

(Rowen Residence)

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

PROJECT TITLE: CASE NAA #10

ZONE MAP/DRG. FILE #: C20-D30

DRB #:

EPC #:

WORK ORDER #:

LEGAL DESCRIPTION: LOT #10, BLOCK 2, TRACT 3, UNIT 3, N. ALB. ACRES

CITY ADDRESS: EAGLE ROCK AVE. NE

ENGINEERING FIRM: MCDOWELL ENGINEERING, INC.

ADDRESS: 7820 BEVERLY HILLS AVE. NE

CITY, STATE: ALBUQUERQUE, NM

CONTACT: JACKIE S. MCDOWELL

PHONE: (505) 828-2430

ZIP CODE: 87122

OWNER:

RANDY CASE

ADDRESS: P.O. BOX 45686

CITY, STATE: RIO RANCHO, NM 87174

CONTACT: RANDY CASE

PHONE: (505) 896-2813

ZIP CODE: 87174

ARCHITECT:

ADDRESS:

CITY, STATE:

CONTACT:

PHONE:

ZIP CODE:

SURVEYOR:

ADDRESS:

CITY, STATE:

CONTACT:

PHONE:

ZIP CODE:

CONTRACTOR:

ADDRESS:

CITY, STATE:

CONTACT:

PHONE:

ZIP CODE:

CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR / LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERTIFICATION (TCL)
- ☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

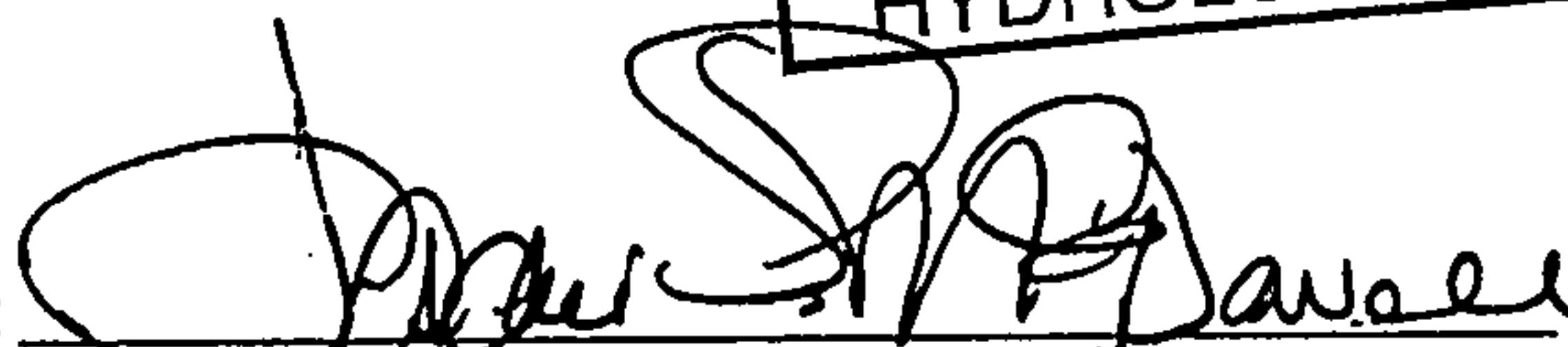
- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

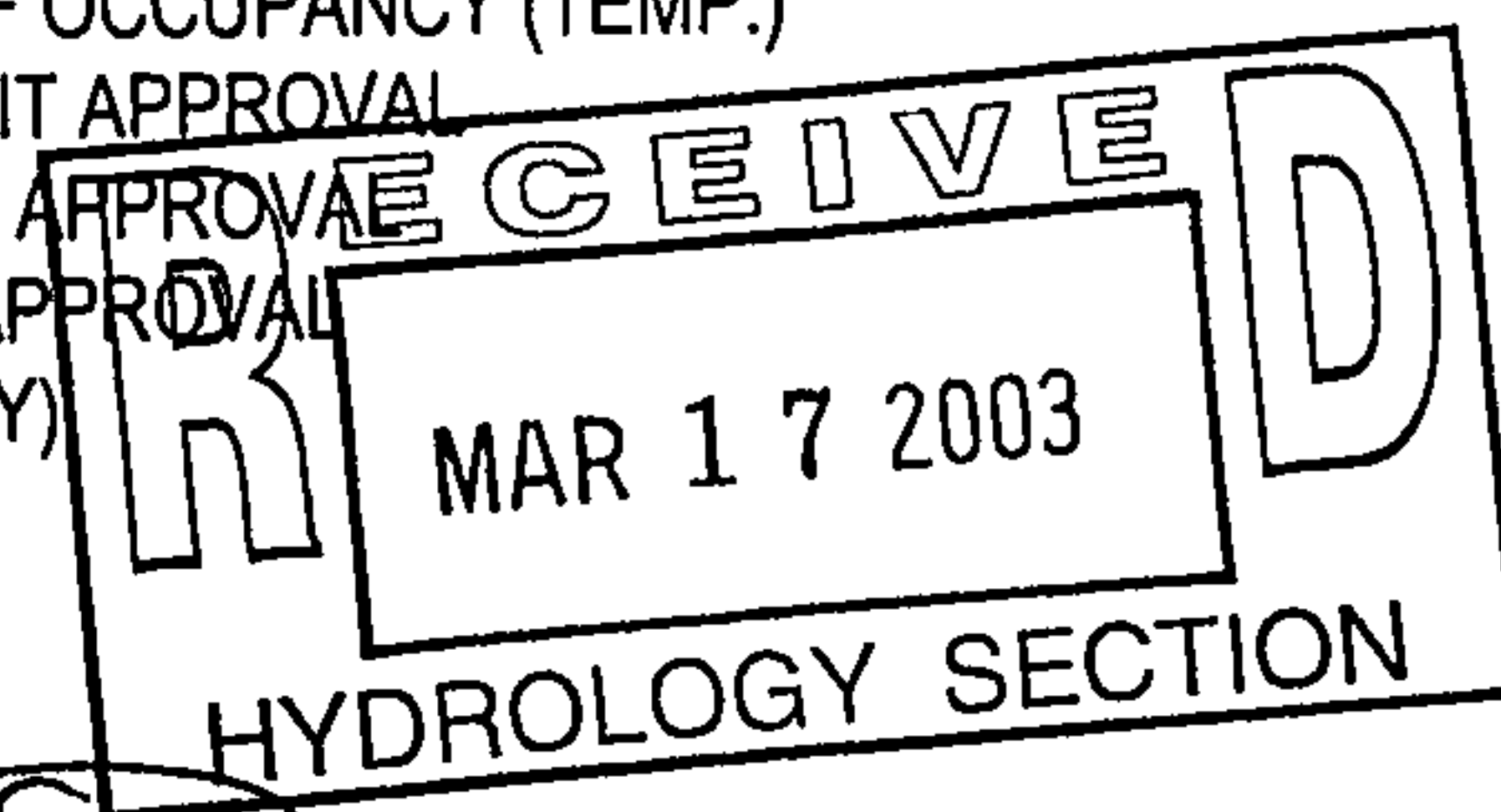
WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: 17-Mar-2003

BY:


Jackie S. McDowell



Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope of the proposed development defines the degrees of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five acres.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits, and site plans less than five acres.
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five acres or more.

DRAINAGE INFORMATION SHEET

PROJECT TITLE: ROGAN NAA #10-#12 ZONE ATLAS/DRNG. FILE #: C-20/D30

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LOTS 10, 11, & 12, BLOCK 2, TRACT 3, UNIT 3, N. ALB. AC.

CITY ADDRESS: EGLEROCK AVE. NE

ENGINEERING FIRM: MCDOWELL ENGINEERING, INC. CONTACT: JACKIE MCDOWELL

ADDRESS: 7820 BEVERLY HILLS AVE. NE, 87122 PHONE: 828-2430

OWNER: ROGAN THOMPSON CONTACT: ROGAN THOMPSON

ADDRESS: P.O. BOX 11997 ZIP: 87192 PHONE: 823-4477

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAIN. PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER _____

PRE-DESIGN MEETING:

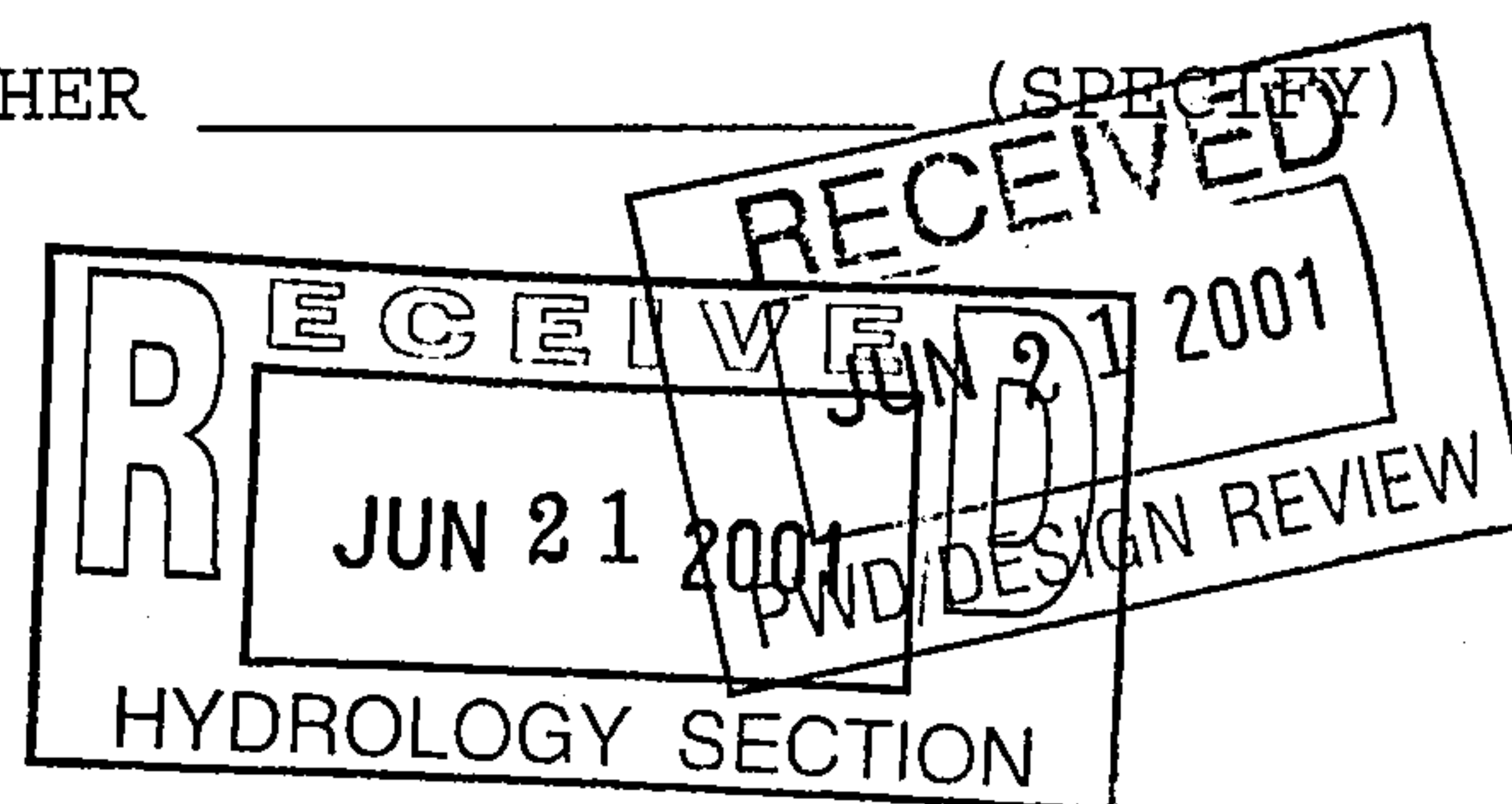
☒ YES (TELE. CONVERSATION)
☐ NO
☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S.DEV PLAN FOR SUB'D APPROVAL
☐ S.DEV PLAN FOR BLDG PMT APPR.
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERT. OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: JUNE 21, 2001

BY: JACKIE S. MCDOWELL, P.E.





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 22, 2001

Jackie S. McDowell
McDowell Engineering, Inc.
7820 Beverly Hills Avenue NE
Albuquerque New Mexico 87122

RE: Grading and Drainage Plan for Lot 10, 11, & 12 Blk. 2, Tr. 3, Unit 3 NAA (C20-D30) Dated June 20, 2001

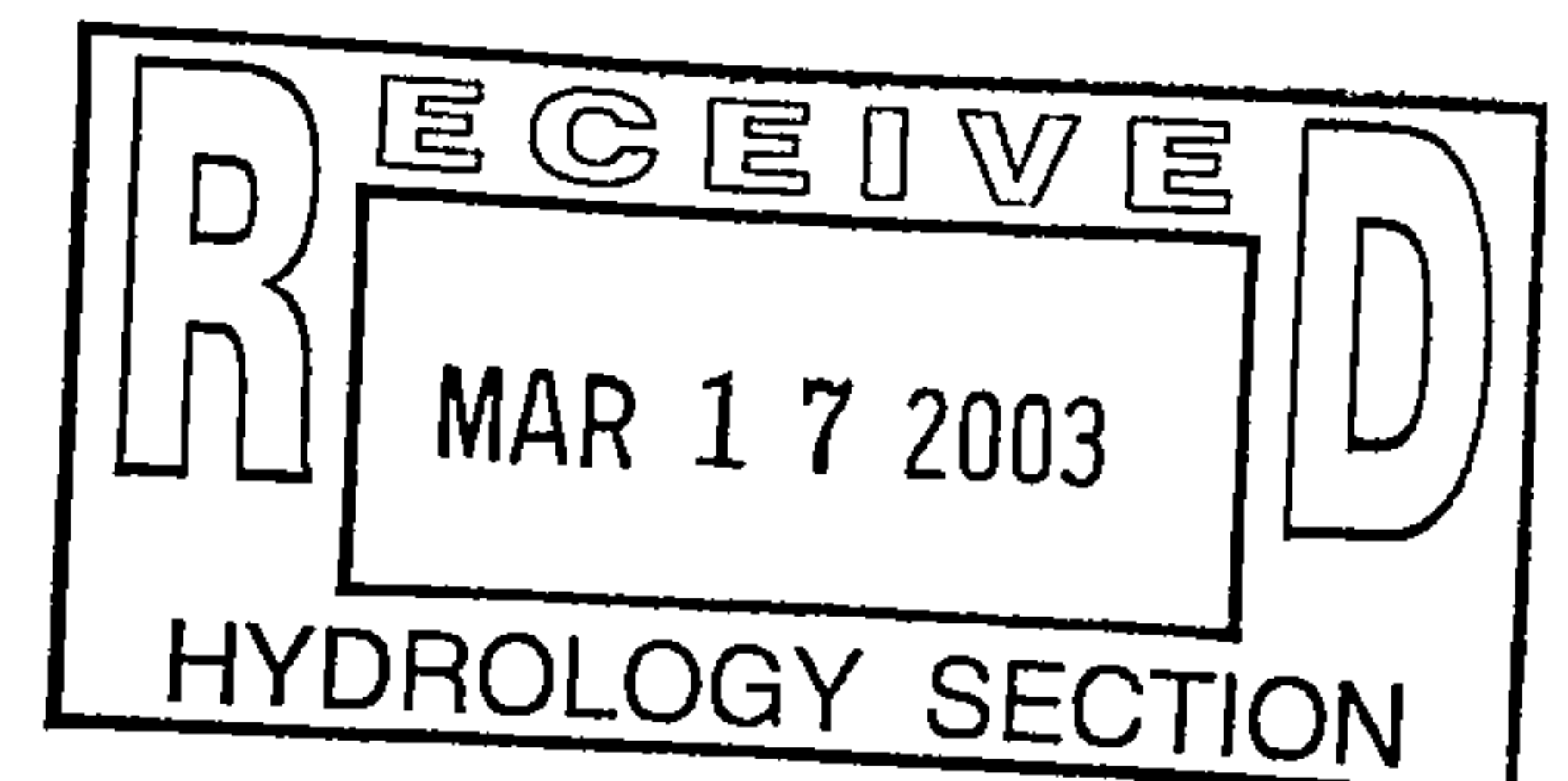
Dear Ms. McDowell:

The above referenced plan received June 21, 2001 is approved for sign-off by Hydrology for Building Permit. Upon completion of the project the engineer needs to certify the construction.

