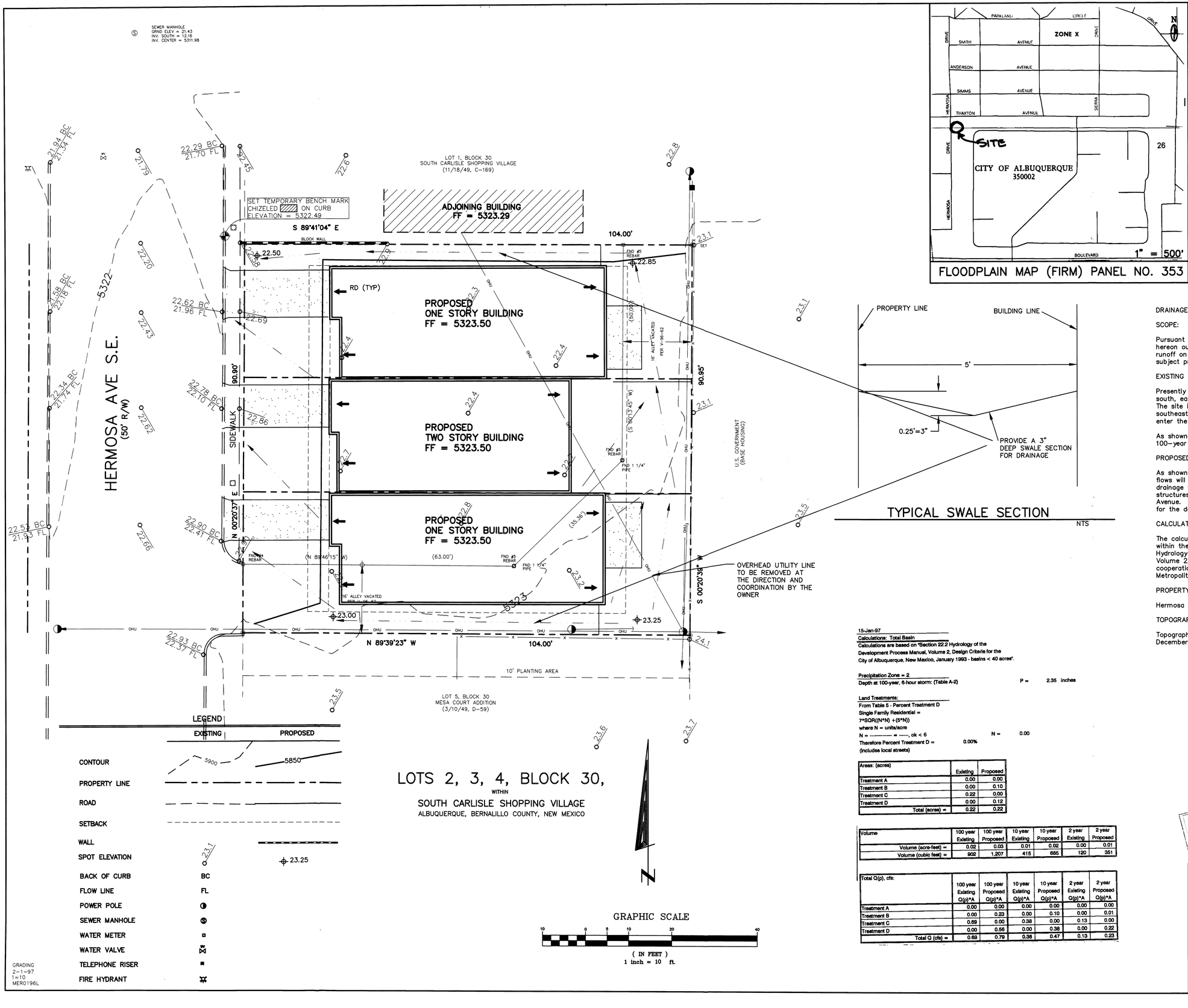
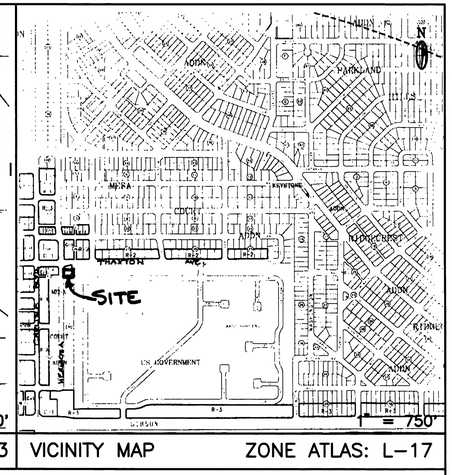


