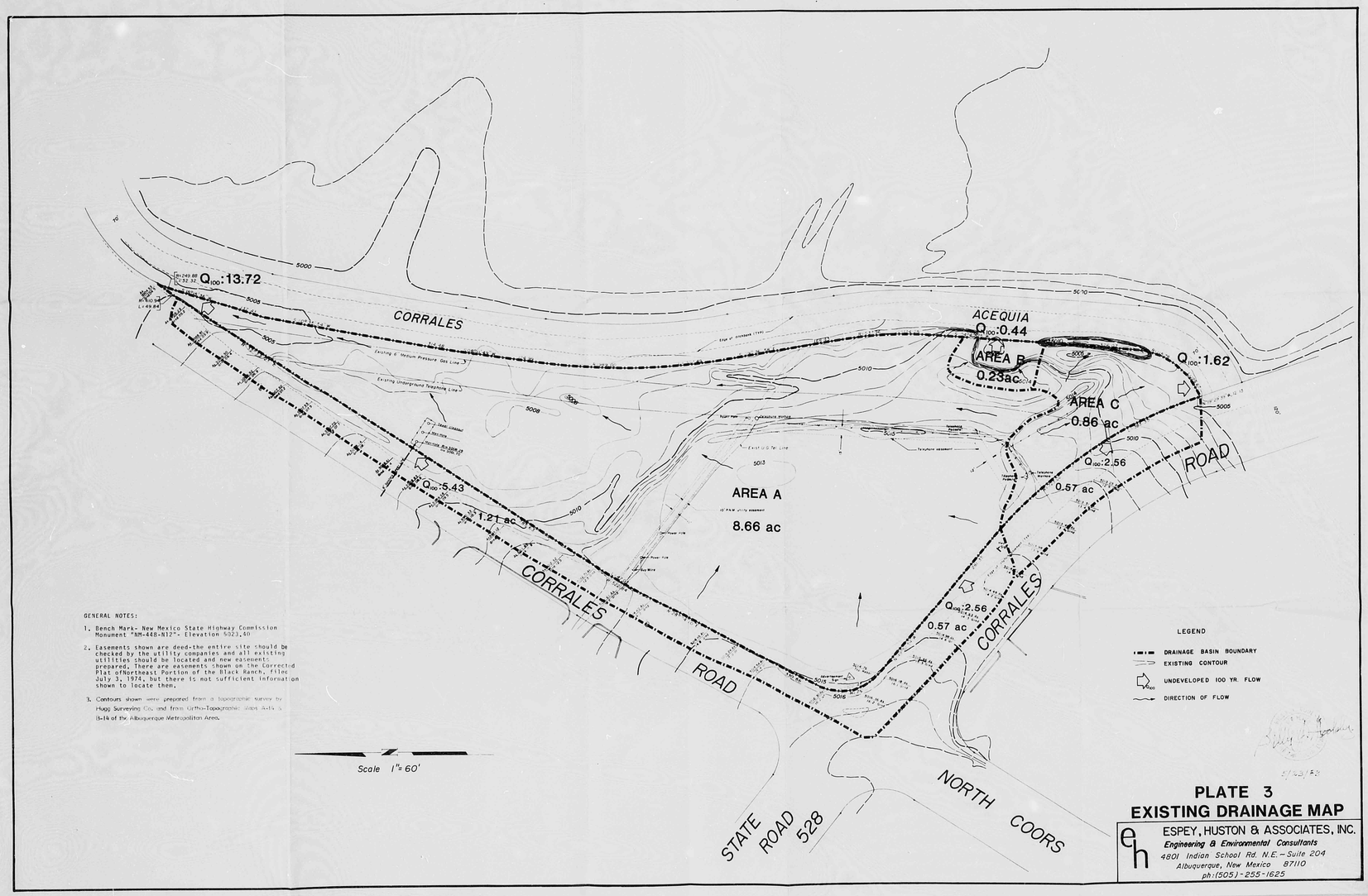
PUBLIC WORKS/HYDROLOGY

A14/D2



GENERAL NOTES:

1. Bench Mark- New Mexico State Highway Commission Monument "NM-448-N12"- Elevation 5023.40
2. Easements shown are deed-the entire site should be checked by the utility companies and all existing utilities should be located and new easements prepared. There are easements shown on the Corrected Plat ofNortheast Portion of the Black Ranch, filed July 3, 1974, but there is not sufficient information shown to locate them.
3. Contours shown were prepared from a topographic survey by Hugg Surveying Co. and from Ortho-Topographic Maps A-14 & B-14 of the Albuquerque Metropolitan Area.

PLATE 3
EXISTING DRAINAGE MAP

ESPEY, HUSTON & ASSOCIATES, INC.
Engineering & Environmental Consultants
4801 Indian School Rd. N.E. – Suite 204
Albuquerque, New Mexico 87110
ph:(505)-255-1625

R# 23 DATE 3/13/12 OP

CITY OF ALBUQUERQUE

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OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/24/12