If you have any questions please call me at 924-3982.

Sincerely,

Carlos A. Montoya
City/County Floodplain Administrator



17-Mar-03

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 = 3

Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.60 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$$7 \cdot \text{SQR}((N \cdot N) + (5 \cdot N))$$

where N = units/acre

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

N = 0.00

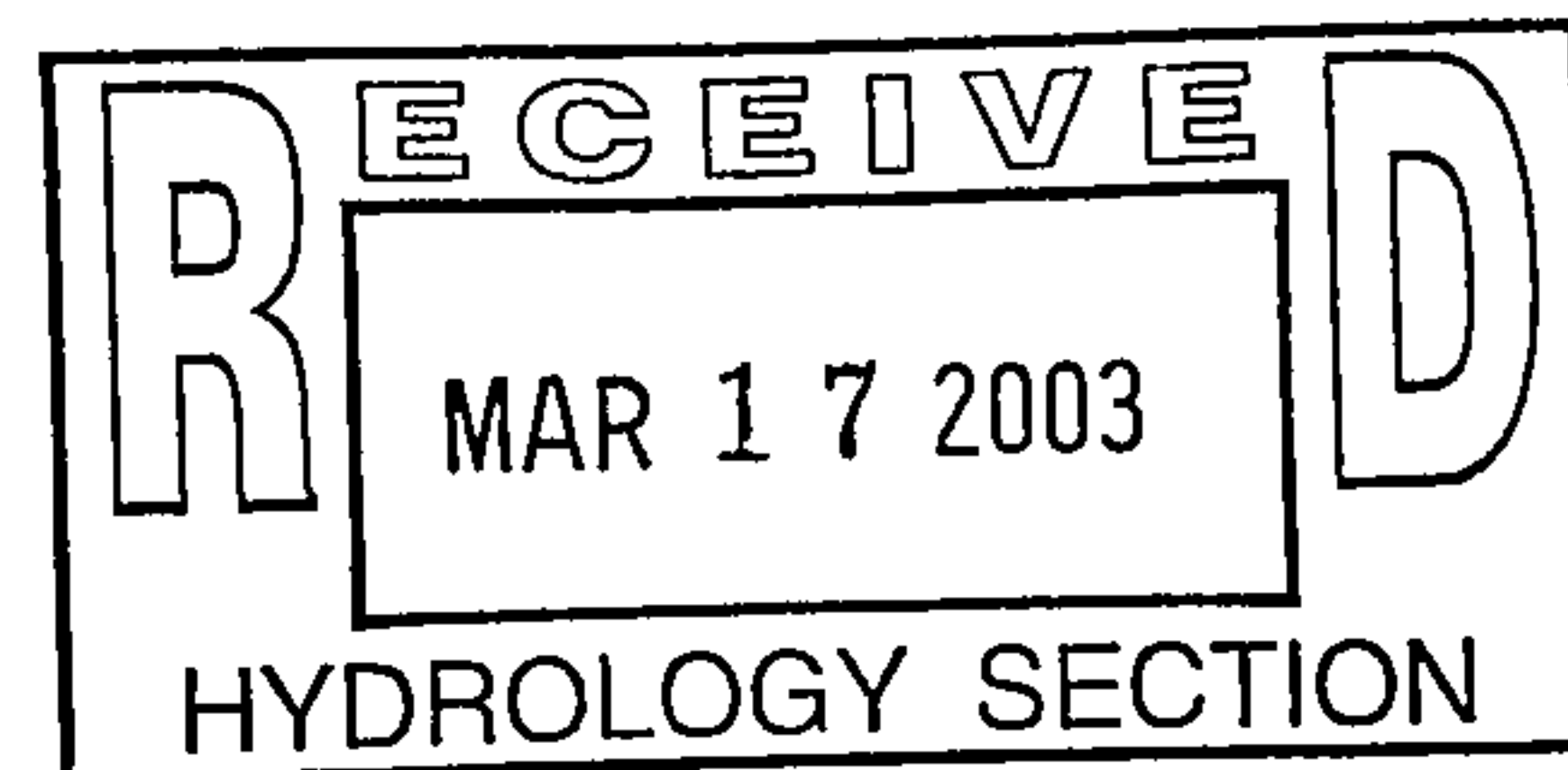
Therefore Percent Treatment D = 0.00%

(includes local streets)

Areas: (acres)	Existing	Proposed
Treatment A	0.89	0.38
Treatment B	0.00	0.18
Treatment C	0.00	0.18
Treatment D	0.00	0.15
Total (acres) =	0.89	0.89

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.05	0.08	0.01	0.04	0.00	0.02
Volume (cubic feet) =	2,132	3,639	614	1,719	0	654

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	1.66	0.71	0.52	0.22	0.00	0.00
Treatment B	0.00	0.47	0.00	0.21	0.00	0.04
Treatment C	0.00	0.62	0.00	0.36	0.00	0.14
Treatment D	0.00	0.75	0.00	0.51	0.00	0.31
Total Q (cfs) =	1.66	2.55	0.52	1.30	0.00	0.48





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 25, 2003

Jackie S. McDowell
McDowell Engineering, Inc.
7820 Beverly Hills Avenue NE
Albuquerque New Mexico 87122

**RE: Grading and Drainage Plan for Lot 10 Blk. 2, Tr. 3, Unit 3 NAA (C20-D30) Dated
March 25, 2003**

Dear Ms. McDowell:

The above referenced plan received March 17, 2003 is approved for sign-off by Hydrology for Building Permit. Upon completion of the project the engineer needs to certify the construction.

If you have any questions please call me at 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 22, 2001

Jackie S. McDowell
McDowell Engineering, Inc.
7820 Beverly Hills Avenue NE
Albuquerque New Mexico 87122

RE: Grading and Drainage Plan for Lot 10, 11, & 12 Blk. 2, Tr. 3, Unit 3 NAA (C20-D30) Dated June 20, 2001

Dear Ms. McDowell:

The above referenced plan received June 21, 2001 is approved for sign-off by Hydrology for Building Permit. Upon completion of the project the engineer needs to certify the construction.

If you have any questions please call me at 924-3982.

Sincerely,

Carlos A. Montoya
City/County Floodplain Administrator

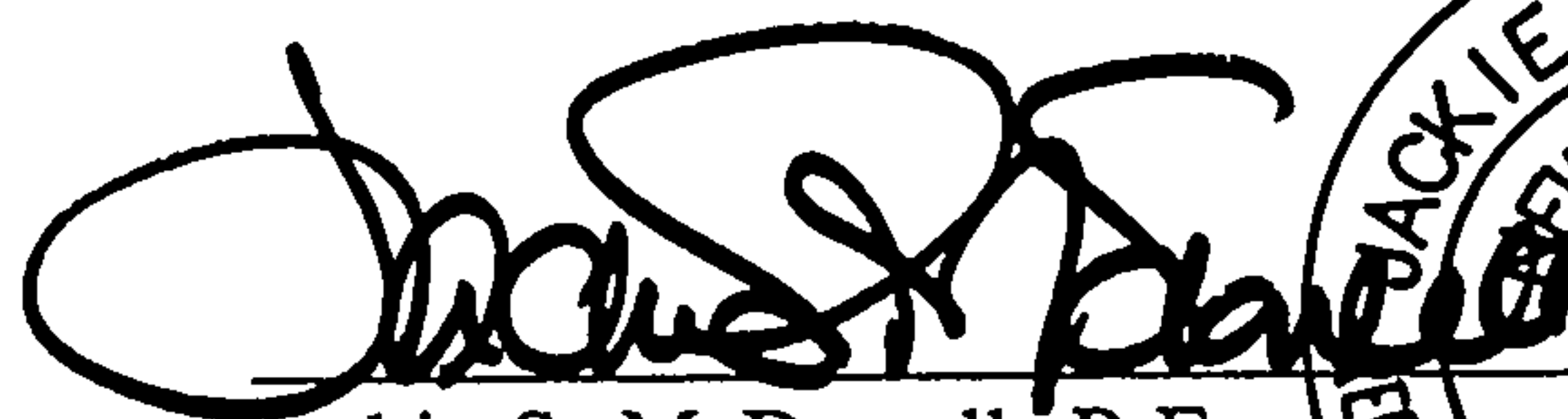
ATTACHMENT NO. 1

SUPPLEMENTAL CALCULATIONS TO

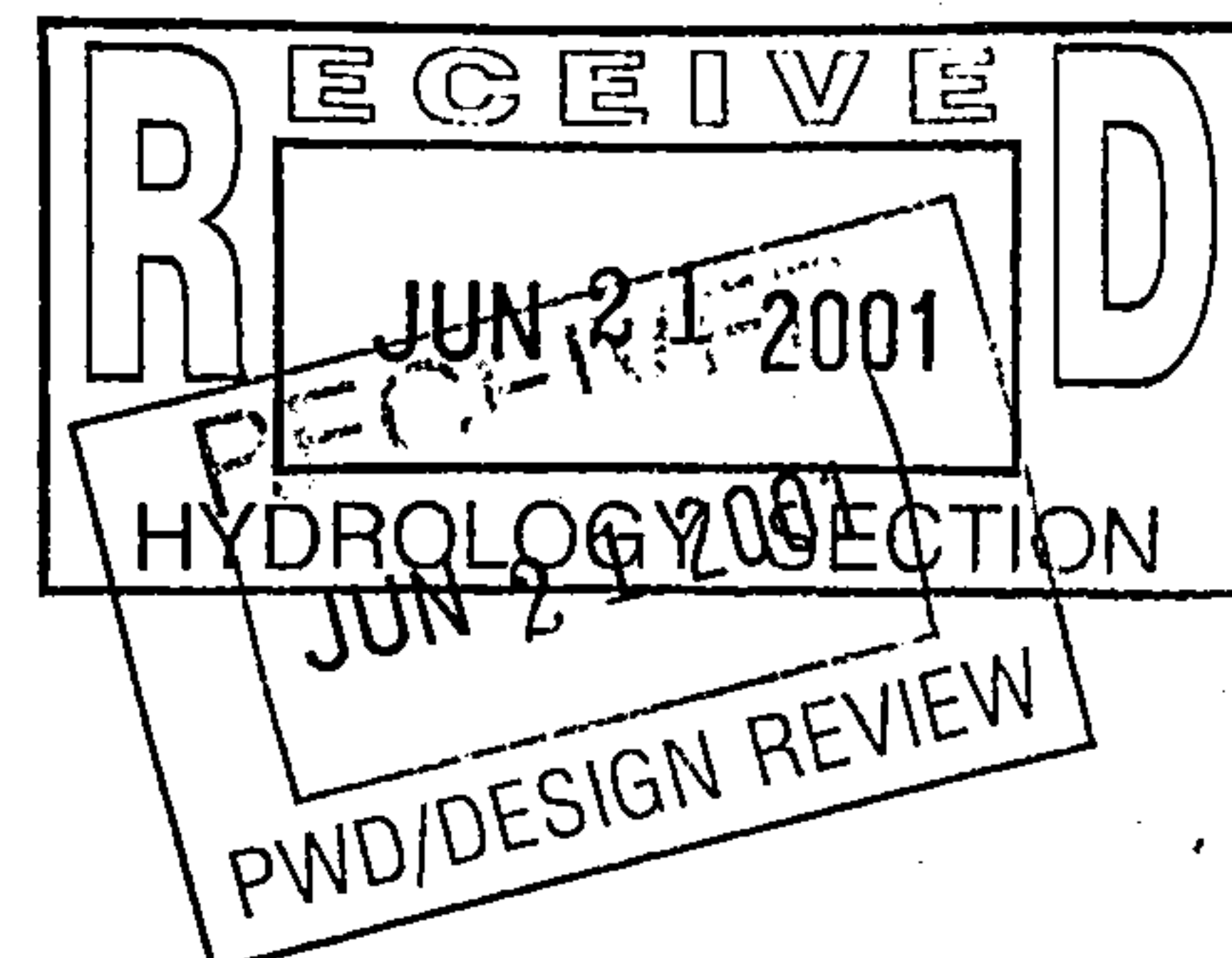
ROGAN
NORTH ALBUQUERQUE ACRES
LOTS 10-12
NORTH ALBUQUERQUE ACRES

GRADING & DRAINAGE PLAN

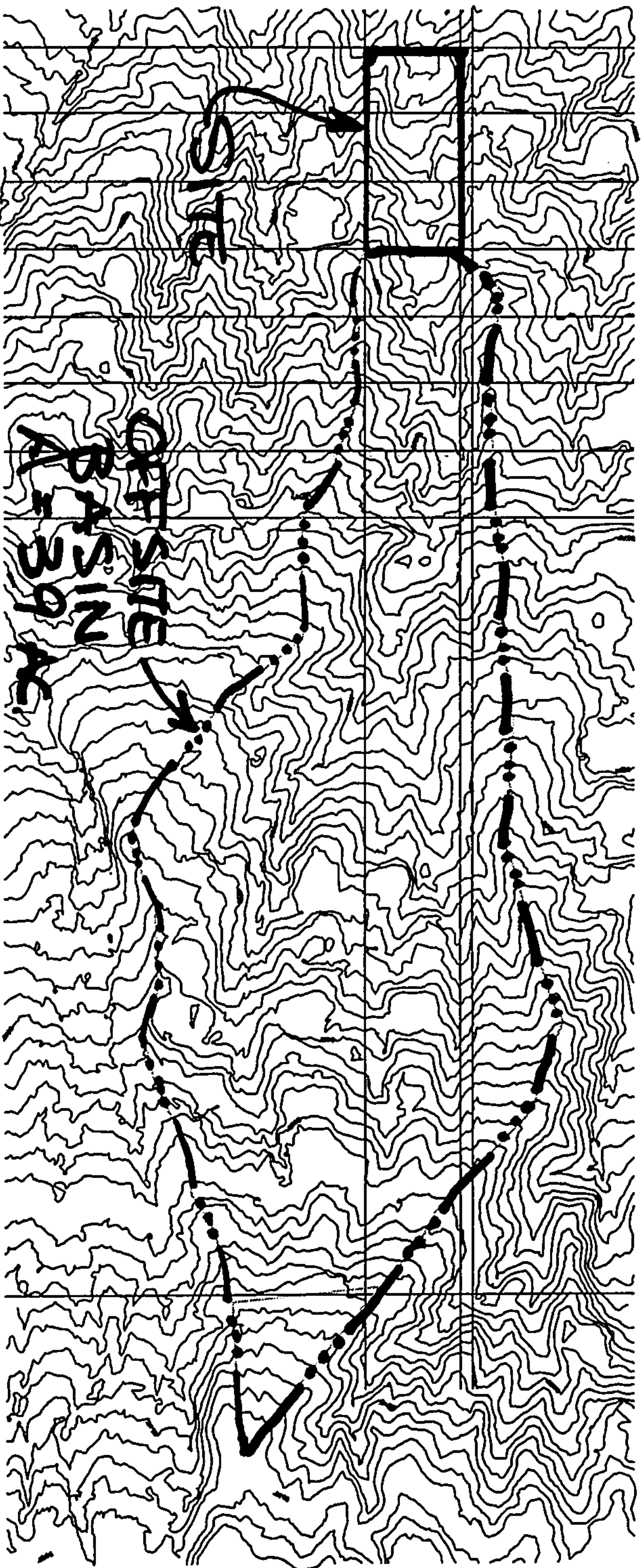
I, Jackie S. McDowell, Registered Professional Engineer, No. 10903, hereby certify that I have prepared the attached calculations.


Jackie S. McDowell, P.E.

