DRAINAGE INFORMATION SHEET

ONE ATLAS/DRNG. FILE #: K-12-Z 80C, \$ 22 OC CONTACT: Pichard Mason
<i>y</i> ,
or contact. Dichard Mason
AC CONTACT. CICNATO ITIUSON
PHONE: 881-3846
CONTACT: Fred Sanchez
PHONE:
CONTACT:
PHONE:
ac contact: Fred Sanchez
PHONE: 884 - 2036
CONTACT:
PHONE:
RE NO. 801240 1986 PC NO. HYDROLOGY SECTION ROJ. NO.
SKETCH PLAT PEROVAL SPECTION PRELIMINARY PERO POPROVAL SITE DEVELOPMENT PLAN APPROVAL
FINAL PLAT APPROVAL
BUILDING PERMIT APPROVAL
FOUNDATION PERMIT APPROVAL
CERTIFICATE OF OCCUPANCY APPROVAL
ROUGH GRADING PERMIT APPROVAL GRADING/PAVING PERMIT APPROVAL
OTHER(SPECIFY)

DATE SUBMITTED: June 11, 1986

BY: Donothy Chair-Dolan

DRAINAGE REPORT

FOR

LANDS OF IRENE BLEA

DRAINAGE DATA

Basin Area No.II, located South of Gonzales Road S.W. is the only off-site basin which contribute storm runoff to the site during intense storms. Otherwise, contributing flows from this area are insignificant. North of Gonzales Road S.W., storm water either accumulates into ponding areas or drain along paved streets and empties into shallow paved drainage swales on either side of Atrisco Road S.W., which intercepts and conveys run-off further downstream from the site. Please see Exhibit "A".

Presently on-site land is heavily covered with vegetation growth and debris. The site is relatively flat with general drainage in Southwesterly direction.

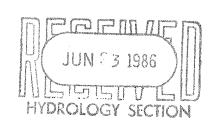
Since the terrain is very flat having hardly any slopes to properly drain the site and there are no existing drainage facilities to adequately serve the additional run-off flows, an on-site retention ponding for anticipated 100 year storms are recommended as each lot is developed.

SEE ATTACHED EXHIBITS "A" FOR DRAWING

1. OFF-SITE SHEET FLOWS FROM BASIN NO.II

Area (A)	distribution of the control of the c	4.5 Acres
Watershed Length (L)	=	700 '
Elevation Difference		2.5'
Slope (s)	Application of the Control of the Co	0.004 ft/ft
Time of Concentration (Tc)	entre en	$0.0078 \underline{L}_{5}^{0.77} = 10 \text{ minutes}$
Factor (C)	***	0.45
Rainfall	===	2.2"(plate 22.2 D-1)
Rainfall Intensity (I)	==	4.65(plate 22.2 D-2)

Flows: Q = CIA Q100 = .45(4.65)(4.5) - 9.42cfsQ10 = 6.19 cfs



2. ON SITE - FLOWS FROM BASIN NO.1

UNDEVELOPED CONDITIONS:

Area (A) = 3.7 Acres

Watershed Length(L) = 1000'

Elevation Difference = 2.5'

Slope(S) = 0.003ft/ft

Time of Concentration = 15 minutes

Factor (C) = 0.45

Rainfall = 2.2"

Rainfall Intensity (I) = 3.78

Flows: Q100 = .45(3.78) (3.7) = 6.30cfs

Q10 = 4.14cfs

DEVELOPED CONDITIONS

A = 3.7 Acres

Tc = 15 minutes

Factor (C) = 0.90

Rainfall Intensity(I) = 3.78

Q10 = 8.27cfs

NOTE: Minimum finished floors to be 2 feet above existing ground grades.

SEE ATTACHED EXHIBIT "B" FOR GRADING AND DRAINAGE PLAN

3. FINDINGS

A. Offsite flows draining into the site are insignificant and contribute little run-off to the site. For sizing of the ponds assume that 60 percent enters the site.

Volume =
$$(2.2inch \times 1 ft) \times (3.7 acres \times 43,560 sq.ft.) \times 60\% = 12in$$
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B. Onsite ponding requirements should consist of the volume generated by the 100 year storm.