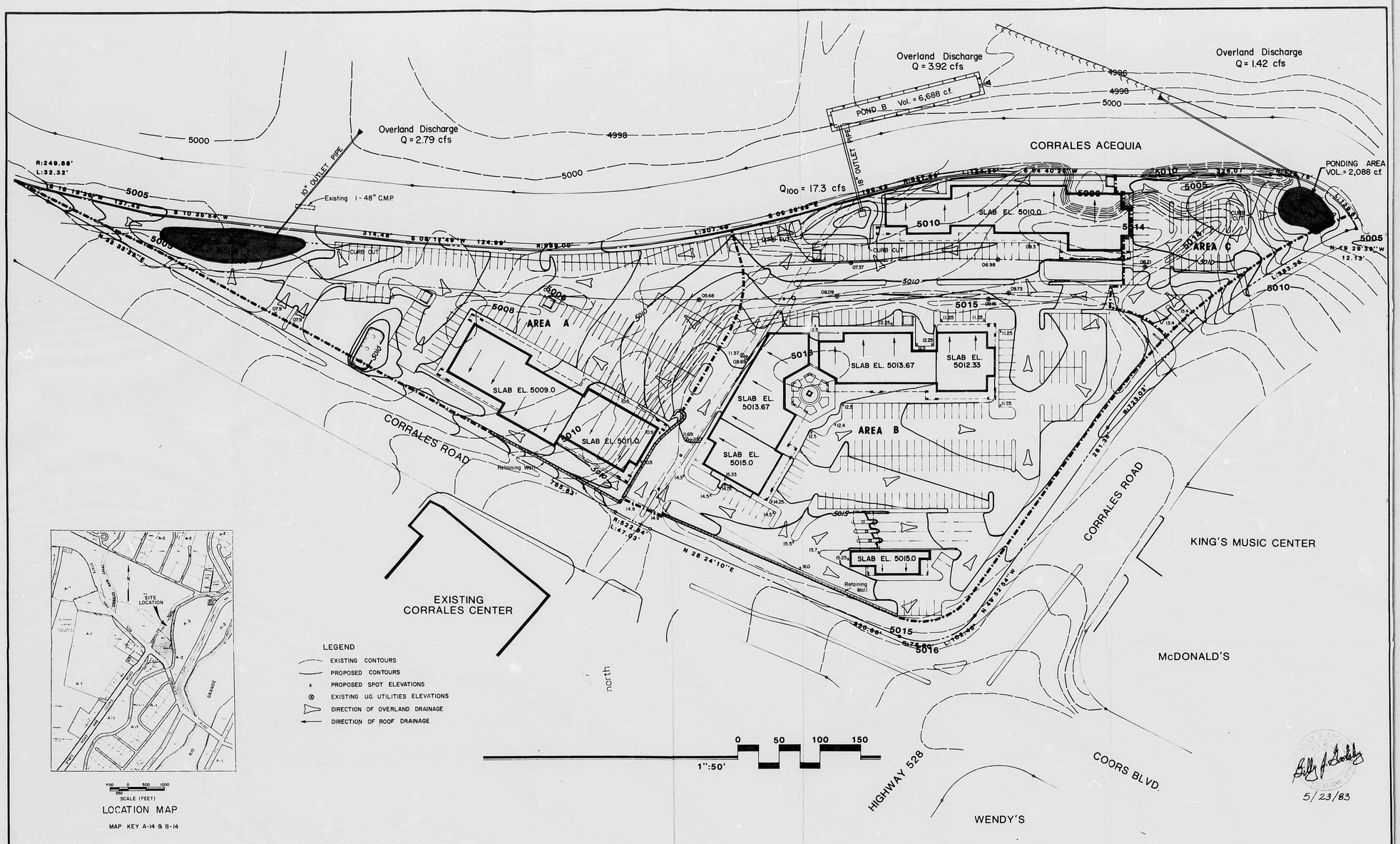
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PLANS/PLATS ON FILE

FILE DESC:
A14/D2

PLANS/PLATS 1e

E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F



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DRAWN BY:
CHECKED BY:
APPROVED BY:
DATE:

ESPEY, HUSTON & ASSOCIATES, INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD N.E. SUITE 204
ALBUQUERQUE, NEW MEXICO 87110 PHONE (505) 255-1625

PLATE 5

GRADING AND DRAINAGE PLAN

SHEET NO
OF SHEETS
FILE NO

5/23/83

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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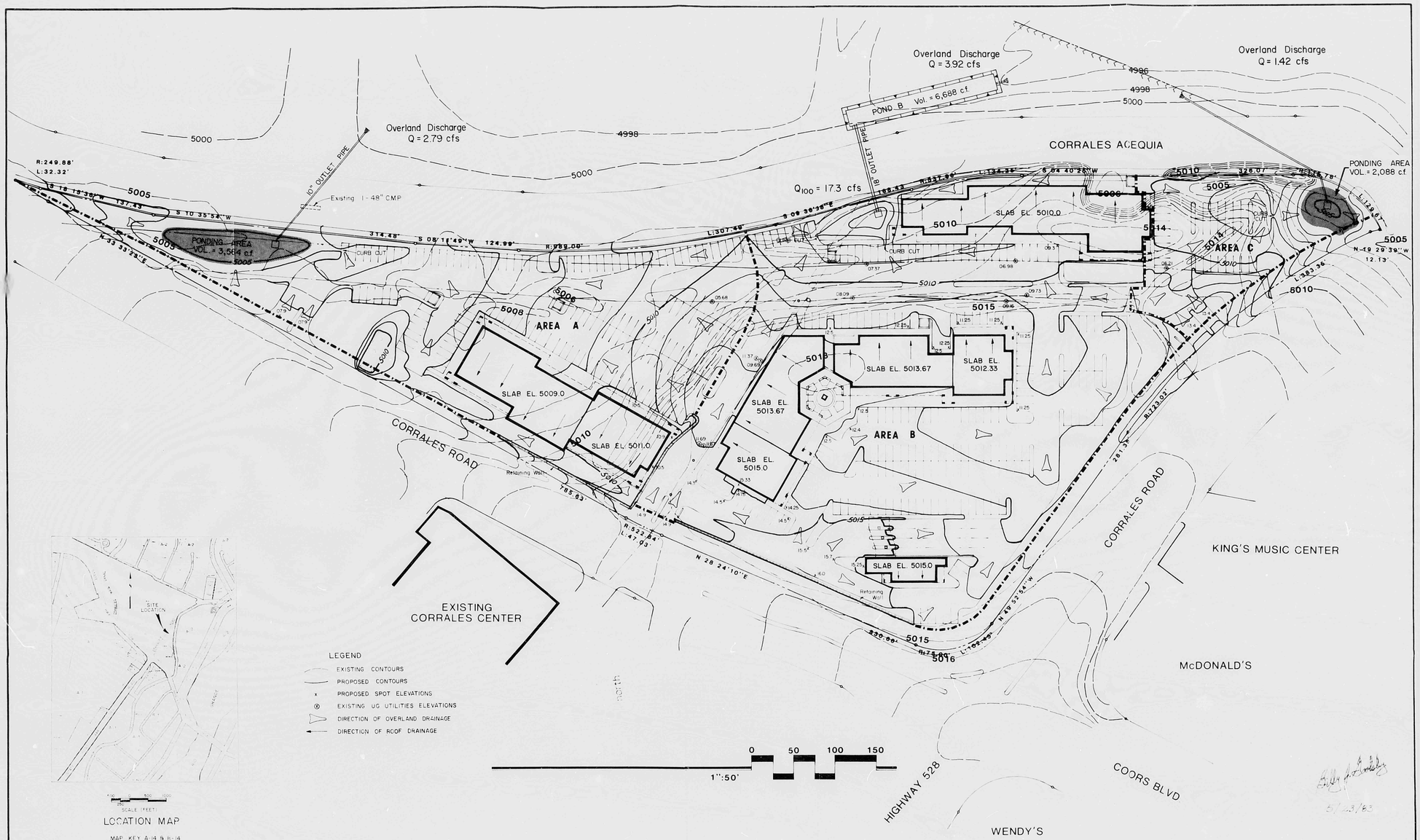
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NOTARY PUBLIC
STATE OF NEW MEXICO
My commission expires: 6/22/02

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CITY OF ALBUQUERQUE

C D



NO.	REVISION	BY	DATE

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DRAWN BY
CHECKED BY
APPROVED BY
DATE

ESPEY, HUSTON & ASSOCIATES, INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD N.E. SUITE 204
ALBUQUERQUE, NEW MEXICO 87110 PHONE (505) 255-1625