 6-20-01



ANMATA
BH1
MARPAKIS



AP 203

220
(302.4)

TO

FUTURE
BOUNDARY

SITE

111.0

Q=12 cfs

AP 111.0

92 cfs
(113 cfs)

111.1

TO PROPOSED
C.O.A. STORM DRAIN

AP 111.4C

NA
(143 cfs)

IN
1"=200'
1999 RTI STUDY FOR NAA

FUTURE
BOUNDARY

12,000

4" 3,000'

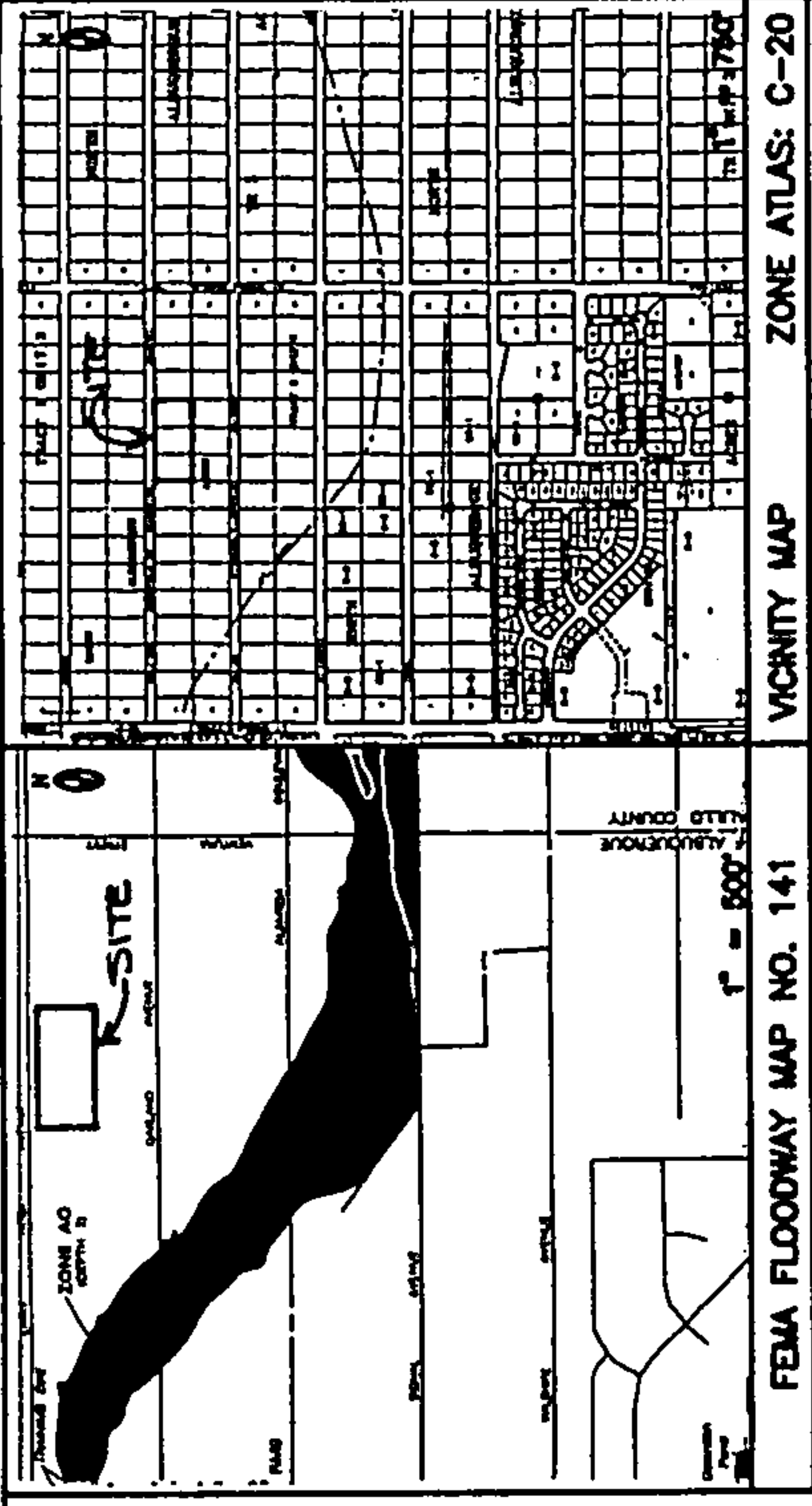
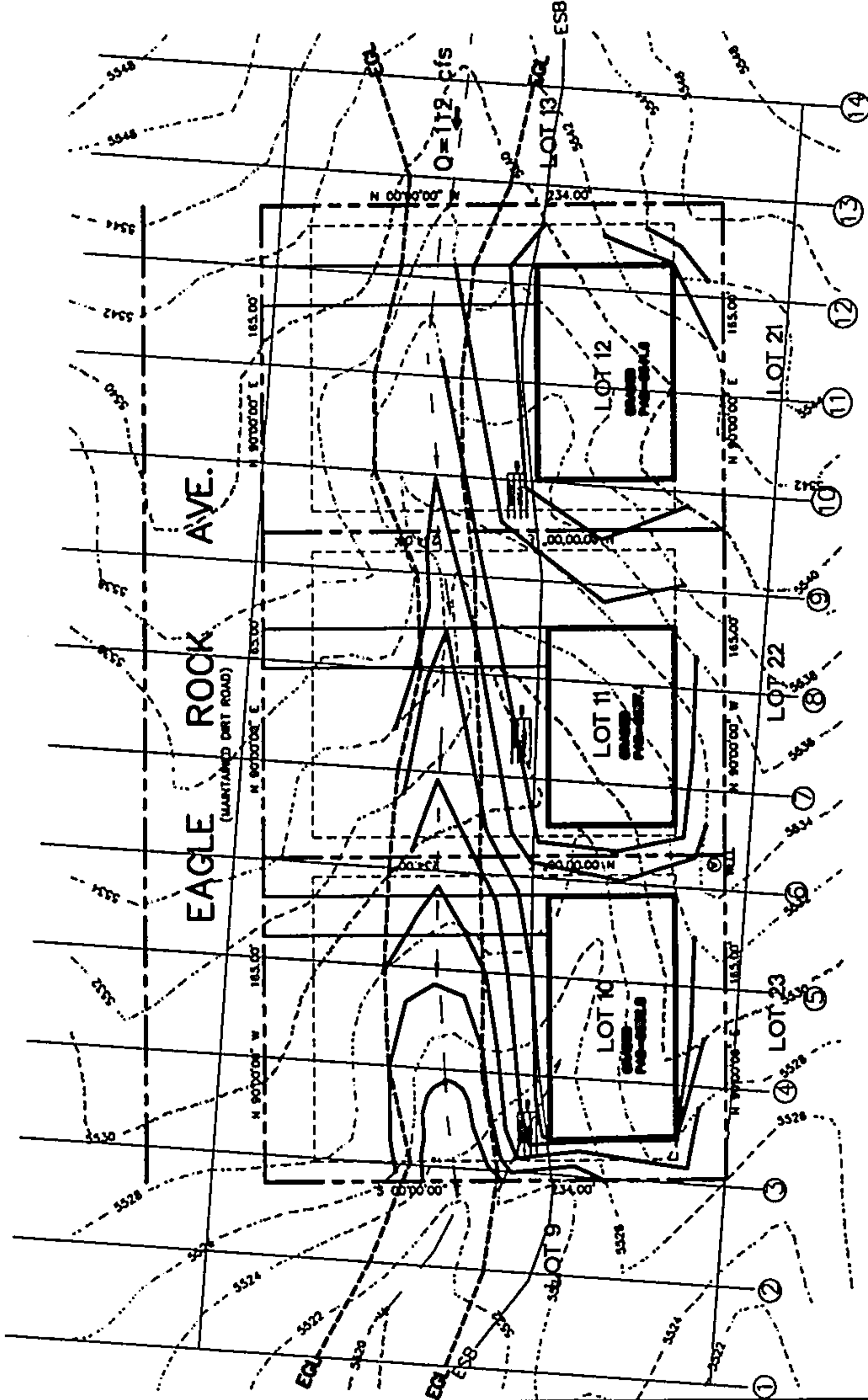
AMAFCA

PROPERTY

AP 111.4C

220
(302.4)

STANDARD GRADING NOTE: THE MAXIMUM GRADED SOLE SLOPE SHALL NOT EXCEED 3 FEET (HORIZONTALLY) TO 1 FOOT (VERTICALLY). AREAS DISTURBED BY GRADING WHICH WILL NOT BE TREATED WITH LANDSCAPING SHALL BE SEED.



FEMA FLOODWAY MAP NO. 141

VICINITY MAP

ZONE ATLAS: C-20

- STANDARD SETBACK NOTES
1. THE SETBACK LINE AND DRAIN FIELD SHALL NOT BE LOCATED WITHIN 100 FEET OF THE WELL.
 2. THE SETBACK LINE AND DRAIN FIELD SHALL NOT BE LOCATED WITHIN 25 FEET OF THE DRAINAGE EASEMENT.

- STANDARD FENCE NOTES
1. NO FENCING SHALL BE CONSTRUCTED WITHIN ANY DRAINAGE EASEMENT AREA UNLESS SPECIFICALLY APPROVED BY THE BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT.
 2. ANY FENCING LOCATED ALONG THE PROPERTY LINE SHALL BE APPROVED BY THE BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT.

LEGEND

EXISTING	PROPOSED
CONTOUR	CONTOUR
PROPERTY LINE	PROPERTY LINE
ROAD	ROAD
SETBACK	SETBACK
BUILDING ENVELOPE	BUILDING ENVELOPE



DRAWING'S CERTIFICATION

I, J. S. McDaniel, hereby certify that I personally inspected the site shown on this plan on June 3, 2001, and as of that date it appeared that same filing, grading, or construction had occurred pursuant to the completion of the topographic survey used to prepare this plan.

BERNALILLO COUNTY		NEW MEXICO	
LOTS 10-12, BLOCK 2, TRACT 3, UNIT 3		NORTH ALBUQUERQUE ACRES	
THOMPSON GRADING & DRAINAGE PLAN			
McDaniel Engineering Inc.			
Drawn: JSM	Checked: JSM	Scale: 1" = 500'	Sheet: 1 of 1
File: R0001011		Date: JUNE 2001	

DRAINAGE PLAN

SCOPE

Pursuant to the latest City of Albuquerque and Bernalillo County Ordinances, the Drainage Plan shown herein authorizes the drainage management criteria for controlling developed runoff on and within the project site. A single family home is proposed for each lot with associated access, landscaping, and utility improvements.

EXISTING CONDITIONS

Presently the 2.47 acre (3 lots @ 0.823 ac. each) site is undeveloped. The site has been graded as shown on the plan. The site is located on the north side of Eagle Rock Ave. on the west side of the intersection with the site. The site is located on the west side of the intersection with the site.

As shown by Floodway Map No. 19 of SO, dated October 16, 1983, and Floodway Map No. 141, dated September 20, 1995, the site is not located within a 100-year flood plain.

PROPOSED CONDITIONS

As shown by the plan, the proposed building envelopes are located within the lot/south portion of the lots. Approximately 30 feet of upstream land drains through the property with a developed slope ratio of 1:1.2 cfs. On site and off-site there will be a series of drainage ditches and culverts. The drainage system will be designed to handle the runoff from the site and the surrounding area. The drainage system will be designed to handle the runoff from the site and the surrounding area.

Supplemental calculations have been provided to the City of Albuquerque Hydrology Department identified as Attachment No. 1.

CALCULATIONS

The calculations shown herein define the 100 year-6 hour design storm falling within the project area under existing and proposed conditions. The calculations are based on the Hydrology of the Developmental 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

Eagle Rock Ave NE

TOPOGRAPHY

Topographic information was taken from the 1999 topography used by A/E in preparing the North Albuquerque Acres & Sando Heights Study.

GRAPHIC SCALE



LOTS 10-12
BLOCK 2, TRACT 3, UNIT 3
NORTH ALBUQUERQUE ACRES
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

Project: THOMPSON NAA 10-12 ON-SITE CALCULATIONS

20-Jun-2001

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 = 3

Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.60 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$7 \cdot \text{SQR}((N \cdot N) + (5 \cdot N))$

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	2.67	1.16
Treatment B	0.00	0.53
Treatment C	0.00	0.53
Treatment D	0.00	0.45
Total (acres) =	2.67	2.67

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.15	0.25	0.04	0.12	0.00	0.04
Volume (cubic feet) =	6,397	10,886	1,841	5,136	0	1,954

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	4.99	2.17	1.55	0.67	0.00	0.00
Treatment B	0.00	1.38	0.00	0.63	0.00	0.11
Treatment C	0.00	1.83	0.00	1.06	0.00	0.41
Treatment D	0.00	2.26	0.00	1.53	0.00	0.92
Total Q (cfs) =	4.99	7.63	1.55	3.89	0.00	1.44

→ 2.54 cfs/ac

Project: THOMPSON NAA 10-12 OFF-SITE CALCULATIONS

20-Jun-2001

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 = 3

Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.60 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$7 * \text{SQR}((N * N) + (5 * N))$

where N = units/acre

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

N = 0.00

Therefore Percent Treatment D = 0.00%

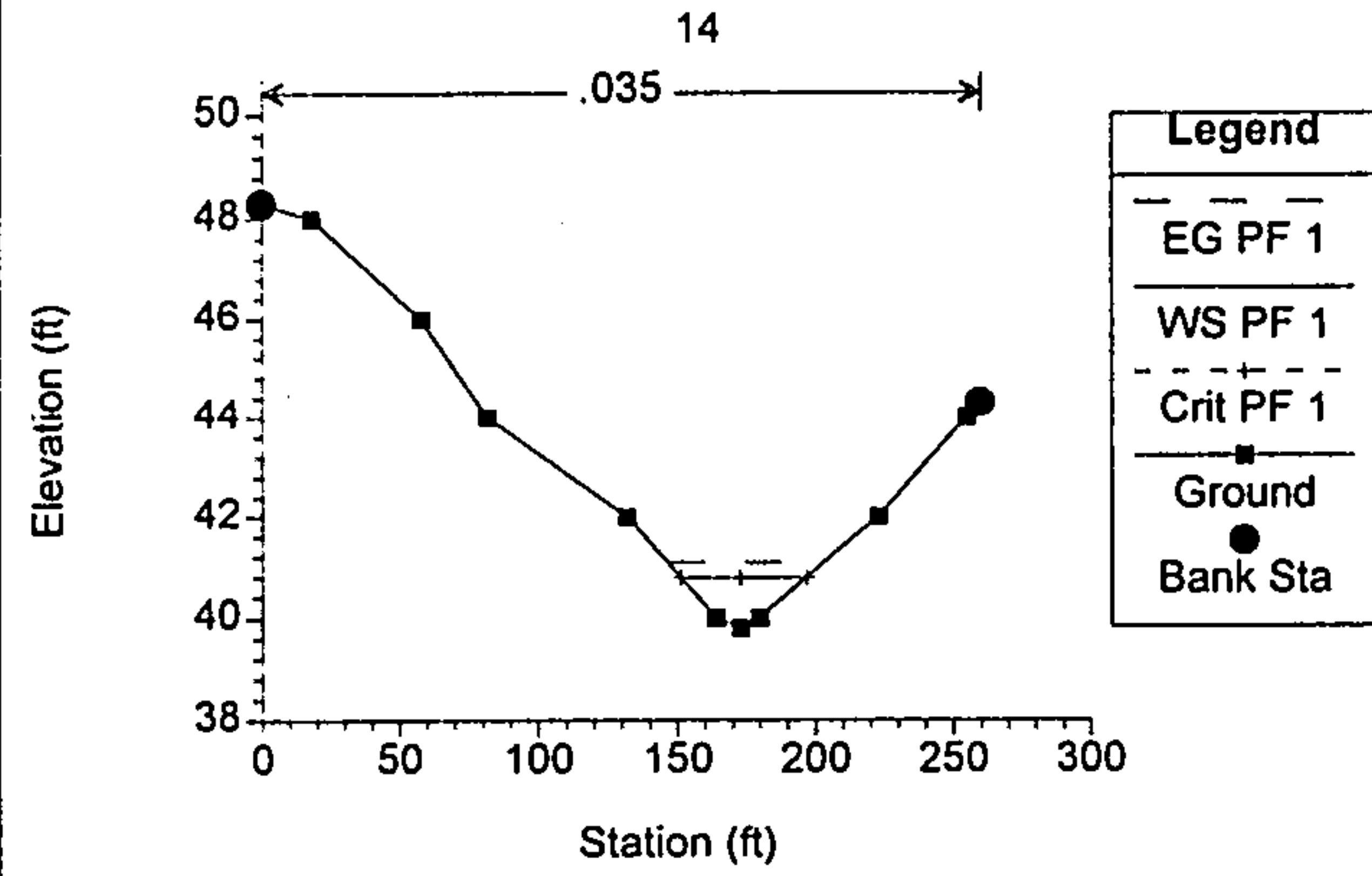
(includes local streets)