Volume =
$$(2.2inch \times 1 \text{ ft}) \times (4.5 \text{ acres} \times 43,560 \text{ sq.ft.}) \times 0.60 = 17,729 \text{ C.F.}$$

Total ponding requirement = 21,562 + 17,729 = 39,291 C.F.

The ponding requirements for each lot would be as follows.

	Front Pond	Back Pond
Lot 1	No Pond	Presently developed
Lot 2	No Pond	$18" \times 70' \times 25'=2,625 \text{ C.F.}$
Lot 3	50'x 10'x 6" = 250'CF	12" x 50' x 50'=2,550 C.F.
Lot 4 thru 15	50'x 10'x 6" = 250'CF	15" x 50' x 42'=2,550 C.F.

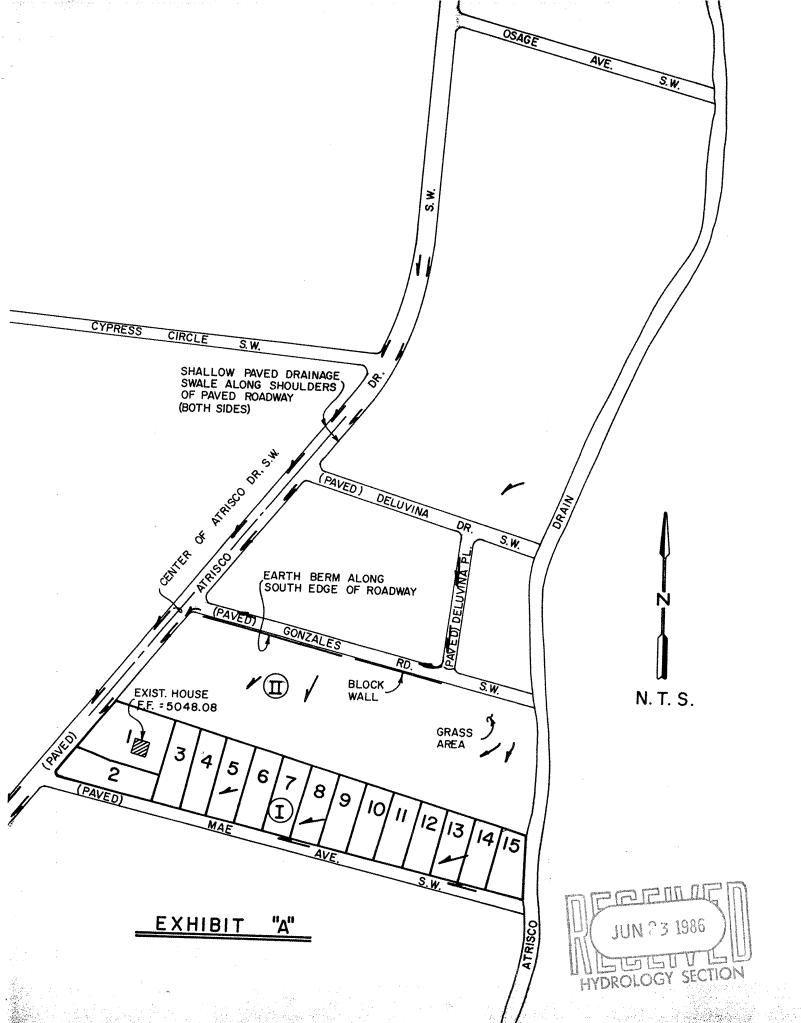
- C. Flood proofing requirements Finished floors should be at least 2 feet above existing ground. Flood elevation estimated be 5045.00 ft.
- D. All finish floors to be at elevation 5046 ft. or higher.
- E. All pond are to be at least 15 feet from building footings. Footings should be flood proofed.

Richard Mason, P.E. Date



SCALE:1"=800'

VICINITY MAP
(CITY ZONE ATLAS K-12-Z)





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

FILE COCOPY

June 23, 1986

Gil Gardner Gardner, Mason & Associates 2127 Menaul Blvd., NE Albuquerque, New Mexico 87107

RE: DRAINAGE PLAN FOR LANDS OF IRENE BLEA (K-12/D16)
RECEIVED JUNE 23, 1986

Dear Mr. Gardner:

The above referenced plan, dated June 23, 1986, is approved for Preliminary Plat.