PLATE 5

GRADING AND DRAINAGE PLAN

SHEET NO
OF SHEETS
FILE NO

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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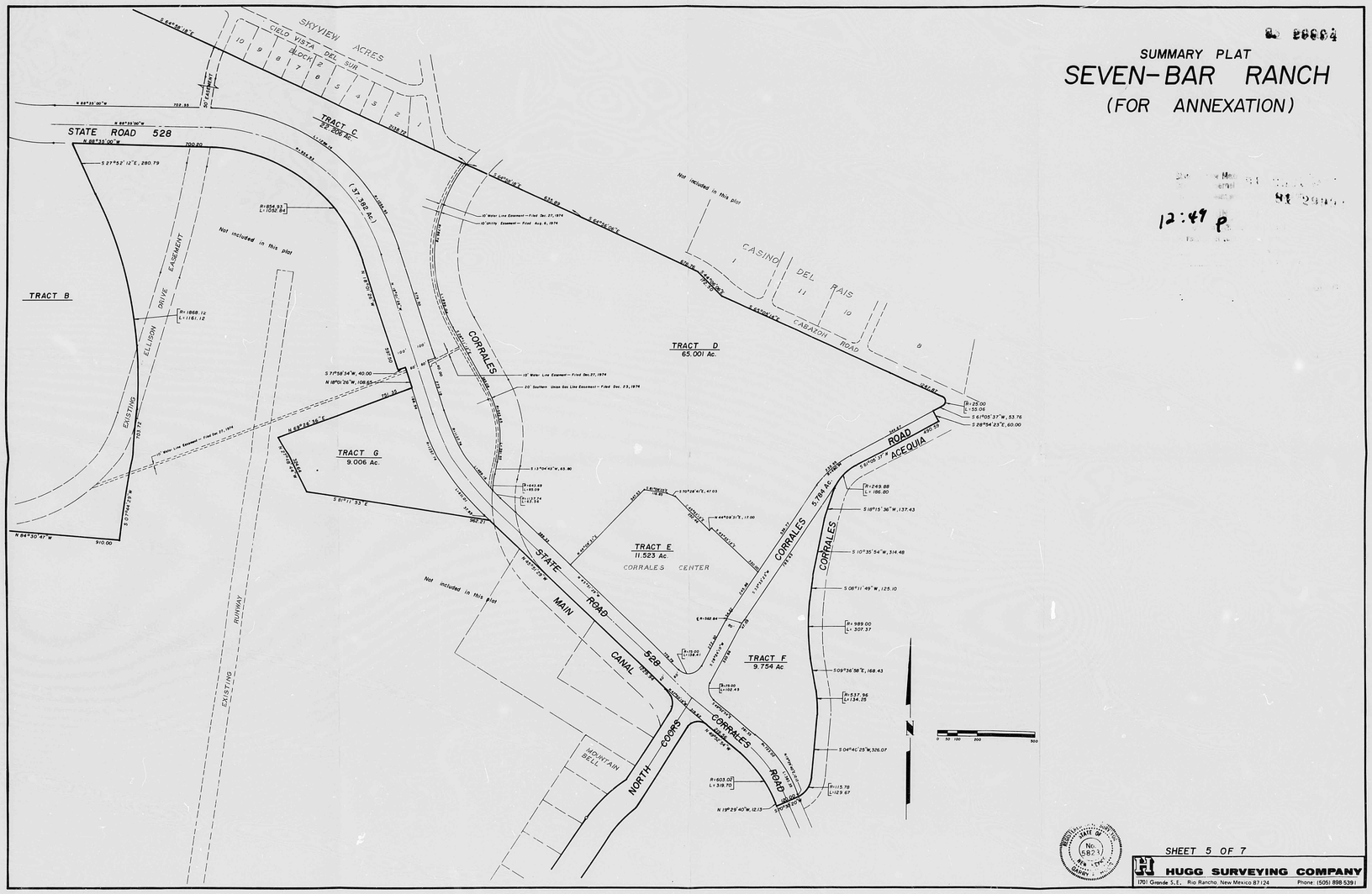
DIRECTOR

NOTARY PUBLIC

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Roberta Duran
NOTARY PUBLIC
07/03/92

D24 C20 B16 A12

CITY OF ALBUQERQUE C D



SUMMARY PLAT

SEVEN-BAR RANCH

(FOR ANNEXATION)

12:47 P

SHEET 5 OF 7

HUGG SURVEYING COMPANY

1701 Grande S.E., Rio Rancho, New Mexico 87124 Phone: (505) 898-5391

PLATE 2

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DIRECTOR 1/15/02

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OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/07/02