Areas: (acres)	Existing	Proposed
Treatment A	39.00	16.80
Treatment B	0.00	7.80
Treatment C	0.00	7.80
Treatment D	0.00	6.60
Total (acres) =	39.00	39.00

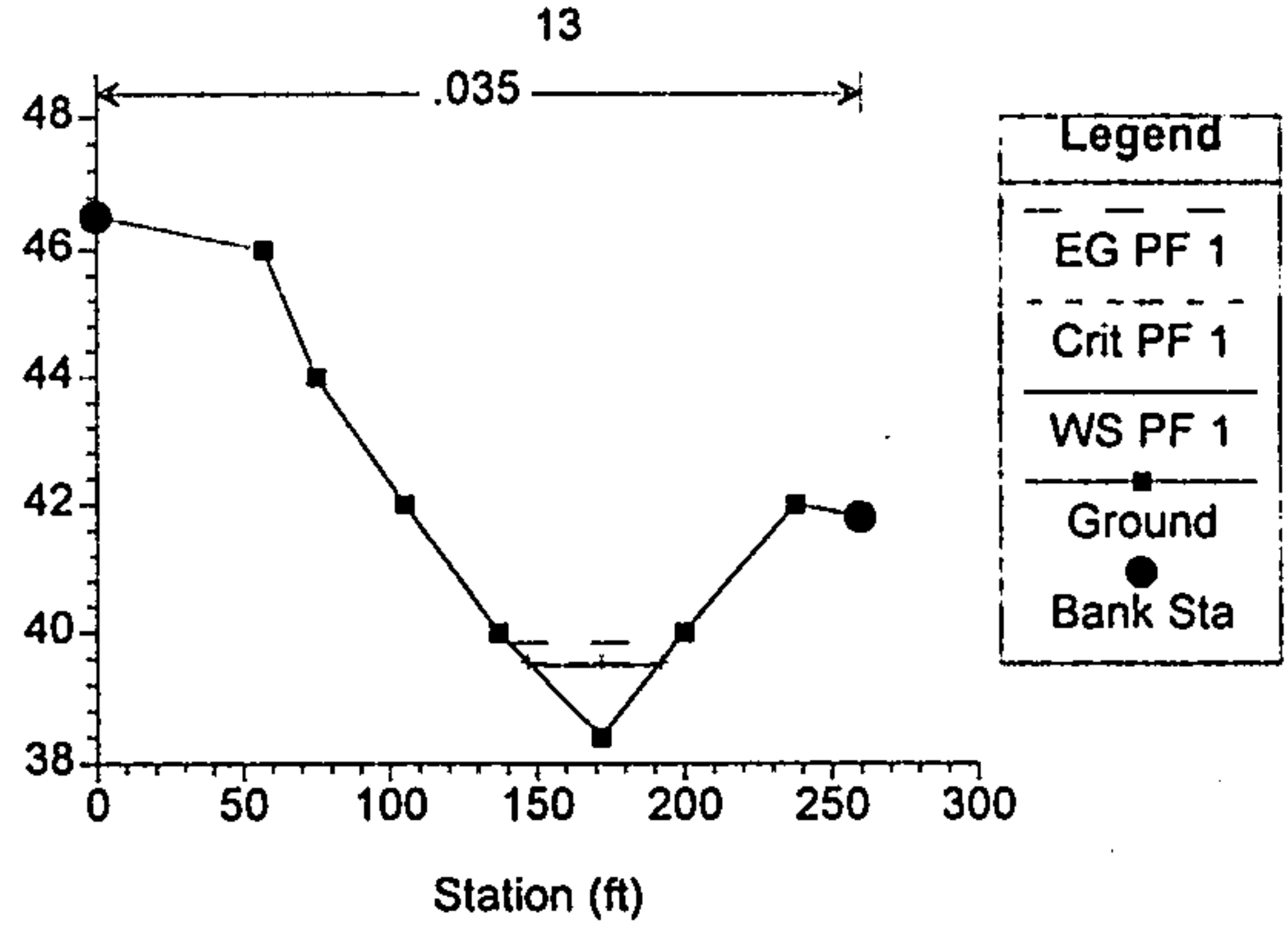
Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	2.15	3.66	0.62	1.73	0.00	0.66
Volume (cubic feet) =	93,436	159,364	26,898	75,272	0	28,684

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	72.93	31.42	22.62	9.74	0.00	0.00
Treatment B	0.00	20.28	0.00	9.28	0.00	1.64
Treatment C	0.00	26.91	0.00	15.60	0.00	6.08
Treatment D	0.00	33.13	0.00	22.37	0.00	13.46
Total Q (cfs) =	72.93	111.74	22.62	57.00	0.00	21.19