The plat submitted April 10, 1986, to DRB does not show the public drainage easement north of Mae Avenue. Also, required would be the construction and maintenance responsibilities.

Please be advised that any improvements to Mae Avenue will require a resubmittal of the drainage plan.

It appears that the pond volumes are conservative. However, any changes in the volume will require a more detailed submittal of off-site flows and 100 year floodplain elevation.

If you have any questions, call me at 766-7644.

Cordially,

Carlos A. Montoya, P.E.

City/County Floodplain Administrator

CAM/bsj

Gardner, Mason & Associates, Inc.

ENGINEERS & PLANNERS

2127 Menaul Blvd. NE Albuquerque, N.M. 87107 (505) 881-3846 132 W. Las Cruces Av. Las Cruces, N.M. 88001 (505) 525-8057

June 23, 1986

Hydrology Section, Public Works The City of Albuquerque P. O. Box 1293 Albuquerque, New Mexico 87103

Atten: Mr. Carlos Montoya

Ref: Plat of Land of Irene Blea, (DRB 86-240)

Dear Mr. Montoya:

Attached to this transmittal is the revised Drainage Report prepared by Gardner, Mason and Associates for the above referenced project.

As per our discussions, the additional calculations and findings were incorporated into the report and a drainage plan was prepared. Please do not hesitate in notifying us if you have any questions.

Thank you for your time and consideration in this matter.

Sincerely,

GARDNER, MASON AND ASSOCIATES, INC.

Gilbert D. Gardner, P.E.L.S.

GDG/bjh

JUN 23 1986

HYDROLOGY SECTION

CITY ADDRESS:			with the control of t
ENGINEERING FIRM: Galdner, Mason	& ASSOC CONTACT:	Pichard	Mason
ADDRESS: 2127 Menant	Blud PHONE:	881-3	846
OWNER: Ivene Blea	CONTACT:	Fred	Sanchez
ADDRESS: See below	PHONE:	884	-2036
AACHITECT:	CONTACT:		
ADDRESS:	PHONE:		
Submitted for Fred Sancher SURVEYOR: Albuguesque Sixueying (ADMORAN, INC. CONTROL:	Fred So	nchez
ADDRESS: 2119 Menaul Bl		884-	
		004	2036
INTARCEDA: n/a	CONTACT:		
ALC MESSES	1948 # 4		
WE DESIGN MEETING:	·	Ċ	129186
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GRADING PLAN	FINAL PLAT AP	PROVAL ,	
EROSION CONTROL FLAN	BUILDING FERM	IT APPROVAL	
ENGINEER'S CERTIFICATION	FOUNDATION PE	RMIT APPROVA	<u>L</u>
	CERTIFICATE O	F DCCUPANCY	APPROVAL
	ROUGH GRADING	PERMIT APPR	OVAL
	GRADING/PAVIN	S PERMIT APP	ROVAL"
	OTHER		(SPECIFY)

Gardner, Mason & Associates, Inc.

ENGINEERS & PLANNERS

2127 Menaul Blvd. NE Albuquerque, N.M. 87107 (505) 881-3846 132 W. Las Cruces Av. Las Cruces, N.M. 88001 (505) 525-8057

June 11, 1986

Hydrology Section, Public Works The City of Albuquerque P. O. Box 1293 Albuquerque, New Mexico 87103

ATTEN: Mr. Fred Aquirre

REF: Plat of Land of Irene Blea, (DRB 86-240)

Dear Mr. Aquirre:

Attached to this transmittal is the revised Drainage Report prepared by Gardner, Mason and Associates for the above referenced project.

As per your discussion with Gil Gardner, the additional calculations and findings were incorporated into the report. Please do not hesitate in notifying us if you have any questions.

Thank you for your time and consideration in this matter.

Sincerely,

GARDNER, MASON AND ASSOCIATES, INC.

Dorothy Chavez-Dolan

DCD/bjh

JUN 1 1 1986

JUN 1 1 1986

HYDROLOGY SECTION



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

June 10, 1986

Richard Mason, PE Gardner, Mason & Associates, Inc. 2127 Menaul Boulevard NE Albuquerque, NM 87107

REF; DRAINAGE REPORT FOR LANDS OF IRENE BLEA (K12-D16) RECEIVED 6/5/86

Dear Mr. Mason:

A preliminary review of your submittal for Final Plat approval has shown that the following information is lacking for this Section to begin the review process:

Information Needed

Attached you will find a copy of the pre-design recap. These
items listed on the recap must be addressed before Hydrology
will sign-off for Final Plat approval.