FLOODPLAIN MAP (FIRM) PANEL NO. 353



VICINITY MAP ZONE ATLAS: L-17

TYPICAL SWALE SECTION

NTS

DRAINAGE PLAN

SCOPE:

Pursuant to the latest City of Albuquerque criteria, the Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. Three townhomes are proposed for the subject property, with associated access, landscaping.

EXISTING CONDITIONS:

Presently the 0.22 acre site is undeveloped. The site is bounded on the south, east and north by residential lots, and on the west by Hermosa Avenue. The site is a hard packed earth material. Site topography slopes from the southeast to the northwest at approximately 0.5 percent. Offsite flows do not enter the property due to fencing and topography.

As shown by Floodway Map No. 353, dated 1996, the site is not located in a 100-year flood plain.

PROPOSED CONDITIONS:

As shown by the plan, three townhomes area proposed for the property. On site flows will drain around the structures, and flow to the northwest. All roof drainage will discharge from the roof to the lot and be directed around the structures to existing drainage paths. Access will be taken from Hermosa Avenue. Since the increase in runoff is negligible, no ponding is proposed for the development.

CALCULATIONS:

The calculations shown hereon define the 100 year-6 hour design storm falling within the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority.

PROPERTY ADDRESS:

Hermosa Avenue

TOPOGRAPHY:

Topographic information provided by Southwest Surveying Company, Inc. dated December, 1996.

15-Jan-97

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 2

Depth at 100-year, 6-hour storm: (Table A-2) P = 2.35 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

7*SQR((N*N) +(5*N))

where N = units/acre

N = ---------- = -----, ok < 6 N = 0.00

Therefore Percent Treatment D = 0.00%

(includes local streets)

Areas: (acres)	Existing	Proposed
Treatment A	0.00	0.00
Treatment B	0.00	0.10
Treatment C	0.22	0.00
Treatment D	0.00	0.12
Total (acres) =	0.22	0.22

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.02	0.03	0.01	0.02	0.00	0.01
Volume (cubic feet) =	902	1,207	415	685	120	351

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00
Treatment B	0.00	0.23	0.00	0.10	0.00	0.01
Treatment C	0.69	0.00	0.38	0.00	0.13	0.00
Treatment D	0.00	0.56	0.00	0.38	0.00	0.22
Total Q (cfs) =	0.69	0.79	0.38	0.47	0.13	0.23

LEGEND

	EXISTING	PROPOSED
CONTOUR	5900	5850
PROPERTY LINE		
ROAD		
SETBACK		
WALL		
SPOT ELEVATION	23.1	23.25
BACK OF CURB	BC	
FLOW LINE	FL	
POWER POLE		
SEWER MANHOLE		
WATER METER		
WATER VALVE		
TELEPHONE RISER		
FIRE HYDRANT		

LOTS 2, 3, 4, BLOCK 30,

WITHIN

SOUTH CARLISLE SHOPPING VILLAGE

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 inch = 10 ft.

GRADING
2-1-97
1=10
MER0196L

1-15-97

Rev. 2-1-97

RECEIVED
MAR 03 1997
HYDROLOGY SECTION

CITY OF ALBUQUERQUE NEW MEXICO

LOTS 2, 3, 4, BLOCK 30
SOUTH CARLISLE SHOPPING VILLAGE

MEREWETHER TOWNHOMES GRADING & DRAINAGE PLAN

McDowell Engineering Inc.

Designed	Drawn	Checked	Sheet of
JSM	STAFF	JSM	1 1
File MER0196L	Date JANUARY,1997		