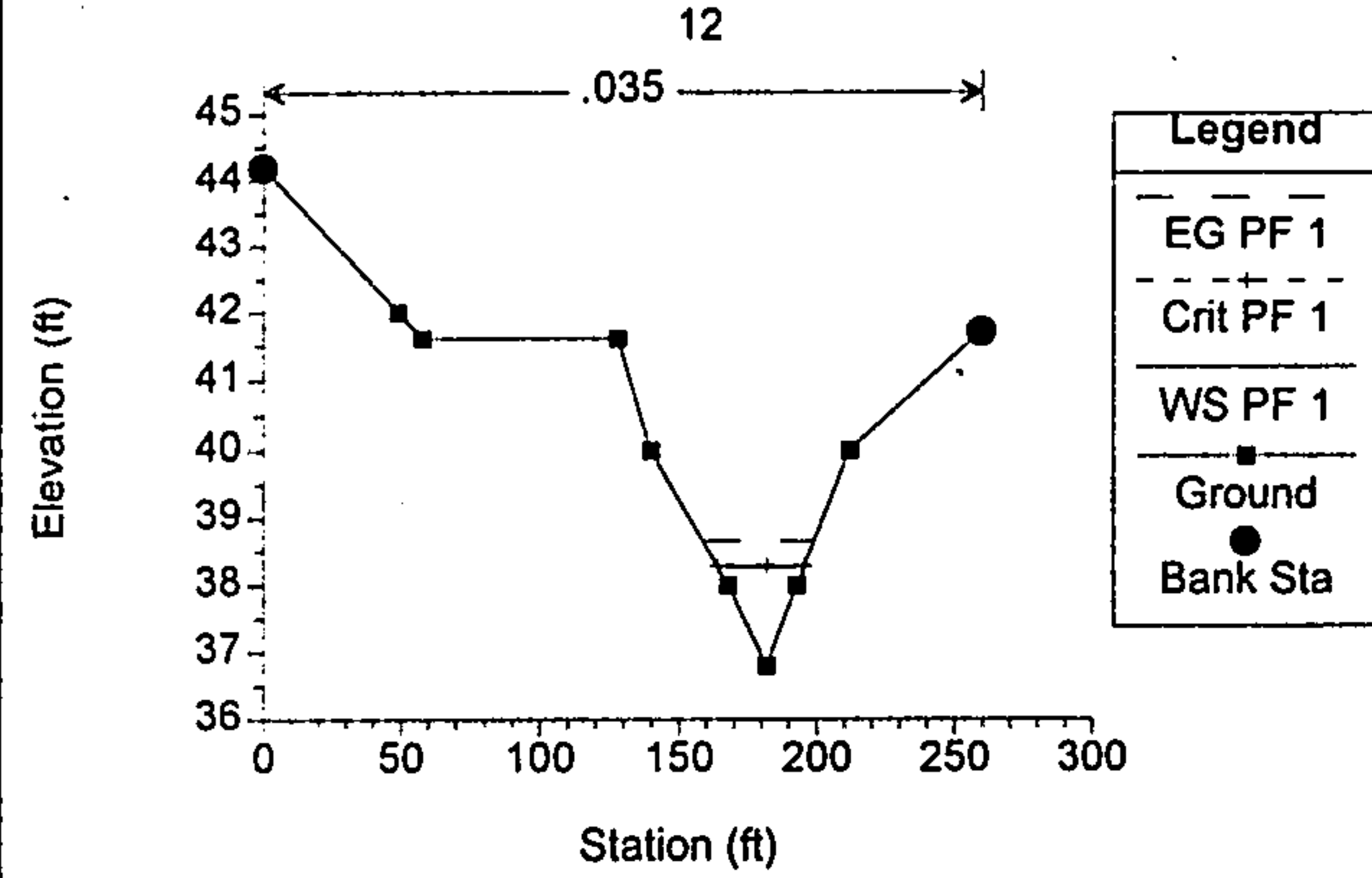
ROGAN10-12 Plan 01 6/20/01



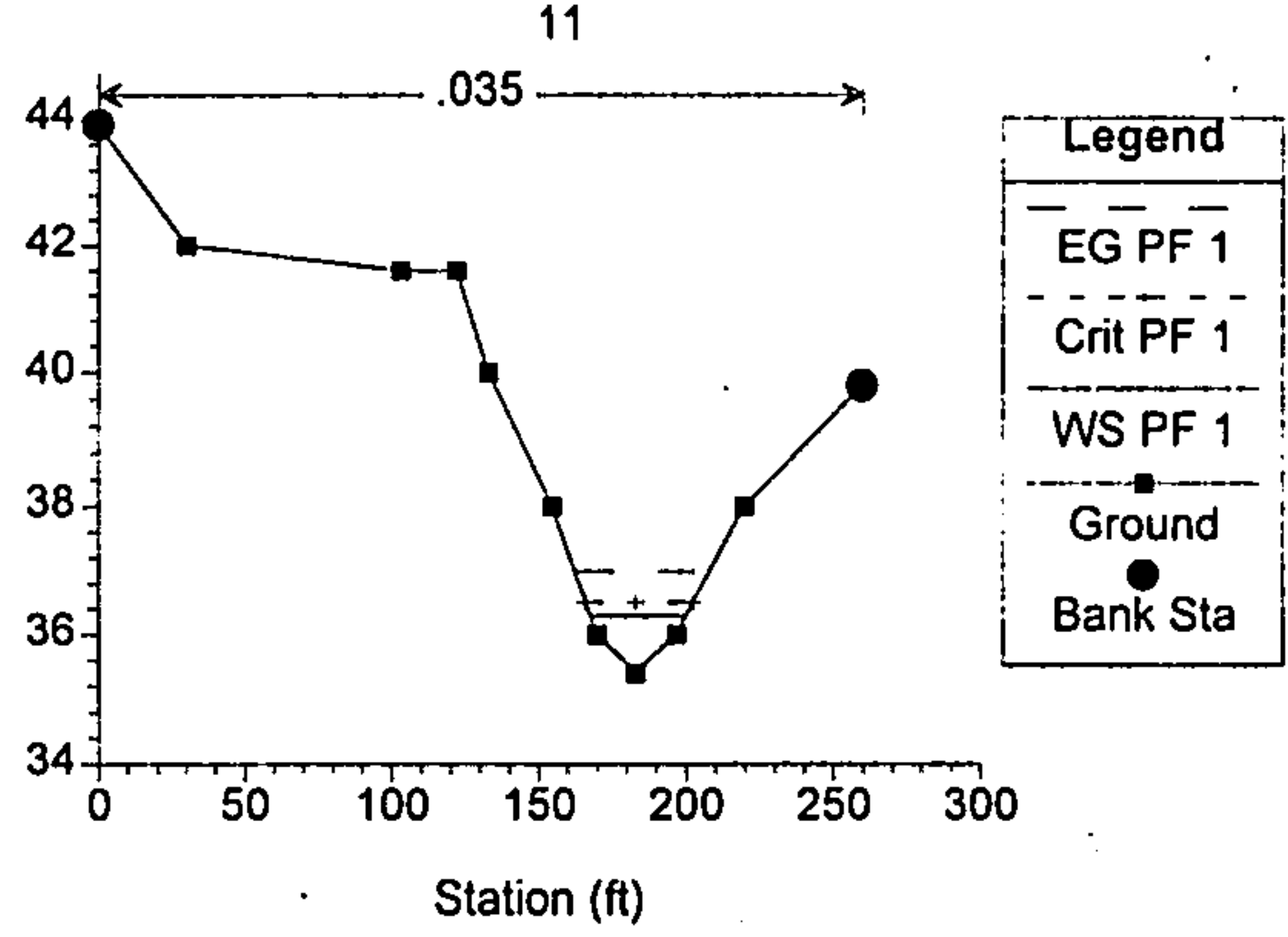
ROGAN10-12 Plan 01 6/20/01



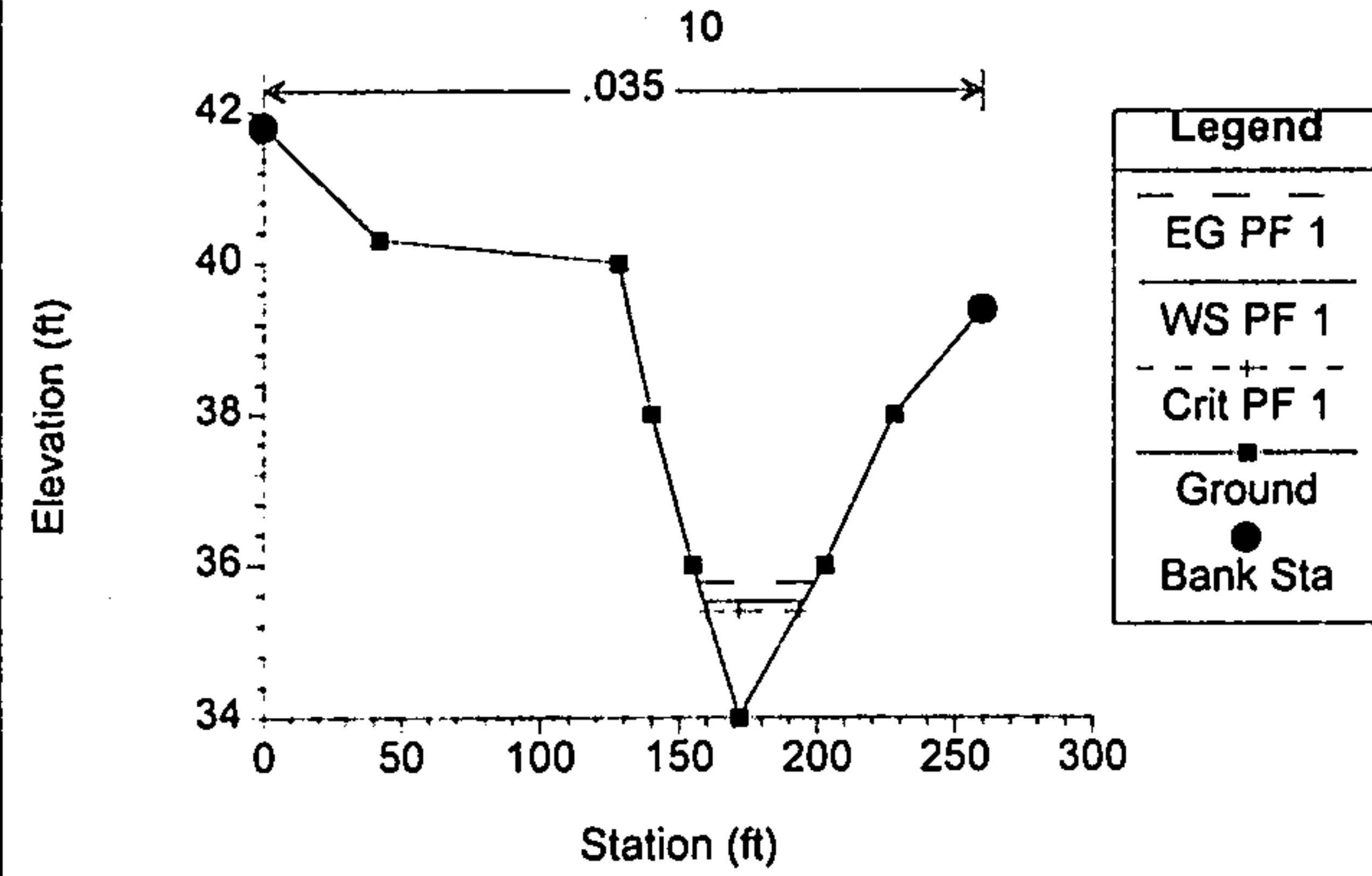
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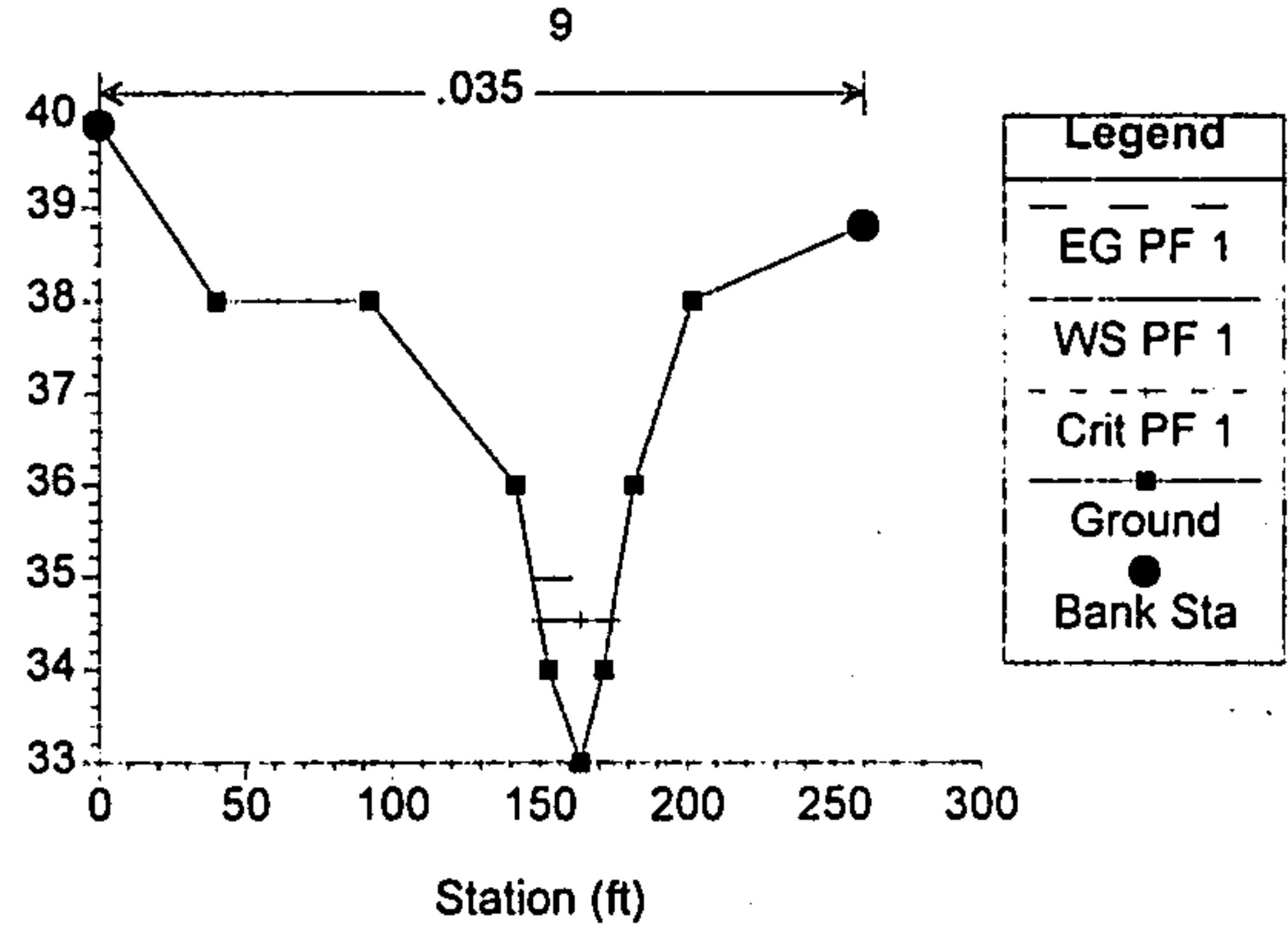
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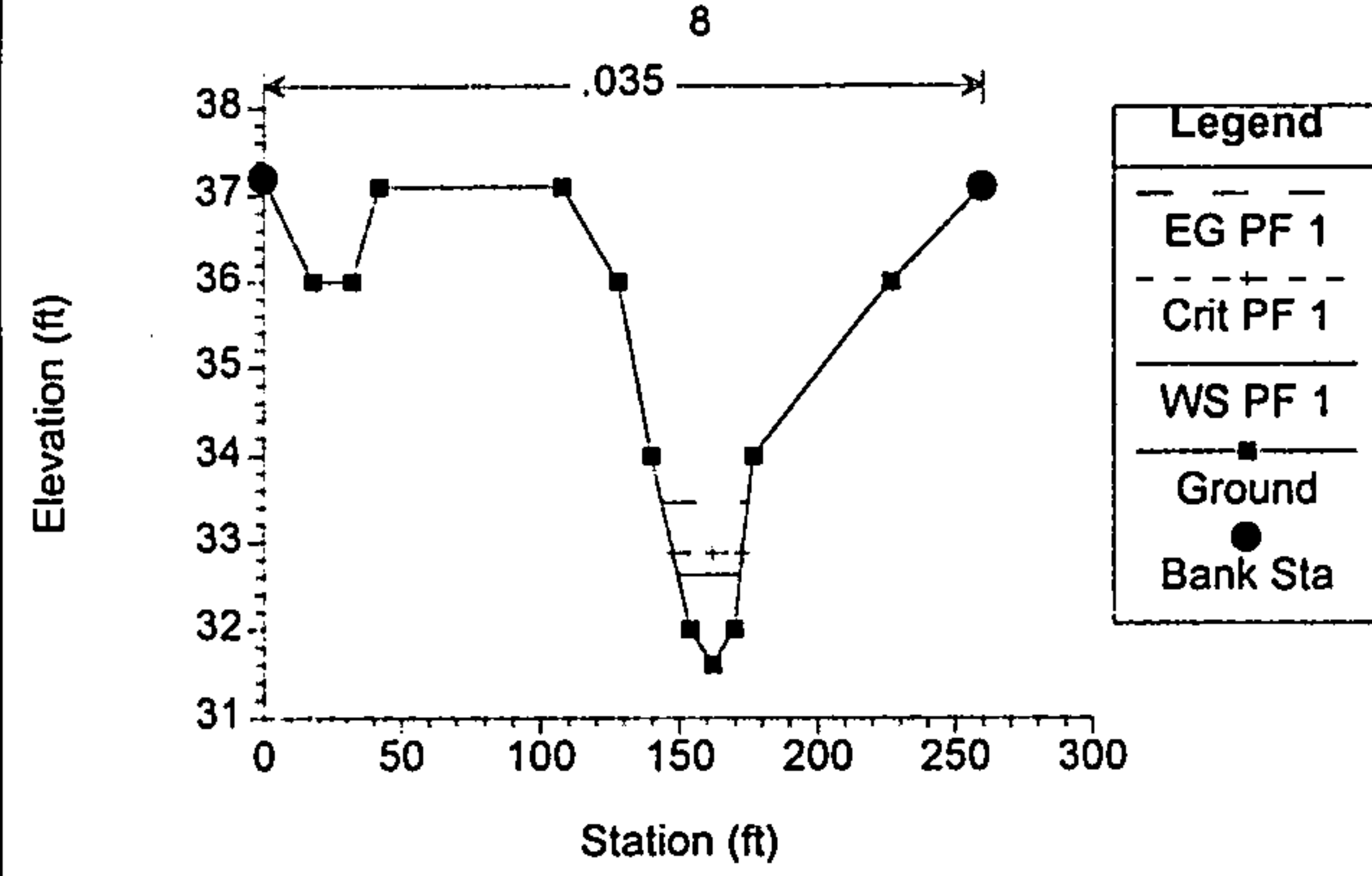
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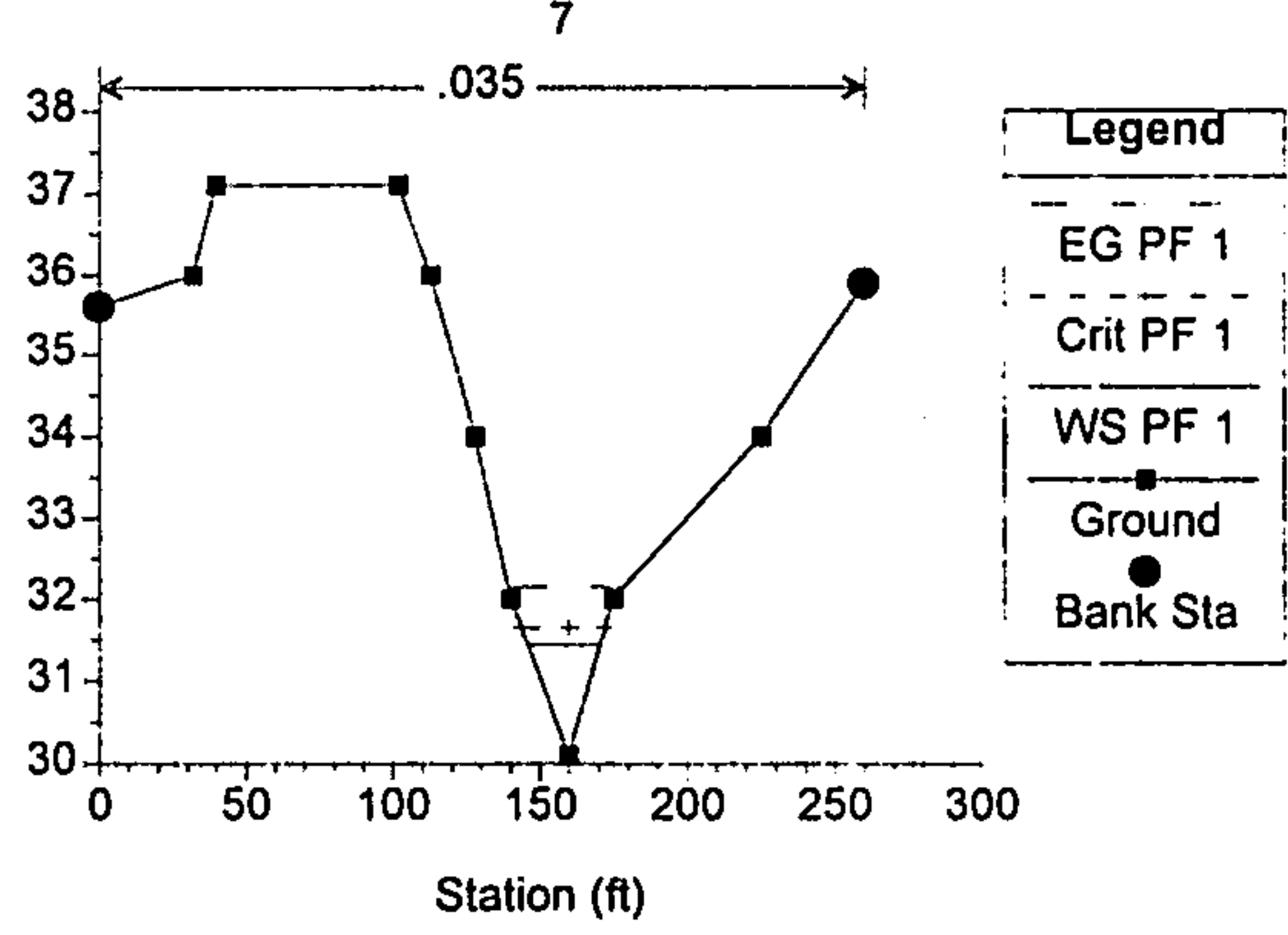
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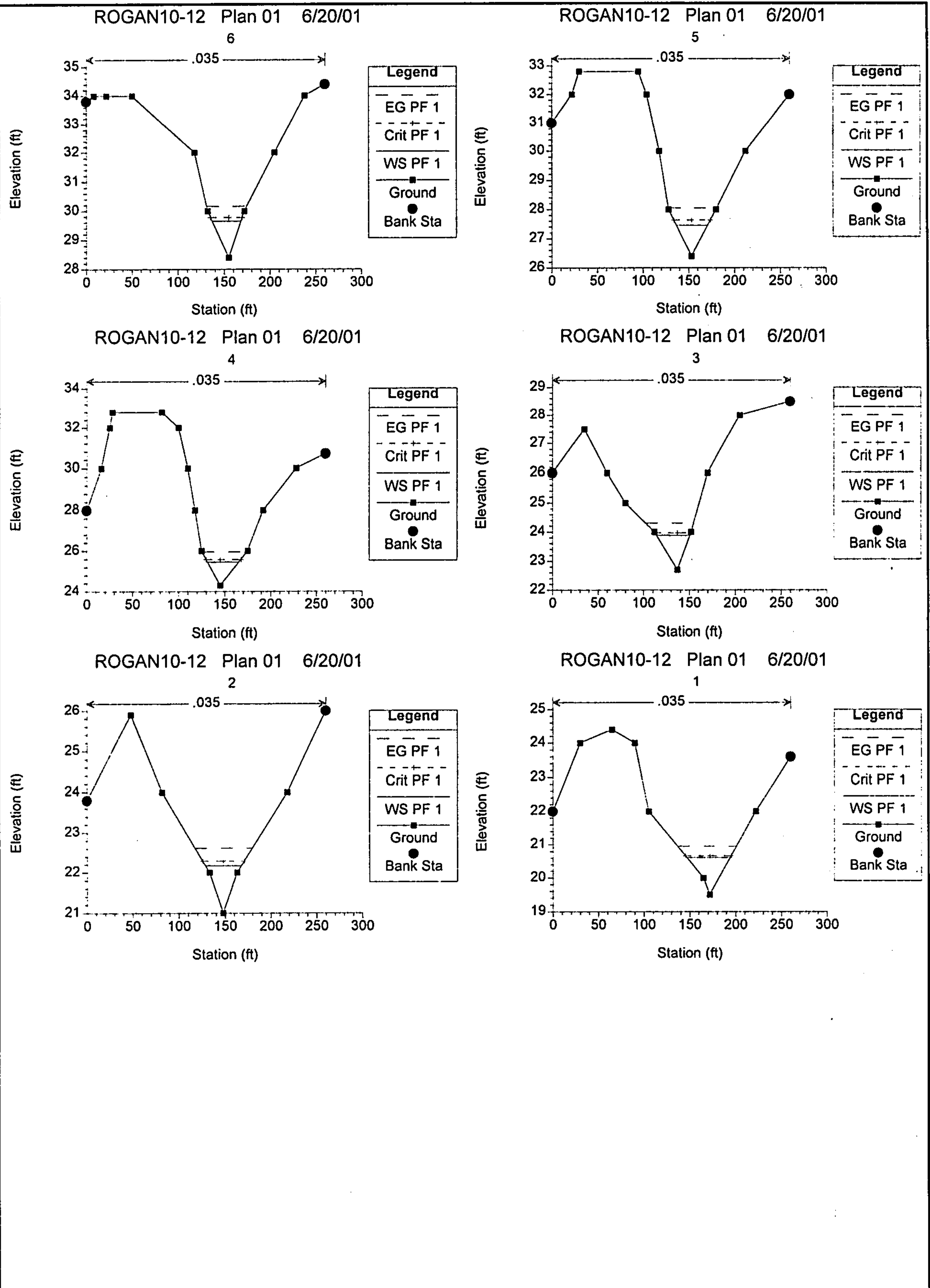
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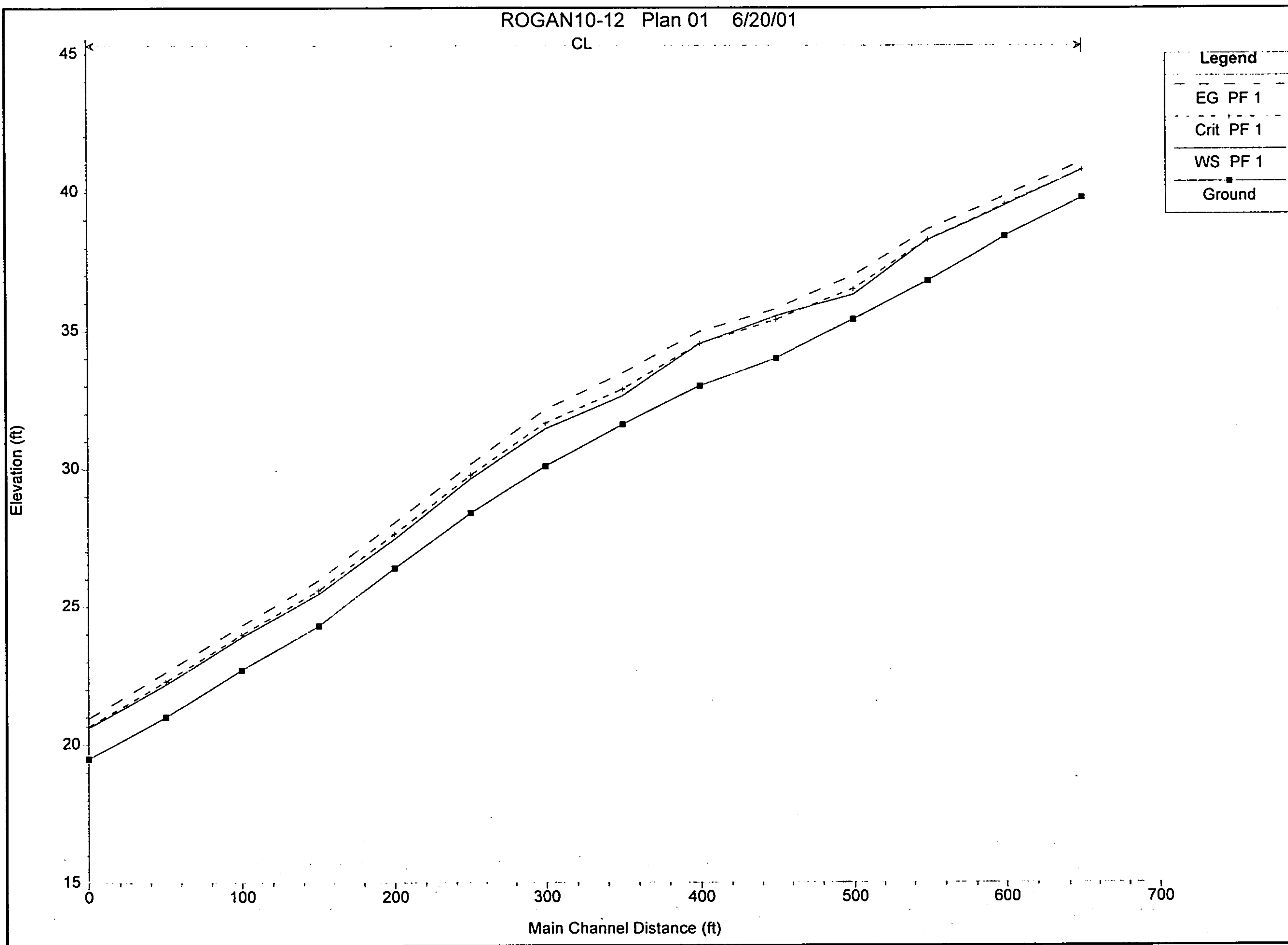


