE

Headline Road access to Paseo del Norte is closed —

Direction

Of Flow

(FORMERLY LOS ANGELES DRIVE)

my

DOMINGO BACA N

SCALE: 1"=200"

ARROYO

TRACT H

TRACT 2A-2A-1

10.8178 AC.

Street Slope= 2.2%

3.1879 Ac.

Additional functions of the updated plan will be to guide engineers in preparing future drainage plans and aiding City review of these future plans. Drainage basins which have been altered slightly have been re-analyzed and are shown in the table below to have no significant nor adverse impact on drainage facilities.

The criteria used for the minor re-analysis performed in this updated plan remained identical to that previously used and approved in the original 1984 plan.

Section 8C of the Drainage Ordinance stipulates that the curb flow line depth shall not exceed 0.5 feet during the 10-year storm in arterial street sections. As the values indicate, this criteria is exceeded at several locations along Jefferson Street.

As provided in Section 6H of the Ordinance, a variance to the requirement outlined in No. 3 is requested for the following reasons:

- Considerable expense has already been applied to the construction of drainage facilities in the area. The Pino Arroyo Channel and Jefferson Street storm sewer represent an investment of approximately 2 million dollars. Design was guided and approved based upon criteria in effect at the time assuming free discharge from all parcels.
- The total length of street over which the criteria is exceeded is approximately 3000 feet. This represents a relatively short distance compared to the total length of Jefferson Street

LOCATION MAP ZONE ATLAS D-17-Z	Los Angeles Blvd. discharges into the North Dive flow directions and the location of the primary outfar Runoff rates and facility capacities are contain three points should be highlighted: 1. Current runoff criteria yields flow rates 2. Approximately 112 cfs will be directed 226 cfs is collected in the storm drain The 112 cfs represents a figure less that its development.	rsion Channel. The accompanying plan identifies alls. ined in the tables below. Based on this information, less than those used in the 1980 report. It to Los Angeles Blvd. during the 100-year storm, system and conveyed to the Domingo Baca Arroyo, in the undeveloped flow rate from the site prior to	ment of approximately 2 million dollars, criteria in effect at the time assuming free d 2. The total length of street over which the c	criteria is exceeded is approximately 3000 feet, compared to the total length of Jefferson Street in the compared to the total length of Jefferson Street in the compared to the total length of Jefferson Street in the compared to the total length of Jefferson Street in the compared to t	48" RCP S= 0.0055 48" RCP S= 0.0055	2.0 Ac. 30"RCP S=0.0227 30"RCP S= 0.0227 Water Block Street Slope=0.0125	TRACT IA-5 3 6 Ac. Water Block AP	TRACT 2A-2A-2 12.9746 AG. Pet Slope = 0 005	TRACT 2A-2A-3 6.1500 AC. OF-I Discharges 37 (100 year storm) cts To Basin (A) (See Note 8 & 9)	
BASIN HYDROLOGY (Deve	eloped Conditions)		T & STORM SEWER HYDRAL	. The state of the		TRACT 5-B-1-a (developed)	AP 3 24" NOP (AP 2)			
BASIN ID	TC (MIN.) (IN/HR.) Q 100 P80 REPORT 10.0 4.7 61 95 10.0 4.7 102 116 10.0 4.7 10.0 4.7 10.0 4.7 10.0 10.0 4.7 10.0 10.0 4.7 10.0 10.0 4.7 10.0 10.0 4.7 10.0 10.0 4.7 10.0 10.0 4.7 10.0 10.0 4.7 10.0 10.0 4.7 10.0 10.0 4.7 10.0 10.0 4.7 10	AP CONTRIB-UTING BASIN(S) CAPACITY CAPACITY	The state of the	ELOW IN ELOW IN COMMENTS	URON	7. O.O.O.O.O. Ac. O.B. 1-b. P. ACT 5C-1B. Reveloped) O.8932 Ac.	THE	Slope-00175 Jefferson CENTER JOURNAL CENTER JOURNAL TRACT 24 (developed) 3.9448Ac Il cfs max from upstream properties 13cfs discharged to Tract 2A-2B3 AP 8 2.9825 Ac TRACT 24 (developed)		
NOTES 1. Basin Hydrology based on DPM		* - See Note #6 ** - Using 1994 DPM Hydrology criteria to calc	culate flows		42 BCP (AP IO)	REAL PROPERTY OF THE PROPERTY		street 8.5000 Ac.		·
c. 'C' for 85% Impervious = 0.80 - Plate 22.2 C-1 d. 100 year rainfall= 2.2 in Plate 22.2 D-1 2. Street capacities determined using DPM Criteria, Chapter 22, Plates 22.3 D-1 thru 22.3 D-4 (DPM Edition, 1984). 3. Storm sewer sized to operate under pressure flow - Plate 22.3 B-5. 4. Q10 = 0.657(Q100) - Plate 22.2 D-1 (DPM Edition, 1984). Discontinuous = 0.80 - Plate 22.2 D-1 OPM Edition, 1984).	TRACT 8F-1 2.6440 Ac. charges directly to rth Diversion Channel TOA c. Rundow	conveyed to Arroyo then Channel Street Slope=0. MASTHEA Discharges to Masthead Collected by rundowns at API4 3 conveyed Northward to North Pino Arroyo	TRACT 8A 37.6823 Ac. TO B OOIOI 7 STREET AP 12 TRACT 7A-1 31.2188 Ac.	Most head TRA	38 X 60 'R' S = 0.00 S = 0.00 S = 0.00 TRA (dec	Side Channel 12 5.75/6 Ac. Side Channel 12 Tr. Side Channel 12 Tr. Drop Capa Inlet 12 Tr. Drop Capa Inlet 27 Tr. 27 Tr. 36 Tr. 37 Tr. 40 T	TRACT 3A-IC TRACT 3A-IC TRACT 3A-IC ASPHALT LINET DRAINAGE SWAL SO 430 AC TEMPORARY SEDIMENTATION POND W/ DISCHARGE PIPE TRACT 4AA-3A-I 2.2800 AC STREET AD TAAA-5A-1 Topped)	EASEMENT	Box Culverts Box Culverts AN 10 1995 PRAINAGE MANAGEMENT PLAN FOR:	
b. Ultimate Plan - With the development of Basins A and B- 1. the flow will be carried by 9. The 37 cm	fs (100-year) offsite flow								JOURNAL CENTER DECEMBER 1992	<u>}</u>
surface facilities or is labele underground storm drains to value is the Domingo Baca Arroyo or to	ed OF-1. The 10-year storm 24 cfs.					<u>LE</u>	EGEND		12/17/92	

