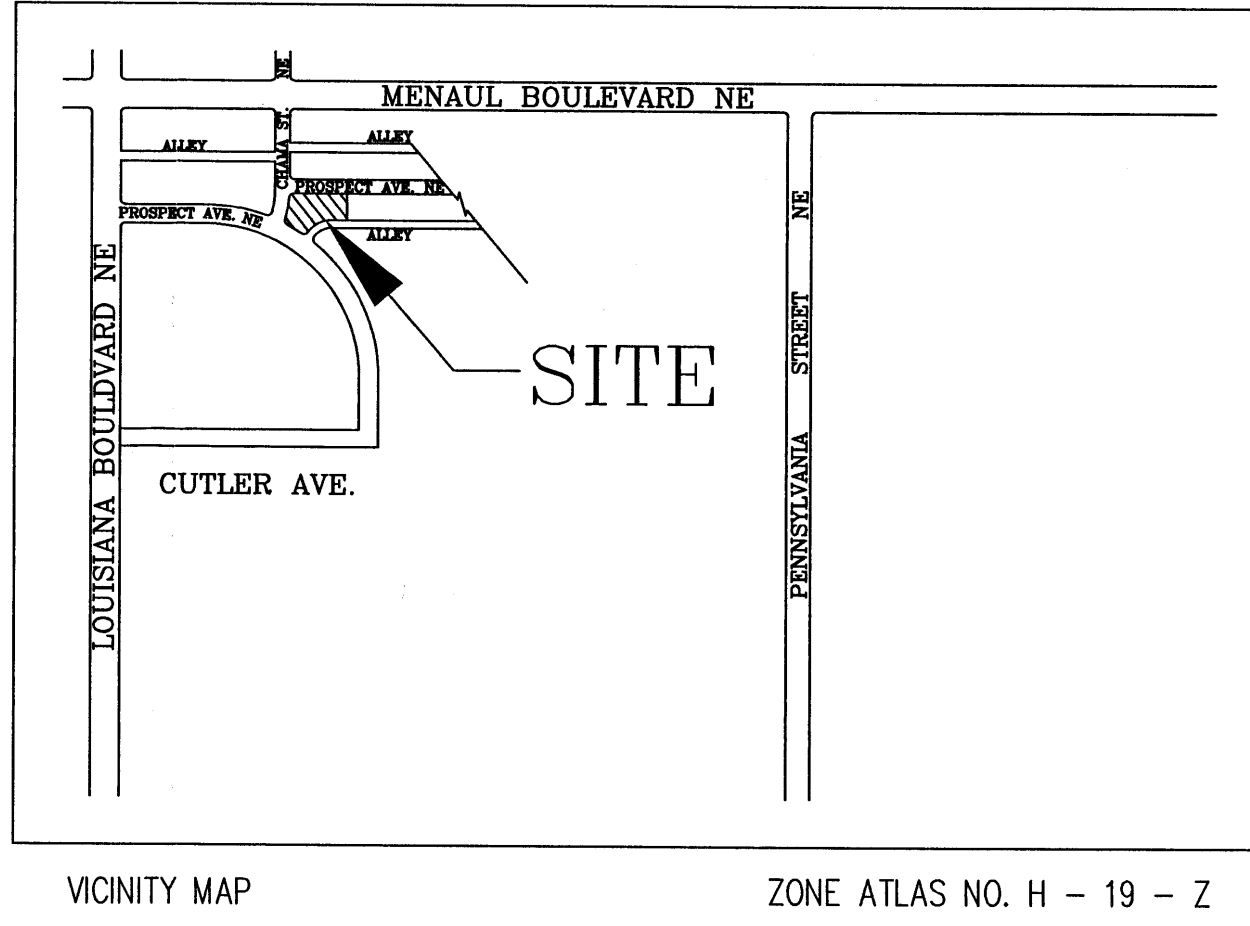


Addition & Remodel for the
New DireXtion Center for Success
2520 CHAMA AVENUE NE, ALBUQUERQUE, NEW MEXICO

KEN HOVEY, ARCHITECT
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JOB NO:	9924
DATE:	20 OCTOBER 1999
REVISIONS	

SHEET NO.
C-2



VICINITY MAP
ZONE ATLAS NO. H - 19 - Z

EXISTING CONDITIONS:

The site is located at the intersection of Prospect Avenue, Chama Street and Prospect Place one block South of Menaul Boulevard. All three adjacent streets are paved with curb and gutter. Prospect Avenue is to the North, Chama Street is to the West and Prospect Place is on the South. There is a paved alley to the Southeast of the site. Directly East of the site is the asphalt parking lot for an apartment building. The existing facility is a church building with asphalt parking and grass. There is no file on record at City Hydrology for the site. All runoff from the site enters adjacent streets and the alley and flows West in Prospect Place to curb inlets East of Louisiana.