ROGAN10-12 Plan 01 6/20/01



11





Plan: Plan 01 River: CL Reach:CL Riv Sta: 14 Profile: PF 1

E.G. Elev (ft)	41.08	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.29	Wt. n-Val.		0.035	
W.S. Elev (ft)	40.79	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	40.79	Flow Area (sq ft)		25.89	
E.G. Slope (ft/ft)	0.022098	Area (sq ft)		25.89	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	45.58	Top Width (ft)		45.58	
Vel Total (ft/s)	4.33	Avg. Vel. (ft/s)		4.33	
Max Chl Dpth (ft)	0.99	Hydr. Depth (ft)		0.57	
Conv. Total (cfs)	753.4	Conv. (cfs)		753.4	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		45.63	
Min Ch El (ft)	39.80	Shear (lb/sq ft)		0.78	
Alpha	1.00	Stream Power (lb/ft s)		3.39	
Frctn Loss (ft)	1.11	Cum Volume (acre-ft)		0.31	
C & E Loss (ft)	0.00	Cum SA (acres)		0.50	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 13 Profile: PF 1

E.G. Elev (ft)	39.84	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.35	Wt. n-Val.		0.035	
W.S. Elev (ft)	39.50	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	39.54	Flow Area (sq ft)		23.67	
E.G. Slope (ft/ft)	0.027734	Area (sq ft)		23.67	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	43.17	Top Width (ft)		43.17	
Vel Total (ft/s)	4.73	Avg. Vel. (ft/s)		4.73	
Max Chl Dpth (ft)	1.10	Hydr. Depth (ft)		0.55	
Conv. Total (cfs)	672.5	Conv. (cfs)		672.5	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		43.23	
Min Ch El (ft)	38.40	Shear (lb/sq ft)		0.95	
Alpha	1.00	Stream Power (lb/ft s)		4.49	
Frctn Loss (ft)	1.23	Cum Volume (acre-ft)		0.28	
C & E Loss (ft)	0.01	Cum SA (acres)		0.45	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 12 Profile: PF 1

E.G. Elev (ft)	38.65	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.38	Wt. n-Val.		0.035	
W.S. Elev (ft)	38.28	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	38.28	Flow Area (sq ft)		22.78	
E.G. Slope (ft/ft)	0.020772	Area (sq ft)		22.78	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	31.47	Top Width (ft)		31.47	
Vel Total (ft/s)	4.92	Avg. Vel. (ft/s)		4.92	
Max Chl Dpth (ft)	1.48	Hydr. Depth (ft)		0.72	
Conv. Total (cfs)	777.1	Conv. (cfs)		777.1	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		31.61	
Min Ch El (ft)	36.80	Shear (lb/sq ft)		0.93	
Alpha	1.00	Stream Power (lb/ft s)		4.59	
Frctn Loss (ft)	1.19	Cum Volume (acre-ft)		0.25	
C & E Loss (ft)	0.00	Cum SA (acres)		0.41	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 11 Profile: PF 1

E.G. Elev (ft)	36.98	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.69	Wt. n-Val.		0.035	
W.S. Elev (ft)	36.29	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	36.50	Flow Area (sq ft)		16.81	
E.G. Slope (ft/ft)	0.059608	Area (sq ft)		16.81	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	32.56	Top Width (ft)		32.56	
Vel Total (ft/s)	6.66	Avg. Vel. (ft/s)		6.66	
Max Chl Dpth (ft)	0.89	Hydr. Depth (ft)		0.52	
Conv. Total (cfs)	458.7	Conv. (cfs)		458.7	
Length Wtd. (ft)		Wetted Per. (ft)		32.62	
Min Ch El (ft)	35.40	Shear (lb/sq ft)		1.92	
Alpha	1.00	Stream Power (lb/ft s)		12.78	
Frctn Loss (ft)	1.64	Cum Volume (acre-ft)		0.23	
C & E Loss (ft)	0.03	Cum SA (acres)		0.37	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 10 Profile: PF 1

E.G. Elev (ft)	35.78	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.25	Wt. n-Val.		0.035	
W.S. Elev (ft)	35.53	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	35.39	Flow Area (sq ft)		27.92	
E.G. Slope (ft/ft)	0.012877	Area (sq ft)		27.92	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	36.61	Top Width (ft)		36.61	
Vel Total (ft/s)	4.01	Avg. Vel. (ft/s)		4.01	
Max Chl Dpth (ft)	1.53	Hydr. Depth (ft)		0.76	
Conv. Total (cfs)	987.0	Conv. (cfs)		987.0	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		36.75	
Min Ch El (ft)	34.00	Shear (lb/sq ft)		0.61	
Alpha	1.00	Stream Power (lb/ft s)		2.45	
Frctn Loss (ft)	0.79	Cum Volume (acre-ft)		0.21	
C & E Loss (ft)	0.02	Cum SA (acres)		0.33	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 9 Profile: PF 1

E.G. Elev (ft)	34.97	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.44	Wt. n-Val.		0.035	
W.S. Elev (ft)	34.53	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	34.53	Flow Area (sq ft)		21.05	
E.G. Slope (ft/ft)	0.019522	Area (sq ft)		21.05	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	24.57	Top Width (ft)		24.57	
Vel Total (ft/s)	5.32	Avg. Vel. (ft/s)		5.32	
Max Chl Dpth (ft)	1.53	Hydr. Depth (ft)		0.86	
Conv. Total (cfs)	801.6	Conv. (cfs)		801.6	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		24.77	
Min Ch El (ft)	33.00	Shear (lb/sq ft)		1.04	
Alpha	1.00	Stream Power (lb/ft s)		5.51	
Frctn Loss (ft)	0.98	Cum Volume (acre-ft)		0.18	
C & E Loss (ft)	0.00	Cum SA (acres)		0.30	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 8 Profile: PF 1

E.G. Elev (ft)	33.46	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.83	Wt. n-Val.		0.035	
W.S. Elev (ft)	32.63	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	32.88	Flow Area (sq ft)		15.35	
E.G. Slope (ft/ft)	0.049953	Area (sq ft)		15.35	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	22.61	Top Width (ft)		22.61	
Vel Total (ft/s)	7.30	Avg. Vel. (ft/s)		7.30	
Max Chl Dpth (ft)	1.03	Hydr. Depth (ft)		0.68	
Conv. Total (cfs)	501.1	Conv. (cfs)		501.1	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		22.76	
Min Ch El (ft)	31.60	Shear (lb/sq ft)		2.10	
Alpha	1.00	Stream Power (lb/ft s)		15.35	
Frctn Loss (ft)	1.48	Cum Volume (acre-ft)		0.16	
C & E Loss (ft)	0.04	Cum SA (acres)		0.27	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 7 Profile: PF 1

E.G. Elev (ft)	32.15	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.70	Wt. n-Val.		0.035	
W.S. Elev (ft)	31.45	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	31.66	Flow Area (sq ft)		16.67	
E.G. Slope (ft/ft)	0.042848	Area (sq ft)		16.67	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	24.78	Top Width (ft)		24.78	
Vel Total (ft/s)	6.72	Avg. Vel. (ft/s)		6.72	
Max Chl Dpth (ft)	1.35	Hydr. Depth (ft)		0.67	
Conv. Total (cfs)	541.1	Conv. (cfs)		541.1	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		24.93	
Min Ch El (ft)	30.10	Shear (lb/sq ft)		1.79	
Alpha	1.00	Stream Power (lb/ft s)		12.02	
Frctn Loss (ft)	1.49	Cum Volume (acre-ft)		0.14	
C & E Loss (ft)	0.13	Cum SA (acres)		0.24	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 6 Profile: PF 1

E.G. Elev (ft)	30.16	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.52	Wt. n-Val.		0.035	
W.S. Elev (ft)	29.65	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	29.78	Flow Area (sq ft)		19.43	
E.G. Slope (ft/ft)	0.034745	Area (sq ft)		19.43	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	31.17	Top Width (ft)		31.17	
Vel Total (ft/s)	5.76	Avg. Vel. (ft/s)		5.76	
Max Chl Dpth (ft)	1.25	Hydr. Depth (ft)		0.62	
Conv. Total (cfs)	600.9	Conv. (cfs)		600.9	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		31.27	
Min Ch El (ft)	28.40	Shear (lb/sq ft)		1.35	
Alpha	1.00	Stream Power (lb/ft s)		7.77	
Frctn Loss (ft)	1.93	Cum Volume (acre-ft)		0.12	
C & E Loss (ft)	0.06	Cum SA (acres)		0.21	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 5 Profile: PF 1

E.G. Elev (ft)	28.05	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.60	Wt. n-Val.		0.035	
W.S. Elev (ft)	27.45	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	27.64	Flow Area (sq ft)		18.06	
E.G. Slope (ft/ft)	0.050205	Area (sq ft)		18.06	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	34.27	Top Width (ft)		34.27	
Vel Total (ft/s)	6.20	Avg. Vel. (ft/s)		6.20	
Max Chl Dpth (ft)	1.05	Hydr. Depth (ft)		0.53	
Conv. Total (cfs)	499.9	Conv. (cfs)		499.9	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		34.33	
Min Ch El (ft)	26.40	Shear (lb/sq ft)		1.65	
Alpha	1.00	Stream Power (lb/ft s)		10.23	
Frctn Loss (ft)	2.09	Cum Volume (acre-ft)		0.10	
C & E Loss (ft)	0.01	Cum SA (acres)		0.17	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 4 Profile: PF 1

E.G. Elev (ft)	25.96	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.49	Wt. n-Val.		0.035	
W.S. Elev (ft)	25.46	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	25.59	Flow Area (sq ft)		19.90	
E.G. Slope (ft/ft)	0.036294	Area (sq ft)		19.90	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	34.22	Top Width (ft)		34.22	
Vel Total (ft/s)	5.63	Avg. Vel. (ft/s)		5.63	
Max Chl Dpth (ft)	1.16	Hydr. Depth (ft)		0.58	
Conv. Total (cfs)	587.9	Conv. (cfs)		587.9	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		34.30	
Min Ch El (ft)	24.30	Shear (lb/sq ft)		1.31	
Alpha	1.00	Stream Power (lb/ft s)		7.40	
Frctn Loss (ft)	2.07	Cum Volume (acre-ft)		0.07	
C & E Loss (ft)	0.04	Cum SA (acres)		0.13	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 3 Profile: PF 1

E.G. Elev (ft)	24.30	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.42	Wt. n-Val.		0.035	
W.S. Elev (ft)	23.88	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	23.97	Flow Area (sq ft)		21.54	
E.G. Slope (ft/ft)	0.030276	Area (sq ft)		21.54	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	36.41	Top Width (ft)		36.41	
Vel Total (ft/s)	5.20	Avg. Vel. (ft/s)		5.20	
Max Chl Dpth (ft)	1.18	Hydr. Depth (ft)		0.59	
Conv. Total (cfs)	643.7	Conv. (cfs)		643.7	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		36.49	
Min Ch El (ft)	22.70	Shear (lb/sq ft)		1.12	
Alpha	1.00	Stream Power (lb/ft s)		5.80	
Frctn Loss (ft)	1.64	Cum Volume (acre-ft)		0.05	
C & E Loss (ft)	0.02	Cum SA (acres)		0.09	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 2 Profile: PF 1

E.G. Elev. (ft)	22.62	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.44	Wt. n-Val.		0.035	
W.S. Elev (ft)	22.17	Reach Len. (ft)	50.00	50.00	50.00
Crit W.S. (ft)	22.29	Flow Area (sq ft)		20.92	
E.G. Slope (ft/ft)	0.036675	Area (sq ft)		20.92	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	39.09	Top Width (ft)		39.09	
Vel Total (ft/s)	5.35	Avg. Vel. (ft/s)		5.35	
Max Chl Dpth (ft)	1.17	Hydr. Depth (ft)		0.54	
Conv. Total (cfs)	584.8	Conv. (cfs)		584.8	
Length Wtd. (ft)	50.00	Wetted Per. (ft)		39.16	
Min Ch El (ft)	21.00	Shear (lb/sq ft)		1.22	
Alpha	1.00	Stream Power (lb/ft s)		6.55	
Frctn Loss (ft)	1.68	Cum Volume (acre-ft)		0.03	
C & E Loss (ft)	0.00	Cum SA (acres)		0.05	

Plan: Plan 01 River: CL Reach:CL Riv Sta: 1 Profile: PF 1

E.G. Elev (ft)	20.95	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.34	Wt. n-Val.		0.035	
W.S. Elev (ft)	20.61	Reach Len. (ft)			
Crit W.S. (ft)	20.67	Flow Area (sq ft)		24.02	
E.G. Slope (ft/ft)	0.030070	Area (sq ft)		24.02	
Q Total (cfs)	112.00	Flow (cfs)		112.00	
Top Width (ft)	47.60	Top Width (ft)		47.60	
Vel Total (ft/s)	4.66	Avg. Vel. (ft/s)		4.66	
Max Chl Dpth (ft)	1.11	Hydr. Depth (ft)		0.50	
Conv. Total (cfs)	645.9	Conv. (cfs)		645.9	
Length Wtd. (ft)		Wetted Per. (ft)		47.66	
Min Ch El (ft)	19.50	Shear (lb/sq ft)		0.95	
Alpha	1.00	Stream Power (lb/ft s)		4.41	
Frctn Loss (ft)	1.64	Cum Volume (acre-ft)			
C & E Loss (ft)	0.03	Cum SA (acres)			