C B A

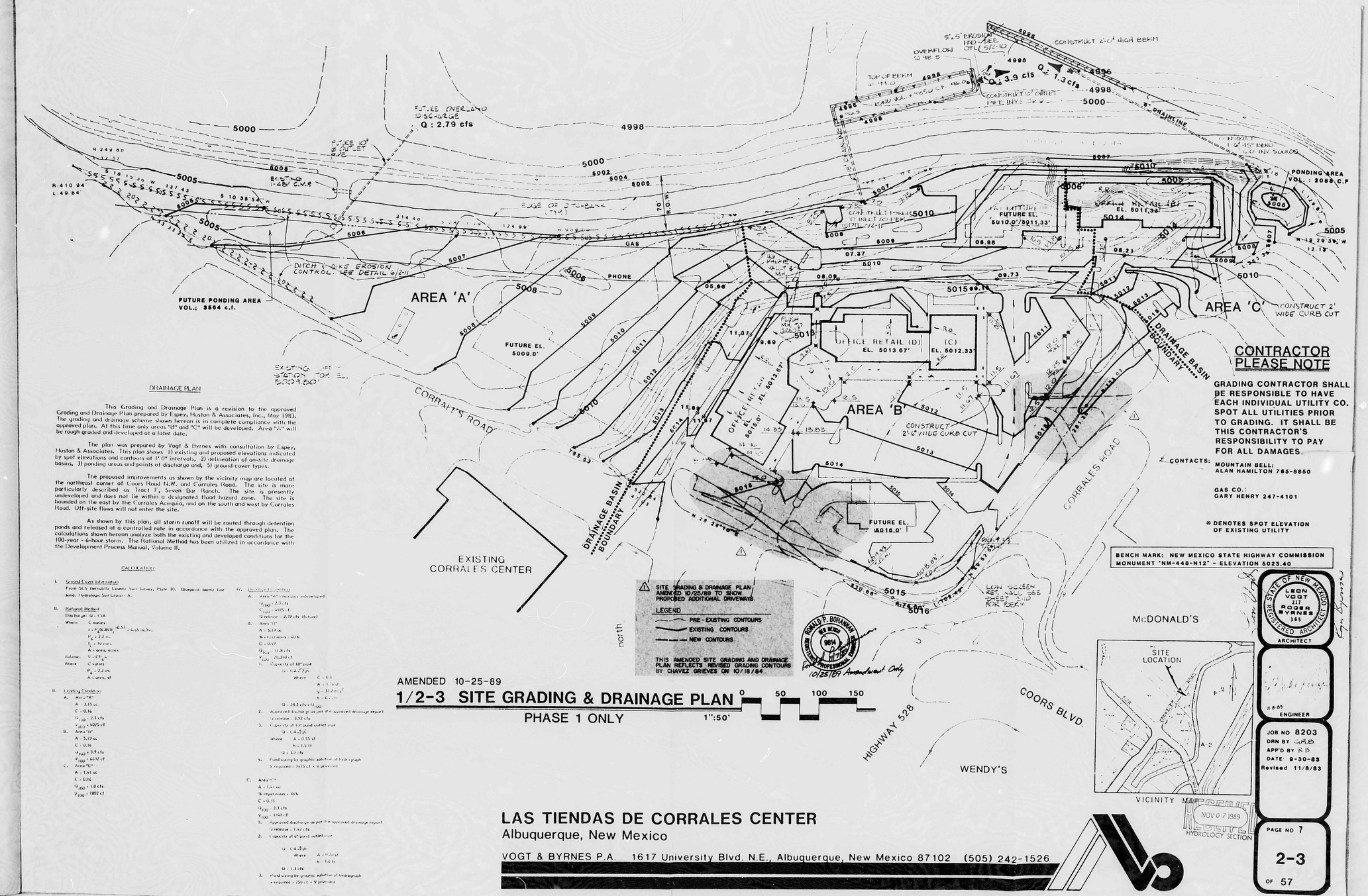
C20 B16 A12

CITY OF ALBUQUERQUE C

PUBLIC WORKS/HYDROLOGY

2 OF 3

A14/D2



DRAINAGE PLAN

This Grading and Drainage Plan is a revision to the approved Grading and Drainage Plan prepared by Espey, Huston & Associates, Inc., May 1983. The grading and drainage scheme shown hereon is in complete compliance with the approved plan. At this time only areas "B" and "C" will be developed. Area "A" will be rough graded and developed at a later date.

The plan was prepared by Vogt & Byrnes with consultation by Espey, Huston & Associates. This plan shows 1) existing and proposed elevations indicated by spot elevations and contours at 1'-0" intervals, 2) delineation of on-site drainage basins, 3) ponding areas and points of discharge and, 5) ground cover types.

The proposed improvements as shown by the vicinity map are located at the northeast corner of Coors Road N.W. and Corrales Road. The site is more particularly described as Tract F, Seven Bar Ranch. The site is presently undeveloped and does not lie within a designated flood hazard zone. The site is bounded on the east by the Corrales Acequia, and on the south and west by Corrales Road. Off-site flows will not enter the site.

As shown by this plan, all storm runoff will be routed through detention ponds and released at a controlled rate in accordance with the approved plan. The calculations shown hereon analyze both the existing and developed conditions for the 100-year - 6-hour storm. The Rational Method has been utilized in accordance with the Development Process Manual, Volume II.

CALCULATIONS

I. Ground Cover Information
From SCS Bernalillo County Soil Survey, Plate 16: Bluepoint loamy fine sand. Hydrologic Soil Group - A.

II. Rational Method
Discharge: $Q = CIA$
Where C varies
$i = P_6(6.6tt)^{-0.51} = 4.65$ in./hr.
$P_6 = 2.2$ in.
$t_c = 10$ min.
A = area, acres
Volume: $V = CP_6A$
Where C varies
$P_6 = 2.2$ in.
A = area, sf

III. Existing Condition
A. Area "A"
A = 3.13 ac
C = 0.16
$Q_{100} = 2.3$ cfs
$V_{100} = 4025$ cf
B. Area "B"
A = 3.19 ac
C = 0.16
$Q_{100} = 3.9$ cfs
$V_{100} = 6612$ cf
C. Area "C"
A = 1.61 ac
C = 0.16
$Q_{100} = 1.0$ cfs
$V_{100} = 1802$ cf

IV. Developed Condition
A. Area "A" - remains undeveloped
$Q_{100} = 2.3$ cfs
$C_{100} = 4025$ cf
$Q_{release} = 2.79$ cfs (future)
B. Area "B"
A = 3.19 ac
% impervious = 40%
C = 0.49
$Q_{100} = 11.8$ cfs
$V_{100} = 20,310$ cf
1. Capacity of 18" pipe
$Q = CA\sqrt{2gh}$
Where C = 0.8
A = 1.76 sf
g = 32.2 ft/s²
h = 4.4 ft
$Q = 282$ cfs > Q_{100}
2. Approved discharge as per the approved drainage report
$Q_{release} = 3.92$ cfs
3. Capacity of 10" pond outlet pipe
$Q = CA\sqrt{2gh}$
Where A = 0.55 sf
h = 1.5 ft
Q = 3.7 cfs
4. Pond sizing by graphic solution of hydrograph
V required = 7473 cf < V provided
C. Area "C"
A = 1.61 ac
% impervious = 38%
C = 0.35
$Q_{100} = 2.3$ cfs
$V_{100} = 1760$ cf
1. Approved discharge as per the approved drainage report
$Q_{release} = 1.42$ cfs
2. Capacity of 6" pond outlet pipe
$Q = CA\sqrt{2gh}$
Where A = 0.2 sf
h = 1.6 ft
Q = 1.3 cfs
3. Pond sizing by graphic solution of hydrograph
V required = 750 cf < V provided

SITE GRADING & DRAINAGE PLAN AMENDED 10/25/89 TO SHOW PROPOSED ADDITIONAL DRIVEWAYS.

LEGEND
PRE-EXISTING CONTOURS
EXISTING CONTOURS
NEW CONTOURS.

THIS AMENDED SITE GRADING AND DRAINAGE PLAN REFLECTS REVISED GRADING CONTOURS BY CHAVEZ GRIEVES ON 10/16/84.

RONALD P. BOHANNAN NEW MEXICO 9814 REGISTERED PROFESSIONAL ENGINEER
10/25/89 Amendment Only

AMENDED 10-25-89

1/2-3 SITE GRADING & DRAINAGE PLAN

PHASE 1 ONLY

0 50 100 150
1":50'

CONTRACTOR PLEASE NOTE

GRADING CONTRACTOR SHALL BE RESPONSIBLE TO HAVE EACH INDIVIDUAL UTILITY CO. SPOT ALL UTILITIES PRIOR TO GRADING. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL DAMAGES.