PROPOSED CONDITIONS:

It is proposed to construct and addition to the existing building which will be an indoor playground. The area where the addition is proposed to be constructed is presently a grass landscaped area. All runoff will be directed to the alley or to Prospect Avenue. A slight amount of pavement removal and replacement is required to achieve positive drainage and waterblock.

DRAINAGE CRITERIA:

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque in cooperation with Bernalillo County, New Mexico and the Metropolitan Arroyo Flood Control Authority, January, 1993.

PRECIPITATION ZONE:

The site is between San Mateo Blvd. Eubank Blvd. and is, therefore, in Precipitation Zone 3.

LAND TREATMENT AREAS, EXCESS PRECIPITATION AND UNIT PEAK DISCHARGE:

The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 2 in the table below, and the values shown are from the City of Albuquerque D.P.M. Also shown are the existing and proposed land treatment areas.

LAND TREATMENT	q(cfs/ac)		E (in)		Existing Site Areas		Developed Site Areas	
	100-yr.	10-yr.	100-yr.	10-yr.	%	Sq.Ft.	%	Sq.Ft.
A	1.87	0.58	0.66	0.19	0.0	0.0000	0.0	0.0000
B	2.60	1.19	0.92	0.36	21.1	6,650	10.7	3,350
C	3.45	2.00	1.29	0.62	0.0	0.0000	0.0	0.0000
D	5.02	3.39	2.36	1.50	78.9	24,890	89.3	28,190
Totals					100.0	31,540	100.0	31,540

PEAK DISCHARGE:

EXISTING CONDITIONS:

$Q_{100} = 0.1527 \times 2.60 + 0.5714 \times 5.02 = 3.27 \text{ cfs}$

$Q_{10} = 0.1527 \times 1.19 + 0.5714 \times 3.39 = 2.12 \text{ cfs}$

DEVELOPED CONDITIONS:

$Q_{100} = 0.0769 \times 2.60 + 0.6472 \times 5.02 = 3.45 \text{ cfs}$

$Q_{10} = 0.0769 \times 1.19 + 0.6472 \times 3.39 = 2.29 \text{ cfs}$

VOLUME, 100-YEAR, 6-HOUR:

EXISTING CONDITIONS:

$V_{100} = (6,650 \times 0.92 + 24,890 \times 2.36) / 12 = 5,405 \text{ cf}$

$V_{10} = (6,650 \times 0.36 + 24,890 \times 1.50) / 12 = 3,310 \text{ cf}$

DEVELOPED CONDITIONS:

$V_{100} = (3,350 \times 0.92 + 28,190 \times 2.36) / 12 = 5,800 \text{ cf}$

$V_{10} = (3,350 \times 0.36 + 28,190 \times 1.50) / 12 = 3,624 \text{ cf}$

SUMMARY OF ON-SITE VOLUMES AND PEAK DISCHARGE RATES:

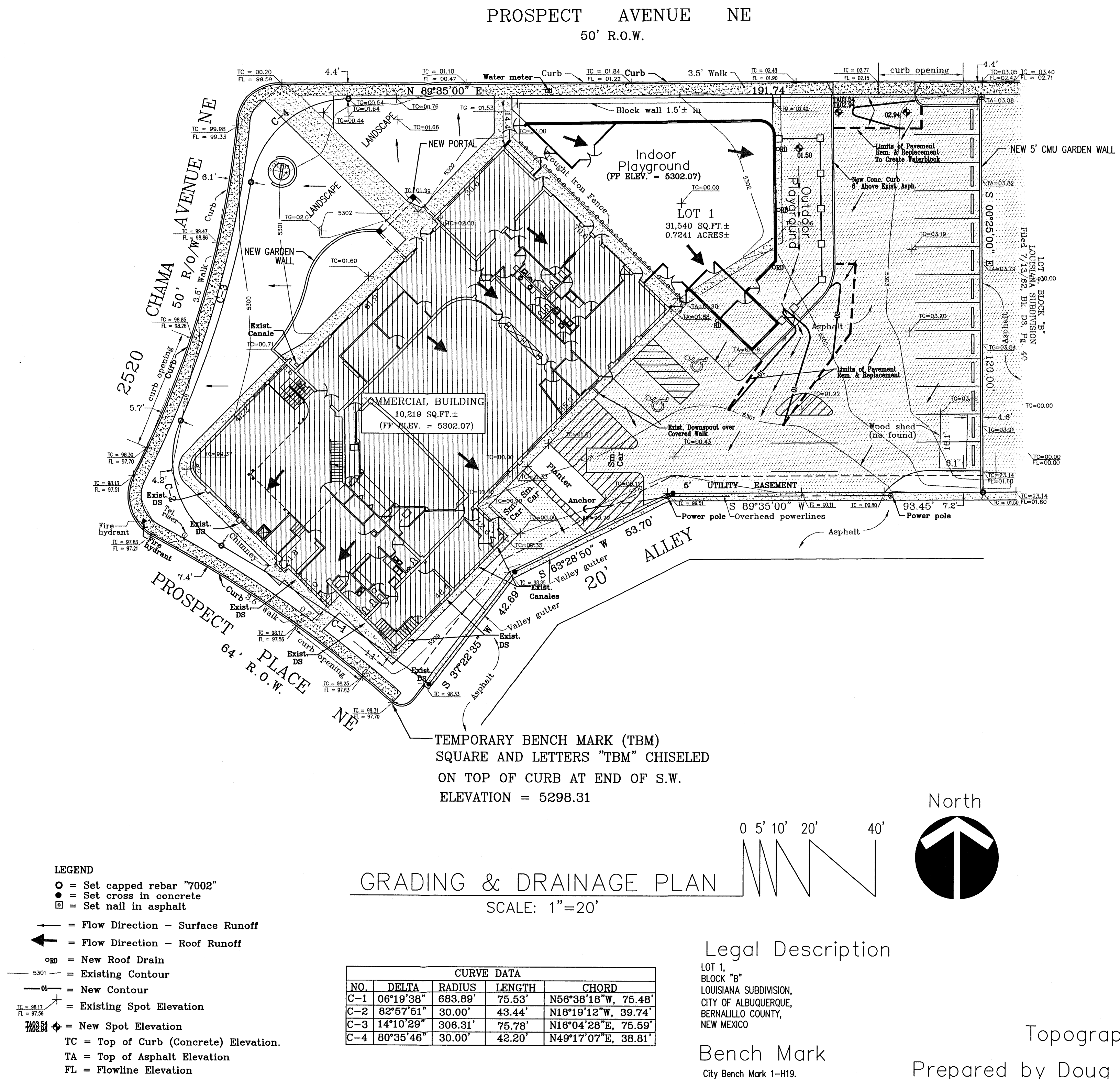
	V100(CF)	V10(CF)	Q100(CFS)	Q10(CFS)
DEVELOPED	5,800	3,624	3.45	2.29
EXISTING	5,405	3,310	3.27	2.12
INCREASE	395	314	0.18	0.17

OFF-SITE FLOW:

There is essentially no offsite flow associated with this site.

FLOOD INSURANCE RATE MAP:

The site is located on Flood Insurance Rate Map 35001C0352 D. The site does not lie within, adjacent to, or upstream from any flood hazard area.



GRADING & DRAINAGE PLAN

SCALE: 1"=20'

CURVE DATA				
NO.	DELTA	RADIUS	LENGTH	CHORD
C-1	08°19'38"	683.89'	75.53'	N56°38'18"W, 75.48'
C-2	82°57'51"	30.00'	43.44'	N18°19'12"W, 39.74'
C-3	14°10'29"	306.31'	75.78'	N16°04'28"E, 75.59'
C-4	80°35'46"	30.00'	42.20'	N49°17'07"E, 38.81'

Legal Description

LOT 1,
BLOCK "B",
LOUISIANA SUBDIVISION,
CITY OF ALBUQUERQUE,
BERNALILLO COUNTY,
NEW MEXICO

Bench Mark
City Bench Mark 1-H19.



Topographic Survey
Prepared by Doug Smith Surveying, Inc.