HEC-RAS Plan: Plan 01 River: CL Reach: CL

Reach	River Sta	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
CL	14	112.00	39.80	40.79	40.79	41.08	0.022098	4.33	25.89	45.58	1.01
CL	13	112.00	38.40	39.50	39.54	39.84	0.027734	4.73	23.67	43.17	1.13
CL	12	112.00	36.80	38.28	38.28	38.65	0.020772	4.92	22.78	31.47	1.02
CL	11	112.00	35.40	36.29	36.50	36.98	0.059608	6.66	16.81	32.56	1.63
CL	10	112.00	34.00	35.53	35.39	35.78	0.012877	4.01	27.92	36.61	0.81
CL	9	112.00	33.00	34.53	34.53	34.97	0.019522	5.32	21.05	24.57	1.01
CL	8	112.00	31.60	32.63	32.88	33.46	0.049953	7.30	15.35	22.61	1.56
CL	7	112.00	30.10	31.45	31.66	32.15	0.042848	6.72	16.67	24.78	1.44
CL	6	112.00	28.40	29.65	29.78	30.16	0.034745	5.76	19.43	31.17	1.29
CL	5	112.00	26.40	27.45	27.64	28.05	0.050205	6.20	18.06	34.27	1.50
CL	4	112.00	24.30	25.46	25.59	25.96	0.036294	5.63	19.90	34.22	1.30
CL	3	112.00	22.70	23.88	23.97	24.30	0.030276	5.20	21.54	36.41	1.19
CL	2	112.00	21.00	22.17	22.29	22.62	0.036675	5.35	20.92	39.09	1.29
CL	1	112.00	19.50	20.61	20.67	20.95	0.030070	4.66	24.02	47.60	1.16

↑
EGL

EROSION SETBACK CALCULATIONS				
Q(100)=	112			
Q(D)=0.2*Q(100)				
Q(D) =	22			
@ Slope>Sc=0.037*Q(D)^-0.133				
then W(D)=4.6*Q(D)^0.4				
W(D) =	16			
Wavelength=10W(D) for Q(D)<200 cfs				
Wavelength =	160			
Wavelength=(0.8+4*log(Q(D)))*W(D) for 200<Q(D)<2000 cfs				
Wavelength =	99			
Wavelength=14*W(D) for Q(D)>2000 cfs				
Wavelength =	223			
BSB=Wavelength/4				
BSB =	40			
CSB=BSB + W(D)/2				
CSB =	48			

AGREEMENT AND COVENANT

#609681

This Agreement and Covenant, between the City of Albuquerque, New Mexico ("City") and Hoech Real Estate Corporation, ("User") is made in Albuquerque, New Mexico and is entered into as of the date of recording this Agreement with the Bernalillo County Clerk.

1. **Recital.** The User is the owner of certain real property ("User's Property") located at Vallejo Place N.E., in Albuquerque, New Mexico, and more particularly described as: Tract A (Future Lots 13 and 14), Vineyard Estates, Unit IIIA, as shown on Preliminary Plat dated 12-10-98, DRB Case No. 98-123, Approval Date 02/02/99, subsequent Subdivision Plat filed in the Office of the County Clerk of Bernalillo County, New Mexico on May 13, 1999, Book 99C-, Page 115.

The City is the owner of certain real property, easement or public right-of-way ("City's Property") in the vicinity of, contiguous to, abutting or within User's Property, and more particularly described as: Temporary Public Drainage Easement comprising Tract A, Future Lots 13 and 14, Vineyard Estates Unit IIIA, granted by Preliminary Plat dated 12-10-1998, DRB 98-123, Approval Date: 02/02/1999, subsequent Subdivision Plat filed in the Office of the County Clerk of Bernalillo County, New Mexico on , 1999, Book 99C- Page .

~~The User wishes to construct upon, improve or repair and to maintain the following "Improvement" on the City's Property (or already has done so):~~

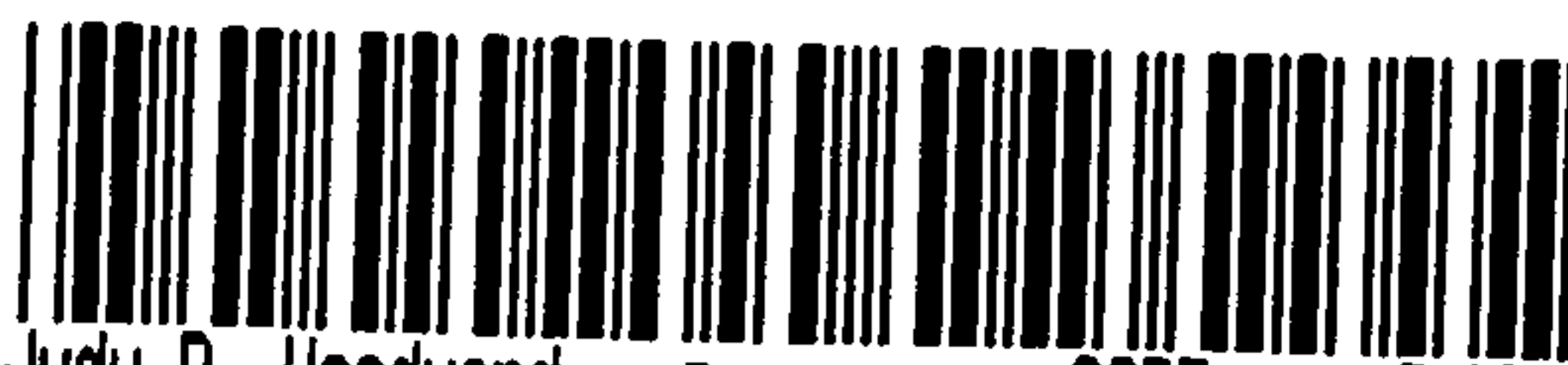
Detention Pond within the above referenced lots as shown on the Grading and Drainage Plan for Vineyard Estates Unit IIIA, with Engineer's Stamp dated 01-18-1999.

A sketch of the proposed or existing Improvement is attached as Exhibit A and made a part of this Agreement.

The City agrees to permit the Improvement to exist on the City's Property provided the User complies with the terms of this Agreement.

2. **City Use of City's Property and City Liability.** The City has the right to enter upon the City's Property at any time and perform whatever inspection, installation, maintenance, repair, modification or removal ("Work") it deems appropriate without liability to the User. If the Work affects the Improvement the City will not be financially or otherwise responsible for rebuilding or repairing the Improvement. The User promptly will repair the Improvement to the City's satisfaction. The cost of repairing the Improvement will be paid by User.

3. **User's Responsibility for Improvement.** The User will be solely responsible for constructing, maintaining, repairing and, if required, removing the Improvement, all in accordance with standards required by the City as per the approved Grading and Drainage Plan C20/D3D on file at City Hydrology. The User will be solely responsible for paying all related costs. The User will not permit the Improvement to constitute a hazard to the health or safety of the general public or to interfere with the City's use of the City's Property. The User will conform with all



applicable laws, ordinances and regulations.

4. Use of the Improvement. If the City's Property is a public right-of-way, it shall be open to the use of the general public at all times, subject to reasonable curtailment during periods of construction, maintenance or repair.

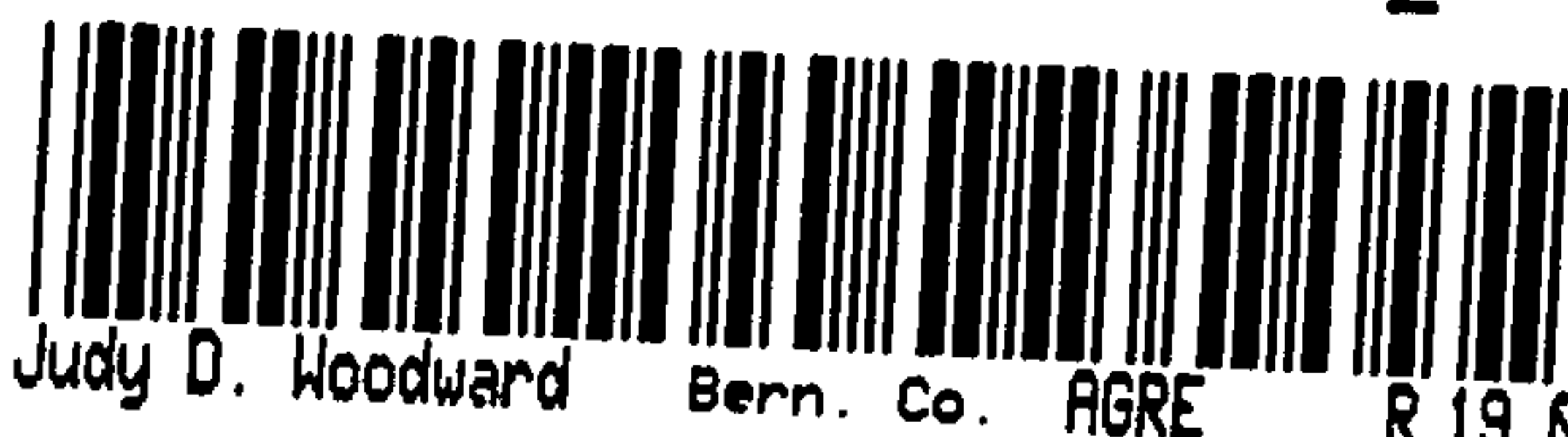
5. Demand for Repair, Modification or Removal. The City may send written notice ("Notice") to the User requiring the User to repair, modify or remove the Improvement within ___ days ("Deadline") and the User will comply promptly with the requirements of the Notice. If removal is demanded, the City also may require the User to return the City's Property to its original condition by the Deadline. The User will perform all required work by the Deadline, at User's sole expense.

6. Failure to Perform by User and Emergency Work by City. If the User fails to comply with the terms of the Notice by the Deadline stated, or, if the City determines that an emergency condition exists, the City may perform the work itself. The City then may assess the User for the cost of the work and for any other expenses or damages which result from User's failure to perform. The User agrees promptly to pay the City the amount assessed. If the User fails to pay the City within thirty (30) days after the City gives the User written notice of the amount due, the City may impose a lien against User's Property for the total resulting amount.

7. Cancellation of Agreement and Release of Covenant. This Agreement may be cancelled and User's covenants released by the City at will by the City's mailing to the User notice of the City's intention to record a Cancellation and Release with the Bernalillo County Clerk. The Cancellation and Release will be effective thirty (30) days after the date of mailing the notice to the User unless a later date is stated in the notice or the Cancellation and Release. After the effective date, the City will record the Cancellation and Release with the Bernalillo County Clerk.

8. Condemnation. If any part of the User's Property is ever condemned by the City, the User will forego all claims to compensation for any portion of User's structure which encroaches on City Property and for severance damage to the remaining portion of User's structure on User's Property.

9. Assessment. Nothing in this Agreement shall be construed to relieve the User, his heirs, assigns and successors from an assessment against User's Property for improvements to the City Property under a duly authorized and approved Special Assessment District. The parties specifically agree that the value of the Improvement will not reduce the amount assessed by the City.



10. Notice. For purposes of giving formal written notice to the User, User's address is:

Hoech Real Estate Corporation
6729 Academy Road NE
Suite B
Albuquerque, NM 87109

Notice may be given to the User either in person or by mailing the notice by regular U.S. mail, postage paid. Notice will be considered to have been received by the User within 3 days after the notice is mailed if there is no actual evidence of receipt. The User may change User's address by giving written notice of the change by certified mail, return receipt requested, to the City Engineer at P.O. Box 1293, Albuquerque, New Mexico 87103.

11. Indemnification. The User agrees to defend, indemnify and hold harmless the City, its officials, agents and employees from and against any and all claims, actions, suits or proceedings of any kind brought against said parties as a result of User's use of the City's Property. To the extent, if at all, Section 56-7-1 NMSA 1978 is applicable to this Agreement, this Agreement to indemnify will not extend to liability, claims, damages, losses or expenses, including attorney's fees, arising out of (1) the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs or specifications by the indemnitee, or the agents or employees of the indemnitee; or (2) the giving of or the failure to give direction or instructions by the indemnitee, where such giving or failure to give directions or instructions is the primary cause of bodily injury to persons or damage to property.

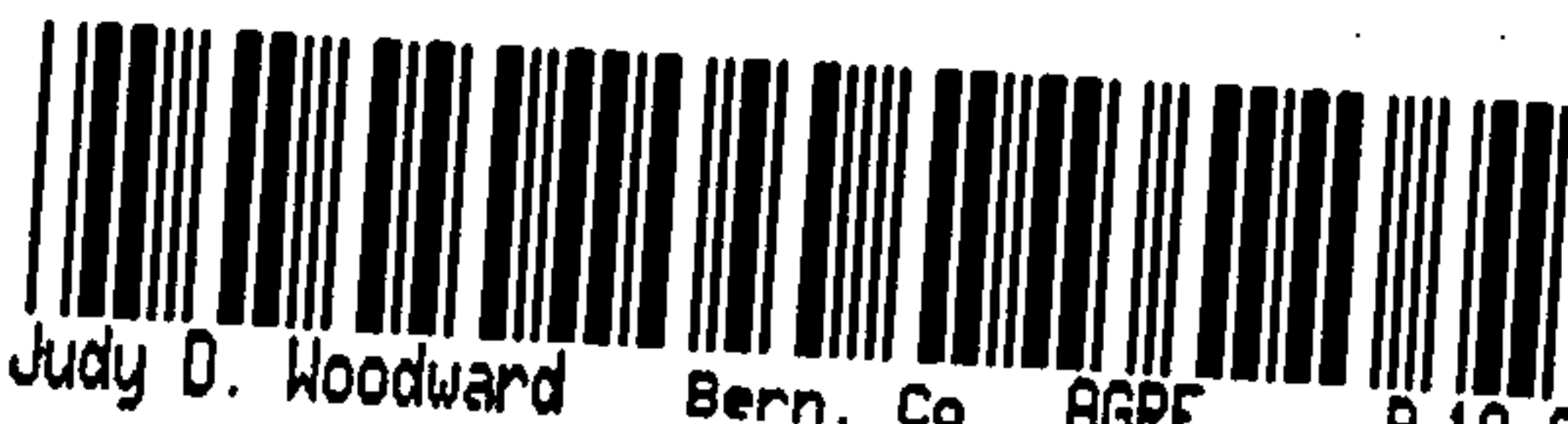
12. Term. This Agreement shall continue until revoked by the City pursuant to Section 7 above.

13. Binding on User's Property. The covenants and obligations of the User set forth herein shall be binding on User, his heirs, assigns and successors and on User's Property and constitute covenants running with User's Property until released by the City:

14. Entire Agreement. This Agreement contains the entire agreement of the parties and supersedes any and all other agreements or understandings, oral or written, whether previous to the execution hereof or contemporaneous herewith.

15. Changes of Agreement. Changes to this Agreement are not binding unless made in writing, signed by both parties.

j:vp



Judy D. Woodward

Bern. Co. AGRE

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Approved as to form by
Legal Department 2/23/95

16. Construction and Severability. If any part of this Agreement is held to be invalid or unenforceable, the remainder of the Agreement will remain valid and enforceable if the remainder is reasonably capable of completion.

17. Captions. The captions to the sections or paragraphs of this Agreement are not part of this Agreement and will not affect the meaning or construction of any of its provisions.