Please provide this information so that we may process your request as expediently as possible.

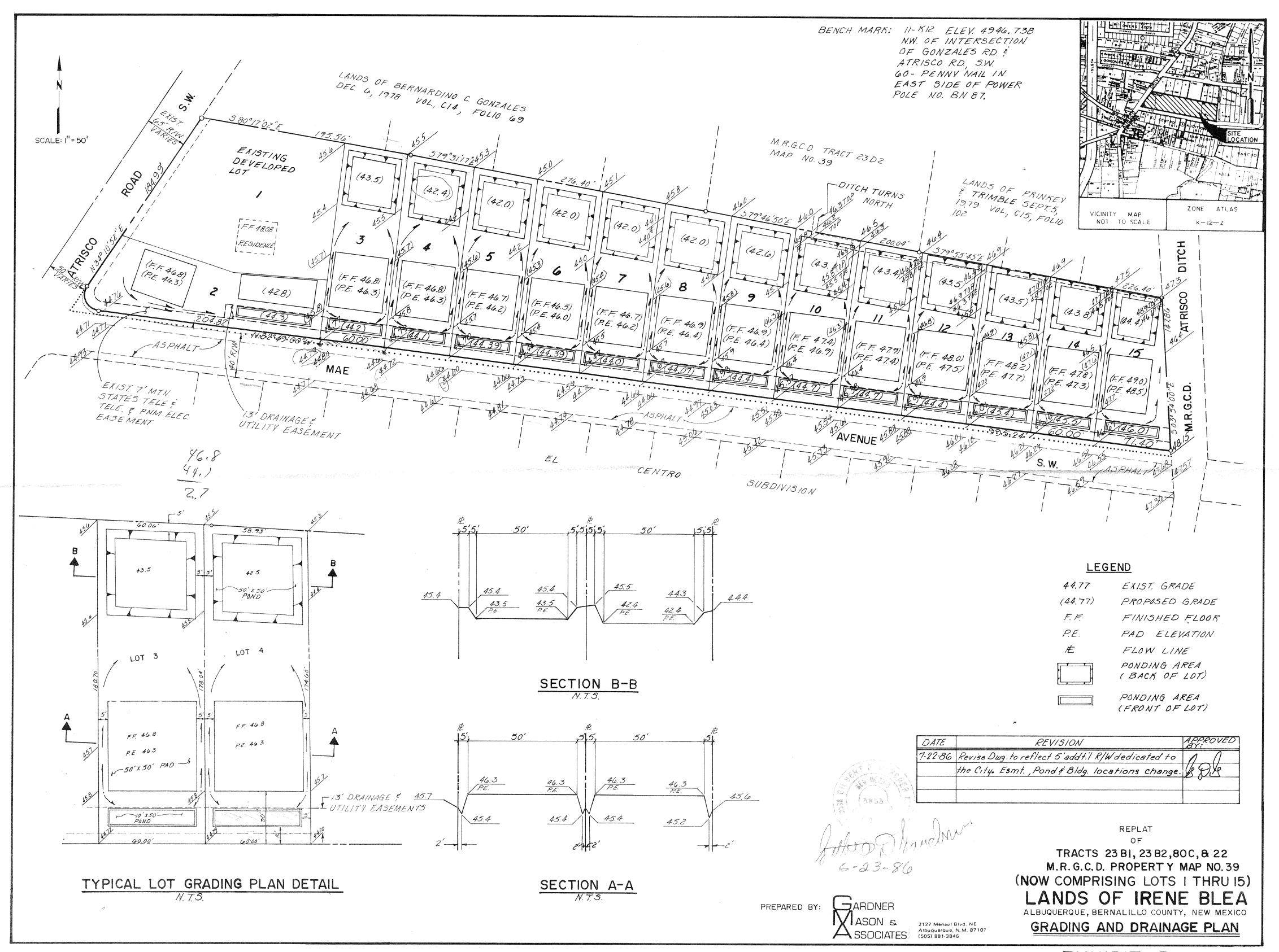
Sincerely,

on Bernie J. Montoya