CONTACTS:
MOUNTAIN BELL: ALAN HAMILTON 765-8850
GAS CO.: GARY HENRY 247-4101

* DENOTES SPOT ELEVATION OF EXISTING UTILITY

BENCH MARK: NEW MEXICO STATE HIGHWAY COMMISSION MONUMENT "NM-448-N12" - ELEVATION 5023.40

STATE OF NEW MEXICO REGISTERED ARCHITECT
LEON VOGT 217 ROGER BYRNES 365
ARCHITECT
ENGINEER

JOB NO 8203
DRN BY GRB
APP'D BY RB
DATE 9-30-83
Revised 11/8/83

PAGE NO 7
2-3
OF 57

RECEIVED NOV 07 1989 HYDROLOGY SECTION

LAS TIENDAS DE CORRALES CENTER
Albuquerque, New Mexico

VOGT & BYRNES P.A. 1617 University Blvd. N.E., Albuquerque, New Mexico 87102 (505) 242-1526

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

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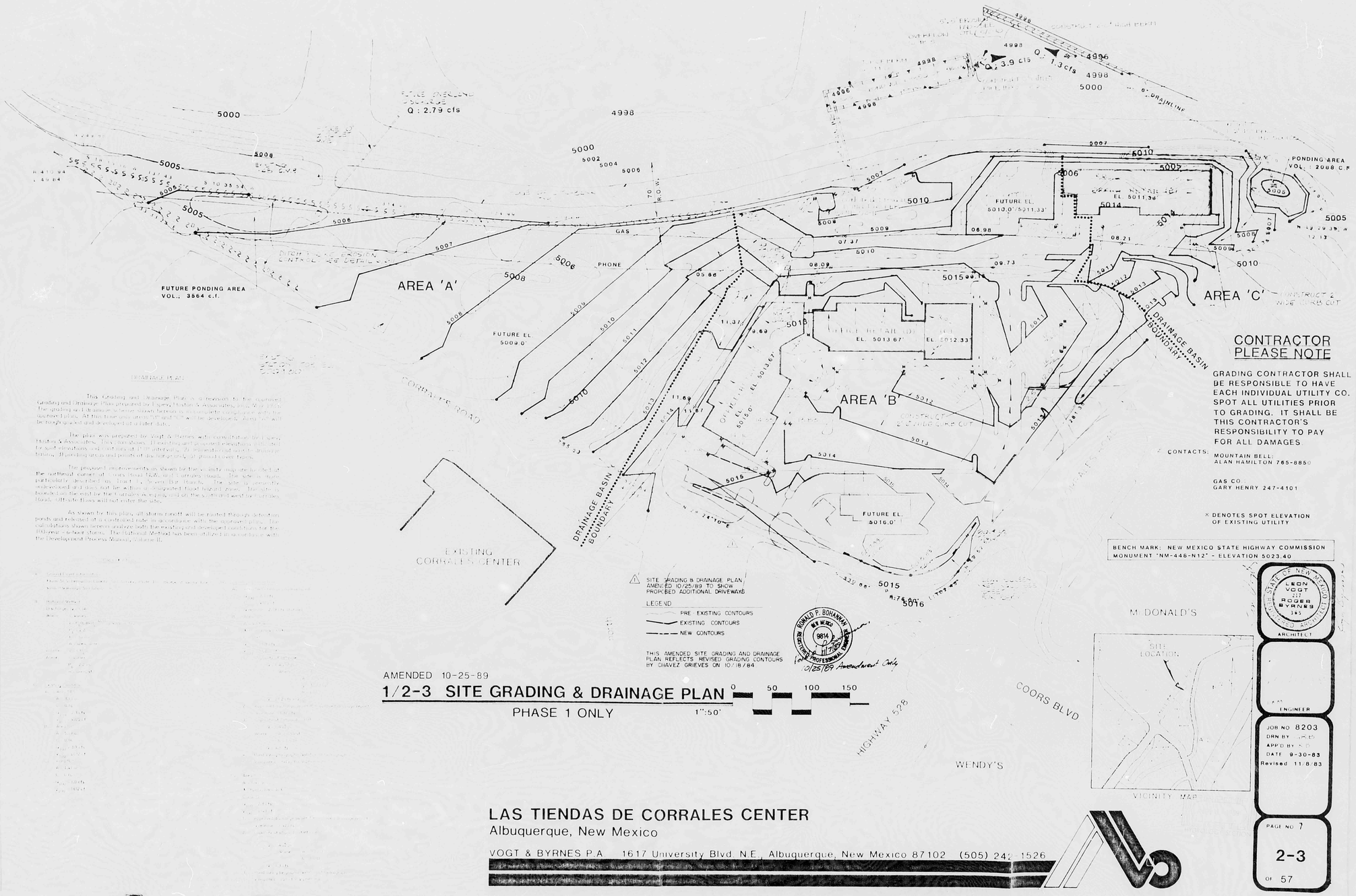
DIRECTOR

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D 24 C 20 B 16 A 12

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GAS CO.
GARY HENRY 247-4101

× DENOTES SPOT ELEVATION OF EXISTING UTILITY

BENCH MARK: NEW MEXICO STATE HIGHWAY COMMISSION
MONUMENT "NM-448-N12" - ELEVATION 5023.40

SITE GRADING & DRAINAGE PLAN, AMENDED 10/25/89 TO SHOW PROPOSED ADDITIONAL DRIVEWAYS

LEGEND
- PRE-EXISTING CONTOURS
- EXISTING CONTOURS
- NEW CONTOURS

THIS AMENDED SITE GRADING AND DRAINAGE PLAN REFLECTS REVISED GRADING CONTOURS BY CHAVEZ GRIEVES ON 10/18/84

RONALD P. BOHANNAN NEW MEXICO 9614 REGISTERED PROFESSIONAL ENGINEER 10/25/89 Amendment Only

AMENDED 10-25-89

1/2-3 SITE GRADING & DRAINAGE PLAN

PHASE 1 ONLY

0 50 100 150
1":50'

LEON VOGT JR. ROGER BYRNES III
REGISTERED ARCHITECT
ARCHITECT
ENGINEER

JOB NO 8203
DRN BY
APP'D BY
DATE 9-30-83
Revised 11-8-83

PAGE NO 7
2-3
OF 57

LAS TIENDAS DE CORRALES CENTER
Albuquerque, New Mexico

VOGT & BYRNES P.A. 1617 University Blvd. N.E. Albuquerque, New Mexico 87102 (505) 242-1526