CITY OF ALBUQUERQUE

USER: HOECH REAL ESTATE CORPORATION

By: [Signature]
Lawrence Rael
Chief Administrative Officer
Dated: 4/28/99

By: [Signature]
Its: DONALD G. HOECH, PRESIDENT
Dated: 4-14-99

APPROVED:

Reviewed by:

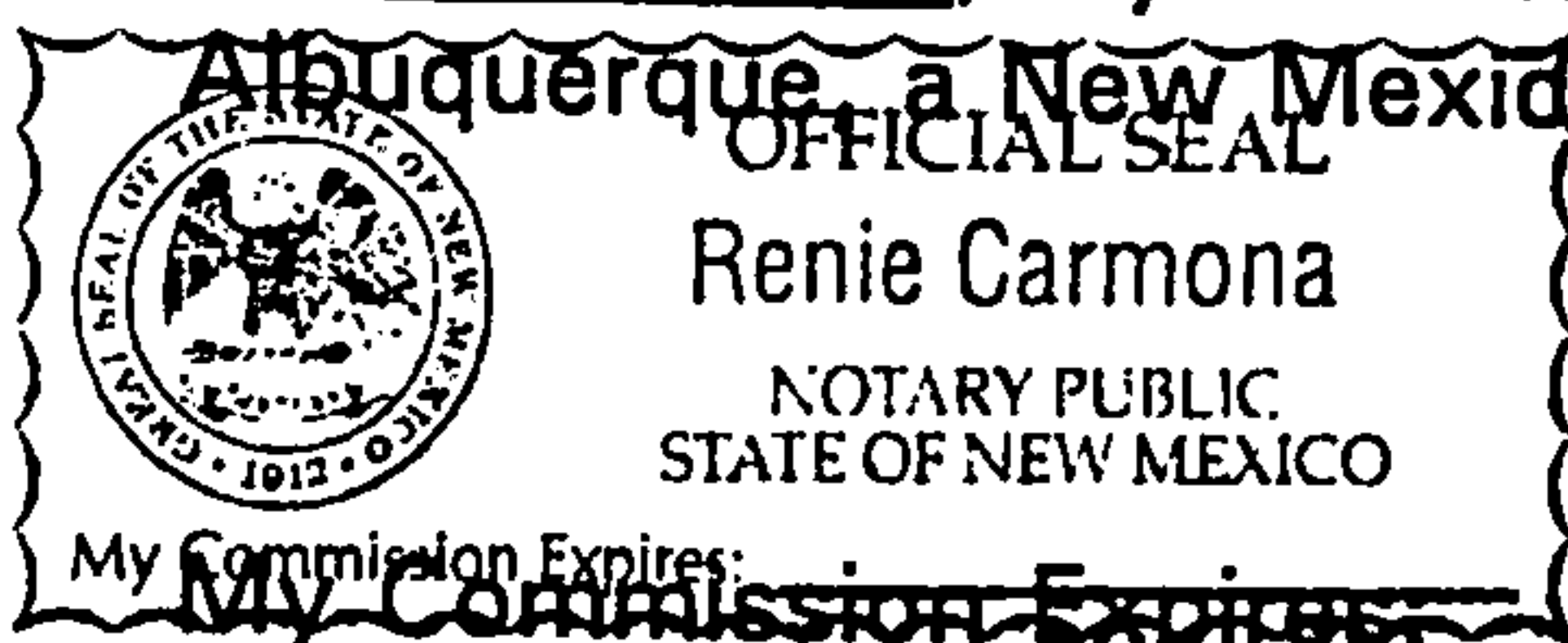
[Signature] 4/23/99
Director
Public Works Department
[Signature] 4/20/99

[Signature] 4/15/99
Acting City Engineer
[Signature] 4/15/99

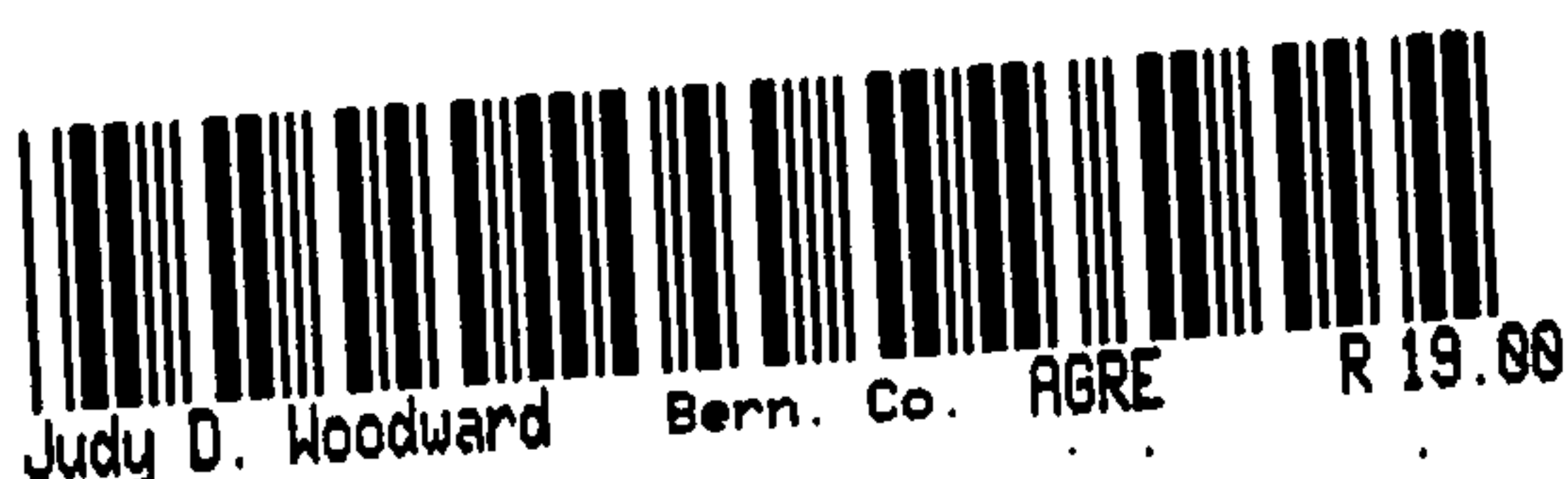
CITY'S ACKNOWLEDGEMENTS

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

This instrument was acknowledged before me on April 28, 1999, by Lawrence Rael, Chief Administrative Officer for the City of Albuquerque, a New Mexico municipal corporation, on behalf of the corporation.



[Signature]
Notary Public



STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

This instrument was acknowledged before me on April 23,
1999, by John R. Castillo, Acting Director, Public Works Department for the City of
Albuquerque, a New Mexico municipal corporation, on behalf of the corporation.

Felicia Liron
Notary Public

My Commission Expires:

1-27-2002

USER'S ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

This instrument was acknowledged before me on April 14,
1999, by Donald G. Hoech, President, on behalf of Hoech Real Estate Corporation.

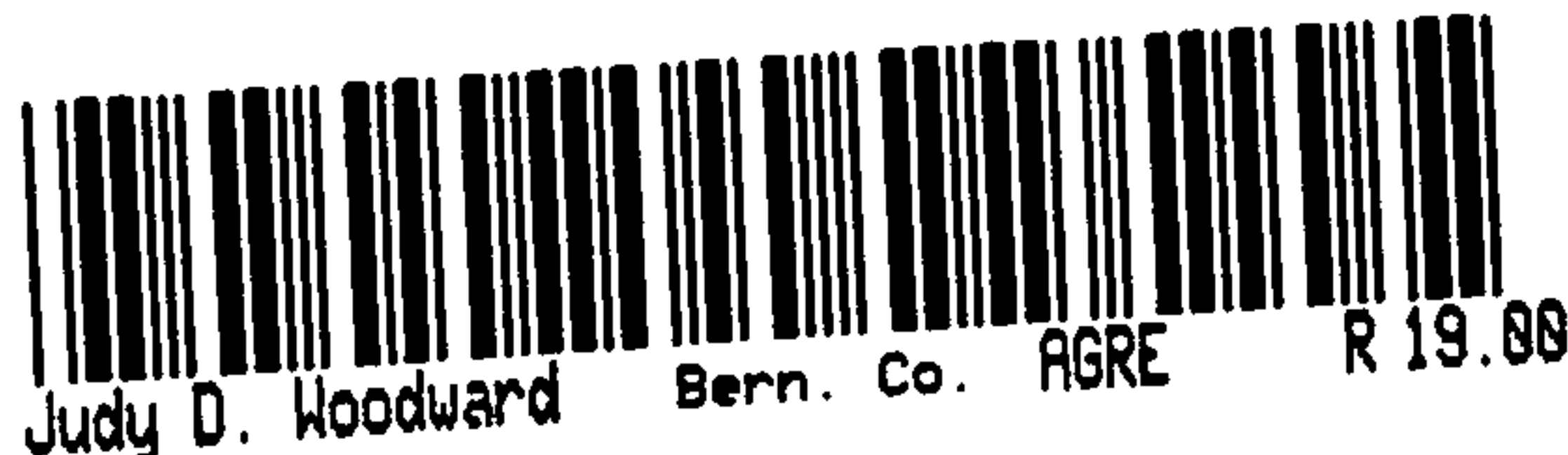
Juan M. Cala
Notary Public

My Commission Expires:

2-04-2002

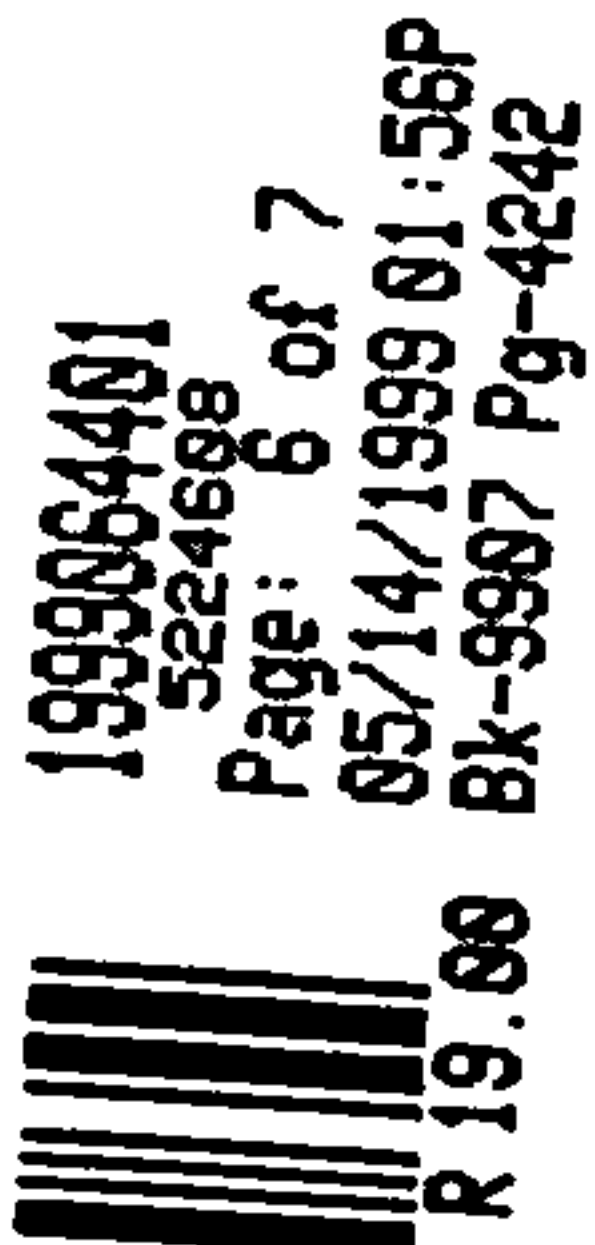


OFFICIAL SEAL
JUAN M. CALA
NOTARY PUBLIC - STATE OF NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires 2-04-2002



1999064401
5224698
Page: 5 of 7
05/14/1999 01:56P
Bk-9907 Pg-4242

Approved as to form by
Legal Department 2/23/95



Judy D. Woodward

Born. Co. AGRE

R 19.00

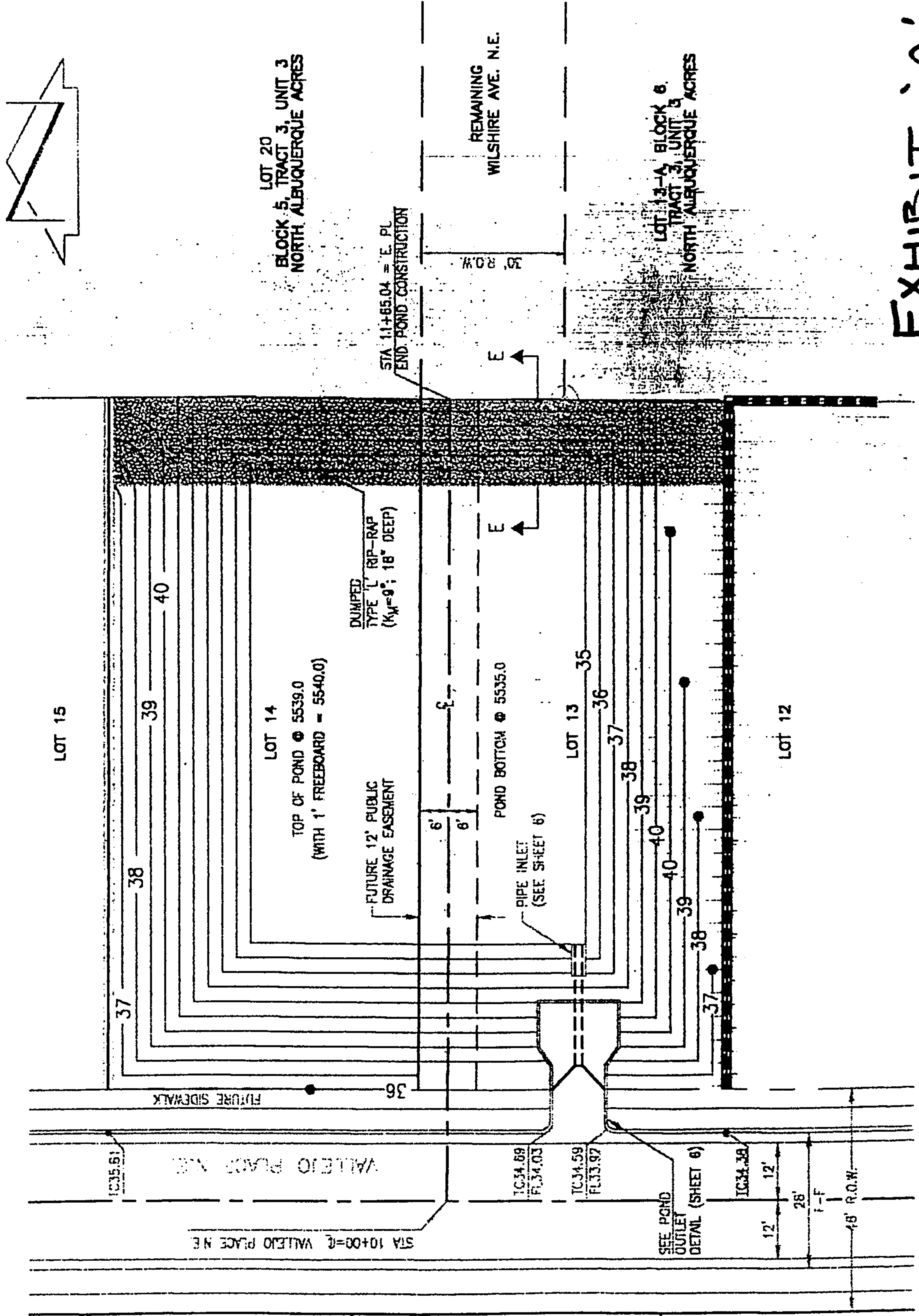


EXHIBIT 'A'

1234

1999064401

5224888

Page: 7 of 7

05/14/1999 01:58P

BK-9907 Pg-4242



Judy D. Woodward Bern. Co. AGRE R 19.00

LOT A2-P2, BLOCK 5
CARRINGTON SUBDIVISION, UNIT ONE
(FILED 12-08-1993, EDO-348)

TABLE 1
TOP OF ALUMINUM CL. MONUMENT
SHOULDER TIES 4577
ELEV. 6886.70

LOT A1-P1, BLOCK 5
CARRINGTON SUBDIVISION, UNIT ONE
(FILED 12-08-1993, EDO-348)

LOT 41
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 40
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 39
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 38
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 37
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 36
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 35
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 34
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

TABLE 2
TOP OF ALUMINUM CL. MONUMENT
8' OFFSET SOUTH OF CL. INTERSECTION
SHOULDER TIES 11180
ELEV. 6886.70

LOT 33
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 56
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 57
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 58
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 61
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 62
VINEYARD ESTATES UNIT III
(FILED 08-28-1993, EDO-148)

LOT 20
BLOCK 5, TRACT 3, U.S.
NORTH ALBUQUERQUE /
(FILED 08-10-1993, EDO-12)