Engineering Assistant/Hydrology

BJM:mrk

cc: Fred Sanchez, Albuquerque Surveying Co. In, 2119 Menaul Blvd NE 87107



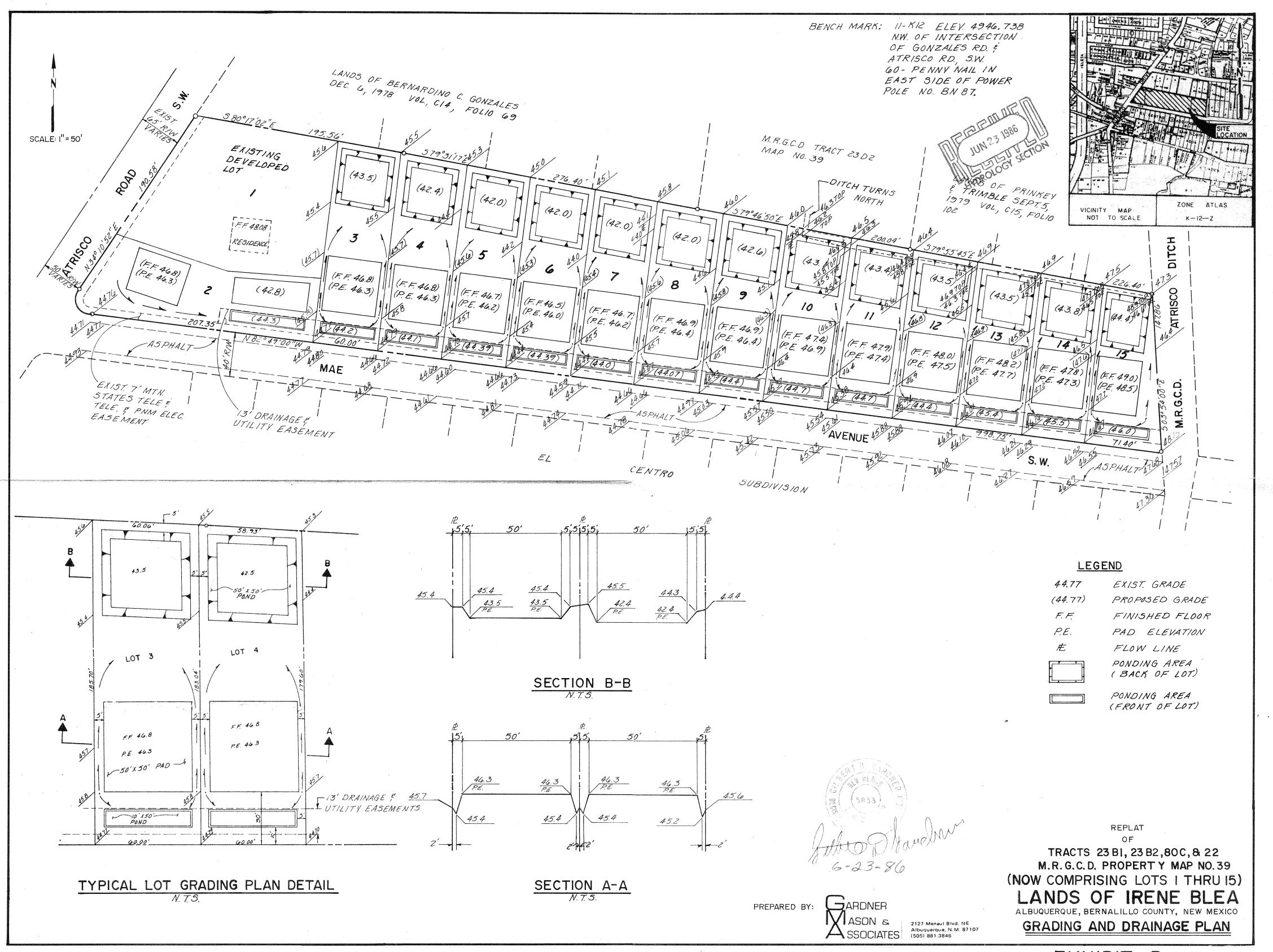


EXHIBIT B