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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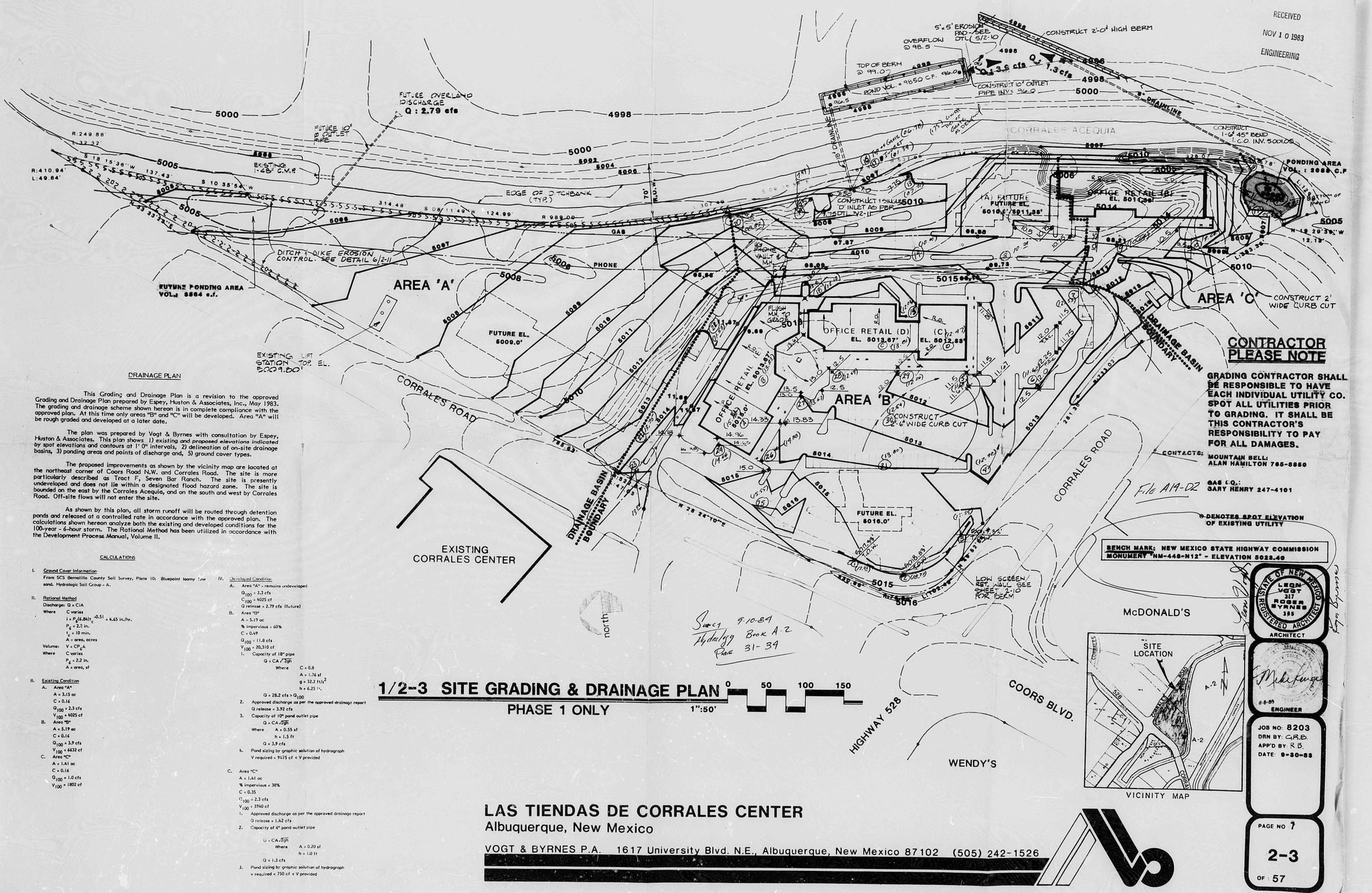
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Mary T. Holley 1/5/92
DIRECTOR

Roberta Duran
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1/2-3 SITE GRADING & DRAINAGE PLAN

PHASE 1 ONLY

0 50 100 150
1":50'

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CONTACTS: MOUNTAIN BELL: ALAN HAMILTON 765-8850
GAS CO.: GARY HENRY 247-4101

File A14-D2

⊗ DENOTES SPOT ELEVATION OF EXISTING UTILITY

BENCH MARK: NEW MEXICO STATE HIGHWAY COMMISSION MONUMENT "NM-448-M12" - ELEVATION 5023.40

DRAINAGE PLAN

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CALCULATIONS

I. Ground Cover Information:
From SCS Bernalillo County Soil Survey, Plate 10: Bluepoint loamy fine sand. Hydrologic Soil Group = A.

II. Rational Method
Discharge: $Q = CIA$
Where C varies
$i = P_6(6.86t)^{-0.51} = 4.65$ in./hr.
$P_6 = 2.3$ in.
$t_c = 10$ min.
A = area, acres
Volume: $V = CP_6A$
Where C varies
$P_6 = 2.2$ in.
A = area, sf

II. Existing Condition
A. Area "A"
A = 3.15 ac
C = 0.16
$Q_{100} = 2.3$ cfs
$V_{100} = 4025$ cf
B. Area "B"
A = 5.19 ac
C = 0.16
$Q_{100} = 3.9$ cfs
$V_{100} = 6632$ cf
C. Area "C"
A = 1.41 ac
C = 0.16
$Q_{100} = 1.0$ cfs
$V_{100} = 1802$ cf

IV. Developed Condition:
A. Area "A" - remains undeveloped
$Q_{100} = 2.3$ cfs
$C_{100} = 4025$ cf
Q release = 2.79 cfs (future)
B. Area "B"
A = 5.19 ac
% impervious = 60%
C = 0.49
$Q_{100} = 11.8$ cfs
$V_{100} = 20,310$ cf
1. Capacity of 18" pipe
$Q = CA\sqrt{2gh}$
Where C = 0.8
A = 1.76 sf
g = 32.2 ft/s²
h = 6.25 ft.
$Q = 28.2$ cfs $> Q_{100}$
2. Approved discharge as per the approved drainage report
Q release = 3.92 cfs
3. Capacity of 10" pond outlet pipe
$Q = CA\sqrt{2gh}$
Where A = 0.55 sf
h = 1.5 ft
Q = 3.9 cfs
4. Pond sizing by graphic solution of hydrograph
V required = 9675 cf < V provided
C. Area "C"
A = 1.41 ac
% impervious = 38%
C = 0.35
$Q_{100} = 2.3$ cfs
$V_{100} = 3940$ cf
1. Approved discharge as per the approved drainage report
Q release = 1.42 cfs
2. Capacity of 6" pond outlet pipe
$Q = CA\sqrt{2gh}$
Where A = 0.20 sf
h = 1.0 ft
Q = 1.3 cfs
3. Pond sizing by graphic solution of hydrograph
V required = 750 cf < V provided

LAS TIENDAS DE CORRALES CENTER
Albuquerque, New Mexico

VOGT & BYRNES P.A. 1617 University Blvd. N.E., Albuquerque, New Mexico 87102 (505) 242-1526

STATE OF NEW MEXICO REGISTERED ARCHITECT LEON VOGT 317 ROGER BYRNES 385
ARCHITECT
11-8-83
ENGINEER

JOB NO: 8203
DRN BY: GRB
APP'D BY: RB
DATE: 9-30-83

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OF : 57

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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DIRECTOR

Roberta Duran
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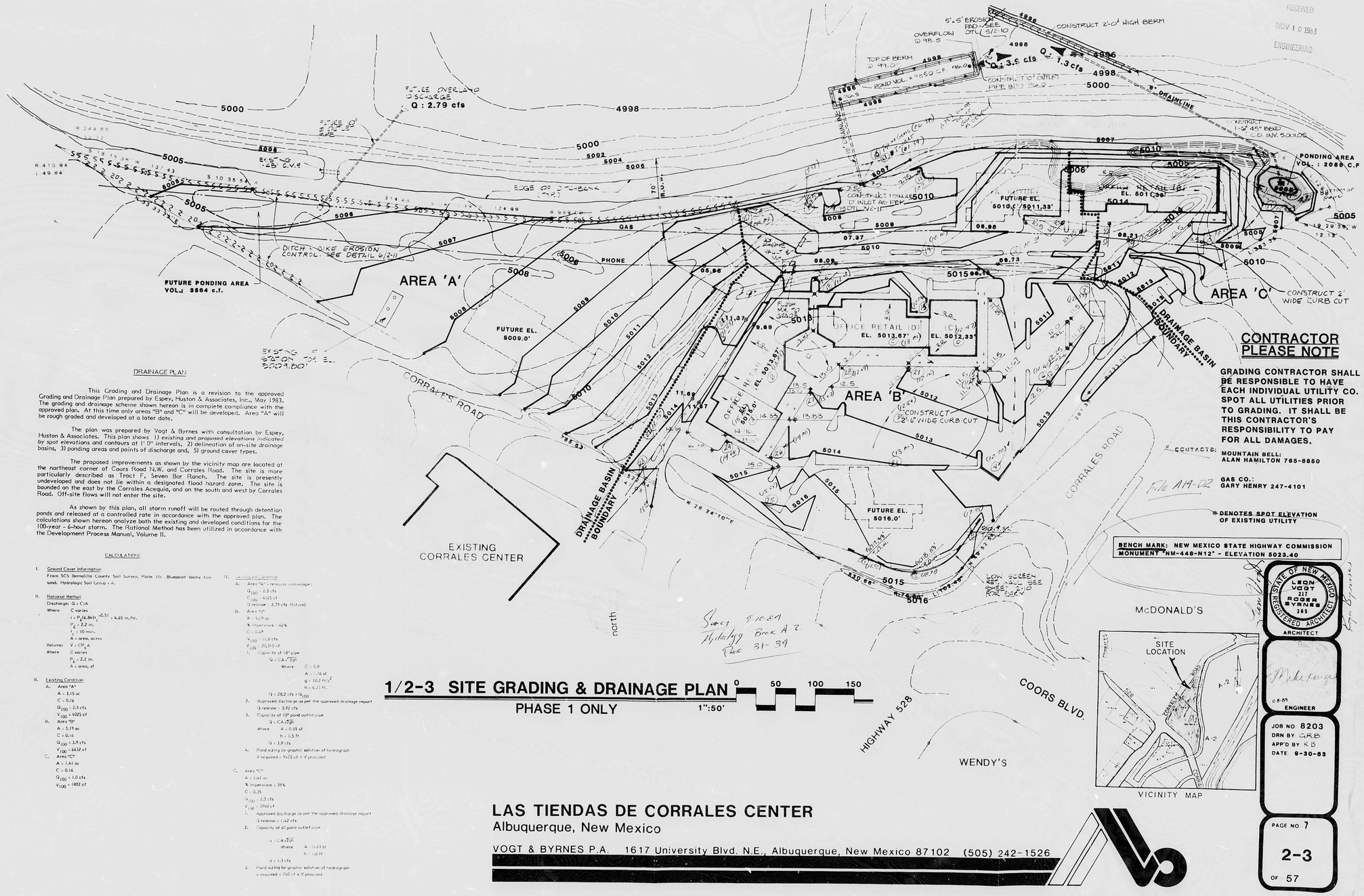
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DRAINAGE PLAN

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The plan was prepared by Vogt & Byrnes with consultation by Espey, Huston & Associates. This plan shows 1) existing and proposed elevations indicated by spot elevations and contours at 1' 0" intervals, 2) delineation of on-site drainage basins, 3) ponding areas and points of discharge and, 5) ground cover types.

The proposed improvements as shown by the vicinity map are located at the northeast corner of Coors Road N.W. and Corrales Road. The site is more particularly described as Tract F, Seven Bar Ranch. The site is presently undeveloped and does not lie within a designated flood hazard zone. The site is bounded on the east by the Corrales Acequia, and on the south and west by Corrales Road. Off-site flows will not enter the site.

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CALCULATIONS

I. Ground Cover Information
From SCS Bernalillo County Soil Survey, Plate 10: Bluepoint loamy fine sand, Hydrologic Soil Group - A.

II. Rational Method
Discharge: $Q = CiA$
Where C varies
$i = P_6(6.94)t^{-0.51} = 4.65$ in./hr.
$P_6 = 2.2$ in.
$t_c = 10$ min.
A = area, acres
Volume: $V = CP_6A$
Where C varies
$P_6 = 2.2$ in.
A = area, sf

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A. Area "A"
A = 3.15 ac
C = 0.16
$Q_{100} = 2.3$ cfs
$V_{100} = 3025$ cf
B. Area "B"
A = 5.19 ac
C = 0.16
$Q_{100} = 3.9$ cfs
$V_{100} = 6632$ cf
C. Area "C"
A = 1.41 ac
C = 0.16
$Q_{100} = 1.0$ cfs
$V_{100} = 1802$ cf

IV. Developed Condition
A. Area "A" - remains undeveloped
$Q_{100} = 2.3$ cfs
$V_{100} = 3025$ cf
Q release = 2.79 cfs (future)
B. Area "B"
A = 5.19 ac
% impervious = 60%
C = 0.49
$Q_{100} = 11.8$ cfs
$V_{100} = 20,310$ cf
1. Capacity of 18" pipe
$Q = CA\sqrt{2gh}$
Where C = 0.8
A = 1.76 sf
g = 32.2 ft/s^2
h = 6.25 ft.
$Q = 28.2$ cfs > Q_{100}
2. Approved discharge as per the approved drainage report
Q release = 3.92 cfs
3. Capacity of 10" pond outlet pipe
$Q = CA\sqrt{2gh}$
Where A = 0.55 sf
h = 1.5 ft
$Q = 3.9$ cfs
4. Pond sizing by graphic solution of hydrograph
V required = 9425 cf < V provided
C. Area "C"
A = 1.41 ac
% impervious = 38%
C = 0.35
$Q_{100} = 2.3$ cfs
$V_{100} = 3940$ cf
1. Approved discharge as per the approved drainage report
Q release = 1.42 cfs
2. Capacity of 6" pond outlet pipe
$Q = CA\sqrt{2gh}$
Where A = 0.23 sf
h = 1.0 ft
$Q = 1.3$ cfs
3. Pond sizing by graphic solution of hydrograph
V required = 730 cf < V provided

Survey 9-10-81
Hydrology Book A 2
Page 31-39

1/2-3 SITE GRADING & DRAINAGE PLAN

PHASE 1 ONLY

1":50'

0 50 100 150

CONTRACTOR PLEASE NOTE

GRADING CONTRACTOR SHALL BE RESPONSIBLE TO HAVE EACH INDIVIDUAL UTILITY CO. SPOT ALL UTILITIES PRIOR TO GRADING. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL DAMAGES.

CONTACTS: MOUNTAIN BELL: ALAN HAMILTON 765-8850
GAS CO.: GARY HENRY 247-4101

F.C. A14-02

※ DENOTES SPOT ELEVATION OF EXISTING UTILITY

BENCH MARK: NEW MEXICO STATE HIGHWAY COMMISSION MONUMENT "NM-448-N12" - ELEVATION 5023.40

STATE OF NEW MEXICO
LEON VOGT 217 ROGER BYRNES 389
REGISTERED ARCHITECT
ARCHITECT

ENGINEER

JOB NO 8203
DRN BY GRB
APP'D BY RB
DATE 9-30-83

PAGE NO 7
2-3
OF 57

LAS TIENDAS DE CORRALES CENTER
Albuquerque, New Mexico

VOGT & BYRNES P.A. 1617 University Blvd. N.E., Albuquerque, New Mexico 87102 (505) 242-1526

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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11/5/02
DIRECTOR

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/07/02

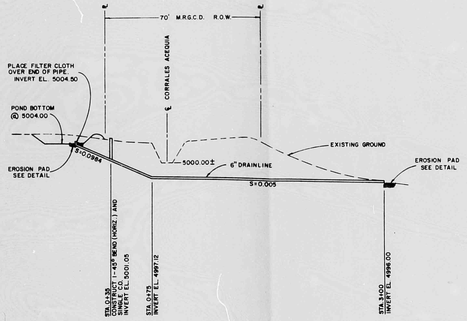
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CITY OF ALBUQUERQUE C D

PUBLIC WORKS/HYDROLOGY

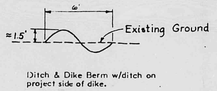
3 OF 3

A14/D2



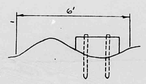
1/2-11 PIPE PROFILE FROM POND "C"

SCALE V: 1"=10'-0"
H: 1"=50'-0"



Ditch & Dike Berm w/ditch on project side of dike.

TYPICAL SECTION



Hay Bales w/2" X 2" X 4' stakes driven approx. 2' in ground. To be removed as Permanent Phase controls.

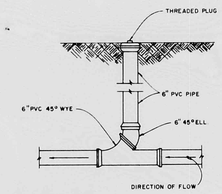
Sediment and damaged hay bales to be removed and disposed of as construction progresses. Damaged bales are to be replaced until Permanent Phase is completed.

Hay Bales to be replaced as necessary to ensure positive sediment control.

Disturbed areas to be watered during construction to control dust pollution and wind erosion.

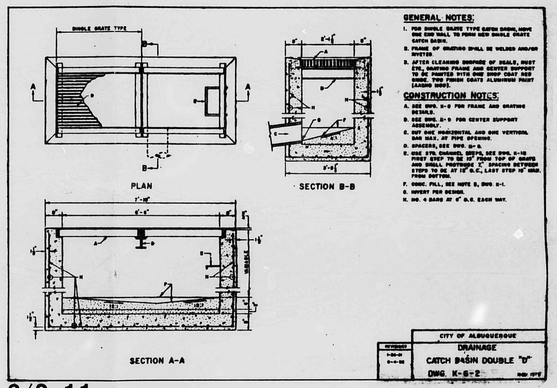
6/2-11 EROSION CONTROL DETAIL

N.T.S.



2/2-11 TYPICAL CLEANOUT DETAIL

N.T.S.



GENERAL NOTES:

1. FOR SINGLE GRATE TYPE CATCH BASIN, ABOVE ONE END WALL TO FRAME SIDE SINGLE GRATE CATCH BASIN.
2. FRAME OF GRATING SHALL BE WELDED AND/OR RIVETED.
3. AFTER CLEANING SUMPS OF DEBRIS, REST TY'S GRATING PLATES AND CENTER SUPPORT ON TOP OF FRAME. PLACE ONE COAT PAINT SHOP, TWO FINISH COATS ALUMINUM PAINT LEADING MAKE.

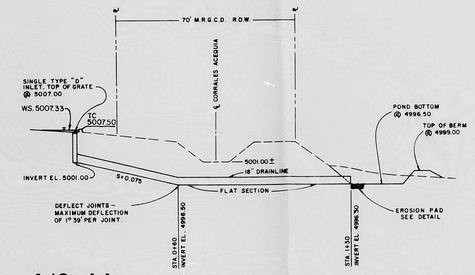
CONSTRUCTION NOTES:

A. SEE DWG. D-2 FOR FRAME AND GRATING DETAILS.
B. SEE DWG. D-3 FOR CENTER SUPPORT ASSEMBLY.
C. CUT ONE HORIZONTAL AND ONE VERTICAL BAR ONLY AT PIPE OPENING.
D. SPACERS, SEE DWG. D-1 &
E. ONE STD. CASTING, STEPS, SEE DWG. D-16 AND 17 AT 16" O.C. ONE SET OF STEPS AND LADDER FINISH COATED WITH BITUMASTIC. STEPS TO BE AT 16" O.C., LAST STEP 16" MIN. FROM BOTTOM.
F. 100C. FILL, SEE NOTE 5, DWG. D-1.
G. INVERT PER DESIGN.
H. DR. 4 BARS AT 6" O.C. EACH WAY.

CITY OF ALBUQUERQUE
DRAINAGE
CATCH BASIN DOUBLE "D"
DWG. K-6-2

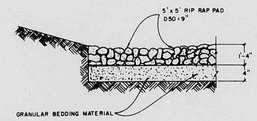
3/2-11 DRAINAGE CATCH BASIN DOUBLE "D"

N.T.S.



4/2-11 PIPE PROFILE - AREA 'B' TO POND 'B'

SCALE H: 1"=20'-0"
V: 1"=10'-0"



5/2-11 EROSION PAD DETAIL

N.T.S.

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STATE OF NEW MEXICO
REGISTERED ARCHITECT
LEON VOGT
217
ROGER BYRNES
385
ARCHITECT

ENGINEER

JOB NO: 8203
DRN BY: E.H
APP'D BY: R.B.
DATE: 6-30-86

PAGE NO: 15
2-11
OF: 57

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My commission expires 6/19/95

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